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NASA SP-7039(29)
Section 2
Indexes

(NASA-SP-7039(29)-Sect-2) NASA PATENT ABSTRACTS BIBLIOGRAPHY. A CONTINUING BIBLIOGRAPHY. SECTION 2: INDEXES (SUPPLEMENT 29) (National Aeronautics and Space Administration) 483 p HC A21 CSCL 05B 00/82
N86-28789
Unclas
43457

NASA

PATENT ABSTRACTS BIBLIOGRAPHY

A CONTINUING BIBLIOGRAPHY

Section 2 • Indexes

JULY 1986

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

ACCESSION NUMBER RANGES

Bibliography Number	*STAR Accession Numbers*
NASA SP-7039(04) SEC 1	N69-20701 – N73-33931
NASA SP-7039(12) SEC 1	N74-10001 – N77-34042
NASA SP-7039(13) SEC 1	N78-10001 – N78-22018
NASA SP-7039(14) SEC 1	N78-22019 – N78-34034
NASA SP-7039(15) SEC 1	N79-10001 – N79-21993
NASA SP-7039(16) SEC 1	N79-21994 – N79-34158
NASA SP-7039(17) SEC 1	N80-10001 – N80-22254
NASA SP-7039(18) SEC 1	N80-22255 – N80-34339
NASA SP-7039(19) SEC 1	N81-10001 – N81-21997
NASA SP-7039(20) SEC 1	N81-21998 – N81-34139
NASA SP-7039(21) SEC 1	N82-10001 – N82-22140
NASA SP-7039(22) SEC 1	N82-22141 – N82-34341
NASA SP-7039(23) SEC 1	N83-10001 – N83-23266
NASA SP-7039(24) SEC 1	N83-23267 – N83-37053
NASA SP-7039(25) SEC 1	N84-10001 – N84-22526
NASA SP-7039(26) SEC 1	N84-22527 – N84-35284
NASA SP-7039(27) SEC 1	N85-10001 – N85-22341
NASA SP-7039(28) SEC 1	N85-22342 – N85-36162
NASA SP-7039(29) SEC 1	N86-10001 – N86-22536

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NASA SP-7039(29)
Section 2
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NASA

PATENT ABSTRACTS BIBLIOGRAPHY

A CONTINUING BIBLIOGRAPHY

Section 2 • Indexes

Indexes for the annotated references to NASA-owned inventions covered by U.S. patents and applications for patent that were announced in *Scientific and Technical Aerospace Reports (STAR)* between May 1969 and June 1986. This issue supersedes all previous Index Sections.

Scientific and Technical Information Branch 1986
National Aeronautics and Space Administration
Washington, DC

This supplement is available from the National Technical Information Service (NTIS), Springfield, Virginia 22161, price code A21.

INTRODUCTION

Several thousand inventions result each year from the aeronautical and space research supported by the National Aeronautics and Space Administration. The inventions having important use in government programs or significant commercial potential are usually patented by NASA. These inventions cover practically all fields of technology and include many that have useful and valuable commercial application.

NASA inventions best serve the interests of the United States when their benefits are available to the public. In many instances, the granting of nonexclusive or exclusive licenses for the practice of these inventions may assist in the accomplishment of this objective. This bibliography is published as a service to companies, firms, and individuals seeking new, licensable products for the commercial market.

The *NASA Patent Abstracts Bibliography (NASA PAB)* is a semiannual NASA publication containing comprehensive abstracts and indexes of NASA-owned inventions covered by U.S. patents and applications for patent. The citations included in *NASA PAB* were originally published in NASA's *Scientific and Technical Aerospace Reports (STAR)* and cover *STAR* announcements made since May 1969.

For the convenience of the user, each issue of *NASA PAB* has a separately bound Abstract Section (Section 1) and Index Section (Section 2). Although each Abstract Section covers only the indicated six-month period, the Index Section is cumulative covering all NASA-owned inventions announced in *STAR* since 1969. Thus a complete set of *NASA PAB* would consist of the Abstract Sections of Issue 04 (January 1974) and Issue 12 (January 1978) and the Abstract Section for all subsequent issues and the Index Section for the most recent issue.

The 115 citations published in this issue of the Abstract Section cover the period January 1986 through June 1986. The Index Section references over 4400 citations covering the period May 1969 through June 1986.

ABSTRACT SECTION (SECTION 1)

This *PAB* issue incorporates the 1975 *STAR* category revisions which include 10 major subdivisions divided into 74 specific categories and one general category/division. (See Table of Contents for the scope note of each category under which are grouped appropriate NASA inventions.) This new scheme was devised in lieu of the 34 category divisions which were utilized in *PAB* supplements (01) through (06) covering *STAR* abstracts from May 1969 through January 1974. Each entry in the Abstract Section consists of a *STAR* citation accompanied by an abstract and a key illustration taken from the patent or application for patent drawing. Entries are arranged in subject category in order of the ascending NASA Accession Number originally assigned in *STAR* to the invention. The range of NASA Accession Numbers within each issue is printed on the inside front cover.

Abstract Citation Data Elements: Each of the abstract citations has several data elements useful for identification and indexing purposes, as follows:

NASA Accession Number
NASA Case Number
Inventor's Name
Title of Invention
U.S. Patent Application Serial Number
U.S. Patent Number (for issued patents only)
U.S. Patent Office Classification Number(s)
(for issued patents only)

These data elements are identified in the Typical Citation and Abstract and in the indexes.

INDEX SECTION (SECTION 2)

The Index Section is divided into five indexes. These indexes are cross-indexed and are used to locate a single invention or groups of inventions.

Subject Index: Lists all inventions according to appropriate alphabetized technical term and indicates the related NASA Case Number, the Subject Category Number, and the Accession Number.

Inventor Index: Lists all inventions according to alphabetized names of inventors and indicates the related NASA Case Number, the Subject Category Number, and the Accession Number.

Source Index: Lists all inventions according to alphabetized source of invention (i.e., name of contractor or government installation where invention was made) and indicates the related NASA Case Number, the Subject Category Number, and the Accession Number.

Number Index: Lists inventions in order of ascending (1) NASA Case Number, (2) U.S. Patent Application Serial Number, (3) U.S. Patent Classification Number, and (4) U.S. Patent Number and indicates the related Subject Category Number and the Accession Number.

Accession Number Index: Lists all inventions in order of ascending Accession Number and indicates the related Subject Category Number, the NASA Case Number, the U.S. Patent Application Serial Number, the U.S. Patent Classification Number, and the U.S. Patent Number.

HOW TO USE THIS PUBLICATION TO IDENTIFY NASA INVENTIONS

To identify one or more NASA inventions within a specific technical field or subject, several techniques are possible with the flexibility incorporated into the *NASA PAB.*

(1) *Using Subject Category:* To identify all NASA inventions in any one of the subject categories in this issue of *NASA PAB,* select the desired Subject Category in the Abstract Section (Section 1) and find the inventions abstracted thereunder.

(2) *Using Subject Index:* To identify all NASA inventions listed under a desired technical subject index term, (A) turn to the cumulative Subject Index in the Index Section and find the invention(s) listed under the desired technical subject term. (B) Note the indicated Accession Number and the Subject Category Number. (C) Using the indicated Accession Number, turn to the inside front cover of the Index Section to determine which issue of the Abstract Section includes the Accession Number desired. (D) To find the abstract of the particular invention in the issue of the Abstract Section selected, (i) use the Subject Category Number to locate the Subject Category and (ii) use the Accession Number to locate the desired invention within the Subject Category listing.

(3) *Using Patent Classification Index:* To identify all inventions covered by issued NASA patents (does not include applications for patent) within a desired Patent Classification, (A) turn to the Patent Classification Number in the Number Index of Section 2 and find the associated invention(s), and (B) follow the instructions outlined in (2)(B), and (D) above.

TYPICAL CITATION AND ABSTRACT

ON MICROFICHE

NASA SPONSORED

ACCESSION NUMBER → **N86-20470*#** National Aeronautics and Space Administration. Langley Research Center, Hampton, Va. ← CORPORATE SOURCE

TITLE → **TELESCOPING SPACE STATION MODULES Patent Application**

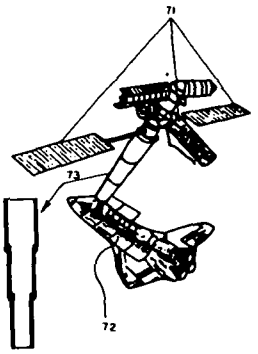
INVENTORS → R. D. WITCOFSKI, inventor (to NASA) 31 Jul. 1985 15 p

NASA CASE NUMBER → (NASA-CASE-LAR-13330-1; NAS 1.71:LAR-13330-1; US-PATENT-APPL-SN-761233) Avail: NTIS HC A02/MF A01 ← PRICE CODE

US PATENT APPLICATIONS SERIAL NUMBER → CSCL 22B ← AVAILABILITY SOURCE

COSATI CODE

A space station module consisting of a cylindrical can within a *can is presented. The outer can, which has one open end, encloses* the inner can. The inner can has one tapered end with a hatch and one untapered end with a hatch. The outer can has one tapered end with a hatch. The overall length of the outer can is 25 ft, and its outer diameter is 14 ft. Two such assemblies easily fit end to end in the Shuttle Orbiter payload bay. With a shuttle payload capability of 65,000 pounds and an approximate weight of each twin can assembly of 16,000 pounds, 33,000 pounds of payload are available for instrumenting the cans. Only the inner can *can be instrumented prior to launch. Once in orbit, the module* is expanded to provide twice the usable space, approximately 48 ft total length. NASA ← ABSTRACT



KEY ILLUSTRATION

Subject Categories

(1969 – 1973)

01 Aerodynamics
Includes aerodynamics of bodies, combinations, internal flow in ducts and turbomachinery; wings, rotors, and control surfaces. For applications see: 02 Aircraft and 32 Space Vehicles. For related information see also: 12 Fluid Mechanics; and 33 Thermodynamics and Combustion.

02 Aircraft
Includes fixed-wing airplanes, helicopters, gliders, balloons, ornithopters, etc.; and specific types of complete aircraft (e.g., ground effect machines, STOL, and VTOL); flight tests; operating problems (e.g., sonic boom); safety and safety devices; economics; and stability and control. For basic research see: 01 Aerodynamics. For related information see also: 31 Space Vehicles; and 32 Structural Mechanics.

03 Auxiliary Systems
Includes fuel cells, energy conversion cells, and solar cells; auxiliary gas turbines; hydraulic, pneumatic and electrical systems; actuators; and inverters. For related information see also: 09 Electronic Equipment; 22 Nuclear Engineering; and 28 Propulsion Systems.

04 Biosciences
Includes aerospace medicine, exobiology, radiation effects on biological systems; physiological and psychological factors. For related information see also: 05 Biotechnology.

05 Biotechnology
Includes life support systems, human engineering; protective clothing and equipment; crew training and evaluation, and piloting. For related information see also: 04 Biosciences.

06 Chemistry
Includes chemical analysis and identification (e.g., spectroscopy). For applications see: 17 Materials, Metallic; 18 Materials, Nonmetallic; and 27 Propellants.

07 Communications
Includes communications equipment and techniques; noise; radio and communications blackout; modulation telemetry; tracking radar and optical observation; and wave propagation. For basic research see: 23 Physics, General; and 21 Navigation.

08 Computers
Includes computer operation and programming; and data processing. For applications, see specific categories. For related information see also: 19 Mathematics.

09 Electronic Equipment
Includes electronic test equipment and maintainability; component parts, e.g., electron tubes, tunnel diodes, transistors, integrated circuitry; microminiaturization. For basic research see: 10 Electronics. For related information see also: 07 Communications and 21 Navigation.

10 Electronics
Includes circuit theory; and feedback and control theory. For applications see: 09 Electronic Equipment. For related information see specific Physics categories.

11 Facilities, Research and Support
Includes airports; lunar and planetary bases including associated vehicles; ground support systems; related logistics; simulators; test facilities (e.g., rocket engine test stands, shock tubes, and wind tunnels); test ranges; and tracking stations.

12 Fluid Mechanics
Includes boundary-layer flow; compressible flow; gas dynamics; hydrodynamics; and turbulence. For related information see also: 01 Aerodynamics; and 33 Thermodynamics and Combustion.

13 Geophysics
Includes aeronomy; upper and lower atmosphere studies; oceanography; cartography; and geodesy. For related information see also: 20 Meteorology; 29 Space Radiation; and 30 Space Sciences.

14 Instrumentation and Photography
Includes design, installation, and testing of instrumentation systems; gyroscopes; measuring instruments and gages; recorders, transducers; aerial photography; and telescopes and cameras.

15 Machine Elements and Processes
Includes bearings, seals, pumps, and other mechanical equipment; lubrication, friction, and wear; manufacturing processes and quality control; reliability; drafting; and materials fabrication, handling, and inspection.

16 Masers
Includes applications of masers and lasers. For basic research see: 26 Physics, Solid-State.

17 Materials, Metallic
Includes cermets; corrosion; physical and mechanical properties of materials; metallurgy; and applications as structural materials. For basic research see: 06 Chemistry. For related information see also: 18 Materials, Nonmetallic; and 32 Structural Mechanics.

18 Materials, Nonmetallic
Includes corrosion; physical and mechanical properties of materials (e.g., plastics); and elastomers, hydraulic fluids, etc. For basic research see: 06 Chemistry. For related information see also: 17 Materials, Metallic; 27 Propellants; and 32 Structural Mechanics.

19 Mathematics
Includes calculation methods and theory; and numerical analysis. For applications see specific categories. For related information see also: 08 Computers.

20 Meteorology
Includes climatology; weather forecasting; and visibility studies. For related information see also: 13 Geophysics; and 30 Space Sciences.

21 Navigation
Includes guidance; autopilots; star and planet tracking; inertial platforms; and air traffic control. For related information see also: 07 Communications.

22 Nuclear Engineering
Includes nuclear reactors and nuclear heat sources used for propulsion and auxiliary power. For basic research see: 24 Physics, Atomic, Molecular, and Nuclear. For related information see also: 03 Auxiliary Systems; and 28 Propulsion Systems.

23 Physics, General
Includes acoustics, cryogenics, mechanics, and optics. For astrophysics see: 30 Space Sciences. For geophysics and related information see also: 13 Geophysics, 20 Meteorology, and 29 Space Radiation.

24 Physics, Atomic, Molecular, and Nuclear
Includes atomic, molecular and nuclear physics. For applications see: 22 Nuclear Engineering. For related information see also: 29 Space Radiation.

25 Physics, Plasma
Includes magnetohydrodynamics. For applications see: 28 Propulsion Systems.

26 Physics, Solid-State
Includes semiconductor theory; and superconductivity. For applications see: 16 Masers. For related information see also: 10 Electronics.

27 Propellants
Includes fuels; igniters; and oxidizers. For basic research see: 06 Chemistry; and 33 Thermodynamics and Combustion. For related information see also 28 Propulsion Systems.

28 Propulsion Systems
Includes air breathing, electric, liquid, solid, and magnetohydrodynamic propulsion. For nuclear propulsion see: 22 Nuclear Engineering. For basic research see: 23 Physics, General; and 33 Thermodynamics and Combustion. For applications see: 31 Space Vehicles. For related information see also: 27 Propellants.

29 Space Radiation
Includes cosmic radiation; solar flares; solar radiation; and Van Allen radiation belts. For related information see also: 13 Geophysics; and 24 Physics, Atomic, Molecular, and Nuclear.

30 Space Sciences
Includes astronomy and astrophysics; cosmology; lunar and planetary flight and exploration; and theoretical analysis of orbits and trajectories. For related information see also: 11 Facilities, Research and Support; and 31 Space Vehicles.

31 Space Vehicles
Includes launch vehicles; manned space capsules; clustered and multistage rockets; satellites; sounding rockets and probes; and operating problems. For basic research see: 30 Space Sciences. For related information see also: 28 Propulsion Systems; and 32 Structural Mechanics.

32 Structural Mechanics
Includes structural element design and weight analysis; fatigue; thermal stress; impact phenomena; vibration; flutter; inflatable structures; and structural tests. For related information see also: 17 Materials, Metallic; and 18 Materials, Nonmetallic.

33 Thermodynamics and Combustion
Includes ablation, cooling, heating, heat transfer, thermal balance, and other thermal effects; and combustion theory. For related information see also: 12 Fluid Mechanics; and 27 Propellants.

34 General
Includes information of a broad nature related to industrial applications and technology, and to basic research; defense aspects; information retrieval; management; law and related legal matters; and legislative hearings and documents.

TABLE OF CONTENTS

Subject Categories (1974 –)

AERONAUTICS

Includes aeronautics (general); aerodynamics; air transportation and safety; aircraft communications and navigation; aircraft design, testing and performance; aircraft instrumentation; aircraft propulsion and power; aircraft stability and control; and research and support facilities (air).

For related information see also *Astronautics.*

01 AERONAUTICS (GENERAL)

02 AERODYNAMICS

Includes aerodynamics of bodies, combinations, wings, rotors, and control surfaces; and internal flow in ducts and turbomachinery.

For related information see also *34 Fluid Mechanics and Heat Transfer*

03 AIR TRANSPORTATION AND SAFETY

Includes passenger and cargo air transport operations; and aircraft accidents.

For related information see also *16 Space Transportation* and *85 Urban Technology and Transportation.*

04 AIRCRAFT COMMUNICATIONS AND NAVIGATION

Includes digital and voice communication with aircraft; air navigation systems (satellite and ground based); and air traffic control.

For related information see also *17 Spacecraft Communications, Command and Tracking* and *32 Communications.*

05 AIRCRAFT DESIGN, TESTING AND PERFORMANCE

Includes aircraft simulation technology.

For related information see also *18 Spacecraft Design, Testing and Performance* and *39 Structural Mechanics.*

06 AIRCRAFT INSTRUMENTATION

Includes cockpit and cabin display devices; and flight instruments.

For related information see also *19 Spacecraft Instrumentation* and *35 Instrumentation and Photography.*

07 AIRCRAFT PROPULSION AND POWER

Includes prime propulsion systems and systems components, e.g., gas turbine engines and compressors; and on-board auxiliary power plants for aircraft.

For related information see also *20 Spacecraft Propulsion and Power, 28 Propellants and Fuels,* and *44 Energy Production and Conversion.*

08 AIRCRAFT STABILITY AND CONTROL

Includes aircraft handling qualities; piloting; flight controls; and autopilots.

09 RESEARCH AND SUPPORT FACILITIES (AIR)

Includes airports, hangars and runways; aircraft repair and overhaul facilities; wind tunnels; shock tube facilities; and engine test blocks.

For related information see also *14 Ground Support Systems and Facilities (Space).*

ASTRONAUTICS

Includes astronautics (general); astrodynamics; ground support systems and facilities (space); launch vehicles and space vehicles; space transportation; spacecraft communications, command and tracking; spacecraft design, testing and performance; spacecraft instrumentation; and spacecraft propulsion and power.

For related information see also *Aeronautics*

12 ASTRONAUTICS (GENERAL)

For extraterrestrial exploration see *91 Lunar and Planetary Exploration.*

13 ASTRODYNAMICS

Includes powered and free-flight trajectories; and orbit and launching dynamics.

14 GROUND SUPPORT SYSTEMS AND FACILITIES (SPACE)

Includes launch complexes, research and production facilities; ground support equipment, e.g., mobile transporters; and simulators.

For related information see also *09 Research and Support Facilities (Air).*

15 LAUNCH VEHICLES AND SPACE VEHICLES

Includes boosters; manned orbital laboratories; reusable vehicles; and space stations.

16 SPACE TRANSPORTATION

Includes passenger and cargo space transportation, e.g., shuttle operations; and rescue techniques.

For related information see also *03 Air Transportation and Safety* and *85 Urban Technology and Transportation.*

17 SPACECRAFT COMMUNICATION, COMMAND AND TRACKING

Includes telemetry; space communications networks; astronavigation; and radio blackout.

For related information see also *04 Aircraft Communications and Navigation* and *32 Communications.*

18 SPACECRAFT DESIGN, TESTING AND PERFORMANCE

Includes spacecraft thermal and environmental control; and attitude control.

For life support systems see *54 Man/System Technology and Life Support.* For related information see also *05 Aircraft Design, Testing and Performance* and *39 Structural Mechanics.*

19 SPACECRAFT INSTRUMENTATION

For related information see also *06 Aircraft Instrumentation* and *35 Instrumentation and Photography.*

20 SPACECRAFT PROPULSION AND POWER

Includes main propulsion systems and components, e.g., rocket engines; and spacecraft auxiliary power sources.

For related information see also *07 Aircraft Propulsion and Power, 28 Propellants and Fuels,* and *44 Energy Production and Conversion.*

CHEMISTRY AND MATERIALS

Includes chemistry and materials (general); composite materials; inorganic and physical chemistry; metallic materials; nonmetallic materials; and propellants and fuels.

23 CHEMISTRY AND MATERIALS (GENERAL)
Includes biochemistry and organic chemistry.

24 COMPOSITE MATERIALS
Includes laminates.

25 INORGANIC AND PHYSICAL CHEMISTRY
Includes chemical analysis, e.g., chromatography; combustion theory; electrochemistry; and photochemistry.

For related information see also *77 Thermodynamics and Statistical Physics.*

26 METALLIC MATERIALS
Includes physical, chemical, and mechanical properties of metals, e.g., corrosion; and metallurgy.

27 NONMETALLIC MATERIALS
Includes physical, chemical, and mechanical properties of plastics, elastomers, lubricants, polymers, textiles, adhesives, and ceramic materials.

28 PROPELLANTS AND FUELS
Includes rocket propellants, igniters, and oxidizers; storage and handling; and aircraft fuels.

For related information see also *07 Aircraft Propulsion and Power, 20 Spacecraft Propulsion and Power,* and *44 Energy Production and Conversion.*

ENGINEERING

Includes engineering (general); communications; electronics and electrical engineering; fluid mechanics and heat transfer; instrumentation and photography; lasers and masers; mechanical engineering; quality assurance and reliability; and structural mechanics.

For related information see also *Physics.*

31 ENGINEERING (GENERAL)
Includes vacuum technology; control engineering; display engineering; and cryogenics.

32 COMMUNICATIONS
Includes land and global communications; communications theory; and optical communications.

For related information see also *04 Aircraft Communications and Navigation* and *17 Spacecraft Communications, Command and Tracking.*

33 ELECTRONICS AND ELECTRICAL ENGINEERING
Includes test equipment and maintainability; components, e.g., tunnel diodes and transistors; microminiaturization; and integrated circuitry.

For related information see also *60 Computer Operations and Hardware* and *76 Solid-State Physics.*

34 FLUID MECHANICS AND HEAT TRANSFER
Includes boundary layers; hydrodynamics; fluidics; mass transfer; and ablation cooling.

For related information see also *02 Aerodynamics* and *77 Thermodynamics and Statistical Physics.*

35 INSTRUMENTATION AND PHOTOGRAPHY
Includes remote sensors; measuring instruments and gages; detectors; cameras and photographic supplies; and holography.

For aerial photography see *43 Earth Resources.* For related information see also *06 Aircraft Instrumentation* and *19 Spacecraft Instrumentation.*

36 LASERS AND MASERS
Includes parametric amplifiers.

37 MECHANICAL ENGINEERING
Includes auxiliary systems (non-power); machine elements and processes; and mechanical equipment.

38 QUALITY ASSURANCE AND RELIABILITY
Includes product sampling procedures and techniques; and quality control.

39 STRUCTURAL MECHANICS
Includes structural element design and weight analysis; fatigue; and thermal stress.

For applications see *05 Aircraft Design, Testing and Performance* and *18 Spacecraft Design, Testing and Performance.*

GEOSCIENCES

Includes geosciences (general); earth resources; energy production and conversion; environment pollution; geophysics; meteorology and climatology; and oceanography.

For related information see also *Space Sciences.*

42 GEOSCIENCES (GENERAL)

43 EARTH RESOURCES
Includes remote sensing of earth resources by aircraft and spacecraft; photogrammetry; and aerial photography.

For instrumentation see *35 Instrumentation and Photography.*

44 ENERGY PRODUCTION AND CONVERSION
Includes specific energy conversion systems, e.g., fuel cells and batteries; global sources of energy; fossil fuels; geophysical conversion; hydroelectric power; and wind power.

For related information see also *07 Aircraft Propulsion and Power, 20 Spacecraft Propulsion and Power, 28 Propellants and Fuels,* and *85 Urban Technology and Transportation.*

45 ENVIRONMENT POLLUTION
Includes air, noise, thermal and water pollution; environment monitoring; and contamination control.

46 GEOPHYSICS
Includes aeronomy; upper and lower atmosphere studies; ionospheric and magnetospheric physics; and geomagnetism.
For space radiation see *93 Space Radiation.*

47 METEOROLOGY AND CLIMATOLOGY
Includes weather forecasting and modification.

48 OCEANOGRAPHY
Includes biological, dynamic and physical oceanography; and marine resources.

LIFE SCIENCES

Includes sciences (general); aerospace medicine; behavioral sciences; man/system technology and life support; and planetary biology.

51 LIFE SCIENCES (GENERAL)
Includes genetics.

52 AEROSPACE MEDICINE
Includes physiological factors; biological effects of radiation; and weightlessness.

53 BEHAVIORAL SCIENCES
Includes psychological factors; individual and group behavior; crew training and evaluation; and psychiatric research.

54 MAN/SYSTEM TECHNOLOGY AND LIFE SUPPORT
Includes human engineering; biotechnology; and space suits and protective clothing.

55 PLANETARY BIOLOGY
Includes exobiology; and extraterrestrial life.

MATHEMATICAL AND COMPUTER SCIENCES

Includes mathematical and computer sciences (general); computer operations and hardware; computer programming and software; computer systems; cybernetics; numerical analysis; statistics and probability; systems analysis; and theoretical mathematics.

59 MATHEMATICAL AND COMPUTER SCIENCES (GENERAL)

60 COMPUTER OPERATIONS AND HARDWARE
Includes computer graphics and data processing.
For components see *33 Electronics and Electrical Engineering.*

61 COMPUTER PROGRAMMING AND SOFTWARE
Includes computer programs, routines, and algorithms.

62 COMPUTER SYSTEMS
Includes computer networks.

63 CYBERNETICS
Includes feedback and control theory.
For related information see also *54 Man/System Technology and Life Support.*

64 NUMERICAL ANALYSIS
Includes iteration, difference equations, and numerical approximation.

65 STATISTICS AND PROBABILITY
Includes data sampling and smoothing; Monte Carlo method; and stochastic processes.

66 SYSTEMS ANALYSIS
Includes mathematical modeling; network analysis; and operations research.

67 THEORETICAL MATHEMATICS
Includes topology and number theory.

PHYSICS

Includes physics (general); acoustics; atomic and molecular physics; nuclear and high-energy physics; optics; plasma physics; solid-state physics; and thermodynamics and statistical physics.
For related information see also *Engineering.*

70 PHYSICS (GENERAL)
For geophysics see *46 Geophysics.* For astrophysics see *90 Astrophysics.* For solar physics see *92 Solar Physics.*

71 ACOUSTICS
Includes sound generation, transmission, and attenuation.
For noise pollution see *45 Environment Pollution.*

72 ATOMIC AND MOLECULAR PHYSICS
Includes atomic structure and molecular spectra.

73 NUCLEAR AND HIGH-ENERGY PHYSICS
Includes elementary and nuclear particles; and reactor theory.
For space radiation see *93 Space Radiation.*

74 OPTICS
Includes light phenomena.

75 PLASMA PHYSICS
Includes magnetohydrodynamics and plasma fusion.
For ionospheric plasmas see *46 Geophysics.* For space plasmas see *90 Astrophysics.*

76 SOLID-STATE PHYSICS
Includes superconductivity.
For related information see also *33 Electronics and Electrical Engineering* and *36 Lasers and Masers.*

77 THERMODYNAMICS AND STATISTICAL PHYSICS
Includes quantum mechanics; and Bose and Fermi statistics.
For related information see also *25 Inorganic and Physical Chemistry* and *34 Fluid Mechanics and Heat Transfer.*

SOCIAL SCIENCES

Includes social sciences (general); administration and management; documentation and information science; economics and cost analysis; law and political science; and urban technology and transportation.

80 SOCIAL SCIENCES (GENERAL)
Includes educational matters.

81 ADMINISTRATION AND MANAGEMENT
Includes management planning and research.

82 DOCUMENTATION AND INFORMATION SCIENCE
Includes information storage and retrieval technology; micrography; and library science.
For computer documentation see *61 Computer Programming and Software.*

83 ECONOMICS AND COST ANALYSIS
Includes cost effectiveness studies.

84 LAW AND POLITICAL SCIENCE
Includes space law; international law; international cooperation; and patent policy.

85 URBAN TECHNOLOGY AND TRANSPORTATION
Includes applications of space technology to urban problems; technology transfer; technology assessment; and surface and mass transportation.
For related information see *03 Air Transportation and Safety, 16 Space Transportation,* and *44 Energy Production and Conversion.*

SPACE SCIENCES

Includes space sciences (general); astronomy; astrophysics; lunar and planetary exploration; solar physics; and space radiation.
For related information see also *Geosciences.*

88 SPACE SCIENCES (GENERAL)

89 ASTRONOMY
Includes radio and gamma-ray astronomy; celestial mechanics; and astrometry.

90 ASTROPHYSICS
Includes cosmology; and interstellar and interplanetary gases and dust.

91 LUNAR AND PLANETARY EXPLORATION
Includes planetology; and manned and unmanned flights.
For spacecraft design see *18 Spacecraft Design, Testing and Performance.* For space stations see *15 Launch Vehicles and Space Vehicles.*

92 SOLAR PHYSICS
Includes solar activity, solar flares, solar radiation and sunspots.

93 SPACE RADIATION
Includes cosmic radiation; and inner and outer earth's radiation belts.
For biological effects of radiation see *52 Aerospace Medicine.* For theory see *73 Nuclear and High-Energy Physics.*

GENERAL

99 GENERAL

Section 2 • Indexes

SUBJECT INDEX A-1
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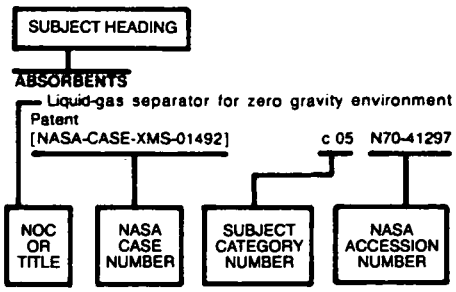
NUMBER INDEX E-1
ACCESSION NUMBER INDEX F-1

Typical Subject Index Listing



The subject heading is a key to the subject content of the document. A brief description of the document, e.g., title, title plus a title extension, or Notation of Content (NOC), is included for each subject entry to indicate the subject heading context; these descriptions are arranged under each subject heading in ascending accession number order. The NASA Case Number serves as the prime access number to the patent documents. The Subject Category Number indicates the category in Section 1 (Abstracts) in which the patent citation and abstract are located. The NASA accession number denotes the number by which the citation is identified within the subject category.

A

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High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898

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[NASA-CASE-XLA-00378] c 11 N71-15925
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[NASA-CASE-XLA-05378] c 11 N71-21475
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[NASA-CASE-XLA-01794] c 33 N71-21586
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[NASA-CASE-XLA-01781] c 14 N69-39975
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[NASA-CASE-XLA-01091] c 15 N71-10672
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[NASA-CASE-XLE-05913] c 33 N71-14032
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[NASA-CASE-XMS-01816] c 33 N71-15623
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[NASA-CASE-XMS-02009] c 33 N71-20834
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[NASA-CASE-XLA-04251] c 18 N71-26100
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[NASA-CASE-ARC-11043-1] c 24 N78-27180
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[NASA-CASE-MFS-23626-1] c 24 N80-26388
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[NASA-CASE-MSC-18382-2] c 27 N84-14324

ABSORBENTS
Liquid-gas separator for zero gravity environment Patent
[NASA-CASE-XMS-01492] c 05 N70-41297
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[NASA-CASE-XLE-00703] c 15 N71-15967
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[NASA-CASE-MFS-18100] c 15 N72-11390
Protein sterilization method of firefly luciferase using reduced pressure and molecular sieves
[NASA-CASE-GSC-10225-1] c 06 N73-27086
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[NASA-CASE-NPO-11609-2] c 27 N77-31308
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[NASA-CASE-XMS-05303] c 07 N69-27462
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[NASA-CASE-LAR-10907-1] c 35 N76-29551
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[NASA-CASE-LAR-10550-1] c 09 N74-30597
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[NASA-CASE-NPO-10556] c 14 N71-27185

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Annular arc accelerator shock tube
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Spring operated accelerator and constant force spring mechanism therefor
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[NASA-CASE-XMF-01099] c 14 N71-15969
Apparatus for controlling the velocity of an electromechanical drive for interferometers and the like Patent
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[NASA-CASE-HQN-10780] c 14 N71-30265
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Temperature compensated digital inertial sensor --- circuit for maintaining inertial element of gyroscope or accelerometer at constant position
[NASA-CASE-NPO-13044-1] c 35 N74-15094
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[NASA-CASE-ARC-11426-1] c 09 N84-12193

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[NASA-CASE-LEW-11192-1] c 09 N73-13208
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[NASA-CASE-MFS-19287-1] c 34 N77-30399
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[NASA-CASE-XNP-03250] c 06 N71-23500
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[NASA-CASE-LAR-13318-1] c 27 N86-21685

ACOUSTIC ATTENUATION
Ultrasonic calibration device --- for producing changes in acoustic attenuation and phase velocity
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Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
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[NASA-CASE-MSC-15158-1] c 14 N72-17325
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[NASA-CASE-NPO-14143-1] c 25 N81-14015
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[NASA-CASE-NPO-15111-1] c 36 N82-29589

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[NASA-CASE-XLA-00326] c 03 N70-34667
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[NASA-CASE-MSC-11817-1] c 15 N71-26611
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[NASA-CASE-NPO-11369] c 15 N73-13467
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[NASA-CASE-MFS-21481-1] c 37 N74-18127
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[NASA-CASE-MSC-18179-1] c 20 N80-18097
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[NASA-CASE-NPO-14388-1] c 37 N81-17432
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[NASA-CASE-FRC-11044-1] c 37 N81-33483
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[NASA-CASE-LAR-12412-1] c 08 N82-24205
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[NASA-CASE-ARC-11372-1] c 08 N83-12098
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[NASA-CASE-MSC-20112-1] c 37 N85-20338
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[NASA-CASE-LAR-12196-1] c 33 N81-26358
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Improved refractory coatings --- sputtered coatings on substrates that form stable nitrides
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[NASA-CASE-XMF-01402] c 18 N71-21651
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[NASA-CASE-XMF-02303] c 17 N71-23828
Method and apparatus for attaching physiological monitoring electrodes Patent
[NASA-CASE-XFR-07658-1] c 05 N71-26293
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992
Weld-bonded titanium structures
[NASA-CASE-LAR-11549-1] c 37 N77-11397
Method of adhering bone to a rigid substrate using a graphite fiber reinforced bone cement
[NASA-CASE-NPO-13764-1] c 27 N78-17215
Thermal barrier coating system
[NASA-CASE-LEW-12554-1] c 34 N78-18355
Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles
[NASA-CASE-MSC-12619-2] c 27 N79-12221
Surface finishing
[NASA-CASE-MSC-12631-3] c 27 N81-14077
Method of bonding plasticized elastomer to metal and articles produced thereby
[NASA-CASE-MFS-25181-1] c 27 N82-24340
Thermal barrier coating system having improved adhesion
[NASA-CASE-LEW-1335901] c 27 N83-31855
Structural pressure sensitive silicone adhesives
[NASA-CASE-LAR-13270-1] c 27 N84-32532
Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33807
Hot melt adhesive attachment pad
[NASA-CASE-LAR-12894-1] c 27 N85-20125
High temperature polyimide film laminates and process for preparation thereof
[NASA-CASE-LAR-13384-1] c 27 N86-20561
Thermoplastics/thermosetting adhesive specimen bonding
[NASA-CASE-LAR-13066-1] c 27 N86-20564

ADHESIVES
Polyimide adhesives
[NASA-CASE-LAR-11397-1] c 27 N75-29263
Polyimide adhesives
[NASA-CASE-LAR-12181-1] c 27 N78-17205
Crystalline polyimides --- reinforcing fibers for high temperature composites and adhesives as well as flame retardation
[NASA-CASE-LAR-12099-1] c 27 N80-16158
Aluminum ion-containing polyimide adhesives
[NASA-CASE-LAR-12640-1] c 27 N82-11206
Thermal protection system
[NASA-CASE-MSC-18796-1] c 24 N82-26389
Elastomer toughened polyimide adhesives
[NASA-CASE-LAR-12775-1] c 27 N83-28240
Hot melt recharge system --- repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12881-1] c 27 N84-14323
Elastomer toughened polyimide adhesives --- bonding metal and composite material structures for aircraft and spacecraft
[NASA-CASE-LAR-12775-2] c 27 N85-21349
Cathode for primary battery
[NASA-CASE-NPO-16397-1-CU] c 33 N86-19517
Copolyimides with a combination of flexibilizing groups
[NASA-CASE-LAR-13354-1] c 27 N86-20566
Aminophenoxycyclotriphosphazene cured epoxy resins and the composites, laminates and structures thereof
[NASA-CASE-ARC-11548-1] c 27 N86-21686

ADJUSTING
Instrument support with precise lateral adjustment Patent
[NASA-CASE-XMF-00480] c 14 N70-39898
Fine adjustment mount
[NASA-CASE-MFS-20249] c 15 N72-11386
Adjustable support
[NASA-CASE-NPO-10721] c 15 N72-27484
Clock setter
[NASA-CASE-LAR-11458-1] c 35 N76-16392

AERIAL RUDDERS
Thrust augmented spin recovery device
[NASA-CASE-LAR-11970-2] c 08 N81-19130

AEROACOUSTICS
Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107

AEROBRAKING
Aerobraking orbital transfer vehicle
[NASA-CASE-MSC-20921-1] c 18 N86-20471

AERODYNAMIC BALANCE
Airplane automatic control force trimming device for asymmetric engine failures
[NASA-CASE-LAR-13280-1] c 08 N86-20397

AERODYNAMIC BRAKES
Annular supersonic decelerator or drogue Patent
[NASA-CASE-XLE-00222] c 02 N70-37939
Lightweight, variable solidity knitted parachute fabric --- for aerodynamic decelerators
[NASA-CASE-LAR-10776-1] c 02 N74-10034

AERODYNAMIC CHARACTERISTICS
Variable sweep wing aircraft Patent
[NASA-CASE-XLA-00221] c 02 N70-33266
Flight craft Patent
[NASA-CASE-XAC-02058] c 02 N71-16087
Space shuttle vehicle and system
[NASA-CASE-MSC-12433] c 31 N73-14854
Airfoil shape for flight at subsonic speeds --- design analysis and aerodynamic characteristics of the GAW-1 airfoil
[NASA-CASE-LAR-10585-1] c 02 N76-22154
Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999

AERODYNAMIC CONFIGURATIONS
Variable-span aircraft Patent
[NASA-CASE-XLA-00166] c 02 N70-34178
Landing arrangement for aerial vehicle Patent
[NASA-CASE-XLA-00806] c 02 N70-34858
Space capsule Patent
[NASA-CASE-XLA-00149] c 31 N70-37938
Hypersonic reentry vehicle Patent
[NASA-CASE-XMS-04142] c 31 N70-41631
Translating horizontal tail Patent
[NASA-CASE-XLA-08801-1] c 02 N71-11043
Variable geometry manned orbital vehicle Patent
[NASA-CASE-XLA-03691] c 31 N71-15674
Nacelle afterbody for jet engines Patent
[NASA-CASE-XLA-10450] c 28 N71-21493
Variable geometry rotor system
[NASA-CASE-LAR-10557] c 02 N72-11018
Ferry system
[NASA-CASE-LAR-10574-1] c 11 N73-13257
Multistage aerospace craft --- perspective drawings of conceptual design
[NASA-CASE-XMF-02263] c 05 N74-10907
Supersonic fan blading --- noise reduction in turbofan engines
[NASA-CASE-LEW-11402-1] c 07 N74-28226
Free wing assembly for an aircraft
[NASA-CASE-FRC-10092-1] c 05 N79-12061

AERODYNAMIC DRAG
Skin friction measuring device for aircraft
[NASA-CASE-FRC-11029-1] c 06 N81-17057

AERODYNAMIC HEATING
Heat protection apparatus Patent
[NASA-CASE-XLA-00892] c 33 N71-17897
Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c 33 N71-23085
Stand-off type ablative heat shield
[NASA-CASE-MSC-12143-1] c 33 N72-17947

AERODYNAMIC LOADS
Propeller blade loading control Patent
[NASA-CASE-XAC-00139] c 02 N70-34856
Means for controlling aerodynamically induced twist
[NASA-CASE-LAR-12175-1] c 05 N82-28279

AERODYNAMIC NOISE
Apparatus for reducing aerodynamic noise in a wind tunnel
[NASA-CASE-MFS-23099-1] c 09 N76-23273
Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107
Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999

AERODYNAMIC STABILITY
Meteorological balloon Patent
[NASA-CASE-XMF-04163] c 02 N71-23007
Instrument for measuring the dynamic behavior of liquids Patent
[NASA-CASE-XLA-05541] c 12 N71-26387
Emergency earth orbital escape device
[NASA-CASE-MSC-13281] c 31 N72-18859
High lift aircraft --- with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c 05 N75-25914
Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c 05 N77-17029
Annular wing
[NASA-CASE-FRC-11007-2] c 05 N82-26277
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12720-1] c 44 N83-21504

AERODYNAMIC STALLING
Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968

AEROELASTICITY
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12458-1] c 44 N83-21503

Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12720-1] c 44 N83-21504

AERONAUTICAL ENGINEERING
Differential pressure cell Patent
[NASA-CASE-XAC-00042] c 14 N70-34816

AEROSOLS
Liquid aerosol dispenser
[NASA-CASE-MFS-20829] c 12 N72-21310
Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c 35 N76-22509
Thermoluminescent aerosol analysis
[NASA-CASE-LAR-12046-1] c 25 N78-15210
Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184

AEROSPACE ENGINEERING
Solar cell including second surface mirrors Patent
[NASA-CASE-NPO-10109] c 03 N71-11049
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-10337] c 15 N71-24046
Soldering device Patent
[NASA-CASE-XLA-08911] c 15 N71-27214
Installing fiber insulation
[NASA-CASE-MSC-16973-1] c 37 N81-14317

AEROSPACE ENVIRONMENTS
Electrostatic thrustor with improved insulators Patent
[NASA-CASE-XLE-01902] c 28 N71-10574
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-01765] c 18 N71-10772
Inorganic solid film lubricants Patent
[NASA-CASE-XMF-03988] c 15 N71-21403
Particle detection apparatus including a ballistic pendulum Patent
[NASA-CASE-XMS-04201] c 14 N71-22990
Alloys for bearings Patent
[NASA-CASE-XLE-05033] c 15 N71-23810
Method and apparatus for varying thermal conductivity Patent
[NASA-CASE-XNP-05524] c 33 N71-24876
Space simulator Patent
[NASA-CASE-NPO-10141] c 11 N71-24964
Cyclic switch Patent
[NASA-CASE-LEW-10155-1] c 09 N71-29035
Automatic biowaste sampling
[NASA-CASE-MSC-14640-1] c 54 N76-14804
Wabble gear drive mechanism --- for aerospace environments
[NASA-CASE-WOO-00625] c 37 N78-17385
Plasma cleaning device --- designed for high vacuum environments
[NASA-CASE-MFS-22906-1] c 75 N78-27913
Process for spinning flame retardant elastomeric compositions --- fabricating synthetic fibers for high oxygen environments
[NASA-CASE-MSC-14331-3] c 27 N78-32262
General purpose rocket furnace
[NASA-CASE-MFS-23460-1] c 12 N79-26075
Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283
Flexible diaphragm: Extreme temperature usage
[NASA-CASE-MSC-20797-1] c 37 N86-20806

AEROSPACE MEDICINE
Instrument for use in performing a controlled Valsalva maneuver Patent
[NASA-CASE-XMS-01615] c 05 N70-41329
Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721

AEROSPACE VEHICLES
Landing arrangement for aerial vehicles Patent
[NASA-CASE-XLA-00142] c 02 N70-33286
Landing pad assembly for aerospace vehicles Patent
[NASA-CASE-XMF-02853] c 31 N70-36654
Landing arrangement for aerospace vehicle Patent
[NASA-CASE-XLA-00805] c 31 N70-38010
Flexibly connected support and skin Patent
[NASA-CASE-XLA-01027] c 31 N71-24035
Nondestructive spot test method for titanium and titanium alloys
[NASA-CASE-LAR-10539-1] c 17 N73-12547
Aerospace vehicle
[NASA-CASE-LAR-13155-1] c 05 N86-19310

AEROSPACEPLANES
Multistage aerospace craft --- perspective drawings of conceptual design
[NASA-CASE-XMF-02263] c 05 N74-10907

AFTERBODIES
Nacelle afterbody for jet engines Patent
[NASA-CASE-XLA-10450] c 28 N71-21493
Missile rolling tail brake torque system --- simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231

AFTERBURNING
Nozzle Patent
[NASA-CASE-XLA-00154] c 28 N70-33374

AGGLOMERATION
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104

AGING (MATERIALS)
Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c 26 N75-29236

AGRICULTURE
Solar-powered pump
[NASA-CASE-NPO-13567-1] c 44 N76-29701

AILERONS
Control device Patent
[NASA-CASE-XAC-10019] c 15 N71-23809

AIR
Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080
Superconductive magnetic-field-trapping device
[NASA-CASE-XNP-01185] c 26 N73-28710

AIR BREATHING ENGINES
Multiple pure tone elimination strut assembly --- air breathing engines
[NASA-CASE-FRC-11062-1] c 71 N82-16800

AIR CONDITIONING
Apparatus for supplying conditioned air at a substantially constant temperature and humidity
[NASA-CASE-GSC-12191-1] c 31 N80-32583
Automotive absorption air conditioner utilizing solar and motor waste heat
[NASA-CASE-NPO-15183-1] c 44 N82-26776
Air modulation apparatus
[NASA-CASE-LEW-13524-1] c 07 N84-33410

AIR CONDITIONING EQUIPMENT
Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721
Air conditioning system and component therefore distributing air flow from opposite directions
[NASA-CASE-GSC-11445-1] c 31 N74-27902

AIR COOLING
Modification and improvements to cooled blades Patent
[NASA-CASE-XLE-00092] c 15 N70-33264

AIR FILTERS
Gas filter mounting structure
[NASA-CASE-MSC-12297] c 14 N72-23457

AIR FLOW
Wind tunnel airstream oscillating apparatus Patent
[NASA-CASE-XLA-00112] c 11 N70-33287
Method of obtaining permanent record of surface flow phenomena Patent
[NASA-CASE-XLA-01353] c 14 N70-41366
Gas turbine combustor Patent
[NASA-CASE-LEW-10286-1] c 28 N71-28915
Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10612-1] c 12 N73-28144
Air conditioning system and component therefore distributing air flow from opposite directions
[NASA-CASE-GSC-11445-1] c 31 N74-27902
Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c 20 N76-14190
Method and apparatus for fluffing, separating, and cleaning fibers
[NASA-CASE-LAR-11224-1] c 37 N76-18456
Smoke generator
[NASA-CASE-ARC-10905-1] c 37 N77-13418
Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c 37 N78-17384
Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366

AIR INTAKES
Aeroflexible structures
[NASA-CASE-XLA-06095] c 01 N69-39981
Reversed cowl flap inlet thrust augmentor --- with adjustable airfoil
[NASA-CASE-ARC-10754-1] c 07 N75-24736
Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976
Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999
Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603

AIR LOCKS
Spacecraft airlock Patent
[NASA-CASE-XLA-02050] c 31 N71-22968
Thruster maintenance system Patent
[NASA-CASE-MFS-20325] c 28 N71-27095
An airlock
[NASA-CASE-MFS-20922] c 31 N72-20840
Airlock
[NASA-CASE-MFS-20922-1] c 18 N74-22136
Apparatus for inserting and removing specimens from high temperature vacuum furnaces
[NASA-CASE-LAR-10841-1] c 31 N74-27900

AIR NAVIGATION
Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047
Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132

AIR POLLUTION
Analytical photoionization mass spectrometer with an argon gas filter between the light source and monochrometer Patent
[NASA-CASE-LAR-10180-1] c 06 N71-13461
Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922
Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c 35 N74-11284
Fluorescence detector for monitoring atmospheric pollutants
[NASA-CASE-NPO-13231-1] c 45 N75-27585
Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656
Indicator providing continuous indication of the presence of a specific pollutant in air
[NASA-CASE-NPO-13474-1] c 45 N76-21742
Method for detecting pollutants --- through chemical reactions and heat treatment
[NASA-CASE-LAR-11405-1] c 45 N76-31714
Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c 37 N77-31497
Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527

AIR PURIFICATION
High pressure gas filter system Patent
[NASA-CASE-MFS-12806] c 14 N71-17588
Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721
Cell and method for electrolysis of water and anode
[NASA-CASE-MSC-16394-1] c 28 N81-24280

AIR SAMPLING
Aerodynamic measuring device Patent
[NASA-CASE-XLA-00481] c 14 N70-36824
Sampler of gas borne particles
[NASA-CASE-NPO-13396-1] c 35 N76-18401
Automated syringe sampler --- remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407
Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217
Solid sorbent air sampler
[NASA-CASE-MSC-20653-1] c 35 N85-20301

AIR START
Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599

AIR TRAFFIC CONTROL
Traffic control system and method Patent
[NASA-CASE-GSC-10087-1] c 02 N71-19287
Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c 21 N71-24948
Position location system and method
[NASA-CASE-GSC-10087-3] c 07 N72-12080
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304

AIR TRANSPORTATION
Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797

AIRBORNE EQUIPMENT
Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00893] c 07 N70-40063

AIRBORNE/SPACEBORNE COMPUTERS
Ripple add and ripple subtract binary counters Patent
[NASA-CASE-XGS-04766] c 08 N71-18602
Shared memory for a fault-tolerant computer
[NASA-CASE-NPO-13139-1] c 60 N76-21914

AIRCRAFT
System for indicating direction of intruder aircraft
[NASA-CASE-ERC-10226-1] c 14 N73-16483
Thin conformal antenna array for microwave power conversions
[NASA-CASE-NPO-13886-1] c 32 N78-24391
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443

AIRCRAFT ACCIDENTS
Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c 21 N71-24948

AIRCRAFT ANTENNAS
Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558

AIRCRAFT COMPARTMENTS
Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184

AIRCRAFT CONFIGURATIONS
Variable sweep wing configuration Patent
[NASA-CASE-XLA-00230] c 02 N70-33255
Television simulation for aircraft and space flight Patent
[NASA-CASE-XFR-03107] c 09 N71-19449
Dual-fuselage aircraft having yawable wing and horizontal stabilizer
[NASA-CASE-ARC-10470-1] c 02 N73-26005
Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136
Over the wing propeller
[NASA-CASE-LAR-13134-1] c 05 N85-19980
AIRCRAFT CONSTRUCTION MATERIALS
Fuselage structure using advanced technology fiber reinforced composites
[NASA-CASE-LAR-11688-1] c 24 N82-26384
Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450
AIRCRAFT CONTROL
Control for flexible parawing Patent
[NASA-CASE-XLA-06958] c 02 N71-11038
Attitude controls for VTOL aircraft Patent
[NASA-CASE-XAC-08972] c 02 N71-20570
Control device Patent
[NASA-CASE-XAC-10019] c 15 N71-23809
Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c 02 N71-26110
High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088
Mechanically limited, electrically operated hydraulic valve system for aircraft controls Patent
[NASA-CASE-XAC-00048] c 02 N71-29128
Flight control system
[NASA-CASE-MSC-13397-1] c 21 N72-25595
Aircraft control system
[NASA-CASE-ERC-10439] c 02 N73-19004
Display system
[NASA-CASE-ERC-10350] c 14 N73-20474
Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004
Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930
High lift aircraft --- with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c 05 N75-25914
Filtering technique based on high-frequency plant modeling for high-gain control
[NASA-CASE-LAR-12215-1] c 08 N79-23097
Velocity vector control system augmented with direct lift control
[NASA-CASE-LAR-12268-1] c 08 N81-24106
Pitch attitude stabilization system utilizing engine pressure ratio feedback signals
[NASA-CASE-LAR-12562-1] c 08 N81-26152
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N84-20522
Leading edge flap system for aircraft control augmentation
[NASA-CASE-LAR-12787-2] c 08 N85-19985
Airplane automatic control force trimming device for asymmetric engine failures
[NASA-CASE-LAR-13280-1] c 08 N86-20397
AIRCRAFT DESIGN
Supersonic aircraft Patent
[NASA-CASE-XLA-04451] c 02 N71-12243
Dual-fuselage aircraft having yawable wing and horizontal stabilizer
[NASA-CASE-ARC-10470-1] c 02 N73-26005
Multistage aerospace craft --- perspective drawings of conceptual design
[NASA-CASE-XMF-02263] c 05 N74-10907
High lift aircraft --- with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c 05 N75-25914
Oblique-wing supersonic aircraft
[NASA-CASE-ARC-10470-3] c 05 N76-29217
Supersonic transport --- using canard surfaces
[NASA-CASE-LAR-11932-1] c 05 N78-32086
Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N84-12092
Shapes for rotating airfoils
[NASA-CASE-LAR-12396-1] c 02 N84-28732
AIRCRAFT DETECTION
Altitude measuring system
[NASA-CASE-ERC-10412-1] c 09 N73-12211
Apparatus for measuring an aircraft's speed and height
[NASA-CASE-LAR-12275-1] c 35 N79-18296
AIRCRAFT ENGINES
Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c 07 N74-32418
Dual cycle aircraft turbine engine
[NASA-CASE-LAR-11310-1] c 07 N77-28118
Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599
Aircraft engine nozzle
[NASA-CASE-ARC-10977-1] c 07 N80-32392
Diesel engine catalytic combustor system --- aircraft engines
[NASA-CASE-LEW-12995-1] c 37 N84-33808
Over the wing propeller
[NASA-CASE-LAR-13134-1] c 05 N85-19980
AIRCRAFT EQUIPMENT
Clear air turbulence detector
[NASA-CASE-ERC-10081] c 14 N72-28437
Air speed and attitude probe
[NASA-CASE-FRC-11009-1] c 06 N80-18036
Cooling system for high speed aircraft
[NASA-CASE-LAR-12406-1] c 05 N81-26114
System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075
Piezoelectric deicing device
[NASA-CASE-LEW-13773-2] c 33 N86-20671
AIRCRAFT FUEL SYSTEMS
Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12321-1] c 37 N78-10467
AIRCRAFT GUIDANCE
Terminal guidance system --- for guiding aircraft into preselected altitude and/or heading at terminal point
[NASA-CASE-FRC-10049-1] c 04 N74-13420
Sun sensing guidance system for high altitude aircraft
[NASA-CASE-FRC-11052-1] c 04 N82-23231
AIRCRAFT HAZARDS
Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788
AIRCRAFT HYDRAULIC SYSTEMS
Gas turbine engine fuel control
[NASA-CASE-LEW-11187-1] c 28 N73-19793
Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205
AIRCRAFT INSTRUMENTS
Airplane take-off performance indicator Patent
[NASA-CASE-XLA-00100] c 14 N70-36807
Aerodynamic measuring device Patent
[NASA-CASE-XLA-00481] c 14 N70-36824
Aircraft instrument Patent
[NASA-CASE-XLA-00487] c 14 N70-40157
Optical projector system Patent
[NASA-CASE-XNP-03853] c 23 N71-21882
Combined optical attitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268
Head-up attitude display
[NASA-CASE-ERC-10392] c 21 N73-14692
G-load measuring and indicator apparatus
[NASA-CASE-ARC-10806-1] c 35 N75-29381
Magnetic heading reference
[NASA-CASE-LAR-11387-1] c 04 N76-20114
Aircraft-mounted crash-activated transmitter device
[NASA-CASE-MFS-16609-3] c 03 N76-32140
Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443
AIRCRAFT LANDING
Landing arrangement for aerial vehicle Patent
[NASA-CASE-XLA-00806] c 02 N70-34858
Magnetic position detection method and apparatus
[NASA-CASE-ARC-10179-1] c 21 N72-22619
Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930
Vehicle simulator binocular multiplanar visual display system
[NASA-CASE-ARC-10808-1] c 09 N76-24280
Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083
Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212
AIRCRAFT LAUNCHING DEVICES
Rotating launch device for a remotely piloted aircraft
[NASA-CASE-ARC-10979-1] c 09 N77-19076
AIRCRAFT MANEUVERS
G-load measuring and indicator apparatus
[NASA-CASE-ARC-10806-1] c 35 N75-29381
AIRCRAFT MODELS
Test unit free-flight suspension system Patent
[NASA-CASE-XLA-00939] c 11 N71-15926
Variable geometry wind tunnels
[NASA-CASE-XLA-07430] c 11 N72-22246
Deploy/release system --- model aircraft flight control
[NASA-CASE-LAR-11575-1] c 02 N76-16014
AIRCRAFT NOISE
Instrumentation for measuring aircraft noise and sonic boom
[NASA-CASE-LAR-11476-1] c 07 N76-27232
Acoustic guide for noise transmission testing of aircraft
[NASA-CASE-LAR-13111-1-CU] c 71 N86-20086
AIRCRAFT PERFORMANCE
Ferry system
[NASA-CASE-LAR-10574-1] c 11 N73-13257
AIRCRAFT PILOTS
Apparatus for applying simulator g-forces to an arm of an aircraft simulator pilot
[NASA-CASE-LAR-10550-1] c 09 N74-30597
AIRCRAFT SAFETY
Airplane take-off performance indicator Patent
[NASA-CASE-XLA-00100] c 14 N70-36807
Display research collision warning system
[NASA-CASE-HQN-10703] c 21 N73-13643
Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421
Variable response load limiting device --- for aircraft seats
[NASA-CASE-LAR-12801-1] c 37 N82-20544
Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394
AIRCRAFT SPIN
Extended moment arm anti-spin device
[NASA-CASE-LAR-12979-1] c 05 N85-21147
Dual towline spin-recovery device
[NASA-CASE-LAR-13076-1] c 08 N85-35200
AIRCRAFT STABILITY
Mechanical stability augmentation system Patent
[NASA-CASE-XLA-06339] c 02 N71-13422
Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004
AIRCRAFT STRUCTURES
Fatigue testing device Patent
[NASA-CASE-XLA-02131] c 32 N70-42003
Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c 33 N71-23085
Three-axis adjustable loading structure
[NASA-CASE-FRC-10051-1] c 35 N74-13129
Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10813-1] c 27 N76-16230
Wingtip vortex dissipator for aircraft
[NASA-CASE-LAR-11645-1] c 02 N77-10001
Aircraft canopy lock
[NASA-CASE-FRC-11065-1] c 05 N83-19737
Metal matrix composite structural panel construction
[NASA-CASE-LAR-12807-1] c 24 N84-11214
Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N84-20859
Elastomer toughened polyimide adhesives --- bonding metal and composite material structures for aircraft and spacecraft
[NASA-CASE-LAR-12775-2] c 27 N85-21349
The 1-(diorganooxphosphonyl)methyl-2, 4- and -2, 6-dinitro and diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N86-20499
AIRCRAFT TIRES
Improved tire/wheel concept --- pneumatic aircraft tire
[NASA-CASE-LAR-11695-2] c 37 N80-18402
Tire/wheel concept
[NASA-CASE-LAR-11695-2] c 37 N81-24443
AIRCRAFT WAKES
System for use in conducting wake investigation for a wing in flight --- differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300
AIRFOIL PROFILES
Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136
AIRFOILS
Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-00755] c 01 N71-13410
Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-05828] c 01 N71-13411
Wind tunnel
[NASA-CASE-LAR-10135-1] c 09 N79-21083
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[NASA-CASE-MSC-12631-3] c 27 N81-14077
Aircraft rotor blade with passive tuned tab
[NASA-CASE-ARC-11444-1] c 05 N85-29947
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Dual-fuselage aircraft having yawable wing and horizontal stabilizer
[NASA-CASE-ARC-10470-1] c 02 N73-26005
Cooling system for high speed aircraft
[NASA-CASE-LAR-12406-1] c 05 N81-26114
Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992

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Landing arrangement for aerial vehicle Patent
[NASA-CASE-XLA-00806] c 02 N70-34858
Apparatus for measuring an aircraft's speed and height
[NASA-CASE-LAR-12275-1] c 35 N79-18296
Air speed and attitude probe
[NASA-CASE-FRC-11009-1] c 06 N80-18036
Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295

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Trifunctional alcohol
[NASA-CASE-NPO-10714] c 06 N69-31244
Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440
Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144

ALDEHYDES
Direct synthesis of polymeric schiff bases from two amines and two aldehydes Patent
[NASA-CASE-XMF-08655] c 06 N71-11239
Azine polymers and process for preparing the same Patent
[NASA-CASE-XMF-08656] c 06 N71-11242
Aromatic diamine-aromatic dialdehyde high molecular weight Schiff base polymers prepared in a monofunctional Schiff base Patent
[NASA-CASE-XMF-03074] c 06 N71-24740
Nuclear alkylated pyridine aldehyde polymers and conductive compositions thereof
[NASA-CASE-NPO-10557] c 27 N78-17214
Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188

ALIGNMENT
Instrument support with precise lateral adjustment Patent
[NASA-CASE-XMF-00480] c 14 N70-39898
Portable alignment tool Patent
[NASA-CASE-XMF-01452] c 15 N70-41371
Optical alignment system Patent
[NASA-CASE-XNP-02029] c 14 N70-41955
Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688
Aligning and positioning device Patent
[NASA-CASE-XMS-04178] c 15 N71-22798
Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125
Roll alignment detector
[NASA-CASE-GSC-10514-1] c 14 N72-20379
Zero gravity shadow shield aligner
[NASA-CASE-KSC-10622-1] c 31 N72-21893
Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397
Spacecraft docking and alignment system --- using television camera system
[NASA-CASE-MSC-12559-1] c 18 N76-14186
Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276
Optical alignment device
[NASA-CASE-ARC-10932-1] c 74 N76-22993
Precision alinement apparatus for cutting a workpiece
[NASA-CASE-LAR-11658-1] c 37 N77-14478
Guide for a typewriter
[NASA-CASE-MFS-15218-1] c 37 N77-19457
Simulator scene display evaluation
[NASA-CASE-ARC-11504-1] c 09 N84-16221
Rotary target V-block
[NASA-CASE-LAR-12007-3] c 35 N84-16523
Low loss splicing method for single-mode optical fiber
[NASA-CASE-NPO-16294-1] c 74 N84-33179
Ingot slicing machine and method
[NASA-CASE-NPO-15483-1] c 37 N85-21650
Alignment and assembly tool for very large diameter cylinders
[NASA-CASE-MFS-28001-1] c 37 N85-29289
X-ray determination of parts alignment
[NASA-CASE-MSC-20418-1] c 74 N86-20126

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The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312

ALKALI HALIDES
Fire extinguishant materials
[NASA-CASE-ARC-11252-1] c 25 N83-36118

ALKALI METALS
Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979
Analytical test apparatus and method for determining oxide content of alkali metal Patent
[NASA-CASE-XLE-01997] c 06 N71-23527
Alkali metal silicate protective coating Patent
[NASA-CASE-XGS-04799] c 18 N71-24183
Heat activated cell with alkali anode and alkali salt electrolyte Patent
[NASA-CASE-LEW-11358] c 03 N71-26084
Preparation of alkali metal dispersions
[NASA-CASE-XNP-08876] c 17 N73-28573
Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229
Alkali-metal silicate binders and methods of manufacture
[NASA-CASE-GSC-12303-1] c 24 N79-31347
Heat pipes containing alkali metal working fluid
[NASA-CASE-LEW-12253-1] c 74 N83-19596
Fire extinguishant materials
[NASA-CASE-ARC-11252-1] c 25 N83-36118

ALKALINE BATTERIES
Method for determining the state of charge of batteries by the use of tracers Patent
[NASA-CASE-XNP-01464] c 03 N71-10728
Electrochemical coulometer and method of forming same Patent
[NASA-CASE-XGS-05434] c 03 N71-20491
Electrocatalyst for oxygen reduction
[NASA-CASE-HQN-10537-1] c 06 N72-10138
Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530
Polyvinyl alcohol battery separator containing inert filler --- alkaline batteries
[NASA-CASE-LEW-13556-1] c 44 N81-27615
Process of treating cellulosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641
Separator for alkaline batteries and method of making same
[NASA-CASE-GSC-10350-1] c 44 N82-24642
Separator for alkaline electric cells and method of making
[NASA-CASE-GSC-10017-1] c 44 N82-24643
Separator for alkaline electric batteries and method of making
[NASA-CASE-GSC-10018-1] c 44 N82-24644
Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370
Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708
Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176
Additive for zinc electrodes --- electric automobiles
[NASA-CASE-LEW-13286-1] c 33 N84-14422
Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144

ALKALINE EARTH OXIDES
Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229

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Fluorohydroxy ethers
[NASA-CASE-MFS-10507] c 06 N73-30101
Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744

ALKYNES
High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523

ALLOYS
Brazing alloy Patent
[NASA-CASE-XNP-03063] c 17 N71-23365
Alloys for bearings Patent
[NASA-CASE-XLE-05033] c 15 N71-23810
Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875
Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-08907] c 23 N71-29123
Enhanced diffusion welding
[NASA-CASE-LEW-11388-1] c 15 N73-32358
Brazing alloy binder
[NASA-CASE-XMF-05868] c 26 N75-27125
Brazing alloy
[NASA-CASE-XNP-03878] c 26 N75-27127

ALPHA PARTICLES
Method and means for helium/hydrogen ratio measurement by alpha scattering
[NASA-CASE-NPO-14079-1] c 25 N80-20334

ALPHANUMERIC CHARACTERS
X-Y alphanumeric character generator for oscilloscopes
[NASA-CASE-GSC-11582-1] c 33 N75-19517

ALTERNATING CURRENT
Ac power amplifier Patent Application
[NASA-CASE-LAR-10218-1] c 09 N70-34559
Frequency control network for a current feedback oscillator Patent
[NASA-CASE-GSC-10041-1] c 10 N71-19418
Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
[NASA-CASE-XMS-06061] c 05 N71-23317
Switching circuit Patent
[NASA-CASE-XNP-06505] c 10 N71-24799
Pulse width inverter Patent
[NASA-CASE-MFS-10068] c 10 N71-25139
Inverter with means for base current shaping for sweeping charge carriers from base region Patent
[NASA-CASE-XGS-06226] c 10 N71-25950
A dc to ac to dc converter having transistor synchronous rectifiers
[NASA-CASE-GSC-11126-1] c 09 N72-25253
Phase protection system for ac power lines
[NASA-CASE-MSC-17832-1] c 33 N74-14956
Solar cell system having alternating current output
[NASA-CASE-LEW-12806-2] c 44 N81-12542
Power factor control system for ac induction motors
[NASA-CASE-MFS-23988-1] c 33 N81-27395
Non-contacting power transfer device
[NASA-CASE-GSC-12595-1] c 33 N82-24422
Motor power control circuit for ac induction motors
[NASA-CASE-MFS-25323-1] c 33 N84-22886
Coupling an induction motor type generator to ac power lines --- making windmill generators compatible with public power lines
[NASA-CASE-MFS-25302-2] c 33 N84-33660
Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661
Power control for ac motor
[NASA-CASE-MFS-25861-1] c 33 N85-22877
Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083

ALTIMETERS
Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376

ALTITUDE
Combined optical attitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268

ALTITUDE CONTROL
Check valve assembly for a probe Patent
[NASA-CASE-XLA-00128] c 15 N70-37925

ALUMINUM
Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443
Thermal control coating Patent
[NASA-CASE-XLA-01995] c 18 N71-23047
Etching of aluminum for bonding Patent
[NASA-CASE-XMF-02303] c 17 N71-23828
Process for producing dispersion strengthened nickel with aluminum Patent
[NASA-CASE-XLE-06969] c 17 N71-24142
Plating nickel on aluminum castings Patent
[NASA-CASE-XNP-04148] c 17 N71-24830
Method of plating copper on aluminum Patent
[NASA-CASE-XLA-08966-1] c 17 N71-25903
Heat activated cell Patent
[NASA-CASE-LEW-11359] c 03 N71-28579
Method of making emf cell
[NASA-CASE-LEW-11359-2] c 03 N72-20034
Method of preparing graphite reinforced aluminum composite
[NASA-CASE-MFS-21077-1] c 24 N75-28135
Method of fluxless brazing and diffusion bonding of aluminum containing components
[NASA-CASE-MSC-14435-1] c 37 N76-18455
Method for making an aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-1] c 44 N79-11469
Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119
Variable anodic thermal control coating
[NASA-CASE-LAR-12719-1] c 44 N83-34449

ALUMINUM ALLOYS
Low temperature aluminum alloy Patent
[NASA-CASE-XMF-02786] c 17 N71-20743
Etching of aluminum for bonding Patent
[NASA-CASE-XMF-02303] c 17 N71-23828
Method of producing complex aluminum alloy parts of high temper, and products thereof
[NASA-CASE-MSC-19693-1] c 26 N78-24333
Nicral ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505

Metal matrix composite structural panel construction
[NASA-CASE-LAR-12807-1] c 24 N84-11214

ALUMINUM COATINGS

Nickel aluminide coated low alloy stainless steel
[NASA-CASE-LEW-11267-1] c 17 N73-32414
Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c 28 N74-33209
Method of protecting the surface of a substrate --- by applying aluminide coating
[NASA-CASE-LEW-11696-1] c 37 N75-13261
Duplex aluminized coatings
[NASA-CASE-LEW-11696-2] c 26 N75-19408
Meteoroid impact position locator aid for manned space station
[NASA-CASE-LAR-10629-1] c 35 N75-33367
Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441
Silicon-slurry/aluminide coating --- protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795

ALUMINUM COMPOUNDS

Synthesis of dawsonites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977
Fire extinguishant materials
[NASA-CASE-ARC-11252-1] c 25 N83-36118

ALUMINUM OXIDES

Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143
Method and technique for installing light-weight, fragile, high-temperature fiber insulation
[NASA-CASE-MSC-16934-3] c 24 N84-16262

ALUMINUM SILICATES

Inorganic thermal control pigment Patent
[NASA-CASE-XNP-02139] c 18 N71-24184

AMBIENT TEMPERATURE

High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191

AMIDES

Preparation of heterocyclic block copolymer omega-diamidoximes
[NASA-CASE-ARC-11060-1] c 27 N79-22300
Method for preparing addition type polyimide prepregs
[NASA-CASE-LAR-12054-2] c 27 N81-14078

AMINES

Direct synthesis of polymeric schiff bases from two amines and two aldehydes Patent
[NASA-CASE-XMF-08655] c 06 N71-11239
Synthesis of polymeric schiff bases by reaction of acetals and amine compounds Patent
[NASA-CASE-XMF-08652] c 06 N71-11243
Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c 27 N74-12812
Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c 25 N75-12086
Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353
Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039
Metal (2) 4,4',4',4'' phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281

AMINO ACIDS

Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844

AMMONIA

Solid state chemical source for ammonia beam maser Patent
[NASA-CASE-XGS-01504] c 16 N70-41578

AMMONIUM NITRATES

High performance ammonium nitrate propellant
[NASA-CASE-NPO-14260-1] c 28 N79-28342

AMMONIUM PERCHLORATES

Ammonium perchlorate composite propellant containing an organic transitional metal chelate catalytic additive Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090
Process for the leaching of AP from propellant
[NASA-CASE-NPO-14109-1] c 28 N80-23471

AMORPHOUS MATERIALS

Production of ultrapure amorphous metals utilizing acoustic cooling
[NASA-CASE-NPO-15658-1] c 26 N83-19890
Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005

AMPLIFICATION

Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39986
Amplifier clamping circuit for horizon scanner Patent
[NASA-CASE-XGS-01784] c 10 N71-20782
Diversity receiving system with diversity phase lock Patent
[NASA-CASE-XGS-01222] c 10 N71-20841
Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256
High voltage transistor amplifier with constant current load
[NASA-CASE-NPO-11023] c 09 N72-17155
Independent gain and bandwidth control of a traveling wave maser
[NASA-CASE-NPO-13801-1] c 36 N78-18410
Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179
Automatic level control circuit
[NASA-CASE-KSC-11170-1] c 33 N83-36356
Long gain length solar pumped box laser
[NASA-CASE-LAR-13256-1] c 36 N86-19596

AMPLIFIER DESIGN

Automatic gain control system
[NASA-CASE-XMS-05307] c 09 N69-24330
Bio-isolated dc operational amplifier --- for bioelectric measurements
[NASA-CASE-ARC-10596-1] c 33 N74-21851
High power metallic halide laser --- amplifying a copper chloride laser
[NASA-CASE-NPO-14782-1] c 36 N82-28616
Reactanceless synthesized impedance bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N85-29145
Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670

AMPLIFIERS

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[NASA-CASE-XGS-02812] c 09 N71-19466
Method and apparatus for continuously monitoring blood oxygenation, blood pressure, pulse rate and the pressure pulse curve utilizing an ear oximeter as transducer Patent
[NASA-CASE-XAC-05422] c 04 N71-23185
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[NASA-CASE-NPO-10548] c 16 N71-24831
Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234
Transient augmentation circuit for pulse amplifiers Patent
[NASA-CASE-XNP-01068] c 10 N71-28739
RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171
Full wave modulator-demodulator amplifier apparatus --- for generating rectified output signal
[NASA-CASE-FRC-10072-1] c 33 N74-14939
Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
Reflected-wave maser --- low noise amplifier
[NASA-CASE-NPO-13490-1] c 36 N76-31512
Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N83-13360
High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191
Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] c 33 N84-22887
Temperature sensitive oscillator
[NASA-CASE-GSC-12958-1] c 33 N85-30201
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N86-20679

AMPLITUDE DISTRIBUTION ANALYSIS

System for monitoring signal amplitude ranges
[NASA-CASE-XMS-04061-1] c 09 N69-39885
Single or joint amplitude distribution analyzer Patent
[NASA-CASE-XNP-01383] c 09 N71-10659
Analog-to-digital converter
[NASA-CASE-XNP-00477] c 08 N73-28045

AMPLITUDE MODULATION

Signal generator
[NASA-CASE-XNP-05612] c 09 N69-21468
Demodulation system Patent
[NASA-CASE-XAC-04030] c 10 N71-19472
Amplitude modulated laser transmitter Patent
[NASA-CASE-XMS-04269] c 16 N71-22895
Vibrating element electrometer with output signal magnified over input signal by a function of the mechanical Q of the vibrating element Patent
[NASA-CASE-XAC-02807] c 09 N71-23021
Phase multiplying electronic scanning system Patent
[NASA-CASE-NPO-10302] c 10 N71-26142
Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430
Gated compressor, distortionless signal limiter
[NASA-CASE-NPO-11820-1] c 32 N74-19788
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[NASA-CASE-GSC-11446-1] c 33 N74-20860
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[NASA-CASE-NPO-11945-1] c 36 N76-18427
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[NASA-CASE-NPO-15689-1] c 71 N84-23233
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[NASA-CASE-GSC-12818-1] c 33 N85-29147

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[NASA-CASE-LAR-12847-1] c 33 N83-16633
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[NASA-CASE-MFS-25436-1] c 27 N83-36220
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[NASA-CASE-LAR-12868-1] c 37 N85-21651

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[NASA-CASE-NPO-10068] c 08 N71-19288
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[NASA-CASE-XGS-02612] c 08 N71-19435
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[NASA-CASE-ERC-10048] c 09 N72-25251
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[NASA-CASE-GSC-12115-1] c 62 N76-31946
Velocity measurement system
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Apparatus for simulating optical transmission links
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[NASA-CASE-XAC-00404] c 08 N70-40125
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[NASA-CASE-NPO-11018] c 08 N72-21200
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[NASA-CASE-NPO-10560] c 08 N72-22166
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[NASA-CASE-NPO-11016] c 08 N72-31226
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[NASA-CASE-GSC-11839-3] c 60 N77-32731
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[NASA-CASE-LAR-11922-1] c 25 N79-24073
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[NASA-CASE-ARC-11367-1] c 33 N83-21238
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[NASA-CASE-LAR-12630-1] c 06 N84-27733
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[NASA-CASE-MFS-25319-1] c 60 N85-33701

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[NASA-CASE-ARC-10802-1] c 35 N75-30502
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[NASA-CASE-ARC-10639-1] c 35 N78-13400

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Angular accelerometer Patent
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[NASA-CASE-LAR-12052-1] c 18 N81-29152
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[NASA-CASE-NPO-14170-1] c 37 N81-15364
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[NASA-CASE-MFS-22356-1] c 23 N75-30256
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[NASA-CASE-ARC-11107-1] c 25 N80-16116
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The 1 - (dialkoxyphosphonyl)methyl -2,4- and -2,6-dinitro- and diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-1] c 23 N83-28076
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Process for preparation of dianilinosilanes Patent
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[NASA-CASE-ARC-10302-1] c 51 N74-15778
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[NASA-CASE-NPO-11806-1] c 44 N74-19693
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Multiple anode arc lamp system
[NASA-CASE-NPO-10857-1] c 33 N80-14330
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Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680

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Temperature reducing coating for metals subject to flame exposure Patent
[NASA-CASE-XLE-00035] c 33 N71-29151
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Tracking antenna system Patent
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Antenna array phase quadrature tracking system Patent
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Triaxial antenna Patent
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Virtual wall slot circularly polarized planar array antenna
[NASA-CASE-NPO-10301] c 07 N72-11148
Stacked array of omnidirectional antennas
[NASA-CASE-LAR-10545-1] c 09 N72-21244
Circularly polarized antenna
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Phase control circuits using frequency multiplications for phased array antennas
[NASA-CASE-ERC-10285] c 10 N73-16206
Plural beam antenna
[NASA-CASE-GSC-11013-1] c 09 N73-19234
Amplitude steered array
[NASA-CASE-GSC-11446-1] c 33 N74-20860
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[NASA-CASE-MSC-12593-1] c 17 N76-21250
Thin conformal antenna array for microwave power conversions
[NASA-CASE-NPO-13886-1] c 32 N78-24391
RF beam center location method and apparatus for power transmission system
[NASA-CASE-NPO-13821-1] c 44 N78-28594
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[NASA-CASE-MSC-14939-1] c 32 N79-11264
Phase conjugation method and apparatus for an active retrodirective antenna array
[NASA-CASE-NPO-13641-1] c 32 N79-24210
Scannable beam forming interferometer antenna array system
[NASA-CASE-GSC-12365-1] c 32 N80-28578
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[NASA-CASE-NPO-14536-1] c 32 N81-14185
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[NASA-CASE-MSC-16800-1] c 32 N81-14187
Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29308
Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MSC-18606-1] c 32 N82-11336
Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558
Method and apparatus for self-calibration and phasing of array antenna
[NASA-CASE-NPO-15920-1] c 33 N85-21493

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[NASA-CASE-XNP-01735] c 07 N71-22750
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[NASA-CASE-GSC-10064-1] c 10 N72-22235
Collapsible high gain antenna
[NASA-CASE-KSC-10392] c 07 N73-26117
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[NASA-CASE-GSC-11760-1] c 33 N75-19516
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[NASA-CASE-LAR-11112-1] c 32 N76-15330
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[NASA-CASE-NPO-13568-1] c 32 N76-21365
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[NASA-CASE-NPO-13553-1] c 33 N76-32457
Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c 32 N80-29539
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[NASA-CASE-MSC-18334-1] c 32 N80-32604
Spiral slotted phased antenna array
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[NASA-CASE-NPO-14022-1] c 32 N78-31321
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[NASA-CASE-NPO-14588-1] c 32 N81-25278
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[NASA-CASE-LEW-11930-4] c 24 N79-17916
Method of making bearing material
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[NASA-CASE-ARC-10448-2] c 74 N75-12732
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[NASA-CASE-LEW-11169-1] c 37 N76-23570
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Method for treating wastewater using microorganisms and vascular aquatic plants
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[NASA-CASE-NPO-14902-1] c 25 N82-29371
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Method and apparatus for nondestructive testing --- using high frequency arc discharges
[NASA-CASE-MFS-21233-1] c 38 N74-15395
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Electric-arc heater Patent
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Apparatus for applying simulator g-forces to an arm of an aircraft simulator pilot
[NASA-CASE-LAR-10550-1] c 09 N74-30597
Orthotic arm joint --- for use in mechanical arms
[NASA-CASE-MFS-21611-1] c 54 N75-12616
Controller arm for a remotely related slave arm
[NASA-CASE-ARC-11052-1] c 37 N79-28551

ARMATURES
Direct current motor with stationary armature and field Patent
[NASA-CASE-XGS-05290] c 09 N71-25999
Solenoid valve including guide for armature and valve member
[NASA-CASE-GSC-10607-1] c 15 N72-20442
Electric motive machine including magnetic bearing
[NASA-CASE-XGS-07805] c 15 N72-33476
Natural turbulence electrical power generator --- using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834

AROMATIC COMPOUNDS
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c 27 N74-21156
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315
Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c 27 N78-31232
Process for preparing thermoplastic aromatic polyimides
[NASA-CASE-LAR-11828-1] c 27 N78-32261
Curing agent for polyepoxides and epoxy resins and composites cured therewith --- preventing carbon fiber release
[NASA-CASE-LEW-13226-1] c 27 N81-17260
The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312

ARRAYS
Radio frequency arraying method for receivers
[NASA-CASE-NPO-14328-1] c 32 N80-18253
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-2] c 33 N83-24763

ARTERIES
Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27566

ARTIFICIAL CLOUDS
Barium release system
[NASA-CASE-LAR-10670-1] c 06 N73-30097

ARTIFICIAL GRAVITY
Rotating space station simulator Patent
[NASA-CASE-XLA-03127] c 11 N71-10776

Artificial gravity spin deployment system Patent
[NASA-CASE-XNP-02595] c 31 N71-21881
Space vehicle with artificial gravity and earth-like environment
[NASA-CASE-LEW-11101-1] c 31 N73-32750

ARTIFICIAL SATELLITES
Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c 07 N71-24621
Gravity gradient attitude control system Patent
[NASA-CASE-GSC-10555-1] c 21 N71-27324

ASBESTOS
Reconstituted asbestos matrix --- for use in fuel or electrolysis cells
[NASA-CASE-MSC-12568-1] c 24 N76-14204

ASPECT RATIO
Variable sweep wing aircraft Patent
[NASA-CASE-XLA-00221] c 02 N70-33266
Variable-span aircraft Patent
[NASA-CASE-XLA-00166] c 02 N70-34178
Variable sweep aircraft wing Patent
[NASA-CASE-XLA-00350] c 02 N70-38011

ASPHALT
Thermoplastic rubber comprising ethylene-vinyl acetate copolymer, asphalt and fluxing oil
[NASA-CASE-NPO-08835-1] c 27 N78-33228

ASSAYING
Rapid, quantitative determination of bacteria in water --- adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569

ASSEMBLIES
Multiple Belleville spring assembly Patent
[NASA-CASE-XNP-00840] c 15 N70-38225
Bearing seat usable in a gas turbine engine
[NASA-CASE-LEW-12477-1] c 37 N77-32501
Foldable beam
[NASA-CASE-LAR-12077-1] c 31 N81-25259
Resilient seal ring assembly with spring means applying force to wedge member --- cryogenic applications
[NASA-CASE-MFS-25678-1] c 37 N84-11497
Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N85-20299
Fully redundant mechanical release actuator
[NASA-CASE-LAR-13198-1] c 37 N85-29287
Self-locking mechanical center joint
[NASA-CASE-LAR-12864-1] c 37 N85-30336
X-ray determination of parts alignment
[NASA-CASE-MSC-20418-1] c 74 N86-20126

ASSEMBLING
Alignment and assembly tool for very large diameter cylinders
[NASA-CASE-MFS-28001-1] c 37 N85-29289

ASTRONAUT LOCOMOTION
Rotating space station simulator Patent
[NASA-CASE-XLA-03127] c 11 N71-10776
Space suit pressure stabilizer Patent
[NASA-CASE-XLA-05332] c 05 N71-11194
Equipotential space suit Patent
[NASA-CASE-LAR-10007-1] c 05 N71-11195
Hard space suit Patent
[NASA-CASE-XAC-07043] c 05 N71-23161
Foreshortened convolute section for a pressurized suit Patent
[NASA-CASE-XMS-09637-1] c 05 N71-24730
Locomotion and restraint aid Patent
[NASA-CASE-ARC-10153] c 05 N71-28619
Walking boot assembly
[NASA-CASE-ARC-11101-1] c 54 N78-17675
Spacesuit mobility knee joints
[NASA-CASE-ARC-11058-2] c 54 N79-24651

ASTRONAUT MANEUVERING EQUIPMENT
Hand-held self-maneuvering unit Patent
[NASA-CASE-XMS-05304] c 05 N71-12336
Space environmental work simulator Patent
[NASA-CASE-XMF-07488] c 11 N71-18773
Personal propulsion unit Patent
[NASA-CASE-MFS-20130] c 28 N71-27585

ASTRONAUT PERFORMANCE
Locomotion and restraint aid Patent
[NASA-CASE-ARC-10153] c 05 N71-28619
Spacesuit mobility joints
[NASA-CASE-ARC-11058-1] c 54 N78-31735

ASTRONAUT TRAINING
Training vehicle for controlling attitude Patent
[NASA-CASE-XMS-02977] c 11 N71-10746
Mechanical simulator of low gravity conditions Patent
[NASA-CASE-MFS-10555] c 11 N71-19494
Subgravity simulator Patent
[NASA-CASE-XMS-04798] c 11 N71-21474

ASTRONAUTS
Emergency lunar communications system
[NASA-CASE-MFS-21042] c 07 N72-25171
Manual actuator --- for spacecraft exercising machines
[NASA-CASE-MFS-21481-1] c 37 N74-18127

ASTRONAVIGATION
Guidance and maneuver analyzer Patent
[NASA-CASE-XNP-09572] c 14 N71-15621

ASTRONOMICAL PHOTOGRAPHY
Apparatus for photographing meteors
[NASA-CASE-LAR-10226-1] c 14 N73-19419

ASTRONOMICAL TELESCOPES
Solar optical telescope dome control system Patent
[NASA-CASE-MSC-10966] c 14 N71-19568
Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125
Star image motion compensator
[NASA-CASE-LAR-10523-1] c 14 N72-22444
Anastigmatic three-mirror telescope
[NASA-CASE-MFS-23675-1] c 89 N79-10969

ASYMMETRY
Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] c 51 N84-28361

ATMOSPHERIC COMPOSITION
Atmospheric sampling devices
[NASA-CASE-NPO-11373] c 13 N72-25323
Apparatus for sampling particulates in gases
[NASA-CASE-HQN-10037-1] c 14 N73-27376
Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c 35 N74-11284
Chelate-modified polymers for atmospheric gas chromatography
[NASA-CASE-ARC-11154-1] c 25 N80-23383
Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217

ATMOSPHERIC DENSITY
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443

ATMOSPHERIC ENTRY
Flight craft Patent
[NASA-CASE-XAC-02058] c 02 N71-16087
Means for measuring the electron density gradients of the plasma sheath formed around a space vehicle Patent
[NASA-CASE-XLA-06232] c 25 N71-20563
Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c 19 N74-21015

ATMOSPHERIC ENTRY SIMULATION
Plasma accelerator Patent
[NASA-CASE-XLA-00675] c 25 N70-33267
Flow field simulation Patent
[NASA-CASE-LAR-11138] c 12 N71-20436

ATMOSPHERIC MOISTURE
Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681

ATMOSPHERIC PHYSICS
Rocket borne instrument to measure electric fields inside electrified clouds
[NASA-CASE-KSC-10730-1] c 14 N73-32318

ATMOSPHERIC PRESSURE
Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229
Method of and apparatus for measuring temperature and pressure --- atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639

ATMOSPHERIC RADIATION
Method and apparatus for measuring solar activity and *atmospheric radiation effects*
[NASA-CASE-ERC-10276] c 14 N73-26432

ATMOSPHERIC REFRACTION
Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-1] c 36 N81-22344

ATMOSPHERIC SCATTERING
Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c 36 N75-15028

ATMOSPHERIC SOUNDING
Microwave limb sounder --- measuring trace gases in the upper atmosphere
[NASA-CASE-NPO-14544-1] c 46 N82-12685

ATMOSPHERIC TEMPERATURE
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443
Method of and apparatus for measuring temperature and pressure --- atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639

ATMOSPHERIC TURBULENCE
Passive optical wind and turbulence detection system Patent
[NASA-CASE-XMF-14032] c 20 N71-16340
Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c 35 N77-10493

ATOMIC EXCITATIONS
Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N85-30779

ATOMIZERS
Cryogenic cooling system Patent
[NASA-CASE-NPO-10467] c 23 N71-26654
Constant-output atomizer --- inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406

ATOMS
Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N85-30779

ATS
Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978

ATTACHMENT
Wide temperature range electronic device with lead attachment
[NASA-CASE-ERC-10224-2] c 09 N73-27150

ATTENUATORS
Rotary vane attenuator wherin rotor has orthogonally disposed resistive and dielectric cards
[NASA-CASE-NPO-11418-1] c 14 N73-13420
Pulse transducer with artifact signal attenuator --- heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969

ATTITUDE (INCLINATION)
Analog spatial maneuver computer
[NASA-CASE-GSC-10880-1] c 08 N72-11172
Spacecraft attitude sensor
[NASA-CASE-GSC-10890-1] c 21 N73-30640
Interferometer mirror tilt correcting system
[NASA-CASE-NPO-13687-1] c 35 N78-18391

ATTITUDE CONTROL
Visual target for retrofire attitude control
[NASA-CASE-XMS-12158-1] c 31 N69-27499
Three axis controller Patent
[NASA-CASE-XFR-00181] c 21 N70-33279
Method and apparatus for determining satellite orientation utilizing spatial energy sources Patent
[NASA-CASE-XGS-00466] c 21 N70-34297
Attitude and propellant flow control system and method Patent
[NASA-CASE-XMF-00185] c 21 N70-34539
Space vehicle attitude control Patent
[NASA-CASE-XNP-00465] c 21 N70-35395
Attitude control for spacecraft Patent
[NASA-CASE-XNP-00294] c 21 N70-36938
Attitude orientation of spin-stabilized space vehicles Patent
[NASA-CASE-XLA-00281] c 21 N70-36943
Ejection unit Patent
[NASA-CASE-XNP-00676] c 15 N70-38996
Three-axis controller Patent
[NASA-CASE-XAC-01404] c 05 N70-41581
Training vehicle for controlling attitude Patent
[NASA-CASE-XMS-02977] c 11 N71-10746
Canopus detector including automotive gain control of photomultiplier tube Patent
[NASA-CASE-XNP-03914] c 21 N71-10771
Automatic balancing device Patent
[NASA-CASE-LAR-10774] c 10 N71-13545
Spacecraft experiment pointing and attitude control system Patent
[NASA-CASE-XLA-05464] c 21 N71-14132
Attitude control system Patent
[NASA-CASE-XGS-04393] c 21 N71-14159
Control system for rocket vehicles Patent
[NASA-CASE-XLA-01163] c 21 N71-15582
Reactance control system Patent
[NASA-CASE-XMF-01598] c 21 N71-15583
Spacecraft attitude detection system by stellar reference Patent
[NASA-CASE-XGS-03431] c 21 N71-15642
Three-axis finger tip controller for switches Patent
[NASA-CASE-XAC-02405] c 09 N71-16089
Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629
Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c 21 N71-22880
Attitude control system for sounding rockets Patent
[NASA-CASE-XGS-01654] c 31 N71-24750
Voice operated controller Patent
[NASA-CASE-XLA-04063] c 31 N71-33160
Attitude sensor
[NASA-CASE-LAR-10586-1] c 19 N74-15089
Temperature compensated digital inertial sensor --- circuit for maintaining inertial element of gyroscope or accelerometer at constant position
[NASA-CASE-NPO-13044-1] c 35 N74-15094
Sun direction detection system
[NASA-CASE-NPO-13722-1] c 74 N77-22951
Thrust augmented spin recovery device
[NASA-CASE-LAR-11970-2] c 08 N81-19130

Propulsion apparatus and method using boil-off gas from a cryogenic liquid --- controlling spacecraft attitude and drag
[NASA-CASE-MFS-25946-1] c 20 N84-15183
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N84-20522
Programmable scan/read circuitry for charge coupled device imaging detectors --- spcecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247
Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N85-20299
Three axis attitude control system
[NASA-CASE-GSC-12970-1] c 08 N86-20396

ATTITUDE GYROS
Space vehicle attitude control Patent
[NASA-CASE-XNP-00465] c 21 N70-35395
Attitude control system
[NASA-CASE-MFS-22787-1] c 15 N77-10113

ATTITUDE INDICATORS
Photosensitive device to detect bearing deviation Patent
[NASA-CASE-XNP-00438] c 21 N70-35089
Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255
Combined optical attitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268
Head-up attitude display
[NASA-CASE-ERC-10392] c 21 N73-14692
Attitude sensor
[NASA-CASE-LAR-10586-1] c 19 N74-15089
Translatory shock absorber for attitude sensors
[NASA-CASE-MFS-22905-1] c 19 N76-22284
Air speed and attitude probe
[NASA-CASE-FRC-11009-1] c 06 N80-18036
Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882

ATTITUDE STABILITY
Dynamic precession damper for spin stabilized vehicles Patent
[NASA-CASE-XLA-01989] c 21 N70-34295
Apparatus for automatically stabilizing the attitude of a nonguided vehicle
[NASA-CASE-ARC-10134] c 30 N72-17873
Method of damping nutation motion with minimum spin axis attitude disturbance
[NASA-CASE-GSC-12551-1] c 18 N83-28064

AUDIO EQUIPMENT
Audio system with means for reducing noise effects
[NASA-CASE-NPO-11631] c 10 N73-12244

AUDIO FREQUENCIES
Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430
Audio frequency marker system
[NASA-CASE-NPO-11147] c 14 N72-27408

AUDIO SIGNALS
A method and apparatus for operating on companded PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N85-29120

AUDITORY DEFECTS
Hearing aid malfunction detection system
[NASA-CASE-MSC-14916-1] c 33 N78-10375

AUDITORY PERCEPTION
Auditory display for the blind
[NASA-CASE-HQN-10832-1] c 71 N74-21014

AUDITORY SIGNALS
Audio signal processor Patent
[NASA-CASE-MSC-12223-1] c 07 N71-26181
Audio system with means for reducing noise effects
[NASA-CASE-NPO-11631] c 10 N73-12244

AUDITORY STIMULI
Auditory display for the blind
[NASA-CASE-HQN-10832-1] c 71 N74-21014

AUGER EFFECT
Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482

AUSTENITIC STAINLESS STEELS
Nickel aluminide coated low alloy stainless steel
[NASA-CASE-LEW-11267-1] c 17 N73-32414
Device for measuring the ferrite content in an austenitic stainless-steel weld
[NASA-CASE-MFS-22907-1] c 26 N76-18257

AUTOCLAVES
System for sterilizing objects --- cleaning space vehicle systems
[NASA-CASE-KSC-11085-1] c 54 N81-24724

AUTOCORRELATION
Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503
Correlation function apparatus Patent
[NASA-CASE-XNP-00746] c 07 N71-21476
An electro-optical Doppler tracker means and method for optical correlation of synthetic aperture radar data
[NASA-CASE-NPO-14998-1] c 33 N81-15194

AUTOMATIC CONTROL
Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987
Optical alignment system Patent
[NASA-CASE-XNP-02029] c 14 N70-41955
Pulsed energy power system Patent
[NASA-CASE-MSC-13112] c 03 N71-11057
Automatic balancing device Patent
[NASA-CASE-LAR-10774] c 10 N71-13545
Apparatus for welding torch angle and seam tracking control Patent
[NASA-CASE-XMF-03287] c 15 N71-15607
Leak detector Patent
[NASA-CASE-LAR-10323-1] c 12 N71-17573
Solar optical telescope dome control system Patent
[NASA-CASE-MSC-10966] c 14 N71-19568
Automatic welding speed controller Patent
[NASA-CASE-XMF-01730] c 15 N71-23050
Indexing microwave switch Patent
[NASA-CASE-XNP-06507] c 09 N71-23548
Automatic pump Patent
[NASA-CASE-XNP-04731] c 15 N71-24042
Automatic fatigue test temperature programmer Patent
[NASA-CASE-XLA-02059] c 33 N71-24276
Automatic battery charger Patent
[NASA-CASE-XNP-04758] c 03 N71-24605
Transistor servo system including a unique differential amplifier circuit Patent
[NASA-CASE-XMF-05195] c 10 N71-24861
Electron beam tube containing a multiple cathode array employing indexing means for cathode substitution Patent
[NASA-CASE-NPO-10625] c 09 N71-26182
Automatic signal range selector for metering devices Patent
[NASA-CASE-XMS-06497] c 14 N71-26244
Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754
Automatic control of liquid cooling garment by cutaneous and external auditory meatus temperatures
[NASA-CASE-MSC-13917-1] c 05 N72-15098
Optimal control system for an electric motor driven vehicle
[NASA-CASE-NPO-11210] c 11 N72-20244
Automated equipotential plotter
[NASA-CASE-NPO-11134] c 09 N72-21246
Ion thruster magnetic field control
[NASA-CASE-LEW-10835-1] c 28 N72-22771
Temperature controller for a fluid cooled garment
[NASA-CASE-ARC-10599-1] c 05 N73-26071
Redundant speed control for brushless Hall effect motor
[NASA-CASE-MFS-20207-1] c 09 N73-32107
Programmable physiological infusion
[NASA-CASE-ARC-10447-1] c 52 N74-22771
Automatically operable self-leveling load table
[NASA-CASE-MFS-22039-1] c 09 N75-12968
Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
Traffic survey system --- using optical scanners
[NASA-CASE-MFS-22631-1] c 66 N76-19888
Automatic visual inspection system for microelectronics
[NASA-CASE-NPO-13282] c 38 N78-17396
Automatic fluid dispenser
[NASA-CASE-ARC-10820-1] c 35 N78-19466
Method for producing solar energy panels by automation
[NASA-CASE-LEW-12541-1] c 44 N78-25529
Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257
Method for forming a solar array strip
[NASA-CASE-NPO-13652-3] c 44 N80-14474
Method of growing a ribbon crystal particularly suited for facilitating automated control of ribbon width
[NASA-CASE-NPO-14295-1] c 76 N80-32245
Integrated control system for a gas turbine engine
[NASA-CASE-LEW-12594-2] c 07 N81-19116
Solar energy control system --- temperature measurement
[NASA-CASE-MFS-25287-1] c 44 N82-18686
Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205
Automatic weld torch guidance control system
[NASA-CASE-MFS-25807] c 37 N83-20154
Automatic thermal switch --- spacecraft applications
[NASA-CASE-GSC-12553-1] c 34 N83-28356
Self-indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N84-20860
Linear magnetic bearings
[NASA-CASE-GSC-12582-2] c 37 N85-20337
Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182
Airplane automatic control force trimming device for asymmetric engine failures
[NASA-CASE-LAR-13280-1] c 08 N86-20397
Automatic oscillator frequency control system
[NASA-CASE-GSC-12804-1] c 33 N86-20668
Automated weld torch guidance control system
[NASA-CASE-MFS-25807-2] c 37 N86-21850

AUTOMATIC CONTROL VALVES
Check valve assembly for a probe Patent
[NASA-CASE-XLA-00128] c 15 N70-37925
Metal valve pintle with encapsulated elastomeric body Patent
[NASA-CASE-MSC-12116-1] c 15 N71-17648
Semitoroidal diaphragm cavitating valve Patent
[NASA-CASE-XNP-09704] c 12 N71-18615
Valving device for automatic refilling in cryogenic liquid systems
[NASA-CASE-NPO-11177] c 15 N72-17453
Combined pressure regulator and shutoff valve
[NASA-CASE-NPO-13201-1] c 37 N75-15050
Iodine generator for reclaimed water purification
[NASA-CASE-MSC-14632-1] c 54 N78-14784
Automatic compression adjusting mechanism for internal combustion engines
[NASA-CASE-MSC-18807-1] c 37 N83-36483

AUTOMATIC FREQUENCY CONTROL
Automatic acquisition system for phase-lock loop
[NASA-CASE-XGS-04994] c 09 N69-21543
Audio signal processor Patent
[NASA-CASE-MSC-12223-1] c 07 N71-26181
Automatic frequency control loop including synchronous switching circuits
[NASA-CASE-KSC-10393] c 09 N72-21247
Self-tuning bandpass filter
[NASA-CASE-ARC-10264-1] c 09 N73-20231
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N86-20679

AUTOMATIC GAIN CONTROL
Automatic gain control system
[NASA-CASE-XMS-05307] c 09 N69-24330
Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39986
Self-tuning bandpass filter
[NASA-CASE-ARC-10264-1] c 09 N73-20231
Digital automatic gain amplifier
[NASA-CASE-KSC-11008-1] c 33 N79-22373
Automatic level control circuit
[NASA-CASE-KSC-11170-1] c 33 N83-36356

AUTOMATIC TEST EQUIPMENT
Visual examination apparatus
[NASA-CASE-ARC-10329-1] c 05 N73-26072
Automatic microbial transfer device
[NASA-CASE-LAR-11354-1] c 35 N75-27330
Visual examination apparatus
[US-PATENT-RE-28,921] c 52 N76-30793
Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] c 52 N79-12694
Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c 34 N81-26402
Pressure suit joint analyzer
[NASA-CASE-ARC-11314-1] c 54 N82-26987

AUTOMATION
Automated multi-level vehicle parking system
[NASA-CASE-NPO-13058-1] c 37 N77-22480

AUTOMOBILE ENGINES
Automotive gas turbine fuel control
[NASA-CASE-LEW-12785-1] c 37 N78-24545
Controller for computer control of brushless dc motors --- automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352

AUTOMOBILE FUELS
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c 44 N76-29700

AUTONOMOUS NAVIGATION
Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047

AUXILIARY POWER SOURCES
Independent power generator
[NASA-CASE-LAR-11208-1] c 44 N78-32539
Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319

AVERAGE
Method of and apparatus for generating an interstitial point in a data stream having an even number of data points
[NASA-CASE-MFS-25319-1] c 60 N85-33701

AVIONICS
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N84-20522

AXES (REFERENCE LINES)
Moment of inertia test fixture Patent
[NASA-CASE-XGS-01023] c 14 N71-22992
Universal restrainer and joint Patent
[NASA-CASE-XNP-02278] c 15 N71-28951
Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355
AXES OF ROTATION
Three axis controller Patent
[NASA-CASE-XFR-00181] c 21 N70-33279
Proportional controller Patent
[NASA-CASE-XAC-03392] c 03 N70-41954
Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688
Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255
Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882
Centrifugal-reciprocating compressor
[NASA-CASE-NPO-14597-2] c 37 N84-28081
Shoulder and hip joint for hard space suits and the like
[NASA-CASE-ARC-11543-1] c 54 N85-21986
AXIAL COMPRESSION LOADS
Impact monitoring apparatus
[NASA-CASE-MSC-15626-1] c 14 N72-25411
Compression test apparatus
[NASA-CASE-MSC-18723-1] c 35 N83-21312
AXIAL FLOW
Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] c 34 N85-29180
Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 07 N85-35194
AXIAL FLOW PUMPS
Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N86-19611
AXIAL FLOW TURBINES
Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00170] c 15 N70-36412
Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00085] c 28 N70-39895
Method and turbine for extracting kinetic energy from a stream of two-phase fluid
[NASA-CASE-NPO-14130-1] c 34 N79-20335
AXIAL LOADS
Locking device with rolling detents Patent
[NASA-CASE-XMF-01371] c 15 N70-41829
Method for measuring biaxial stress in a body subjected to stress inducing loads
[NASA-CASE-MFS-23299-1] c 39 N77-28511
AXIAL STRESS
Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18459
Method for measuring biaxial stress in a body subjected to stress inducing loads
[NASA-CASE-MFS-23299-1] c 39 N77-28511
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Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627
Long range laser traversing system
[NASA-CASE-GSC-11262-1] c 36 N74-21091
Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056
Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882
AZINES
Azine polymers and process for preparing the same Patent
[NASA-CASE-XMF-08656] c 06 N71-11242
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c 27 N74-21156
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315
Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307
Perfluoroalkyl polytriazines containing pendent iododifluoromethyl groups
[NASA-CASE-ARC-11241-1] c 25 N81-14016
Process for the preparation of fluorine containing crosslinked elastomeric polytriazine and product so produced
[NASA-CASE-ARC-11248-1] c 27 N81-17259
AZO COMPOUNDS
Molding process for imidazopyrrolone polymers
[NASA-CASE-LAR-10547-1] c 31 N74-13177

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BACK INJURIES
Spine immobilization apparatus
[NASA-CASE-ARC-11167-1] c 52 N81-25662
BACKGROUND NOISE
Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980
BACKGROUND RADIATION
Method and apparatus for background signal reduction in opto-acoustic absorption measurement
[NASA-CASE-NPO-13683-1] c 35 N77-14411
BACKSCATTERING
Method and apparatus for determining electromagnetic characteristics of large surface area passive reflectors Patent
[NASA-CASE-XGS-02608] c 07 N70-41678
Mossbauer spectrometer radiation detector
[NASA-CASE-LAR-11155-1] c 35 N74-15091
BACKUPS
Flexible back-up bar Patent
[NASA-CASE-XMF-00722] c 15 N70-40204
Inherent redundacy electric heater
[NASA-CASE-MFS-21462-1] c 33 N74-14935
Improved impact tolerant material
[NASA-CASE-LAR-12887-1] c 24 N84-20649
BACKWARD WAVES
Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] c 33 N84-16452
Dielectric based submillimeter backward wave oscillator circuit
[NASA-CASE-LEW-13736-1] c 33 N84-27974
BACTERIA
Decontamination of petroleum products Patent
[NASA-CASE-XNP-03835] c 06 N71-23499
Bacterial contamination monitor
[NASA-CASE-GSC-10879-1] c 14 N72-25413
Method of detecting and counting bacteria in body fluids
[NASA-CASE-GSC-11092-2] c 04 N73-27052
Lyophilized spore dispenser
[NASA-CASE-LAR-10544-1] c 37 N74-13178
Method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c 51 N76-29891
Determination of antimicrobial susceptibilities on infected urines without isolation
[NASA-CASE-GSC-12046-1] c 52 N79-14750
Method and apparatus for eliminating luminol interference material
[NASA-CASE-MSC-16260-1] c 51 N80-16714
Rapid, quantitative determination of bacteria in water --- adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569
BACTERIOLOGY
Bacteria detection instrument and method
[NASA-CASE-GSC-11533-1] c 14 N73-13435
Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22794
Automated single-slide staining device
[NASA-CASE-LAR-11649-1] c 51 N77-27677
BAFFLES
Light radiation direction indicator with a baffle of two parallel grids
[NASA-CASE-XNP-03930] c 14 N69-24331
Anti-glare improvement for optical imaging systems Patent
[NASA-CASE-NPO-10337] c 14 N71-15604
Flexible ring slosh damping baffle Patent
[NASA-CASE-LAR-10317-1] c 32 N71-16103
Buoyant anti-slosh system Patent
[NASA-CASE-XLA-04605] c 32 N71-16106
Floating baffle to improve efficiency of liquid transfer from tanks
[NASA-CASE-KSC-10639] c 15 N73-26472
System for the measurement of ultra-low stray light levels --- determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865
Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] c 44 N84-14583
Optical system with reflective baffles
[NASA-CASE-ARC-11502-1] c 74 N86-20125
BAGS
Relief container
[NASA-CASE-XMS-06761] c 05 N69-23192
Gas diffusion liquid storage bag and method of use for storing blood
[NASA-CASE-NPO-13930-1] c 52 N79-14749
BAKING
Bakeable McLeod gauge
[NASA-CASE-XGS-01293-1] c 35 N79-33450
A method and technique for installing light-weight fragile, high-temperature fiber insulation
[NASA-CASE-MSC-18934-3] c 24 N82-26387
BALANCE
Thermo-protective device for balances Patent
[NASA-CASE-XAC-00648] c 14 N70-40400
Device for monitoring a change in mass in varying gravimetric environments
[NASA-CASE-MFS-21556-1] c 35 N74-26945
BALANCING
Automatic balancing device Patent
[NASA-CASE-LAR-10774] c 10 N71-13545
Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c 15 N71-27432
Lift balancing device
[NASA-CASE-LAR-10348-1] c 11 N73-12264
Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680
BALL BEARINGS
Two component bearing Patent
[NASA-CASE-XLA-00013] c 15 N71-29136
High speed rolling element bearing
[NASA-CASE-LEW-10856-1] c 15 N72-22490
Low mass rolling element for bearings
[NASA-CASE-LEW-11087-1] c 15 N73-30458
Hollow rolling element bearings
[NASA-CASE-LEW-11087-3] c 37 N74-21064
Drilled ball bearing with a one piece anti-tipping cage assembly
[NASA-CASE-LEW-11925-1] c 37 N75-31446
Spherical bearing --- to reduce vibration effects
[NASA-CASE-MFS-23447-1] c 37 N79-11404
Apparatus and method for inspecting a bearing ball --- eddy current inspection technique
[NASA-CASE-MFS-25833-1] c 35 N83-21316
BALLAST (MASS)
Life raft stabilizer
[NASA-CASE-MSC-12393-1] c 02 N73-26006
BALLASTS (IMPEDANCES)
Apparatus for ballasting high frequency transistors
[NASA-CASE-XGS-05003] c 09 N69-24318
Direct current ballast circuit for metal halide lamp
[NASA-CASE-MSC-18407-1] c 33 N82-24427
BALLISTICS
Fiber modified polyurethane foam for ballistic protection
[NASA-CASE-ARC-10714-1] c 27 N76-15310
BALLOON SOUNDING
Apparatus for controlling the temperature of balloon-borne equipment
[NASA-CASE-GSC-11620-1] c 34 N74-23039
BALLOONS
Hot air ballon deceleration and recovery system Patent
[NASA-CASE-XLA-06824-2] c 02 N71-11037
Inflation system for balloon type satellites Patent
[NASA-CASE-XGS-03351] c 31 N71-16081
System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008
BALLS
Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073
Quartz ball value
[NASA-CASE-NPO-14473-1] c 37 N80-23654
BANDPASS FILTERS
Helical coaxial resonator RF filter
[NASA-CASE-XGS-02816] c 07 N69-24323
Compensating bandwidth switching transients in an amplifier circuit Patent
[NASA-CASE-XNP-01107] c 10 N71-28859
Signal-to-noise ratio determination circuit
[NASA-CASE-GSC-11239-1] c 10 N73-25241
High-Q bandpass resonators utilizing bandstop resonator pairs
[NASA-CASE-GSC-10990-1] c 09 N73-26195
Dichroic plate --- as bandpass filters
[NASA-CASE-NPO-13506-1] c 35 N76-15435
Notch filter
[NASA-CASE-MFS-23303-1] c 32 N77-18307
Adaptive polarization separation
[NASA-CASE-LAR-12196-1] c 33 N81-26358
Smoothing filter for digital to analog conversion
[NASA-CASE-FRC-11025-1] c 33 N82-24417
Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421
Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] c 33 N84-22887
Multispectral linear array multiband selection device
[NASA-CASE-GSC-12911-1] c 35 N84-25016
Reactanceless synthesized impedance bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N85-29145

BANDWIDTH
Narrow bandwidth video Patent
[NASA-CASE-XMS-06740-1] c 07 N71-26579
Self-tuning bandpass filter
[NASA-CASE-ARC-10264-1] c 09 N73-20231
Turnstile and flared cone UHF antenna
[NASA-CASE-LAR-10970-1] c 33 N76-14372
Independent gain and bandwidth control of a traveling wave maser
[NASA-CASE-NPO-13801-1] c 36 N78-18410
Dual band combiner for horn antenna
[NASA-CASE-NPO-14519-1] c 32 N80-23524
Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MSC-20821-1] c 17 N86-20466
BARIUM
Barium release system
[NASA-CASE-LAR-10670-1] c 06 N73-30097
BARIUM COMPOUNDS
Ion thrustor cathode
[NASA-CASE-XLE-07087] c 06 N69-39889
BARIUM FLUORIDES
Method of making self lubricating fluoride- metal composite materials Patent
[NASA-CASE-XLE-08511-2] c 18 N71-16105
BARIUM ION CLOUDS
Rocket having barium release system to create ion clouds in the upper atmosphere
[NASA-CASE-LAR-10670-2] c 15 N74-27360
BARIUM TITANATES
Semiconductor-ferroelectric memory device
[NASA-CASE-ERC-10307] c 08 N72-21198
BARRIER LAYERS
Schottky barrier solar cell
[NASA-CASE-NPO-13689-2] c 44 N81-29525
Submillimeter wave Schottky barrier diode with low series resistance and low noise
[NASA-CASE-NPO-15935-1] c 33 N83-12334
BARRIERS
Short range laser obstacle detector --- for surface vehicles using laser diode array
[NASA-CASE-NPO-11856-1] c 36 N74-15145
BARS
Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303
BASES (CHEMICAL)
Thermal control coating Patent
[NASA-CASE-XLA-01995] c 18 N71-23047
BATTERY CHARGERS
Method and apparatus for battery charge control Patent
[NASA-CASE-XGS-05432] c 03 N71-19438
Electrochemical coulometer and method of forming same Patent
[NASA-CASE-XGS-05434] c 03 N71-20491
Coulometer and third electrode battery charging circuit Patent
[NASA-CASE-GSC-10487-1] c 03 N71-24719
Method and apparatus for conditioning of nickel-cadmium batteries
[NASA-CASE-MFS-23270-1] c 44 N78-25531
BAYARD-ALPERT IONIZATION GAGES
Ionization vacuum gauge with all but the end of the ion collector shielded Patent
[NASA-CASE-XLA-07424] c 14 N71-18482
BEADS
Rotary bead dropper and selector for testing micrometeorite detectors Patent
[NASA-CASE-XGS-03304] c 09 N71-22988
Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618
BEAM LEADS
Integrated circuit package with lead structure and method of preparing the same
[NASA-CASE-MFS-21374-1] c 33 N74-12951
BEAM SPLITTERS
Optical range finder having nonoverlapping complete images
[NASA-CASE-MSC-12105-1] c 14 N72-21409
Laser extensometer
[NASA-CASE-MFS-19259-1] c 36 N78-14380
Over-under double-pass interferometer
[NASA-CASE-NPO-13999-1] c 35 N78-18395
Method and apparatus for splitting a beam of energy --- optical communication
[NASA-CASE-GSC-12083-1] c 73 N78-32848
Interferometer
[NASA-CASE-NPO-14502-1] c 74 N81-17888
Collimated beam manifold with the number of output beams variable at a given output angle
[NASA-CASE-MFS-25312-1] c 74 N83-17305
Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949
High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898
BEAM SWITCHING
Electronic beam switching commutator Patent
[NASA-CASE-XGS-01451] c 09 N71-10677
Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c 07 N71-27233
Dish antenna having switchable beamwidth --- with truncated concave ellipsoid subreflector
[NASA-CASE-GSC-11760-1] c 33 N75-19516
Single frequency, two feed dish antenna having switchable beamwidth
[NASA-CASE-GSC-11968-1] c 32 N76-15329
Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472
BEAM WAVEGUIDES
Laser machining apparatus Patent
[NASA-CASE-HQN-10541-2] c 15 N71-27135
Optical frequency waveguide and transmission system Patent
[NASA-CASE-HQN-10541-4] c 16 N71-27183
Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125
Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287
Multiprism collimator
[NASA-CASE-GSC-12608-1] c 74 N83-10900
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Method and means for recording and reconstructing holograms without use of a reference beam Patent
[NASA-CASE-ERC-10020] c 16 N71-26154
Optical frequency waveguide and transmission system
[NASA-CASE-HQN-10541-3] c 23 N72-23695
Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510
Scannable beam forming interferometer antenna array system
[NASA-CASE-GSC-12365-1] c 32 N80-28578
Method for shaping and aiming narrow beams --- sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443
Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
Sidelooking laser altimeter for a flight simulator
[NASA-CASE-ARC-11312-1] c 36 N83-34304
Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] c 36 N84-28065
Beam forming network
[NASA-CASE-NPO-15743-1] c 32 N85-29118
Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N86-20780
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Foldable beam
[NASA-CASE-LAR-12077-1] c 31 N81-25259
Beam connector apparatus and assembly
[NASA-CASE-MFS-25134-1] c 31 N83-31895
Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479
Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605
BEARING (DIRECTION)
Light radiation direction indicator with a baffle of two parallel grids
[NASA-CASE-XNP-03930] c 14 N69-24331
Radiation direction detector including means for compensating for photocell aging Patent
[NASA-CASE-XLA-00183] c 14 N70-40239
Interferometer direction sensor Patent
[NASA-CASE-NPO-10320] c 14 N71-17655
Omnidirectional acceleration device Patent
[NASA-CASE-HQN-10780] c 14 N71-30265
Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056
Direction sensitive laser velocimeter --- determining the direction of particles using a helium-neon laser
[NASA-CASE-LAR-12177-1] c 36 N81-24422
System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075
BEARINGS
Alloys for bearings Patent
[NASA-CASE-XLE-05033] c 15 N71-23810
Bearing and gimbal lock mechanism and spiral flex lead module Patent
[NASA-CASE-GSC-10556-1] c 31 N71-26537
Device for measuring bearing preload
[NASA-CASE-MFS-20434] c 11 N72-25288
Magnetic bearing --- for supplying magnetic fluxes
[NASA-CASE-GSC-11079-1] c 37 N75-18574
Magnetic bearing system
[NASA-CASE-GSC-11978-1] c 37 N77-17464
Hydrostatic bearing support
[NASA-CASE-LEW-11158-1] c 37 N77-28486
Deformable bearing seat
[NASA-CASE-LEW-12527-1] c 37 N77-32500
Bearing seat usable in a gas turbine engine
[NASA-CASE-LEW-12477-1] c 37 N77-32501
Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482
Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587
Antenna grout replacement system
[NASA-CASE-NPO-15202-1] c 27 N83-34043
Magnetic bearing and motor
[NASA-CASE-GSC-12726-1] c 37 N83-34323
Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] c 37 N84-12492
Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N85-20299
Portable 90 degree proof loading device
[NASA-CASE-MSC-20250-1] c 35 N86-19581
BEDS (PROCESS ENGINEERING)
Catalyst bed removing tool Patent
[NASA-CASE-XFR-00811] c 15 N70-36901
BEER LAW
A multichannel photoionization chamber for absorption analysis Patent
[NASA-CASE-ERC-10044-1] c 14 N71-27090
BEES
Decontamination of petroleum products Patent
[NASA-CASE-XNP-03835] c 06 N71-23499
BELLOWS
Balanced bellows spirometer
[NASA-CASE-XAR-01547] c 05 N69-21473
Printed circuit board with bellows rivet connection Patent
[NASA-CASE-XNP-05082] c 15 N70-41960
Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937
Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c 37 N75-19686
Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N84-25164
Shoulder and hip joint for hard space suits and the like
[NASA-CASE-ARC-11534-1] c 54 N84-33021
BELTS
Apparatus for forming drive belts
[NASA-CASE-NPO-13205-1] c 31 N74-32917
BENDING
Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436
Means for suppressing or attenuating bending motion of elastic bodies Patent
[NASA-CASE-XAC-05632] c 32 N71-23971
Technique of elbow bending small jacketed transfer lines Patent
[NASA-CASE-XNP-10475] c 15 N71-24679
Forming tool for ribbon or wire
[NASA-CASE-XLA-05966] c 15 N72-12408
BENDING DIAGRAMS
Electrostatic charged particle analyzer having deflection members shaped according to the periodic voltage applied thereto Patent
[NASA-CASE-XAC-05506-1] c 24 N71-16095
BENDING FATIGUE
Apparatus for positioning and loading a test specimen Patent
[NASA-CASE-XLE-01300] c 15 N70-41993
Low temperature flexure fatigue cryostat Patent
[NASA-CASE-XMF-02964] c 14 N71-17659
BENDING MOMENTS
Missile launch release system Patent
[NASA-CASE-XMF-03198] c 30 N70-40353
Compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] c 37 N86-19606
BENDING VIBRATION
Viscous pendulum damper Patent
[NASA-CASE-LAR-10274-1] c 14 N71-17626
BENZENE
Intumescent composition, foamed product prepared therewith, and process for making same
[NASA-CASE-ARC-10304-1] c 18 N73-26572
The 1 - (dialkoxyphosphonyl)methyl -2,4- and -2,6-dinitro- and diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-1] c 23 N83-28076
Fire resistant polymers based on 1-((dialkoxyphosphonyl)methyl)-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11512-1] c 27 N84-20702
BERYLLIUM ALLOYS
Corrosion resistant beryllium Patent
[NASA-CASE-LEW-10327] c 17 N71-33408
Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015

BERYLLIUM HYDRIDES
Inhibited solid propellant composition containing beryllium hydride
[NASA-CASE-NPO-10866-1] c 28 N79-14228
BERYLLIUM OXIDES
High temperature beryllium oxide capacitor
[NASA-CASE-LEW-11938-1] c 33 N76-15373
High modulus invert analog glass compositions containing beryllia
[NASA-CASE-HQN-10931-2] c 27 N82-29452
High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455
BIMETALS
Nonmagnetic thermal motor for a magnetometer
[NASA-CASE-XAR-03786] c 09 N69-21313
Thermostatic actuator
[NASA-CASE-NPO-10637] c 15 N72-12409
Thermal motor
[NASA-CASE-NPO-11283] c 09 N72-25260
Thermal compensating structural member
[NASA-CASE-MFS-20433] c 15 N72-28496
Bimetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c 35 N74-15126
Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c 35 N77-32454
BINARY CODES
Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773
Parallel generation of the check bits of a PN sequence Patent
[NASA-CASE-XNP-04623] c 10 N71-26103
Encoder/decoder system for a rapidly synchronizable binary code Patent
[NASA-CASE-NPO-10342] c 10 N71-33407
Binary coded sequential acquisition ranging system
[NASA-CASE-NPO-11194] c 08 N72-25209
Binary concatenated coding system
[NASA-CASE-MSC-14082-1] c 60 N76-23850
Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289
Pseudo noise code and data transmission method and apparatus
[NASA-CASE-GSC-12017-1] c 32 N77-30308
Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c 60 N78-17691
Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c 33 N79-11313
BINARY DATA
Binary magnetic memory device Patent
[NASA-CASE-XGS-00174] c 08 N70-34743
Ripple add and ripple subtract binary counters Patent
[NASA-CASE-XGS-04766] c 08 N71-18602
Computing apparatus Patent
[NASA-CASE-XGS-04765] c 08 N71-18693
Digital synchronizer Patent
[NASA-CASE-NPO-10851] c 07 N71-24613
Differential phase shift keyed communication system
[NASA-CASE-MSC-14065-1] c 32 N74-26654
Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c 32 N75-24981
Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c 60 N78-17691
BINARY DIGITS
Logarithmic converter Patent
[NASA-CASE-XLA-00471] c 08 N70-34778
Full binary adder Patent
[NASA-CASE-XGS-00689] c 08 N70-34787
Binary number sorter Patent
[NASA-CASE-NPO-10112] c 08 N71-12502
Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505
Display for binary characters Patent
[NASA-CASE-XGS-04987] c 08 N71-20571
Comparator for the comparison of two binary numbers Patent
[NASA-CASE-XNP-04819] c 08 N71-23295
High speed direct binary to binary coded decimal converter and scaler
[NASA-CASE-KSC-10595] c 08 N73-12176
A m-ary linear feedback shift register with binary logic
[NASA-CASE-NPO-11868] c 10 N73-20254
Binary concatenated coding system
[NASA-CASE-MSC-14082-1] c 60 N76-23850
BINARY FLUIDS
Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c 35 N75-30503
BINARY TO DECIMAL CONVERTERS
Binary to binary-coded-decimal converter Patent
[NASA-CASE-XNP-00432] c 08 N70-35423
High speed binary to decimal conversion system Patent
[NASA-CASE-XGS-01230] c 08 N71-19544
BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890
High speed direct binary-to-binary coded decimal converter
[NASA-CASE-KSC-10326] c 08 N72-21197
Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c 60 N78-17691
BINDERS (MATERIALS)
Bonded solid lubricant coating Patent
[NASA-CASE-XMS-00259] c 18 N70-36400
Brazing alloy binder
[NASA-CASE-XMF-05868] c 26 N75-27125
Alkali-metal silicate binders and methods of manufacture
[NASA-CASE-GSC-12303-1] c 24 N79-31347
BINOCULARS
Binocular device for displaying numerical information in field of view
[NASA-CASE-LAR-11782-1] c 74 N77-20882
BIOASSAY
Apparatus for producing three-dimensional recordings of flourescence spectra Patent
[NASA-CASE-XGS-01231] c 14 N70-41676
Flavin coenzyme assay
[NASA-CASE-GSC-10565-1] c 06 N72-25149
Method of detecting and counting bacteria in body fluids
[NASA-CASE-GSC-11092-2] c 04 N73-27052
Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844
Servo-controlled intravital microscope system
[NASA-CASE-NPO-13214-1] c 35 N75-25123
Method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c 51 N76-29891
Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] c 52 N79-12694
Determination of antimicrobial susceptibilities on infected urines without isolation
[NASA-CASE-GSC-12046-1] c 52 N79-14750
Method and apparatus for eliminating luminol interference material
[NASA-CASE-MSC-16260-1] c 51 N80-16714
BIODEGRADATION
Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654
BIODYNAMICS
Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772
Kinesimetric method and apparatus
[NASA-CASE-MSC-18929-1] c 39 N83-20280
BIOELECTRIC POTENTIAL
Electrode for biological recording
[NASA-CASE-XMS-02872] c 05 N69-21925
Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MSC-90153-2] c 05 N72-25120
Process for control of cell division
[NASA-CASE-LAR-10773-3] c 51 N77-25769
BIOELECTRICITY
Plated electrodes Patent
[NASA-CASE-XMS-04213-1] c 09 N71-26002
Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698
BIOENGINEERING
Bio-isolated dc operational amplifier --- for bioelectric measurements
[NASA-CASE-ARC-10596-1] c 33 N74-21851
Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c 52 N77-14735
Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738
Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772
Subcutaneous electrode structure
[NASA-CASE-ARC-11117-1] c 52 N81-14612
Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N81-24711
Bio-medical flow sensor --- intrvenous procedures
[NASA-CASE-MSC-18761-1] c 52 N83-27577
Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744
Medical clip
[NASA-CASE-LAR-12650-1] c 52 N84-28388
BIOINSTRUMENTATION
Temperature compensated solid state differential amplifier Patent
[NASA-CASE-XAC-00435] c 09 N70-35440
Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193
Pressed disc type sensing electrodes with ion- screening means Patent
[NASA-CASE-XMS-04212-1] c 05 N71-12346
EEG sleep analyzer and method of operation Patent
[NASA-CASE-MSC-13282-1] c 05 N71-24729
Plated electrodes Patent
[NASA-CASE-XMS-04213-1] c 09 N71-26002
Ultrasonic biomedical measuring and recording apparatus --- for recording motion of internal organs such as heart valves
[NASA-CASE-ARC-10597-1] c 52 N74-20726
Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329
Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13643-1] c 52 N76-29896
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-1] c 52 N76-33835
Thermistor holder for skin temperature measurements
[NASA-CASE-ARC-10855-1] c 52 N77-10780
Magnetic electrical connectors for biomedical percutaneous implants
[NASA-CASE-KSC-11030-1] c 52 N77-25772
Corneal seal device
[NASA-CASE-LEW-12258-1] c 52 N77-28716
Snap-in compressible biomedical electrode
[NASA-CASE-MSC-14623-1] c 52 N77-28717
Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580
Induction powered biological radiosonde
[NASA-CASE-ARC-11120-1] c 52 N80-18691
Pulse transducer with artifact signal attenuator --- heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969
Method and automated apparatus for detecting coliform organisms
[NASA-CASE-MSC-16777-1] c 51 N80-27067
Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072
Logic-controlled occlusive cuff system
[NASA-CASE-MSC-14836-1] c 52 N82-11770
Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863
BIOLUMINESCENCE
Light detection instrument Patent
[NASA-CASE-XGS-05534] c 23 N71-16355
Lyophilized reaction mixtures Patent
[NASA-CASE-XGS-05532] c 06 N71-17705
Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22794
Rapid, quantitative determination of bacteria in water --- adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569
BIOMEDICAL DATA
Biomedical radiation detecting probe Patent
[NASA-CASE-XMS-01177] c 05 N71-19440
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-2] c 52 N79-26771
BIOMETRICS
Pressed disc type sensing electrodes with ion- screening means Patent
[NASA-CASE-XMS-04212-1] c 05 N71-12346
Compressible biomedical electrode
[NASA-CASE-MSC-13648] c 05 N72-27103
Ultrasonic biomedical measuring and recording apparatus --- for recording motion of internal organs such as heart valves
[NASA-CASE-ARC-10597-1] c 52 N74-20726
Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27566
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-1] c 52 N76-33835
Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-2] c 52 N79-26771
Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072
Multifunctional transducer
[NASA-CASE-NPO-14329-1] c 52 N81-20703
Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763
BIOTELEMETRY
Telemeter adaptable for implanting in an animal Patent
[NASA-CASE-XAC-05706] c 05 N71-12342
Miniature multichannel biotelemeter system
[NASA-CASE-NPO-13065-1] c 52 N74-26625

Medical subject monitoring systems --- multichannel monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757
Accelerometer telemetry system
[NASA-CASE-ARC-10849-1] c 17 N76-29347
Miniature ingestible telemeter devices to measure deep-body temperature
[NASA-CASE-ARC-10583-1] c 52 N76-29894

BIPOLAR TRANSISTORS
Voltage regulator for battery power source --- using a bipolar transistor
[NASA-CASE-FRC-10116-1] c 33 N79-23345
Power converter
[NASA-CASE-FRC-11014-1] c 33 N82-18494

BIREFRINGENCE
Polarimeter for transient measurement Patent
[NASA-CASE-XNP-08883] c 23 N71-16101

BISMUTH
Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c 76 N79-16678

BISMUTH COMPOUNDS
Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c 35 N75-13213

BISTABLE CIRCUITS
AC logic flip-flop circuits Patent
[NASA-CASE-XGS-00823] c 10 N71-15910

BIT SYNCHRONIZATION
Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333
Transition tracking bit synchronization system
[NASA-CASE-NPO-10844] c 07 N72-20140
Apparatus for deriving synchronizing pulses from pulses in a single channel PCM communications system
[NASA-CASE-NPO-11302-1] c 07 N73-13149
Method and apparatus for a single channel digital communications system --- synchronization of received PCM signal by digital correlation with reference signal
[NASA-CASE-NPO-11302-2] c 32 N74-10132

BITERNARY CODE
Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917

BITS
Parallel generation of the check bits of a PN sequence Patent
[NASA-CASE-XNP-04623] c 10 N71-26103
MOD 2 sequential function generator for multibit binary sequence
[NASA-CASE-NPO-10636] c 08 N72-25210
Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c 32 N79-10263

BITUMENS
Oil shale extraction using super-critical extraction
[NASA-CASE-NPO-15656-1] c 43 N84-23012

BLACK BODY RADIATION
Black-body furnace Patent
[NASA-CASE-XLE-01399] c 33 N71-15625
Cavity radiometer Patent
[NASA-CASE-XNP-08961] c 14 N71-24809
Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475
Black body cavity radiometer Patent
[NASA-CASE-NPO-10810] c 14 N71-27323
Stable density stratification solar pond
[NASA-CASE-NPO-15419-2] c 44 N85-30474

BLADDER
Prosthetic urinary sphincter
[NASA-CASE-MFS-23717-1] c 52 N81-25660

BLADE TIPS
Modification and improvements to cooled blades Patent
[NASA-CASE-XLE-00092] c 15 N70-33264
Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560
Oxidizing seal for a turbine tip gas path
[NASA-CASE-LEW-14053-1] c 37 N85-34402

BLADES
Impact absorbing blade mounts for variable pitch blades
[NASA-CASE-LEW-12313-1] c 37 N78-10468

BLADES (CUTTERS)
Line cutter Patent
[NASA-CASE-XMS-04072] c 15 N70-42017
Tissue macerating instrument
[NASA-CASE-LEW-12668-1] c 52 N78-14773
Crystal cleaving machine
[NASA-CASE-GSC-12584-1] c 37 N82-32730

BLAST LOADS
Linear explosive comparison
[NASA-CASE-LAR-10800-1] c 33 N72-27959

BLOOD
Reduction of blood serum cholesterol
[NASA-CASE-NPO-12119-1] c 52 N75-15270
Gas diffusion liquid storage bag and method of use for storing blood
[NASA-CASE-NPO-13930-1] c 52 N79-14749
Dialysis system --- using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687

BLOOD FLOW
Logic-controlled occlusive cuff system
[NASA-CASE-MSC-14836-1] c 52 N82-11770

BLOOD PRESSURE
Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
[NASA-CASE-XMS-06061] c 05 N71-23317
Apparatus and method for processing Korotkov sounds --- for blood pressure measurement
[NASA-CASE-MSC-13999-1] c 52 N74-26626
Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27566
Circuit for detecting initial systole and dicrotic notch --- for monitoring arterial pressure
[NASA-CASE-LEW-11581-1] c 54 N75-13531

BLOOD VESSELS
Non-invasive method and apparatus for measuring pressure within a pliable vessel
[NASA-CASE-ARC-11264-2] c 52 N83-29991

BLUFF BODIES
Annular supersonic decelerator or drogue Patent
[NASA-CASE-XLE-00222] c 02 N70-37939

BLUNT BODIES
Flow field simulation Patent
[NASA-CASE-LAR-11138] c 12 N71-20436

BODIES OF REVOLUTION
Conforming polisher for aspheric surface of revolution Patent
[NASA-CASE-XGS-02884] c 15 N71-22705
Moment of inertia test fixture Patent
[NASA-CASE-XGS-01023] c 14 N71-22992

BODY FLUIDS
Programmable physiological infusion
[NASA-CASE-ARC-10447-1] c 52 N74-22771
Method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c 51 N76-29891
Micro-fluid exchange coupling apparatus
[NASA-CASE-ARC-11114-1] c 51 N81-14605

BODY KINEMATICS
Space suit having improved waist and torso movement
[NASA-CASE-ARC-10275-1] c 05 N72-22092
Controller arm for a remotely related slave arm
[NASA-CASE-ARC-11052-1] c 37 N79-28551
Kinesimetric method and apparatus
[NASA-CASE-MSC-18929-1] c 39 N83-20280

BODY MEASUREMENT (BIOLOGY)
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-1] c 52 N76-33835
Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580
Kinesimetric method and apparatus
[NASA-CASE-MSC-18929-1] c 39 N83-20280
Apparatus for determining changes in limb volume
[NASA-CASE-MSC-18759-1] c 52 N83-27578

BODY TEMPERATURE
Garments for controlling the temperature of the body Patent
[NASA-CASE-XMS-10269] c 05 N71-24147
Miniature ingestible telemeter devices to measure deep-body temperature
[NASA-CASE-ARC-10583-1] c 52 N76-29894
Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618

BODY VOLUME (BIOLOGY)
Whole body measurement systems --- for weightlessness simulation
[NASA-CASE-MSC-13972-1] c 52 N74-10975
Apparatus for determining changes in limb volume
[NASA-CASE-MSC-18759-1] c 52 N83-27578

BODY-WING CONFIGURATIONS
Free wing assembly for an aircraft
[NASA-CASE-FRC-10092-1] c 05 N79-12061
Means for controlling aerodynamically induced twist
[NASA-CASE-LAR-12175-1] c 05 N82-28279

BOILERS
Boiler for generating high quality vapor Patent
[NASA-CASE-XLE-00785] c 33 N71-16104
Shell side liquid metal boiler
[NASA-CASE-NPO-10831] c 33 N72-20915
Carbon granule probe microphone for leak detection --- recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597

BOLOMETERS
Insertion loss measuring apparatus having transformer means connected across a pair of bolometers Patent
[NASA-CASE-XNP-01193] c 10 N71-16057
Thin film capacitive bolometer and temperature sensor Patent
[NASA-CASE-NPO-10607] c 09 N71-27232
Wedge immersed thermistor bolometers
[NASA-CASE-XGS-01245-1] c 35 N79-33449

BOLTS
Gas actuated bolt disconnect Patent
[NASA-CASE-XLA-00326] c 03 N70-34667
Despin weight release Patent
[NASA-CASE-XLA-00679] c 15 N70-38601
Inspection gage for boss Patent
[NASA-CASE-XMF-04966] c 14 N71-17658
Split nut separation system Patent
[NASA-CASE-XNP-06914] c 15 N71-21489
Fastener stretcher
[NASA-CASE-GSC-11149-1] c 15 N73-30457
Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N84-20859

BONDING
Bonding graphite with fused silver chloride
[NASA-CASE-XGS-00963] c 15 N69-39735
Bonded joint and method --- for reducing peak shear stress in adhesive bonds
[NASA-CASE-LAR-10900-1] c 37 N74-23064
Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260
Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c 27 N76-14264
Bonding machine for forming a solar array strip
[NASA-CASE-NPO-13652-2] c 44 N79-24431
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143
Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235
Attachment system for silica tiles --- thermal protection for space shuttle orbiter
[NASA-CASE-MSC-18741-1] c 27 N82-29456
Surface texturing of fluoropolymers
[NASA-CASE-LEW-13028-1] c 27 N82-33521
Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] c 27 N84-14324
Insulation bonding test system
[NASA-CASE-MFS-25862-1] c 27 N85-20126
Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N86-19610
Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841

BONES
Ultrasonic bone densitometer
[NASA-CASE-MFS-20994-1] c 35 N75-12271
Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MSC-14276-1] c 52 N77-14737
Method of adhering bone to a rigid substrate using a graphite fiber reinforced bone cement
[NASA-CASE-NPO-13764-1] c 27 N78-17215

BOOMS (EQUIPMENT)
Folding boom assembly Patent
[NASA-CASE-XGS-00938] c 32 N70-41367
Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
Minimech self-deploying boom mechanism
[NASA-CASE-GSC-10566-1] c 15 N72-18477
Mechanically extendible telescoping boom
[NASA-CASE-NPO-11118] c 03 N72-25021
Extended moment arm anti-spin device
[NASA-CASE-LAR-12979-1] c 05 N85-21147

BOOSTER RECOVERY
Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176
Recoverable single stage spacecraft booster Patent
[NASA-CASE-XMF-01973] c 31 N70-41588
Oribter/launch system
[NASA-CASE-LAR-12250-1] c 14 N81-26161

BOOSTER ROCKET ENGINES
Segmented back-up bar Patent
[NASA-CASE-XMF-00640] c 15 N70-39924
Recoverable single stage spacecraft booster Patent
[NASA-CASE-XMF-01973] c 31 N70-41588
Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784

BOOTS (FOOTWEAR)
Walking boot assembly
[NASA-CASE-ARC-11101-1] c 54 N78-17675

BORIDES
Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734

BORING MACHINES
Boring bar drive mechanism Patent
[NASA-CASE-XLA-03661] c 15 N71-33518
Borehole geological assessment
[NASA-CASE-NPO-14231-1] c 46 N80-10709

BORON
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential of field effect device
[NASA-CASE-GSC-11425-1] c 76 N74-20329
BORON CARBIDES
Catalyst for growth of boron carbide single crystal whiskers
[NASA-CASE-XHQ-03903] c 15 N69-21922
BORON FLUORIDES
Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233
BOROSILICATE GLASS
Method for repair of thin glass coatings --- on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520
BOULES
Ingot slicing machine and method
[NASA-CASE-NPO-15483-1] c 37 N85-21650
BOUNDARY LAYER CONTROL
Double hinged flap Patent
[NASA-CASE-XLA-01290] c 02 N70-42016
Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968
BOUNDARY LAYER FLOW
Combined riblet and LEBU drag reduction system
[NASA-CASE-LAR-13286-1] c 02 N85-28922
BOUNDARY LAYER SEPARATION
Tertiary flow injection thrust vectoring system Patent
[NASA-CASE-MFS-20831] c 28 N71-29153
Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c 20 N76-14190
Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976
BOUNDARY LAYER TRANSITION
Detection of the transitional layer between laminar and turbulent flow areas on a wing surface --- using an accelerometer to measure pressure levels during wind tunnel tests
[NASA-CASE-LAR-12261-1] c 02 N80-20224
BOUNDARY LAYERS
Traversing probe Patent
[NASA-CASE-XFR-02007] c 12 N71-24692
Apparatus for sensing temperature
[NASA-CASE-XLE-05230] c 14 N72-27410
BOXES (CONTAINERS)
Storage container for electronic devices Patent
[NASA-CASE-MFS-20075] c 09 N71-26133
Double window viewing chamber assembly
[NASA-CASE-MFS-28057-1] c 09 N85-28951
BRACKETS
Electrical servo actuator bracket --- fuel control valves on jet engines
[NASA-CASE-FRC-11044-1] c 37 N81-33483
BRAKES (FOR ARRESTING MOTION)
Frangible tube energy dissipation Patent
[NASA-CASE-XLA-00754] c 15 N70-34850
Emergency escape system Patent
[NASA-CASE-XKS-07814] c 15 N71-27067
Sprag solenoid brake --- development and operations of electrically controlled brake
[NASA-CASE-MFS-21846-1] c 37 N74-26976
Reel safety brake
[NASA-CASE-GSC-11960-1] c 37 N77-14479
Motion restraining device
[NASA-CASE-NPO-13619-1] c 37 N78-16369
Moving body velocity arresting line --- stainless steel cables with energy absorbing sleeves
[NASA-CASE-LAR-12372-1] c 37 N82-18601
BRAKING
Regenerative braking system Patent
[NASA-CASE-XMF-01096] c 10 N71-16030
Linear magnetic brake with two windings Patent
[NASA-CASE-XLE-05079] c 15 N71-17652
Anemometer with braking mechanism Patent
[NASA-CASE-XMF-05224] c 14 N71-23726
BRAZING
Pretreatment method for anti-wettable materials
[NASA-CASE-XMS-03537] c 15 N69-21471
Process for applying a protective coating for salt bath brazing Patent
[NASA-CASE-XLE-00046] c 15 N70-33311
Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443
Brazing alloy Patent
[NASA-CASE-XNP-03063] c 17 N71-23365
Brazing alloy binder
[NASA-CASE-XMF-05868] c 26 N75-27125
Brazing alloy composition
[NASA-CASE-XMF-06053] c 26 N75-27126
Brazing alloy
[NASA-CASE-XNP-03878] c 26 N75-27127
Method of fluxless brazing and diffusion bonding of aluminum containing components
[NASA-CASE-MSC-14435-1] c 37 N76-18455
BREATHING APPARATUS
Transfer valve Patent
[NASA-CASE-XAC-01158] c 15 N71-23051
Self-contained breathing apparatus
[NASA-CASE-MSC-14733-1] c 54 N76-24900
Portable breathing system --- a breathing apparatus using a rebreathing system of heat exchangers for carbon dioxide removal
[NASA-CASE-MSC-16182-1] c 54 N80-10799
BRICKS
Foldable construction block
[NASA-CASE-MSC-12233-2] c 32 N73-13921
BRIGHTNESS
Light intensity modulator controller Patent
[NASA-CASE-XMS-04300] c 09 N71-19479
BRIGHTNESS DISCRIMINATION
Television signal processing system Patent
[NASA-CASE-NPO-10140] c 07 N71-24742
Visual examination apparatus
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Illumination control apparatus for compensating solar light
[NASA-CASE-KSC-11010-1] c 74 N79-12890
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Rock sampling --- apparatus for controlling particle size
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[NASA-CASE-XNP-09755] c 46 N74-23069
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[NASA-CASE-NPO-14857-1] c 27 N83-19900
Vinyl styrylpyridines and their copolymerization with bismaleimide resins
[NASA-CASE-ARC-11429-1-CU] c 27 N84-16341
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Broadband choke for antenna structure
[NASA-CASE-XMS-05303] c 07 N69-27462
Flexible blade antenna Patent
[NASA-CASE-MSC-12101] c 09 N71-18720
Broadband frequency discriminator Patent
[NASA-CASE-NPO-10096] c 07 N71-24583
Broadband microwave waveguide window Patent
[NASA-CASE-XNP-08880] c 09 N71-24808
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[NASA-CASE-NPO-10548] c 16 N71-24831
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Composite antenna feed
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Multifrequency broadband polarized horn antenna
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Broadband optical radiation detector
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Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
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[NASA-CASE-NPO-10003] c 10 N71-26415
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Toughening reinforced epoxy composites with brominated polymeric additives
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BRUSHES
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Shaft transducer having dc output proportional to angular velocity
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Method of forming frozen spheres in a force-free drop tower
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[NASA-CASE-XLA-01019] c 15 N70-40156
Compression test assembly
[NASA-CASE-LAR-10440-1] c 14 N73-32323
BUFFER STORAGE
Data handling system based on source significance, storage availability and data received from the source Patent Application
[NASA-CASE-XNP-04162-1] c 08 N70-34675
Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255
Buffered analog converter
[NASA-CASE-KSC-10397] c 08 N72-25206
Common data buffer system --- communication with computational equipment utilized in spacecraft operations
[NASA-CASE-KSC-11048-1] c 62 N81-24779
BUFFERS (CHEMISTRY)
Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187
BUILDINGS
Foldable construction block
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BULBS
External bulb variable volume maser
[NASA-CASE-GSC-12334-1] c 36 N79-14362
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Tank construction for space vehicles Patent
[NASA-CASE-XMF-01899] c 31 N70-41948
BUOYANCY
Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00893] c 07 N70-40063
BURNERS
Micronized coal burner facility
[NASA-CASE-LEW-13426-1] c 25 N84-16276
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Burning rate control of solid propellants Patent
[NASA-CASE-XLE-03494] c 27 N71-21819
Burn rate testing apparatus
[NASA-CASE-XMS-09690] c 33 N72-25913
Nitramine propellants --- gun propellant burning rate
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Test apparatus for locating shorts during assembly of electrical buses
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Channel-type shell construction for rocket engines and the like Patent
[NASA-CASE-XLE-00144] c 28 N70-34860
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Low power drain semi-conductor circuit
[NASA-CASE-XGS-04999] c 09 N69-24317
Helical coaxial resonator RF filter
[NASA-CASE-XGS-02816] c 07 N69-24323
Current regulating voltage divider
[NASA-CASE-MFS-20935] c 09 N71-34212
Use of unilluminated solar cells as shunt diodes for a solar array
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Shunt regulation electric power system
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Thrust reverser for a long duct fan engine --- for turbofan engines
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C

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Moving body velocity arresting line --- stainless steel cables with energy absorbing sleeves
[NASA-CASE-LAR-12372-1] c 37 N82-18601
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High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c 35 N74-18088
CDS solid state phase insensitive ultrasonic transducer --- annealing dadmium sulfide crystals
[NASA-CASE-LAR-12304-1] c 35 N80-20559
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[NASA-CASE-MSC-20036-1] c 76 N85-33826
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[NASA-CASE-MFS-20994-1] c 35 N75-12271
CALCIUM FLUORIDES
Bonded solid lubricant coating Patent
[NASA-CASE-XMS-00259] c 18 N70-36400
Method of making self lubricating fluoride- metal composite materials Patent
[NASA-CASE-XLE-08511-2] c 18 N71-16105
CALCIUM OXIDES
Process for the preparation of calcium superoxide
[NASA-CASE-ARC-11053-1] c 25 N79-10162
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[NASA-CASE-ERC-10338] c 04 N72-33072
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Self-calibrating displacement transducer Patent
[NASA-CASE-XLA-00781] c 09 N71-22999
Pressure transducer calibrator Patent
[NASA-CASE-XNP-01660] c 14 N71-23036
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[NASA-CASE-XMF-04134] c 14 N71-23755
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[NASA-CASE-XKS-10804] c 05 N71-24606
Laser calibrator Patent
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Radar calibration sphere
[NASA-CASE-XLA-11154] c 07 N72-21117
Gauge calibration by diffusion
[NASA-CASE-XGS-07752] c 14 N73-30390
System for calibrating pressure transducer
[NASA-CASE-LAR-10910-1] c 35 N74-13132
In situ transfer standard for ultrahigh vacuum gage calibration
[NASA-CASE-LAR-10862-1] c 35 N74-15092
Ergometer calibrator --- for any ergometer utilizing rotating shaft
[NASA-CASE-MFS-21045-1] c 35 N75-15932
Ultrasonic calibration device --- for producing changes in acoustic attenuation and phase velocity
[NASA-CASE-LAR-11435-1] c 35 N76-15432
High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c 35 N76-24523
Electronically scanned pressure sensor module with in SITU calibration capability
[NASA-CASE-LAR-12230-1] c 35 N79-14347
Calibrating pressure switch
[NASA-CASE-XMF-04494-1] c 33 N79-33392
Electromagnetic power absorber
[NASA-CASE-NPO-13830-1] c 32 N80-14281
Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c 34 N81-26402
Simulator scene display evaluation
[NASA-CASE-ARC-11504-1] c 09 N84-16221
Method and apparatus for precision control of radiometer
[NASA-CASE-NPO-15398-1] c 35 N84-22931
Spinning disk calibration method and apparatus for laser Doppler velocimeter
[NASA-CASE-ARC-11510-1] c 35 N84-25015
Strain gage calibration
[NASA-CASE-LAR-12743-1] c 35 N84-28019
Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] c 35 N84-33767
Method and apparatus for self-calibration and phasing of array antenna
[NASA-CASE-NPO-15920-1] c 33 N85-21493
Tone calibrated digital radio communication system
[NASA-CASE-NPO-16414-1-CU] c 32 N85-29121
Oscillating pressure device for dynamic calibration of pressure transducers
[NASA-CASE-LAR-13094-1] c 35 N85-29217
Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276
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[NASA-CASE-XMF-04208] c 33 N71-29051
Heat flow calorimeter --- measures output of Ni-Cd batteries
[NASA-CASE-GSC-11434-1] c 34 N74-27859
Containerless high temperature calorimeter apparatus
[NASA-CASE-MFS-23923-1] c 35 N81-19426
CAMERA SHUTTERS
Electrically-operated rotary shutter Patent
[NASA-CASE-XNP-00637] c 14 N70-40273
Fast opening diaphragm Patent
[NASA-CASE-XLA-03660] c 15 N71-21060
Cyclically operable optical shutter
[NASA-CASE-NPO-10758] c 14 N73-14427
Rotary solenoid shutter drive assembly and rotary inertia damper and stop plate assembly --- for use with cameras mounted in satellites
[NASA-CASE-GSC-11560-1] c 33 N74-20861
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[NASA-CASE-XLA-01987] c 23 N71-23976
Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03844-1] c 14 N71-26474
Film feed camera having a detent means Patent
[NASA-CASE-LAR-10686] c 14 N71-28935
Laser camera and diffusion filter therefore Patent
[NASA-CASE-NPO-10417] c 16 N71-33410
Optical binocular scanning apparatus
[NASA-CASE-NPO-11002] c 14 N72-22441
On-film optical recording of camera lens settings
[NASA-CASE-MSC-12363-1] c 14 N73-26431
Exposure interlock for oscilloscope cameras
[NASA-CASE-LAR-10319-1] c 14 N73-32322
Real time moving scene holographic camera system
[NASA-CASE-MFS-21087-1] c 35 N74-17153
Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
Spectrometer integrated with a facsimile camera
[NASA-CASE-LAR-11207-1] c 35 N75-19613
Real time, large volume, moving scene holographic camera system
[NASA-CASE-MFS-22537-1] c 35 N75-27328
Holographic motion picture camera with Doppler shift compensation
[NASA-CASE-MFS-22517-1] c 35 N76-18402
CAMS
Controlled caging and uncaging mechanism
[NASA-CASE-GSC-11063-1] c 37 N77-27400
Cam-operated pitch-change apparatus
[NASA-CASE-LEW-13050-1] c 07 N79-14095
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[NASA-CASE-LAR-11932-1] c 05 N78-32086
Missile rolling tail brake torque system --- simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231
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[NASA-CASE-NPO-13935-1] c 52 N79-14751
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[NASA-CASE-NPO-14549-2] c 52 N82-33996
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[NASA-CASE-ARC-10813-1] c 27 N76-16230
Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330
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[NASA-CASE-FRC-11065-1] c 05 N83-19737
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[NASA-CASE-XLA-01446] c 15 N71-21528
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[NASA-CASE-NPO-10812] c 15 N73-13464
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[NASA-CASE-LEW-12569-1] c 37 N79-10418
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Deployable solar cell array
[NASA-CASE-NPO-10883] c 31 N72-22874
Miniature biaxial strain transducer
[NASA-CASE-LAR-11648-1] c 35 N77-14407
CAPACITANCE
Device for determining the accuracy of the flare on a flared tube
[NASA-CASE-XKS-03495] c 14 N69-39785
Floating two force component measuring device Patent
[NASA-CASE-XAC-04885] c 14 N71-23790
Thin film capacitive bolometer and temperature sensor Patent
[NASA-CASE-NPO-10607] c 09 N71-27232
Capacitive tank gaging apparatus being independent of liquid distribution
[NASA-CASE-MFS-21629] c 14 N72-22442
Capacitance multiplier and filter synthesizing network
[NASA-CASE-NPO-11948-1] c 33 N74-32712
Direct reading inductance meter
[NASA-CASE-NPO-13792-1] c 35 N77-32455
Dynamic capacitor having a peripherally driven element and system incorporating the same
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CAPACITANCE SWITCHES
Electrical discharge apparatus for forming Patent
[NASA-CASE-XMF-00375] c 15 N70-34249
Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00381] c 09 N70-34819
Feedback integrator with grounded capacitor Patent
[NASA-CASE-XAC-10607] c 10 N71-23669
CAPACITORS
Temperature sensitive capacitor device
[NASA-CASE-XNP-09750] c 14 N69-39937
Space vehicle electrical system Patent
[NASA-CASE-XMF-00517] c 03 N70-34157
Apparatus having coaxial capacitor structure for measuring fluid density Patent
[NASA-CASE-XLE-00143] c 14 N70-36618
Meteoroid sensing apparatus having a coincidence network connected to a pair of capacitors Patent
[NASA-CASE-XLE-01246] c 14 N71-10797
Capacitor and method of making same Patent
[NASA-CASE-LEW-10364-1] c 09 N71-13522
Measurement of time differences between luminous events Patent
[NASA-CASE-XLA-01987] c 23 N71-23976
Ripple indicator
[NASA-CASE-KSC-10162] c 09 N72-11225
Thermodielectric radiometer utilizing polymer film
[NASA-CASE-ARC-10138-1] c 14 N72-24477
Screened circuit capacitors
[NASA-CASE-LAR-10294-1] c 26 N72-28762
Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477
Insulated electrocardiographic electrodes --- without paste electrolyte
[NASA-CASE-MSC-14339-1] c 05 N75-24716
High temperature beryllium oxide capacitor
[NASA-CASE-LEW-11938-1] c 33 N76-15373
Energy storage apparatus
[NASA-CASE-GSC-12030-1] c 44 N78-24608
Regulated high efficiency, lightweight capacitor-diode multiplier dc to dc converter
[NASA-CASE-LEW-12791-1] c 33 N78-32341

Dynamic capacitor having a peripherally driven element and system incorporating the same
[NASA-CASE-XNP-02899-1] c 33 N79-21265
Laser activated MTOS microwave device
[NASA-CASE-NPO-16112-1] c 33 N86-19516
A water-absorbing capacitor system for measuring relative humidity
[NASA-CASE-NPO-16544-1-CU] c 35 N86-20755

CAPILLARY FLOW
Capillary radiator Patent
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Soldering device Patent
[NASA-CASE-XLA-08911] c 15 N71-27214
Capillary flow weld-bonding
[NASA-CASE-LAR-11726-1] c 37 N76-27568

CAPILLARY TUBES
Fluid flow restrictor Patent
[NASA-CASE-NPO-10117] c 15 N71-15608
Water separating system Patent
[NASA-CASE-XMS-13052] c 14 N71-20427
Mercury capillary interrupter Patent
[NASA-CASE-XNP-02251] c 12 N71-20896
Diffused waveguiding capillary tube with distributed feedback for a gas laser
[NASA-CASE-NPO-13544-1] c 36 N76-18428
Low loss splicing method for single-mode optical fiber
[NASA-CASE-NPO-16294-1] c 74 N84-33179

CARBAZOLES
Method of using photovoltaic cell using poly-N-vinylcarbazole complex Patent
[NASA-CASE-NPO-10373] c 03 N71-18698

CARBIDES
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[NASA-CASE-XNP-03835] c 06 N71-23499

CARBON
Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184
Electrophotolysis oxidation system for measurement of organic concentration in water
[NASA-CASE-MSC-16497-1] c 25 N82-12166
Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] c 35 N84-17555
Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205
Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] c 31 N85-20153
Textured carbon surfaces on copper
[NASA-CASE-LEW-14130-1] c 31 N85-20156
Carbon granule probe microphone for leak detection --- recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597

CARBON ARCS
Water cooled contactor for anode in carbon arc mechanism
[NASA-CASE-XMS-03700] c 15 N69-24266
Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267

CARBON COMPOUNDS
Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00284] c 15 N71-16075
Surfactant-assisted liquefaction of particulate carbonaceous substances
[NASA-CASE-NPO-13904-1] c 25 N79-11152
Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695

CARBON DIOXIDE
Techniques for insulating cryogenic fuel containers Patent
[NASA-CASE-XLA-01967] c 31 N70-42015
Miniature carbon dioxide sensor and methods
[NASA-CASE-MSC-13332-1] c 14 N72-21408
Metabolic rate meter and method
[NASA-CASE-MSC-12239-1] c 52 N79-21750

CARBON DIOXIDE LASERS
Repetitively pulsed, wavelength selective laser Patent
[NASA-CASE-ERC-10178] c 16 N71-24832
Power supply for carbon dioxide lasers
[NASA-CASE-GSC-11222-1] c 16 N73-32391
Stark-effect modulation of CO2 laser with NH2D
[NASA-CASE-NPO-11945-1] c 36 N76-18427

CARBON DIOXIDE REMOVAL
Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c 25 N74-12813
Regenerable device for scrubbing breathable air of CO2 and moisture without special heat exchanger equipment
[NASA-CASE-MSC-14771-1] c 54 N77-32722
Portable breathing system --- a breathing apparatus using a rebreathing system of heat exchangers for carbon dioxide removal
[NASA-CASE-MSC-16182-1] c 54 N80-10799

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Low density bismaleimide-carbon microballoon composites
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[NASA-CASE-LEW-12119-1] c 37 N80-28711
Curing agent for polyepoxides and epoxy resins and composites cured therewith --- preventing carbon fiber release
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[NASA-CASE-NPO-14940-1] c 33 N83-31954
Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950
High resistance and raised modulus carbon fibers
[NASA-TM-76884] c 24 N85-25436

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CARBON-CARBON COMPOSITES
Lightweight piston
[NASA-CASE-LAR-13150-1] c 24 N85-28975
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267

CARBONACEOUS MATERIALS
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[NASA-CASE-NPO-15924-1] c 25 N85-35253

CARBONATES
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[NASA-CASE-MFS-10512] c 06 N73-30099
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[NASA-CASE-ARC-11326-1] c 25 N83-33977

CARBONIZATION
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[NASA-CASE-ARC-11261-1] c 24 N83-25789

CARBONYL COMPOUNDS
Coal desulfurization --- using iron pentacarbonyl
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CARBORANE
Process for the preparation of polycarboranylphosphazenes --- thermal insulation
[NASA-CASE-ARC-11176-2] c 27 N81-27271
Carboranylcyclotriphosphazenes and their polymers --- thermal insulation
[NASA-CASE-ARC-11176-1] c 27 N82-18389
Carboranylmethylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750

CARBOXYL GROUP
Novel polycarboxylic prepolymeric materials and polymers thereof Patent
[NASA-CASE-NPO-10596] c 06 N71-25929

CARBOXYLIC ACIDS
Preparation of polyimides from mixtures of monomeric diamines and esters of polycarboxylic acids
[NASA-CASE-LEW-11325-1] c 06 N73-27980
Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098
Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] c 27 N84-27884
Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144
Metal phthalocyanine intermediates for the preparation of polymers
[NASA-CASE-ARC-11405-2] c 27 N86-19455

CARCINOGENS
Apparatus for producing three-dimensional recordings of flourescence spectra Patent
[NASA-CASE-XGS-01231] c 14 N70-41676

CARDIAC VENTRICLES
Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c 52 N79-10724

CARDIOGRAPHY
Digital cardiotachometer system Patent
[NASA-CASE-XMS-02399] c 05 N71-22896
Reference apparatus for medical ultrasonic transducer
[NASA-CASE-ARC-10753-1] c 54 N75-27760

CARDIOLOGY
Ratemeter
[NASA-CASE-MFS-20418] c 14 N73-24473
Myocardium wall thickness transducer and measuring method
[NASA-CASE-NPO-13644-1] c 52 N76-29895

CARDIOTACHOMETERS
Digital computing cardiotachometer
[NASA-CASE-MFS-20284-1] c 52 N74-12778

CARDIOVASCULAR SYSTEM
G conditioning suit Patent
[NASA-CASE-XLA-02898] c 05 N71-20268
Method and apparatus for continuously monitoring blood oxygenation, blood pressure, pulse rate and the pressure pulse curve utilizing an ear oximeter as transducer Patent
[NASA-CASE-XAC-05422] c 04 N71-23185
Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13643-1] c 52 N76-29896
Medical clip
[NASA-CASE-LAR-12650-1] c 52 N84-28388

CARGO
Portable pallet weighing apparatus
[NASA-CASE-GSC-12789-1] c 35 N85-20294

CARRIER FREQUENCIES
Bi-carrier demodulator with modulation Patent
[NASA-CASE-XMF-01160] c 07 N71-11298
Automatic carrier acquisition system
[NASA-CASE-NPO-11628-1] c 07 N73-30113
Demodulator for carrier transducers
[NASA-CASE-NUC-10107-1] c 33 N74-17930
Decision feedback loop for tracking a polyphase modulated carrier
[NASA-CASE-NPO-13103-1] c 32 N74-20811
Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539

CARRIER LIFETIME
Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888
Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-163371-1] c 33 N85-20251

CARRIER WAVES
Variable frequency oscillator with temperature compensation Patent
[NASA-CASE-XNP-03916] c 09 N71-28810
Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c 32 N75-24981

CARRIERS
Storage container for electronic devices Patent
[NASA-CASE-MFS-20075] c 09 N71-26133
Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-MFS-21394-1] c 34 N74-27744

CARTESIAN COORDINATES
Random function tracer Patent
[NASA-CASE-XLA-01401] c 15 N71-21179

CARTRIDGES
Endless tape cartridge Patent
[NASA-CASE-XGS-00769] c 14 N70-41647
Endless tape transport mechanism Patent
[NASA-CASE-XGS-01223] c 07 N71-10609
Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c 25 N74-12813

CASCADE CONTROL
Reversible ring counter employing cascaded single SCR stages Patent
[NASA-CASE-XGS-01473] c 09 N71-10673
Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10065-1] c 10 N71-27136
Multiloop RC active filter apparatus having low parameter sensitivity with low amplifier gain
[NASA-CASE-ARC-10192] c 09 N72-21245

CASCADE FLOW
Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c 07 N76-18117
Thrust reverser for a long duct fan engine --- for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293
Degassifying and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MSC-18936-1] c 35 N83-29652

CASE BONDED PROPELLANTS
Solid propellant motor
[NASA-CASE-NPO-11458A] c 20 N78-32179

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Non-magnetic battery case Patent
[NASA-CASE-XGS-00886] c 03 N71-11053
Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c 73 N75-30876
Portable heatable container
[NASA-CASE-NPO-14237-1] c 44 N80-20808

CASSEGRAIN ANTENNAS
Cassegrainian antenna subflector flange for suppressing ground noise Patent
[NASA-CASE-XNP-00683] c 09 N70-35425

Multi-feed cone Cassegrain antenna Patent
[NASA-CASE-NPO-10539] c 07 N71-11285
Millimeter wave radiometer for radio astronomy Patent
[NASA-CASE-XNP-09832] c 30 N71-23723
Dual frequency microwave reflex feed
[NASA-CASE-NPO-13091-1] c 09 N73-12214
Low loss dichroic plate
[NASA-CASE-NPO-13171-1] c 32 N74-11000

CASTING
Hydraulic casting of liquid polymers Patent
[NASA-CASE-XNP-07659] c 06 N71-22975
Texturing polymer surfaces by transfer casting --- *cardiovascular prosthesis*
[NASA-CASE-LEW-13120-1] c 27 N82-28440

CASTINGS
Method of making an apertured casting --- using duplicate mold
[NASA-CASE-LEW-11169-1] c 37 N76-23570

CATALYSIS
Decomposition unit Patent
[NASA-CASE-XMS-00583] c 28 N70-38504
Apparatus for photon excited catalysis
[NASA-CASE-NPO-13566-1] c 25 N77-32255
Start up system for hydrogen generator used with an internal combustion engine
[NASA-CASE-NPO-13849-1] c 28 N80-10374

CATALYSTS
Catalyst for growth of boron carbide single crystal whiskers
[NASA-CASE-XHQ-03903] c 15 N69-21922
Catalyst bed removing tool Patent
[NASA-CASE-XFR-00811] c 15 N70-36901
Ignition means for monopropellant Patent
[NASA-CASE-XNP-00876] c 28 N70-41311
Hydrogen leak detection device Patent
[NASA-CASE-MFS-11537] c 14 N71-20442
Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c 25 N74-12813
Catalysts for polyimide foams from aromatic isocyanates *and aromatic dianhydrides --- flame retardant foams*
[NASA-CASE-ARC-11107-1] c 25 N80-16116
Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950
Photoelectrochemical electrodes
[NASA-CASE-NPO-15458-1] c 25 N84-12262
Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721

CATALYTIC ACTIVITY
Diesel engine catalytic combustor system --- aircraft engines
[NASA-CASE-LEW-12995-1] c 37 N84-33808

CATHETERIZATION
Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597
Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13643-1] c 52 N76-29896
Ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-1] c 52 N83-21785
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095

CATHODE RAY TUBES
Single or joint amplitude distribution analyzer Patent
[NASA-CASE-XNP-01383] c 09 N71-10659
Display for binary characters Patent
[NASA-CASE-XGS-04987] c 08 N71-20571
Electron beam tube containing a multiple cathode array employing indexing means for cathode substitution Patent
[NASA-CASE-NPO-10625] c 09 N71-26182
Color television systems using a single gun color cathode ray tube Patent
[NASA-CASE-ERC-10098] c 09 N71-28618
High contrast cathode ray tube
[NASA-CASE-ERC-10468] c 09 N72-20206
Digital video display system using cathode ray tube
[NASA-CASE-NPO-11342] c 09 N72-25248
CRT blanking and brightness control circuit
[NASA-CASE-KSC-10647-1] c 10 N72-31273
Display system
[NASA-CASE-ERC-10350] c 14 N73-20474
Very high intensity light source using a cathode ray tube --- electron beams
[NASA-CASE-XNP-01296] c 33 N75-27250

CATHODES
Ion thruster cathode Patent Application
[NASA-CASE-LEW-10814-1] c 28 N70-35422
Electronic cathode having a brush-like structure and a relatively thick oxide emissive coating Patent
[NASA-CASE-XLE-04501] c 09 N71-23190
Heat activated cell with alkali anode and alkali salt electrolyte Patent
[NASA-CASE-LEW-11358] c 03 N71-26084
Ion thruster with a combination keeper electrode and electron baffle
[NASA-CASE-NPO-11880] c 28 N73-24783
Storage battery comprising negative plates of a wedge *shaped configuration --- for preventing* shape change induced malfunctions
[NASA-CASE-NPO-11806-1] c 44 N74-19693
Apparatus for mounting a field emission cathode
[NASA-CASE-LEW-14108-1] c 33 N85-29149
Cathode for primary battery
[NASA-CASE-NPO-16397-1-CU] c 33 N86-19517
Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680

CATIONS
Ionene membrane separator
[NASA-CASE-NPO-11091] c 18 N72-22567
Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104

CAVITATION FLOW
Semitoroidal diaphragm cavitating valve Patent
[NASA-CASE-XNP-09704] c 12 N71-18615

CAVITIES
Black body cavity radiometer Patent
[NASA-CASE-NPO-10810] c 14 N71-27323
Method of coating through-holes Patent
[NASA-CASE-XMF-05999] c 15 N71-29032
Burrowing apparatus
[NASA-CASE-XNP-07169] c 15 N73-32362
Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276
Method of making hollow elastomeric bodies
[NASA-CASE-NPO-13535-1] c 37 N76-31524
Method and apparatus for producing concentric hollow spheres --- inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319
Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MSC-18606-1] c 32 N82-11336
High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523
Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143

CAVITY RESONATORS
Helical coaxial resonator RF filter
[NASA-CASE-XGS-02816] c 07 N69-24323
System for improving signal-to-noise ratio of a communication signal Patent Application
[NASA-CASE-MSC-12259-1] c 07 N70-12616
Temperature-compensating means for cavity resonator of amplifier Patent
[NASA-CASE-XNP-00449] c 14 N70-35220
Holder for crystal resonators Patent
[NASA-CASE-XNP-03637] c 15 N71-21311
System for improving signal-to-noise ratio of a communication signal
[NASA-CASE-MSC-12259-2] c 07 N72-33146
Infrared tunable laser
[NASA-CASE-ARC-10463-1] c 09 N73-32111
Tunable cavity resonator with ramp shaped supports
[NASA-CASE-HQN-10790-1] c 36 N74-11313
Laser apparatus
[NASA-CASE-GSC-12237-1] c 36 N80-14384
Laser Resonator
[NASA-CASE-GSC-12565-1] c 36 N84-14509
Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] c 36 N84-28065
Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143

CELESTIAL BODIES
Device for determining relative angular position between a spacecraft and a radiation emitting celestial body
[NASA-CASE-GSC-11444-1] c 14 N73-28490
Position determination systems --- using orbital antenna scan of celestial bodies
[NASA-CASE-MSC-12593-1] c 17 N76-21250

CELESTIAL NAVIGATION
Radiant energy intensity measurement system Patent
[NASA-CASE-XNP-06510] c 14 N71-23797

CELL ANODES
Heat activated cell Patent
[NASA-CASE-LEW-11359] c 03 N71-28579
Method of making emf cell
[NASA-CASE-LEW-11359-2] c 03 N72-20034
Electrically rechargeable REDOX flow cell
[NASA-CASE-LEW-12220-1] c 44 N77-14581

CELL DIVISION
Process for control of cell division
[NASA-CASE-LAR-10773-3] c 51 N77-25769

CELLS
Mixture separation cell Patent
[NASA-CASE-XMS-02952] c 18 N71-20742

CELLS (BIOLOGY)
System for and method of freezing biological tissue
[NASA-CASE-GSC-12173-1] c 51 N79-10694
Method for separating biological cells --- suspended in aqueous polymer systems
[NASA-CASE-MFS-23883-1] c 51 N80-16715
Electrophoresis device
[NASA-CASE-MFS-25426-1] c 25 N83-10126

CELLULOSE
Process of treating cellulosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641
Separator for alkaline electric cells and method of making
[NASA-CASE-GSC-10017-1] c 44 N82-24643
Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645
Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370

CELLULOSE NITRATE
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267

CENTRAL PROCESSING UNITS
Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651

CENTRIFUGAL COMPRESSORS
Centrifugal-reciprocating compressor
[NASA-CASE-NPO-14597-2] c 37 N84-28081

CENTRIFUGAL FORCE
Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090

CENTRIFUGES
Centrifuge mounted motion simulator Patent
[NASA-CASE-XAC-00399] c 11 N70-34815
Separator Patent
[NASA-CASE-XLA-00415] c 15 N71-16079
Centrifugal lyophobic separator
[NASA-CASE-LAR-10194-1] c 34 N74-30608
Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c 34 N75-26282
Biocentrifuge system capable of exchanging specimen cages while in operational mode
[NASA-CASE-MFS-23825-1] c 51 N81-32829

CERAMIC BONDING
Method of making a diffusion bonded refractory coating Patent
[NASA-CASE-XLE-01604-2] c 15 N71-15610
Method of forming ceramic to metal seal Patent
[NASA-CASE-XNP-01263-2] c 15 N71-26312

CERAMIC COATINGS
Evaporant holder
[NASA-CASE-XLA-03105] c 15 N69-27483
Unfired-ceramic flame-resistant insulation and method of making the same Patent
[NASA-CASE-XMF-01030] c 18 N70-41583
Ceramic insulation for radiant heating environments and method of preparing the same Patent
[NASA-CASE-MFS-14253] c 33 N71-24858
Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729
Two-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-1] c 27 N76-22377
Three-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-2] c 27 N76-23426
Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492
Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996
Thermal barrier coating system having improved adhesion
[NASA-CASE-LEW-1335901] c 27 N83-31855
Thermal barrier coating system
[NASA-CASE-LEW-13324-2] c 24 N85-21266

CERAMIC NUCLEAR FUELS
Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729

CERAMICS
Transpiration cooled turbine blade manufactured from wires Patent
[NASA-CASE-XLE-00020] c 15 N70-33226
Foamed in place ceramic refractory insulating material Patent
[NASA-CASE-XGS-02435] c 18 N71-22998
Method for fiberizing ceramic materials Patent
[NASA-CASE-XNP-00597] c 18 N71-23088
Method of coating through-holes Patent
[NASA-CASE-XMF-05999] c 15 N71-29032

Extrusion can
[NASA-CASE-NPO-10812] c 15 N73-13464
Thermal shock resistant hafnia ceramic material
[NASA-CASE-LAR-10894-1] c 18 N73-14584
Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c 27 N78-17206
High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302
Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles
[NASA-CASE-MSC-12619-2] c 27 N79-12221
High temperature resistant cermet and ceramic compositions
[NASA-CASE-NPO-13690-2] c 27 N79-14213
Sandblasting nozzle
[NASA-CASE-NPO-13823-1] c 37 N81-25371
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-2] c 37 N82-26674
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] c 27 N84-22748
Method of fabricating an abradable gas path seal
[NASA-CASE-LEW-13269-2] c 37 N84-22957
Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] c 27 N84-27886

CEREBROSPINAL FLUID
Ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-1] c 52 N83-21785
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095

CERMETS
Process of casting heavy slips Patent
[NASA-CASE-XLE-00106] c 15 N71-16076
Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729
Cermet composition and method of fabrication --- heat resistant alloys and powders
[NASA-CASE-NPO-13120-1] c 27 N76-15311
High temperature oxidation resistant cermet compositions
[NASA-CASE-NPO-13666-1] c 27 N77-13217
High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302
High temperature resistant cermet and ceramic compositions
[NASA-CASE-NPO-13690-2] c 27 N79-14213
Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] c 26 N84-27855
Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] c 26 N84-33555

CESIUM
Method for removing oxygen impurities from cesium Patent
[NASA-CASE-XNP-04262-2] c 17 N71-26773
Method of producing I-123 --- by bombardment of cesium causing spallation
[NASA-CASE-LEW-11390-2] c 25 N76-27383

CESIUM DIODES
Thermionic tantalum emitter doped with oxygen Patent Application
[NASA-CASE-NPO-11138] c 03 N70-34646
Cavity emitter for thermionic converter Patent
[NASA-CASE-NPO-10412] c 09 N71-28421
Thermionic energy converters
[NASA-CASE-LEW-12443-1] c 44 N83-32175

CESIUM ENGINES
Variable thrust ion engine utilizing thermally decomposable solid fuel Patent
[NASA-CASE-XMF-00923] c 28 N70-36802
Method of producing porous tungsten ionizers for ion rocket engines Patent
[NASA-CASE-XLE-00455] c 28 N70-38197

CESIUM VAPOR
Electric power generation system directory from laser power
[NASA-CASE-NPO-13308-1] c 36 N75-30524

CHALCOGENIDES
Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019

CHAMBERS
Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MRS-25791-1] c 09 N84-27749

CHANNEL FLOW
Method of making a regeneratively cooled combustion chamber Patent
[NASA-CASE-XLE-00150] c 28 N70-41818
Heated element fluid flow sensor Patent
[NASA-CASE-MSC-12084-1] c 12 N71-17569
Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] c 35 N84-22930

CHANNELS (DATA TRANSMISSION)
Automatic fault correction system for parallel signal channels Patent
[NASA-CASE-XNP-03263] c 09 N71-18843
Helical recorder arrangement for multiple channel recording on both sides of the tape
[NASA-CASE-GSC-10614-1] c 09 N72-11224
Asynchronous, multiplexing, single line transmission and recovery data system --- for satellite use
[NASA-CASE-NPO-13321-1] c 32 N75-26195
High-speed data link for moderate distances and noisy environments
[NASA-CASE-NPO-14152-1] c 32 N80-18252

CHARACTER RECOGNITION
Automatic character skew and spacing checking network --- of digital tape drive systems
[NASA-CASE-GSC-11925-1] c 33 N76-18353
System and method for character recognition
[NASA-CASE-NPO-11337-1] c 74 N81-19896

CHARGE COUPLED DEVICES
CCD correlated quadruple sampling processor
[NASA-CASE-NPO-14426-1] c 33 N79-17134
Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288
CCD correlated quadruple sampling processor
[NASA-CASE-NPO-14426-1] c 33 N81-27396
Programmable scan/read circuitry for charge coupled device imaging detectors --- spcecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247
Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037

CHARGE DISTRIBUTION
Method of erasing target material of a vidicon tube or the like Patent
[NASA-CASE-XNP-06028] c 09 N71-23189
Charge storage diode modulators and demodulators
[NASA-CASE-NPO-10189-1] c 33 N77-21314

CHARGE EFFICIENCY
State-of-charge coulometer
[NASA-CASE-NPO-15759-1] c 35 N85-21596
Method for determining the point of zero zeta potential of semiconductor
[NASA-CASE-LAR-12893-1] c 76 N85-30923

CHARGE EXCHANGE
Ion beam thruster shield
[NASA-CASE-LEW-12082-1] c 20 N77-10148

CHARGE TRANSFER
Magnetic counter Patent
[NASA-CASE-XNP-08836] c 09 N71-12515
Pressure transducer --- using a monomeric charge transfer complex sensor
[NASA-CASE-NPO-11150] c 35 N78-17359
Process for preparing highly optically transparent-colorless armomatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N85-21360

CHARGE TRANSFER DEVICES
Charge transfer reaction laser with preionization means
[NASA-CASE-NPO-13945-1] c 36 N78-27402
Time delay and integration detectors using charge transfer devices
[NASA-CASE-GSC-12324-1] c 33 N81-33403
Image readout device with electronically variable spatial resolution
[NASA-CASE-LAR-12633-1] c 33 N82-24416

CHARGED PARTICLES
Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560
Electrostatic charged particle analyzer having deflection members shaped according to the periodic voltage applied thereto Patent
[NASA-CASE-XAC-05506-1] c 24 N71-16095
Electrostatic collector for charged particles
[NASA-CASE-LEW-11192-1] c 09 N73-13208
Method and apparatus for neutralizing potentials induced on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c 33 N77-10429
Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] c 72 N84-28575
Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489

CHARGING
Synchronous orbit battery cycler
[NASA-CASE-GSC-11211-1] c 03 N72-25020

CHARRING
Ablation sensor
[NASA-CASE-XLA-01781] c 14 N69-39975
Ablation sensor Patent
[NASA-CASE-XLA-01794] c 33 N71-21586

CHASSIS
Chassis unit insert tightening-extract device
[NASA-CASE-XMS-01077-1] c 37 N79-33467

CHECKOUT
Electronic checkout system for space vehicles Patent
[NASA-CASE-XKS-08012-2] c 31 N71-15566
Rapid activation and checkout device for batteries
[NASA-CASE-MFS-22749-1] c 44 N76-14601
Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359

CHELATES
Ammonium perchlorate composite propellant containing an organic transitional metal chelate catalytic additive Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090
Chelate-modified polymers for atmospheric gas chromatography
[NASA-CASE-ARC-11154-1] c 25 N80-23383

CHEMICAL ANALYSIS
Analytical test apparatus and method for determining oxide content of alkali metal Patent
[NASA-CASE-XLE-01997] c 06 N71-23527
Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754
Method for determining presence of OH in magnesium oxide
[NASA-CASE-NPO-10774] c 06 N72-17095
Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477
Chromato-fluorographic drug detector --- device for detecting and recording fluorescent properties of materials
[NASA-CASE-ARC-10633-1] c 25 N74-26947
Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844
Gas chromatograph injection system
[NASA-CASE-ARC-10344-2] c 35 N75-26334
Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645
Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184
System for monitoring physical characteristics of fluids
[NASA-CASE-NPO-15400-1] c 34 N83-31993
Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279

CHEMICAL AUXILIARY POWER UNITS
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[NASA-CASE-XMS-02063] c 03 N71-29044

CHEMICAL BONDS
Fluorine-containing polyformals
[NASA-CASE-XMF-06900-1] c 27 N79-21191
Perfluoroalkyl polytriazines containing pendent iododifluoromethyl groups
[NASA-CASE-ARC-11241-1] c 25 N81-14016
Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353

CHEMICAL COMPOSITION
Phototropic composition of matter
[NASA-CASE-XGS-03736] c 14 N72-22443
Nitramine propellants --- gun propellant burning rate
[NASA-CASE-NPO-14103-1] c 28 N78-31255
Composition and method for making polyimide resin-reinforced fabric
[NASA-CASE-LEW-12933-1] c 27 N81-19296
Non-toxic invert analog glass compositions of high modulus
[NASA-CASE-HQN-10328-2] c 27 N82-29454
High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455
Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392
Acetylene (ethynyl) terminated polyimide siloxane and process for preparation thereof
[NASA-CASE-LAR-13318-1] c 27 N86-21685

CHEMICAL COMPOUNDS
Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428

CHEMICAL ELEMENTS
Apparatus for remote handling of materials --- mixing or analyzing dangerous chemicals
[NASA-CASE-LAR-10634-1] c 37 N74-18123

CHEMICAL ENGINEERING
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[NASA-CASE-ARC-11053-1] c 25 N79-10162

CHEMICAL EXPLOSIONS
Hypervelocity gun --- using both electric and chemical energy for projectile propulsion
[NASA-CASE-XLE-03186-1] c 09 N79-21084

CHEMICAL INDICATORS
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[NASA-CASE-MSC-20857-1] c 37 N86-20807
CHEMICAL MACHINING
Masking device Patent
[NASA-CASE-XNP-02092] c 15 N70-42033
CHEMICAL PROPERTIES
Method of producing alternating ether siloxane copolymers Patent
[NASA-CASE-XMF-02584] c 06 N71-20905
Polyurethanes of fluorine containing polycarbonates
[NASA-CASE-MFS-10512] c 06 N73-30099
Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-1] c 06 N73-33076
Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids
[NASA-CASE-MFS-22411-1] c 37 N74-21058
CHEMICAL REACTIONS
Process for interfacial polymerization of pyromellitic dianhydride and 1,2,4, 5-tetraamino-benzene Patent
[NASA-CASE-XLA-03104] c 06 N71-11235
Synthesis of polymeric schiff bases by schiff-base exchange reactions Patent
[NASA-CASE-XMF-08651] c 06 N71-11236
Preparation of ordered poly /arylenesiloxane/ polymers
[NASA-CASE-XMF-10753] c 06 N71-11237
Imidazopyrrolone/imide copolymers Patent
[NASA-CASE-XLA-08802] c 06 N71-11238
High resolution developing of photosensitive resists Patent
[NASA-CASE-XGS-04993] c 14 N71-17574
Inorganic solid film lubricants Patent
[NASA-CASE-XMF-03988] c 15 N71-21403
Process for preparation of dianilinosilanes Patent
[NASA-CASE-XMF-06409] c 06 N71-23230
Aromatic diamine-aromatic dialdehyde high molecular weight Schiff base polymers prepared in a monofunctional Schiff base Patent
[NASA-CASE-XMF-03074] c 06 N71-24740
Hydroxy terminated perfluoro ethers Patent
[NASA-CASE-NPO-10768] c 06 N71-27254
Metal containing polymers from cyclic tetrameric phenylphosphonitrilamides Patent
[NASA-CASE-HQN-10364] c 06 N71-27363
Gas liquefication and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372
Epoxy-aziridine polymer product Patent
[NASA-CASE-NPO-10701] c 06 N71-28620
Process for preparation of high-molecular- weight polyaryloxysilanes Patent
[NASA-CASE-XMF-08674] c 06 N71-28807
Trialkyl-dihalotantalum and niobium compounds Patent
[NASA-CASE-XNP-04023] c 06 N71-28808
Method of making foamed materials in zero gravity
[NASA-CASE-XMF-09902] c 15 N72-11387
Preparation of high purity copper fluoride
[NASA-CASE-LEW-10794-1] c 06 N72-17093
Firefly pump-metering system
[NASA-CASE-GSC-10218-1] c 15 N72-21465
Apparatus for producing metal powders
[NASA-CASE-XLE-06461-2] c 17 N72-28535
Nondestructive spot test method for titanium and titanium alloys
[NASA-CASE-LAR-10539-1] c 17 N73-12547
Self-cycling fluid heater
[NASA-CASE-MSC-15567-1] c 33 N73-16918
Method of forming difunctional polyisobutylene
[NASA-CASE-NPO-10893] c 27 N73-22710
Polyurethanes from fluoroalkyl propyleneglycol polyethers
[NASA-CASE-MFS-10506] c 06 N73-30100
Fluorine containing polyurethane
[NASA-CASE-MFS-10509] c 06 N73-30103
Novel polymers and method of preparing same
[NASA-CASE-NPO-10998-1] c 06 N73-32029
Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c 27 N74-12812
Intumescent composition, foamed product prepared therewith and process for making same
[NASA-CASE-ARC-10304-2] c 27 N74-27037
Vapor phase growth of groups 3-5 compounds by hydrogen chloride transport of the elements
[NASA-CASE-LAR-11144-1] c 25 N75-26043
Utilization of oxygen difluoride for syntheses of fluoropolymers
[NASA-CASE-NPO-12061-1] c 27 N76-16228
Method for detecting pollutants --- through chemical reactions and heat treatment
[NASA-CASE-LAR-11405-1] c 45 N76-31714
Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229
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[NASA-CASE-LAR-12054-2] c 27 N81-14078
The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312
Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353
Sulfone-ester polymers containing pendent ethynyl groups
[NASA-CASE-LAR-13316-1] c 27 N84-28987
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[NASA-CASE-MFS-25721-1] c 25 N85-21280
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-5] c 27 N85-21352
Fire-resistant phosphorus containing polyimides and copolyimides
[NASA-CASE-ARC-11522-2] c 27 N85-34280
The 1-(diorganooxphosphonyl)methyl-2, 4- and -2, 6-dinitro and diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N86-20499
Copolyimides with a combination of flexibilizing groups
[NASA-CASE-LAR-13354-1] c 27 N86-20566
CHEMICAL REACTORS
Chemical vapor deposition reactor --- providing uniform film thickness
[NASA-CASE-NPO-13650-1] c 25 N79-28253
Sodium storage and injection system
[NASA-CASE-NPO-14384-1] c 37 N80-10494
Method of producing silicon --- gas phase reactor multiple injector liquid feed system
[NASA-CASE-NPO-14382-1] c 31 N80-18231
Fluidized bed coal combustion reactor
[NASA-CASE-NPO-14273-1] c 25 N82-11144
Solar heated fluidized bed gasification system
[NASA-CASE-NPO-15071-1] c 44 N82-16475
Thermal reactor --- liquid silicon production from silane gas
[NASA-CASE-NPO-14369-1] c 44 N83-10501
Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] c 44 N84-14583
Solar-heated oil shale retort
[NASA-CASE-NPO-16392-1] c 44 N84-32912
Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 37 N85-21652
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Nondestructive spot test method for titanium and titanium alloys
[NASA-CASE-LAR-10539-1] c 17 N73-12547
Nondestructive spot test method for magnesium and magnesium alloys
[NASA-CASE-LAR-10953-1] c 17 N73-27446
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-6] c 25 N85-30039
CHEMILUMINESCENCE
Method and apparatus for eliminating luminol interference material
[NASA-CASE-MSC-16260-1] c 51 N80-16714
CHEMOTHERAPY
Indometh acin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-2] c 52 N81-14613
CHIPS (ELECTRONICS)
Head for high speed spinner having a vacuum chuck --- holding silicon dioxide chips for etching
[NASA-CASE-NPO-15227-1] c 37 N81-33482
Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441
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[NASA-CASE-NPO-14632-1] c 32 N82-18443
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Specialized halogen generator for purification of water Patent
[NASA-CASE-XLA-08913] c 14 N71-28933
Coal desulfurization by aqueous chlorination
[NASA-CASE-NPO-14902-1] c 25 N82-29371
Hydrodesulfurization of chlorinized coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743
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Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253
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Flexible fire retardant polyisocyanate modified neoprene foam --- for thermal protective devices
[NASA-CASE-ARC-10180-1] c 27 N74-12814
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[NASA-CASE-ERC-10139] c 09 N72-17154
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Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
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[NASA-CASE-NPO-12119-1] c 52 N75-15270
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Chromato-fluorographic drug detector --- device for detecting and recording fluorescent properties of materials
[NASA-CASE-ARC-10633-1] c 25 N74-26947
Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374
CHROMIUM
Selective coating for solar panels --- using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c 44 N78-19599
Efficiency of silicon solar cells containing chromium
[NASA-CASE-NPO-15179-1] c 44 N82-26777
Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] c 27 N85-34282
Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721
CHROMIUM ALLOYS
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[NASA-CASE-XNP-01311] c 26 N75-29236
Nicral ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505
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Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205
CHROMOSOMES
Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] c 52 N79-12694
CINEMATOGRAPHY
High speed photo-optical time recording
[NASA-CASE-KSC-10294] c 14 N72-18411
Holographic motion picture camera with Doppler shift compensation
[NASA-CASE-MFS-22517-1] c 35 N76-18402
CIRCUIT BOARDS
Electrical feed-through connection for printed circuit boards and printed cable
[NASA-CASE-XMF-01483] c 14 N69-27431
Printed cable connector Patent
[NASA-CASE-XMF-00369] c 09 N70-36494
Printed circuit board with bellows rivet connection Patent
[NASA-CASE-XNP-05082] c 15 N70-41960
Electrical spot terminal assembly Patent
[NASA-CASE-NPO-10034] c 15 N71-17685
Polyimide resin-fiberglass cloth laminates for printed circuit boards
[NASA-CASE-MFS-20408] c 18 N73-12604
Circuit board package with wedge shaped covers
[NASA-CASE-MFS-21919-1] c 10 N73-25243
Tool for use in lifting pin supported objects
[NASA-CASE-NPO-13157-1] c 37 N74-32918
Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c 37 N75-18573
Connector --- for connecting circuits on different layers of multilayer printed circuit boards
[NASA-CASE-LAR-11709-1] c 37 N76-27567
Traveling wave tube circuit
[NASA-CASE-LEW-12013-1] c 33 N79-10339
High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191
Beam forming network
[NASA-CASE-NPO-15743-1] c 32 N85-29118
CIRCUIT BREAKERS
Mercury capillary interrupter Patent
[NASA-CASE-XNP-02251] c 12 N71-20896
Diode and protection fuse unit Patent
[NASA-CASE-XKS-03381] c 09 N71-22796
Separation simulator Patent
[NASA-CASE-XKS-04631] c 10 N71-23663
Detenting servomotor Patent
[NASA-CASE-XNP-06936] c 15 N71-24695
Circuit breaker utilizing magnetic latching relays Patent
[NASA-CASE-MSC-11277] c 09 N71-29008
Multiple circuit protector device
[NASA-CASE-XMS-02744] c 33 N75-27249
Solar concentrator protective system
[NASA-CASE-NPO-15662-1] c 44 N84-28204
CIRCUIT DIAGRAMS
Excitation and detection circuitry for a flux responsive magnetic head
[NASA-CASE-XNP-04183] c 09 N69-24329
Signal multiplexer
[NASA-CASE-XGS-01110] c 07 N69-24334

Ring counter
[NASA-CASE-XGS-03095] c 09 N69-27463
Solid state switch
[NASA-CASE-XNP-09228] c 09 N69-27500
Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00381] c 09 N70-34819
Frequency shift keyed demodulator Patent
[NASA-CASE-XGS-02889] c 07 N71-11282
Difference circuit Patent
[NASA-CASE-XNP-08274] c 10 N71-13537
High voltage transistor circuit Patent
[NASA-CASE-XNP-06937] c 09 N71-19516
Weld control system using thermocouple wire Patent
[NASA-CASE-MFS-06074] c 15 N71-20393
Correlation function apparatus Patent
[NASA-CASE-XNP-00746] c 07 N71-21476
Diode and protection fuse unit Patent
[NASA-CASE-XKS-03381] c 09 N71-22796
Buck boost voltage regulation circuit Patent
[NASA-CASE-GSC-10735-1] c 10 N71-26085
Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256
Microcircuit negative cutter
[NASA-CASE-XLA-09843] c 15 N72-27485
Self-regulating proportionally controlled heating apparatus and technique
[NASA-CASE-GSC-11752-1] c 77 N75-20140
Symmetrical odd-modulus frequency divider
[NASA-CASE-NPO-13426-1] c 33 N75-31330
Trielectrode capacitive pressure transducer
[NASA-CASE-ARC-10711-2] c 33 N76-21390
Frequency discriminator and phase detector circuit
[NASA-CASE-NPO-11515-1] c 33 N77-13315

CIRCUIT PROTECTION
Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146
Protective circuit of the spark gap type
[NASA-CASE-XAC-08981] c 09 N69-39897
Electrical load protection device Patent
[NASA-CASE-MSC-12135-1] c 09 N71-12526
Apparatus for overcurrent protection of a push-pull amplifier Patent
[NASA-CASE-MSC-12033-1] c 09 N71-13531
Method of coating circuit paths on printed circuit boards with solder Patent
[NASA-CASE-XMF-01599] c 09 N71-20705
Power supply circuit Patent
[NASA-CASE-XMS-00913] c 10 N71-23543
Selective plating of etched circuits without removing previous plating Patent
[NASA-CASE-XGS-03120] c 15 N71-24047
Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366
Power responsive overload sensing circuit Patent
[NASA-CASE-GSC-10667-1] c 10 N71-33129
Saturation current protection apparatus for saturable core transformers
[NASA-CASE-ERC-10075-2] c 09 N72-22196
Electrical insulating layer process
[NASA-CASE-LEW-10489-1] c 15 N72-25447
Phase protection system for ac power lines
[NASA-CASE-MSC-17832-1] c 33 N74-14956
Overvoltage protection network
[NASA-CASE-ARC-10197-1] c 33 N74-17929
Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c 37 N75-18573
Multiple circuit protector device
[NASA-CASE-XMS-02744] c 33 N75-27249
Multi-cell battery protection system
[NASA-CASE-LEW-12039-1] c 44 N78-14625
Fused switch
[NASA-CASE-XMS-01244-1] c 33 N79-33393
Base drive for paralleled inverter systems
[NASA-CASE-NPO-14163-1] c 33 N81-14220
Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c 33 N81-27397
Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404

CIRCUIT RELIABILITY
Split-cross-bridge resistor for testing for proper fabrication of integrated circuits
[NASA-CASE-NPO-16021-1] c 33 N85-30187

CIRCUITS
Connector - Electrical
[NASA-CASE-XLA-01288] c 09 N69-21470
Binary magnetic memory device Patent
[NASA-CASE-XGS-00174] c 08 N70-34743
Electronic motor control system Patent
[NASA-CASE-XMF-01129] c 09 N70-38712
Starting circuit for vapor lamps and the like Patent
[NASA-CASE-XNP-01058] c 09 N71-12540
Drift compensation circuit for analog to digital converter Patent
[NASA-CASE-XNP-04780] c 08 N71-19687
High voltage divider system Patent
[NASA-CASE-XLE-02008] c 09 N71-21583
Solar cell and circuit array and process for nullifying magnetic fields Patent
[NASA-CASE-XGS-03390] c 03 N71-23187
Dual polarity full wave dc motor drive Patent
[NASA-CASE-XNP-07477] c 09 N71-26092
Temperature regulation circuit Patent
[NASA-CASE-XNP-02792] c 14 N71-28958
Pulse generating circuit employing switch means on ends of delay line for alternately charging and discharging same Patent
[NASA-CASE-XNP-00745] c 10 N71-28960
Digital pulse width selection circuit Patent
[NASA-CASE-XLA-07788] c 09 N71-29139
Power responsive overload sensing circuit Patent
[NASA-CASE-GSC-10667-1] c 10 N71-33129
Pulsed excitation voltage circuit for transducers
[NASA-CASE-FRC-10036] c 09 N72-22200
Thermal to electrical power conversion system with solid-state switches with Seebeck effect compensation
[NASA-CASE-NPO-11388] c 03 N72-23048
Controllable load insensitive power converters
[NASA-CASE-ERC-10268] c 09 N72-25252
Failsafe multiple transformer circuit configuration
[NASA-CASE-NPO-11078] c 09 N72-25262
Microcircuit negative cutter
[NASA-CASE-XLA-09843] c 15 N72-27485
Infinite range electronics gain control circuit
[NASA-CASE-GSC-10786-1] c 10 N72-28241
Active tuned circuit
[NASA-CASE-GSC-11340-1] c 10 N72-33230
Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-1] c 14 N73-14428
Driving lamps by induction
[NASA-CASE-MFS-21214-1] c 09 N73-30181
Circuit for detecting initial systole and dicrotic notch --- for monitoring arterial pressure
[NASA-CASE-LEW-11581-1] c 54 N75-13531
Peak holding circuit for extremely narrow pulses
[NASA-CASE-MSC-14129-1] c 33 N75-18479
High voltage distributor
[NASA-CASE-GSC-11849-1] c 33 N76-16332
Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257
Method and apparatus for fabricating improved solar cell modules
[NASA-CASE-NPO-14416-1] c 44 N81-14389
Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] c 33 N84-14424
Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] c 33 N84-16452
Programmable scan/read circuitry for charge coupled device imaging detectors --- spcecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247
Dielectric based submillimeter backward wave oscillator circuit
[NASA-CASE-LEW-13736-1] c 33 N84-27974
Processing circuit with asymmetry corrector and convolutional encoder for digital data
[NASA-CASE-MSC-20187-1] c 33 N85-20249
High voltage power supply
[NASA-CASE-GSC-12818-1] c 33 N85-29147
Temperature sensitive oscillator
[NASA-CASE-GSC-12958-1] c 33 N85-30201
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670

CIRCULAR CONES
Optical inspection apparatus Patent
[NASA-CASE-XMF-00462] c 14 N70-34298

CIRCULAR CYLINDERS
Light intensity modulator controller Patent
[NASA-CASE-XMS-04300] c 09 N71-19479

CIRCULAR POLARIZATION
Electromagnetic polarization systems and methods Patent
[NASA-CASE-GSC-10021-1] c 09 N71-24595
Virtual wall slot circularly polarized planar array antenna
[NASA-CASE-NPO-10301] c 07 N72-11148
Circularly polarized antenna
[NASA-CASE-ERC-10214] c 09 N72-31235

CIRCULAR TUBES
Evacuated displacement compression molding
[NASA-CASE-LAR-10782-1] c 31 N74-14133
Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797

CIRCULATION CONTROL AIRFOILS
Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400

CIRCULATORS (PHASE SHIFT CIRCUITS)
Circulator having quarter wavelength resonant post and parametric amplifier circuits utilizing the same Patent
[NASA-CASE-XNP-02140] c 09 N71-23097
Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures
[NASA-CASE-NPO-14254-1] c 36 N80-18372

CLAMPING CIRCUITS
Amplifier clamping circuit for horizon scanner Patent
[NASA-CASE-XGS-01784] c 10 N71-20782

CLAMPS
Portable alignment tool Patent
[NASA-CASE-XMF-01452] c 15 N70-41371
Hydraulic grip Patent
[NASA-CASE-XLA-05100] c 15 N71-17696
Clamping assembly for inertial components Patent
[NASA-CASE-XMS-02184] c 15 N71-20813
Central spar and module joint Patent
[NASA-CASE-XNP-02341] c 15 N71-21531
Quick attach mechanism Patent
[NASA-CASE-XFR-05421] c 15 N71-22994
Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744
Clamp-mount device
[NASA-CASE-MFS-25510-1] c 37 N84-16560
Reusable thermal cycling clamp
[NASA-CASE-LAR-12868-1] c 37 N85-21651

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Inorganic thermal control pigment Patent
[NASA-CASE-XNP-02139] c 18 N71-24184

CLEAN ROOMS
Air conditioned suit
[NASA-CASE-LAR-10076-1] c 05 N73-20137

CLEANERS
Purge device for thrust engines Patent
[NASA-CASE-XMS-04826] c 28 N71-28849
Noncontaminating swabs
[NASA-CASE-MFS-18100] c 15 N72-11390
Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 37 N85-21652

CLEANING
Disk pack cleaning table Patent Application
[NASA-CASE-LAR-10590-1] c 15 N70-26819
System for sterilizing objects --- cleaning space vehicle systems
[NASA-CASE-KSC-11085-1] c 54 N81-24724
Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 37 N85-21652
Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MSC-20857-1] c 37 N86-20807

CLEAR AIR TURBULENCE
Clear air turbulence detector
[NASA-CASE-ERC-10081] c 14 N72-28437
Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c 36 N75-15028
CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040

CLEARANCES
Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366
Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603

CLEAVAGE
Crystal cleaving machine
[NASA-CASE-GSC-12584-1] c 37 N82-32730
Workpiece positioning vise
[NASA-CASE-GSC-12762-1] c 37 N84-28083

CLIMBING FLIGHT
Aircraft instrument Patent
[NASA-CASE-XLA-00487] c 14 N70-40157

CLINICAL MEDICINE
Process for the preparation of brushite crystals
[NASA-CASE-ERC-10338] c 04 N72-33072
Measurement of gas production of microorganisms --- using pressure sensors
[NASA-CASE-LAR-11326-1] c 35 N75-33368
Production of I-123
[NASA-CASE-LEW-11390-3] c 25 N76-29379
Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] c 52 N79-12694
Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin
[NASA-CASE-NPO-14402-1] c 52 N81-27783
Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28389

CLIPS
Medical clip
[NASA-CASE-LAR-12650-1] c 52 N84-28388
Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28389
CLOCKS
Time synchronization system utilizing moon reflected coded signals Patent
[NASA-CASE-NPO-10143] c 10 N71-26326
Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137
Fault tolerant clock apparatus utilizing a controlled minority of clock elements
[NASA-CASE-MSC-12531-1] c 35 N75-30504
Clock setter
[NASA-CASE-LAR-11458-1] c 35 N76-16392
CLOSED CIRCUIT TELEVISION
Spacecraft docking and alignment system --- using television camera system
[NASA-CASE-MSC-12559-1] c 18 N76-14186
CLOSED CYCLES
Closed loop ranging system Patent
[NASA-CASE-XNP-01501] c 21 N70-41930
Digital phase-locked loop
[NASA-CASE-GSC-11623-1] c 33 N75-25040
Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664
CLOSED ECOLOGICAL SYSTEMS
Recovery of potable water from human wastes in *below-G conditions Patent*
[NASA-CASE-XLA-03213] c 05 N71-11207
Space vehicle with artificial gravity and earth-like environment
[NASA-CASE-LEW-11101-1] c 31 N73-32750
Regenerable device for scrubbing breathable air of CO2 and moisture without special heat exchanger equipment
[NASA-CASE-MSC-14771-1] c 54 N77-32722
Cell and method for electrolysis of water and anode
[NASA-CASE-MSC-16394-1] c 28 N81-24280
CLOSTRIDIUM BOTULINUM
Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227
CLOSURES
Canister closing device Patent
[NASA-CASE-XLA-01446] c 15 N71-21528
Spacesuit torso closure
[NASA-CASE-ARC-11100-1] c 54 N78-31736
CLOUD CHAMBERS
Heat transfer device
[NASA-CASE-MFS-22938-1] c 34 N76-18374
CLOUD COVER
Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232
CLOUDS (METEOROLOGY)
Rocket borne instrument to measure electric fields inside electrified clouds
[NASA-CASE-KSC-10730-1] c 14 N73-32318
Electric field measuring and display system --- for cloud formations
[NASA-CASE-KSC-10731-1] c 33 N74-27862
CLUTCHES
Rotary stepping device with memory metal actuator
[NASA-CASE-NPO-15482-1] c 37 N83-36484
Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] c 37 N84-28084
Non-backdriveable free wheeling coupling
[NASA-CASE-MSC-20475-1] c 37 N85-29290
CLUTTER
Clutter free synthetic aperture radar correlator
[NASA-CASE-NPO-14035-1] c 32 N83-19968
CMOS
Complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c 33 N79-12321
COAL
Underground mineral extraction
[NASA-CASE-NPO-14140-1] c 31 N78-24387
Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443
Thickness measurement system
[NASA-CASE-MFS-23721-1] c 31 N79-28370
Coal-rock interface detector
[NASA-CASE-MFS-23725-1] c 43 N79-31706
Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423
Coal-shale interface detector
[NASA-CASE-MFS-23720-1] c 43 N80-23711
Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246
Coal desulfurization by aqueous chlorination
[NASA-CASE-NPO-14902-1] c 25 N82-29371
Hydrodesulfurization of chlorinized coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743
Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] c 23 N84-16255
Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] c 25 N84-22709
Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 35 N84-33768
Shuttle car loading system
[NASA-CASE-NPO-15949-1] c 85 N85-34722
Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253
COAL GASIFICATION
Solar heated fluidized bed gasification system
[NASA-CASE-NPO-15071-1] c 44 N82-16475
Pressure letdown method and device for coal conversion *systems*
[NASA-CASE-NPO-15100-1] c 44 N84-14583
Micronized coal burner facility
[NASA-CASE-LEW-13426-1] c 25 N84-16276
COAL LIQUEFACTION
Surfactant-assisted liquefaction of particulate carbonaceous substances
[NASA-CASE-NPO-13904-1] c 25 N79-11152
COAL UTILIZATION
Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527
Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154
Fluidized bed coal combustion reactor
[NASA-CASE-NPO-14273-1] c 25 N82-11144
COATING
Method of coating circuit paths on printed circuit boards *with solder Patent*
[NASA-CASE-XMF-01599] c 09 N71-20705
Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875
Method of forming *metal hydride films*
[NASA-CASE-LEW-12083-1] c 37 N78-13436
Selective coating for solar panels --- using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c 44 N78-19599
Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233
Process for producing a well-adhered durable optical coating on an optical plastic substrate --- abrasion resistant polymethyl methacrylate lenses
[NASA-CASE-ARC-11039-1] c 74 N78-32854
Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940
Textured carbon surfaces on copper
[NASA-CASE-LEW-14130-1] c 31 N85-20156
Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005
COATINGS
Bonded solid lubricant coating Patent
[NASA-CASE-XMS-00259] c 18 N70-36400
High contrast cathode ray tube
[NASA-CASE-ERC-10468] c 09 N72-20206
Durable antistatic coating for polymethylmethacrylate
[NASA-CASE-NPO-13867-1] c 27 N78-14164
Edge coating of flat wires
[NASA-CASE-XMF-05757-1] c 31 N79-21227
Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176
Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695
Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267
COAXIAL CABLES
Transmission line thermal short Patent
[NASA-CASE-XNP-09775] c 09 N71-20445
Coaxial cable connector Patent
[NASA-CASE-XNP-04732] c 09 N71-20851
Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597
Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
Vibration isolation system using compression springs
[NASA-CASE-NPO-11012] c 15 N72-11391
Hermetically sealed semiconductor
[NASA-CASE-GSC-10791-1] c 15 N73-14469
System for stabilizing cable phase delay utilizing a coaxial cable under pressure
[NASA-CASE-NPO-13138-1] c 33 N74-17927
Refrigerated coaxial coupling --- for microwave equipment
[NASA-CASE-NPO-13504-1] c 33 N75-30430
High power RF coaxial switch
[NASA-CASE-NPO-14229-1] c 33 N80-18285
COAXIAL PLASMA ACCELERATORS
Self-energized plasma compressor
[NASA-CASE-MFS-22145-2] c 75 N76-17951
COBALT
Process for improving mechanical properties of epoxy resins by addition of cobalt ions
[NASA-CASE-LAR-13230-1] c 24 N84-34571
Metal (2) 4,4',4',4'' phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281
COBALT ALLOYS
High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-00726] c 17 N71-15644
High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-02991] c 17 N71-16025
High temperature ferromagnetic cobalt-base alloy Patent
[NASA-CASE-XLE-03629] c 17 N71-23248
Cobalt-base alloy
[NASA-CASE-LEW-10436-1] c 17 N73-32415
COBALT OXIDES
High contrast cathode ray tube
[NASA-CASE-ERC-10468] c 09 N72-20206
COCKPIT SIMULATORS
Controlled visibility device for an aircraft Patent
[NASA-CASE-XFR-04147] c 11 N71-10748
COCKPITS
Aircraft canopy lock
[NASA-CASE-FRC-11065-1] c 05 N83-19737
CODERS
Encoder/decoder system for a rapidly synchronizable binary code Patent
[NASA-CASE-NPO-10342] c 10 N71-33407
Modular encoder
[NASA-CASE-NPO-10629] c 08 N72-18184
Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c 32 N74-32598
Digital plus analog output encoder
[NASA-CASE-GSC-12115-1] c 62 N76-31946
Twin-capacitive shaft angle encoder with analog output signal
[NASA-CASE-ARC-10897-1] c 33 N77-31404
CODING
Error correcting method and apparatus Patent
[NASA-CASE-XNP-02748] c 08 N71-22749
Rate data encoder
[NASA-CASE-LAR-10128-1] c 08 N73-20217
Binary concatenated coding system
[NASA-CASE-MSC-14082-1] c 60 N76-23850
Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c 32 N77-12239
Automatic multi-banking of memory for microprocessors
[NASA-CASE-NPO-15295-1] c 60 N85-21992
COEFFICIENT OF FRICTION
Static coefficient test method and apparatus
[NASA-CASE-GSC-11893-1] c 35 N76-31489
Locking redundant link
[NASA-CASE-LAR-11900-1] c 37 N79-14382
COENZYMES
Flavin coenzyme assay
[NASA-CASE-GSC-10565-1] c 06 N72-25149
COHERENT ELECTROMAGNETIC RADIATION
Folded traveling wave maser structure Patent
[NASA-CASE-XNP-05219] c 16 N71-15550
Focused image holography with extended sources Patent
[NASA-CASE-ERC-10019] c 16 N71-15551
Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] c 36 N84-28065
COHERENT LIGHT
Hybrid holographic system using reflected and transmitted object beams simultaneously Patent
[NASA-CASE-MFS-20074] c 16 N71-15565
Amplitude modulated laser transmitter Patent
[NASA-CASE-XMS-04269] c 16 N71-22895
Device for measuring light scattering wherein the measuring beam is successively reflected between a pair of parallel reflectors Patent
[NASA-CASE-XER-11203] c 14 N71-28994
COHERENT RADIATION
Laser communication system for controlling several functions at a location remote to the laser
[NASA-CASE-LAR-10311-1] c 16 N73-16536
Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c 35 N74-11284
Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c 36 N74-20009
Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c 28 N74-27425
Method and apparatus for generating coherent radiation *in the ultra-violet region and above by use of distributed* feedback
[NASA-CASE-NPO-13346-1] c 36 N76-29575
Coherently pulsed laser source
[NASA-CASE-NPO-15111-1] c 36 N82-29589

COINCIDENCE CIRCUITS
Frequency measurement by coincidence detection with standard frequency
[NASA-CASE-MSC-14649-1] c 33 N76-16331
COLD CATHODES
Meteoroid detector
[NASA-CASE-LAR-10483-1] c 14 N73-32327
COLD GAS
Annular arc accelerator shock tube
[NASA-CASE-NPO-13528-1] c 09 N77-10071
COLD WELDING
Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
COLD WORKING
Hydroforming techniques using epoxy molds Patent
[NASA-CASE-XLE-05641-1] c 15 N71-26346
COLLAPSE
Collapsible pistons
[NASA-CASE-MSC-13789-1] c 11 N73-32152
COLLECTION
Automatic liquid inventory collecting and dispensing unit
[NASA-CASE-LAR-11071-1] c 35 N75-19611
Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N78-27750
Absorbent product to absorb fluids --- for collection of human wastes
[NASA-CASE-MSC-18223-1] c 24 N82-29362
COLLIMATION
Long range laser traversing system
[NASA-CASE-GSC-11262-1] c 36 N74-21091
Optical alignment device
[NASA-CASE-ARC-10932-1] c 74 N76-22993
Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c 36 N77-32478
Dual acting slit control mechanism
[NASA-CASE-LAR-11370-1] c 35 N80-28686
Method for shaping and aiming narrow beams --- sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443
Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
Ion beam accelerator system
[NASA-CASE-NPO-15547-1] c 72 N84-16959
Sonic levitation apparatus
[NASA-CASE-MFS-25828-1] c 71 N84-28568
Laser Schlieren crystal monitor
[NASA-CASE-MFS-28060-1] c 76 N85-30932
COLLIMATORS
X-ray reflection collimator adapted to focus X-radiation directly on a detector Patent
[NASA-CASE-XHQ-04106] c 14 N70-40240
Collimator of multiple plates with axially aligned identical random arrays of apertures
[NASA-CASE-MFS-20546-2] c 14 N73-30389
Multiplate focusing collimator --- for scanning small near radiation sources
[NASA-CASE-MFS-20932-1] c 35 N75-19616
Method for shaping and aiming narrow beams --- sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443
Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
Multiprism collimator
[NASA-CASE-GSC-12608-1] c 74 N83-10900
COLLISION AVOIDANCE
Cooperative Doppler radar system Patent
[NASA-CASE-LAR-10403] c 21 N71-11766
Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c 21 N71-24948
Stacked array of omnidirectional antennas
[NASA-CASE-LAR-10545-1] c 09 N72-21244
Display research collision warning system
[NASA-CASE-HQN-10703] c 21 N73-13643
Apparatus for aiding a pilot in avoiding a midair collision between aircraft
[NASA-CASE-LAR-10717-1] c 21 N73-30641
Satellite aided vehicle avoidance system
[NASA-CASE-ERC-10419-1] c 03 N75-30132
COLLOIDAL GENERATORS
Colloid propulsion method and apparatus Patent
[NASA-CASE-XLE-00817] c 28 N70-33265
COLLOIDAL PROPELLANTS
Colloid propulsion method and apparatus Patent
[NASA-CASE-XLE-00817] c 28 N70-33265
Low viscosity magnetic fluid obtained by the colloidal suspension of magnetic particles Patent
[NASA-CASE-XLE-01512] c 12 N70-40124
Annular slit colloid thrustor Patent
[NASA-CASE-GSC-10709-1] c 28 N71-25213
COLLOIDS
The 2 deg/90 deg laboratory scattering photometer --- particulate refractivity in hydrosols
[NASA-CASE-GSC-12088-1] c 74 N78-13874
COLOR
Nondestructive spot test method for magnesium and magnesium alloys
[NASA-CASE-LAR-10953-1] c 17 N73-27446
Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059
COLOR PHOTOGRAPHY
Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815
Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432
COLOR TELEVISION
Color television systems using a single gun color cathode ray tube Patent
[NASA-CASE-ERC-10098] c 09 N71-28618
Color television system
[NASA-CASE-MSC-12146-1] c 07 N72-17109
Scan converting video tape recorder
[NASA-CASE-NPO-10166-1] c 07 N73-22076
Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c 35 N76-16391
System for producing chroma signals
[NASA-CASE-MSC-14683-1] c 74 N77-18893
Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083
COLOR VISION
Color perception tester
[NASA-CASE-KSC-10278] c 05 N72-16015
COLUMNS
Lightweight structural columns --- space erectable trusses
[NASA-CASE-LAR-12095-1] c 31 N81-25258
COLUMNS (PROCESS ENGINEERING)
Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N69-39936
COLUMNS (SUPPORTS)
Telescoping columns --- parabolic antenna support
[NASA-CASE-LAR-12195-1] c 31 N81-27324
Latching mechanism for deployable-restowable columns
[NASA-CASE-LAR-13169-1] c 37 N84-25063
COMBINATORIAL ANALYSIS
Apparatus for computing square roots Patent
[NASA-CASE-XGS-04768] c 08 N71-19437
COMBUSTION
Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-16484
A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] c 25 N84-32447
COMBUSTION CHAMBERS
Rocket chamber leak test fixture
[NASA-CASE-XFR-09479] c 14 N69-27503
Rocket propellant injector Patent
[NASA-CASE-XLE-00103] c 28 N70-33241
Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00164] c 15 N70-36411
Injector-valve device Patent
[NASA-CASE-XLE-00303] c 15 N70-36535
Ignition system for monopropellant combustion devices Patent
[NASA-CASE-XNP-00249] c 28 N70-38249
Method of making a regeneratively cooled combustion chamber Patent
[NASA-CASE-XLE-00150] c 28 N70-41818
Control of transverse instability in rocket combustors Patent
[NASA-CASE-XLE-04603] c 33 N71-21507
Combustion chamber Patent
[NASA-CASE-XLE-04857] c 28 N71-23968
Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736
Coaxial injector for reaction motors
[NASA-CASE-NPO-11095] c 15 N72-25455
Swirl can primary combustor
[NASA-CASE-LEW-11326-1] c 23 N73-30665
Method of electroforming a rocket chamber
[NASA-CASE-LEW-11118-1] c 20 N74-32919
Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c 20 N76-14190
Fuel combustor
[NASA-CASE-LEW-12137-1] c 25 N78-10224
Direct heating surface combustor
[NASA-CASE-LEW-11877-1] c 34 N78-27357
Combuster --- low nitrogen oxide formation
[NASA-CASE-NPO-13958-1] c 25 N79-11151
Heat exchanger --- rocket combustion chambers and cooling systems
[NASA-CASE-LEW-12252-1] c 34 N79-13288
General purpose rocket furnace
[NASA-CASE-MFS-23460-1] c 12 N79-26075
Reduction of nitric oxide emissions from a combustor
[NASA-CASE-ARC-10814-2] c 07 N80-26298
Fluidized bed coal combustion reactor
[NASA-CASE-NPO-14273-1] c 25 N82-11144
Steam cooled rich-burn combustor liner
[NASA-CASE-LEW-13609-1] c 25 N83-17628
Micronized coal burner facility
[NASA-CASE-LEW-13426-1] c 25 N84-16276
Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958
Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] c 25 N84-32447
Diesel engine catalytic combustor system --- aircraft engines
[NASA-CASE-LEW-12995-1] c 37 N84-33808
Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFG-25989-1] c 20 N85-20008
Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195
COMBUSTION CONTROL
Burning rate control of solid propellants Patent
[NASA-CASE-XLE-03494] c 27 N71-21819
COMBUSTION EFFICIENCY
Rocket engine injector Patent
[NASA-CASE-XLE-00111] c 28 N70-38199
Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958
COMBUSTION PHYSICS
Solid propellant rocket motor
[NASA-CASE-NPO-11559] c 28 N73-24784
Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13828-1] c 37 N79-11405
COMBUSTION PRODUCTS
Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922
Combustion products generating and metering device
[NASA-CASE-GSC-11095-1] c 14 N72-10375
System for minimizing internal combustion engine pollution emission
[NASA-CASE-NPO-13402-1] c 37 N76-18457
Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527
Combuster --- low nitrogen oxide formation
[NASA-CASE-NPO-13958-1] c 25 N79-11151
A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] c 25 N84-32447
COMBUSTION STABILITY
Control of transverse instability in rocket combustors Patent
[NASA-CASE-XLE-04603] c 33 N71-21507
COMET TAILS
Ion mass spectrometer
[NASA-CASE-NPO-15423-1] c 35 N84-28016
COMFORT
Ride quality meter
[NASA-CASE-LAR-12882-1] c 35 N84-12445
COMMAND AND CONTROL
Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289
Common data buffer system --- communication with computational equipment utilized in spacecraft operations
[NASA-CASE-KSC-11048-1] c 62 N81-24779
COMMAND MODULES
Low onset rate energy absorber
[NASA-CASE-MSC-12279] c 15 N72-17450
COMMUNICATING
Communications link for computers
[NASA-CASE-NPO-11161] c 08 N72-25207
COMMUNICATION
Correlation function apparatus Patent
[NASA-CASE-XNP-00746] c 07 N71-21476
System for improving signal-to-noise ratio of a communication signal
[NASA-CASE-MSC-12259-2] c 07 N72-33146
COMMUNICATION CABLES
Method of making a molded connector Patent
[NASA-CASE-XMF-03498] c 15 N71-15986
Process for making RF shielded cable connector assemblies and the products formed thereby
[NASA-CASE-GSC-11215-1] c 09 N73-28083
Fiber distributed feedback laser
[NASA-CASE-NPO-13531-1] c 36 N76-24553
High-speed data link for moderate distances and noisy environments
[NASA-CASE-NPO-14152-1] c 32 N80-18252
High acceleration cable deployment system
[NASA-CASE-ARC-11256-1] c 15 N82-24272
Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669

COMMUNICATION EQUIPMENT
Elimination of frequency shift in a multiplex communication system Patent
[NASA-CASE-XNP-01306] c 07 N71-20814
Decoder system Patent
[NASA-CASE-NPO-10118] c 07 N71-24741
Data-aided carrier tracking loops
[NASA-CASE-NPO-11282] c 10 N73-16205
Doppler compensation by shifting transmitted object frequency within limits
[NASA-CASE-GSC-10087-4] c 07 N73-20174
Differential phase shift keyed communication system
[NASA-CASE-MSC-14065-1] c 32 N74-26654
COMMUNICATION SATELLITES
Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309
Apparatus providing a directive field pattern and attitude sensing of a spin stabilized satellite Patent
[NASA-CASE-XGS-02607] c 31 N71-23009
Deep space monitor communication satellite system Patent
[NASA-CASE-XAC-06029-1] c 31 N71-24813
Satellite communication system Patent
[NASA-CASE-XNP-02389] c 07 N71-28900
Satellite aided vehicle avoidance system
[NASA-CASE-ERC-10419-1] c 03 N75-30132
Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323
COMMUTATION
High speed low level electrical stepping switch Patent
[NASA-CASE-XAC-00060] c 09 N70-39915
Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393
COMMUTATORS
Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432
Current steering commutator
[NASA-CASE-NPO-10743] c 08 N72-21199
COMPARATOR CIRCUITS
Digital frequency discriminator Patent
[NASA-CASE-MFS-14322] c 08 N71-18692
Pulsed differential comparator circuit Patent
[NASA-CASE-XLE-03804] c 10 N71-19471
Multi-cell battery protection system
[NASA-CASE-LEW-12039-1] c 44 N78-14625
Window comparator
[NASA-CASE-FRC-10090-1] c 33 N78-18308
COMPARATORS
Fluid flow meter with comparator reference means Patent
[NASA-CASE-XGS-01331] c 14 N71-22996
Comparator for the comparison of two binary numbers Patent
[NASA-CASE-XNP-04819] c 08 N71-23295
High stability buffered phase comparator
[NASA-CASE-GSC-12645-1] c 33 N84-16454
Comparator with noise suppression
[NASA-CASE-LAR-13151-1] c 33 N85-20247
COMPENSATORS
Star image motion compensator
[NASA-CASE-LAR-10523-1] c 14 N72-22444
Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029
Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082
COMPLEX COMPOUNDS
Synthesis of polyformals
[NASA-CASE-ARC-11244-1] c 23 N82-16174
COMPONENT RELIABILITY
Acoustic guide for noise transmission testing of aircraft
[NASA-CASE-LAR-13111-1-CU] c 71 N86-20086
COMPOSITE MATERIALS
Reinforced metallic composites Patent
[NASA-CASE-XLE-02428] c 17 N70-33288
Method of making fiber reinforced metallic composites Patent
[NASA-CASE-XLE-00231] c 17 N70-38198
Reinforced metallic composites Patent
[NASA-CASE-XLE-00228] c 17 N70-38490
Unfired-ceramic flame-resistant insulation and method of making the same Patent
[NASA-CASE-XMF-01030] c 18 N70-41583
Process of casting heavy slips Patent
[NASA-CASE-XLE-00106] c 15 N71-16076
Lightweight refractory insulation and method of preparing the same Patent
[NASA-CASE-XMF-05279] c 18 N71-16124
Flexible composite membrane Patent
[NASA-CASE-XNP-08837] c 18 N71-16210
Low temperature flexure fatigue cryostat Patent
[NASA-CASE-XMF-02964] c 14 N71-17659
Method for producing fiber reinforced metallic composites Patent
[NASA-CASE-XLE-03925] c 18 N71-22894
Solar cell matrix
[NASA-CASE-NPO-11190] c 03 N71-34044
Method of forming shapes from planar sheets of thermosetting materials
[NASA-CASE-NPO-11036] c 15 N72-24522
Method of making fiber composites
[NASA-CASE-LEW-10424-2-2] c 18 N72-25539
Thermal compensating structural member
[NASA-CASE-MFS-20433] c 15 N72-28496
Bearing material --- composite material with low friction surface for rolling or sliding contact
[NASA-CASE-LEW-11930-1] c 24 N76-22309
Fluid seal for rotating shafts
[NASA-CASE-LEW-11676-1] c 37 N76-22541
Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
[NASA-CASE-MSC-14331-1] c 27 N76-24405
Method of growing composites of the type exhibiting the Soret effect --- improved structure of eutectic alloy crystals
[NASA-CASE-MFS-22926-1] c 24 N77-27187
Hybrid composite laminate structures
[NASA-CASE-LEW-12118-1] c 24 N77-27188
Honeycomb-laminate composite structure
[NASA-CASE-ARC-10913-1] c 24 N78-15180
High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302
Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-1] c 28 N78-24365
Method of making bearing materials --- self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916
Composite seal for turbomachinery --- backings for turbine engine shrouds
[NASA-CASE-LEW-12131-1] c 37 N79-18318
Crystalline polyimides --- reinforcing fibers for high temperature composites and adhesives as well as flame retardation
[NASA-CASE-LAR-12099-1] c 27 N80-16158
Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388
Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482
Tackifier for addition polyimides containing monoethylphthalate
[NASA-CASE-LAR-12642-1] c 27 N81-29229
Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900
Piezoelectric composite materials
[NASA-CASE-LEW-12582-1] c 76 N83-34796
Pre-stressed thermal protection systems
[NASA-CASE-MSC-20254-1] c 16 N84-22601
Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695
Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-3] c 27 N85-21350
Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-4] c 27 N85-21351
Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] c 27 N85-34282
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380
Thermal-stress-free fasteners
[NASA-CASE-LAR-13325-1-SB] c 37 N86-20805
Aminophenoxycyclotriphosphazene cured epoxy resins and the composites, laminates and structures thereof
[NASA-CASE-ARC-11548-1] c 27 N86-21686
COMPOSITE PROPELLANTS
Ammonium perchlorate composite propellant containing an organic transitional metal chelate catalytic additive Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090
Silicone containing solid propellant
[NASA-CASE-NPO-14477-1] c 28 N80-28536
Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119
COMPOSITE STRUCTURES
Inflatable honeycomb Patent
[NASA-CASE-XLA-00204] c 32 N70-36536
Composite powerplant and shroud therefor Patent
[NASA-CASE-XLA-01043] c 28 N71-10780
Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260
Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c 24 N77-19170
Composite sandwich lattice structure
[NASA-CASE-LAR-11898-1] c 24 N78-10214
Method of making a composite sandwich lattice structure
[NASA-CASE-LAR-11898-2] c 24 N78-17149
Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184
Aluminium or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-3] c 44 N80-16452
Lightweight structural columns --- space erectable trusses
[NASA-CASE-LAR-12095-1] c 31 N81-25258
Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N84-20859
Light weight fire resistant graphite composites
[NASA-CASE-ARC-11615-1-SB] c 24 N85-28976
Cure-in-place composite fastener
[NASA-CASE-LAR-12939-1] c 37 N86-20798
Aminophenoxycyclotriphosphazene cured epoxy resins and the composites, laminates and structures thereof
[NASA-CASE-ARC-11548-1] c 27 N86-21686
COMPOSITION (PROPERTY)
Moving particle composition analyzer
[NASA-CASE-GSC-11889-1] c 35 N76-16393
COMPRESSED AIR
Valve actuator Patent
[NASA-CASE-XHQ-01208] c 15 N70-35409
COMPRESSIBILITY
Nozzle extraction process and handlemeter for measuring handle
[NASA-CASE-LAR-12147-1] c 31 N79-11246
COMPRESSIBLE FLUIDS
Apparatus having coaxial capacitor structure for measuring fluid density Patent
[NASA-CASE-XLE-00143] c 14 N70-36618
Apparatus for tensile testing Patent
[NASA-CASE-XKS-06250] c 14 N71-15600
COMPRESSING
Refrigeration apparatus Patent
[NASA-CASE-XNP-08877] c 15 N71-23025
Method for compression molding of thermosetting plastics utilizing a temperature gradient across the plastic to cure the article
[NASA-CASE-LAR-10489-1] c 31 N74-18124
COMPRESSION LOADS
Pressure transducer
[NASA-CASE-NPO-10832] c 14 N72-21405
Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c 44 N74-33379
Locking redundant link
[NASA-CASE-LAR-11900-1] c 37 N79-14382
Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081
Deployable M-braced truss structure
[NASA-CASE-LAR-13081-1] c 37 N86-20799
COMPRESSION RATIO
Automatic compression adjusting mechanism for internal combustion engines
[NASA-CASE-MSC-18807-1] c 37 N83-36483
COMPRESSION TESTS
Compression test assembly
[NASA-CASE-LAR-10440-1] c 14 N73-32323
Anti-buckling fatigue test assembly --- for subjecting metal specimen to tensile and compressive loads at constant temperature
[NASA-CASE-LAR-10426-1] c 09 N74-19528
Compression test apparatus
[NASA-CASE-MSC-18723-1] c 35 N83-21312
COMPRESSOR BLADES
Welding blades to rotors
[NASA-CASE-LEW-10533-1] c 15 N73-28515
Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603
COMPRESSOR ROTORS
Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366
COMPRESSORS
Thermal pump-compressor for space use Patent
[NASA-CASE-XLA-00377] c 33 N71-17610
Self-energized plasma compressor
[NASA-CASE-MFS-22145-2] c 75 N76-17951
Gas compression apparatus
[NASA-CASE-MSC-14757-1] c 35 N78-10428
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658

Cycling Joule Thomson refrigerator
[NASA-CASE-NPO-15251-1] c 31 N83-31897
Magentically actuated compressor
[NASA-CASE-GSC-12799-1] c 31 N85-21404

COMPUTATION
Apparatus for computing square roots Patent
[NASA-CASE-XGS-04768] c 08 N71-19437
Ruler for making navigational computations
[NASA-CASE-XNP-01458] c 04 N78-17031

COMPUTER COMPONENTS
Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c 60 N78-17691
Computer circuit card puller
[NASA-CASE-FRC-11042-1] c 60 N82-24839
Control means for a solid state crossbar switch
[NASA-CASE-NPO-15066-1] c 33 N82-29538

COMPUTER DESIGN
Two-dimensional radiant energy array computers and computing devices
[NASA-CASE-GSC-11839-1] c 60 N77-14751
Massively parallel processor computer
[NASA-CASE-GSC-12223-1] c 60 N83-25378
Distributed multiport memory architecture
[NASA-CASE-NPO-15342-1] c 60 N83-32342
Automatic multi-banking of memory for microprocessors
[NASA-CASE-NPO-15295-1] c 60 N85-21992

COMPUTER GRAPHICS
System for quantizing graphic displays
[NASA-CASE-NPO-10745] c 08 N72-22164

COMPUTER NETWORKS
High-speed data link for moderate distances and noisy environments
[NASA-CASE-NPO-14152-1] c 32 N80-18252
Common data buffer system --- communication with computational equipment utilized in spacecraft operations
[NASA-CASE-KSC-11048-1] c 62 N81-24779
Multicomputer communication system
[NASA-CASE-NPO-15433-1] c 32 N85-21428

COMPUTER PROGRAMMING
Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917
Priority interrupt system --- comprised of four registers
[NASA-CASE-NPO-13067-1] c 60 N76-18800

COMPUTER PROGRAMS
Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633
Program for computer aided reliability estimation
[NASA-CASE-NPO-13086-1] c 15 N73-12495
Numerical computer peripheral interactive device with manual controls
[NASA-CASE-NPO-11497] c 08 N73-25206

COMPUTER STORAGE DEVICES
Magnetic matrix memory system Patent
[NASA-CASE-XMF-05835] c 08 N71-12504
Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505
Pulse-type magnetic core memory element circuit with blocking oscillator feedback Patent
[NASA-CASE-XGS-03303] c 08 N71-18595
Drive circuit utilizing two cores Patent
[NASA-CASE-XNP-01318] c 10 N71-23033
Programmable telemetry system Patent
[NASA-CASE-GSC-10131-1] c 07 N71-24624
Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24650
Digital memory in which the driving of each word location is controlled by a switch core Patent
[NASA-CASE-XNP-01466] c 10 N71-26434
Redundant memory organization Patent
[NASA-CASE-GSC-10564] c 10 N71-29135
Semiconductor-ferroelectric memory device
[NASA-CASE-ERC-10307] c 08 N72-21198
Shared memory for a fault-tolerant computer
[NASA-CASE-NPO-13139-1] c 60 N76-21914
Distributed multiport memory architecture
[NASA-CASE-NPO-15342-1] c 60 N83-32342
Method of and apparatus for generating an interstitial point in a data stream having an even number of data points
[NASA-CASE-MFS-25319-1] c 60 N85-33701

COMPUTER SYSTEMS DESIGN
Adaptive voting computer system
[NASA-CASE-MSC-13932-1] c 62 N74-14920
Computer interface system
[NASA-CASE-NPO-13428-1] c 60 N77-12721

COMPUTER TECHNIQUES
Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c 25 N76-18245
Apparatus for determining thermophysical properties of test specimens
[NASA-CASE-LAR-11883-1] c 09 N77-27131
Computerized system for translating a torch head
[NASA-CASE-MFS-23620-1] c 37 N79-10421
Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c 34 N81-26402
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154

COMPUTERIZED SIMULATION
Integrated time shared instrumentation display Patent
[NASA-CASE-XLA-01952] c 08 N71-12507
Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411
Simulator method and apparatus for practicing the mating of an observer-controlled object with a target
[NASA-CASE-MFS-23052-2] c 74 N79-13855
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333

COMPUTERS
Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333
Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288
Communications link for computers
[NASA-CASE-NPO-11161] c 08 N72-25207
Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] c 60 N84-28492
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154

CONCAVITY
Concave grating spectrometer Patent
[NASA-CASE-XGS-01036] c 14 N70-40003

CONCENTRATORS
Device for directionally controlling electromagnetic radiation Patent
[NASA-CASE-XLE-01716] c 09 N70-40234
Thermostatically controlled non-tracking type solar energy concentrator
[NASA-CASE-NPO-13497-1] c 44 N76-14602
Three-dimensional tracking solar energy concentrator and method for making same
[NASA-CASE-NPO-13736-1] c 44 N77-32583
Non-tracking solar energy collector system
[NASA-CASE-NPO-13817-1] c 44 N79-11471
Solar cell module
[NASA-CASE-NPO-14467-1] c 44 N79-31753
Solar concentrator
[NASA-CASE-MFS-23727-1] c 44 N80-14473
Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518
Nebulization reflux concentrator
[NASA-CASE-LAR-13254-1] c 31 N85-20154

CONCENTRIC CYLINDERS
Flow resistivity instrument
[NASA-CASE-LAR-13053-1] c 43 N83-29783
Telescoping Space Station modules
[NASA-CASE-LAR-13330-1] c 18 N86-20470

CONCENTRIC SPHERES
Method and apparatus for producing concentric hollow spheres --- inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319
Method and apparatus for producing gas-filled hollow spheres --- target pellets for inertial confinement fusion
[NASA-CASE-NPO-14596-3] c 31 N83-31896

CONDENSATES
Apparatus for testing polymeric materials Patent
[NASA-CASE-XNP-09699] c 06 N71-24607
Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c 77 N75-20139

CONDENSERS (LIQUEFIERS)
Condenser - Separator
[NASA-CASE-XLA-08645] c 15 N69-21465
Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c 77 N75-20139

CONDENSING
Preparation of heterocyclic block copolymer omega-diamidoximes
[NASA-CASE-ARC-11060-1] c 27 N79-22300

CONDUCTING FLUIDS
Multiducted electromagnetic pump Patent
[NASA-CASE-NPO-10755] c 15 N71-27084
Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c 37 N75-19686

CONDUCTIVE HEAT TRANSFER
Enthalpy and stagnation temperature determination of a high temperature laminar flow gas stream Patent
[NASA-CASE-XLE-00266] c 14 N70-34156
Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439
Compact pulsed laser having improved heat conductance
[NASA-CASE-NPO-13147-1] c 36 N77-25502
Automatic thermal switch
[NASA-CASE-GSC-12415-1] c 33 N82-24419

CONDUCTORS
Extensible cable support Patent
[NASA-CASE-XMF-07587] c 15 N71-18701
Method for making conductors for ferrite memory arrays --- from pre-formed metal conductors
[NASA-CASE-LAR-10994-1] c 24 N75-13032

CONES
Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475

CONFIGURATION MANAGEMENT
Reconfigurable work station for a video display unit and keyboard
[NASA-CASE-MFS-26009-1SB] c 54 N86-22114

CONFINEMENT
Observation window for a gas confining chamber
[NASA-CASE-NPO-10890] c 11 N73-12265

CONICAL BODIES
Conical valve plug Patent
[NASA-CASE-XLE-00715] c 15 N70-34859
Conical reflector antenna
[NASA-CASE-NPO-10303] c 07 N72-22127
Multiple reflection conical microwave antenna
[NASA-CASE-NPO-11661] c 07 N73-14130

CONICAL SCANNING
Conical scan tracking system employing a large antenna
[NASA-CASE-NPO-14009-1] c 32 N79-13214

CONICAL SHELLS
Device for determining the accuracy of the flare on a flared tube
[NASA-CASE-XKS-03495] c 14 N69-39785
Foldable solar concentrator Patent
[NASA-CASE-XLA-04622] c 03 N70-41580
Apparatus for machining geometric cones Patent
[NASA-CASE-XMS-04292] c 15 N71-22722

CONJUGATES
Phase conjugation method and apparatus for an active retrodirective antenna array
[NASA-CASE-NPO-13641-1] c 32 N79-24210

CONNECTORS
Connector strips-positive, negative and T tabs
[NASA-CASE-XGS-01395] c 03 N69-21539
Quick release connector Patent
[NASA-CASE-XLA-01141] c 15 N71-13789
Flared tube strainer
[NASA-CASE-XLA-05056] c 15 N72-11389
Process for making RF shielded cable connector assemblies and the products formed thereby
[NASA-CASE-GSC-11215-1] c 09 N73-28083
Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21225
Clamp-mount device
[NASA-CASE-MFS-25510-1] c 37 N84-16560
Apparatus for releasably connecting first and second objects in predetermined space relationship
[NASA-CASE-MSC-18969-1] c 18 N84-22605
Connection system --- insuring against loss of a tool component without using multiple tethers
[NASA-CASE-MSC-20319-1] c 37 N85-21649

CONSCIOUSNESS
EEG sleep analyzer and method of operation Patent
[NASA-CASE-MSC-13282-1] c 05 N71-24729

CONSISTENCY
Constant-output atomizer --- Inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406

CONSOLES
Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310

CONSTANTS
Spring operated accelerator and constant force spring mechanism therefor
[NASA-CASE-ARC-10898-1] c 35 N77-18417

CONSTRAINTS
Passive caging mechanism Patent
[NASA-CASE-GSC-10306-1] c 15 N71-24694
Cable restraint
[NASA-CASE-LAR-10129-1] c 15 N73-25512
Restraint system for ergometer
[NASA-CASE-MFS-21046-1] c 14 N73-27377
Reefing system
[NASA-CASE-LAR-10129-2] c 37 N74-20063
Restraining mechanism
[NASA-CASE-MSC-13054] c 54 N78-17677
Spine immobilization apparatus
[NASA-CASE-ARC-11167-1] c 52 N81-25662

CONSTRUCTION MATERIALS
Foldable construction block
[NASA-CASE-MSC-12233-1] c 15 N72-25454
Foldable construction block
[NASA-CASE-MSC-12233-2] c 32 N73-13921
CONTACT POTENTIALS
Ionospheric battery Patent
[NASA-CASE-XGS-01593] c 03 N70-35408
CONTAINERLESS MELTS
Method of crystallization --- in gravity-free environments
[NASA-CASE-MFS-23001-1] c 76 N77-32919
Production of ultrapure amorphous metals utilizing acoustic cooling
[NASA-CASE-NPO-15658-1] c 26 N83-19890
Gas levitator having fixed levitation node for *containerless processing*
[NASA-CASE-MFS-25509-1] c 35 N83-24828
Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650
Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28090-1] c 27 N86-21684
CONTAINERS
Fluid containers and resealable septum therefor Patent
[NASA-CASE-NPO-10123] c 15 N71-24835
Method for detecting leaks in hermetically sealed containers Patent
[NASA-CASE-ERC-10045] c 15 N71-24910
Apparatus for detecting the amount of material in a resonant cavity container Patent
[NASA-CASE-XNP-02500] c 18 N71-27397
CONTAINMENT
Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991
CONTAMINANTS
Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089
Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279
CONTAMINATION
Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871
Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922
Gas liquefication and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372
Bacterial contamination monitor
[NASA-CASE-GSC-10879-1] c 14 N72-25413
Biocontamination and particulate detection system
[NASA-CASE-NPO-13953-1] c 35 N79-28527
CONTINUOUS RADIATION
CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c 39 N78-15512
Pseudo continuous wave instrument --- ultrasonics
[NASA-CASE-LAR-12260-1] c 35 N79-10390
Low-frequency radio navigation system
[NASA-CASE-NPO-15264-1] c 04 N84-27713
CONTINUOUS WAVE LASERS
High power laser apparatus and system
[NASA-CASE-XLE-2529-2] c 36 N75-27364
Continuous plasma laser --- method and apparatus for producing intense, coherent, monochromatic light from low temperature plasma
[NASA-CASE-XNP-04167-3] c 36 N77-19416
Stark effect spectrophone for continuous absorption spectra monitoring --- a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159
Coherently pulsed laser source
[NASA-CASE-NPO-15111-1] c 36 N82-29589
Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943
CONTINUOUS WAVE RADAR
Phase-locked loop with sideband rejecting properties Patent
[NASA-CASE-XNP-02723] c 07 N70-41680
FM/CW radar system
[NASA-CASE-MFS-22234-1] c 32 N79-10264
CONTOURS
Contour surveying system Patent
[NASA-CASE-XLA-08646] c 14 N71-17586
Contourograph system for monitoring electrocardiograms
[NASA-CASE-MSC-13407-1] c 10 N72-20225
Variable contour securing system
[NASA-CASE-MSC-16270-1] c 37 N78-27423
Device for measuring the contour of a surface
[NASA-CASE-LAR-11869-1] c 74 N78-27904
Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c 52 N79-10724
Contour measurement system
[NASA-CASE-MFS-23726-1] c 43 N79-26439
Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388
Surface conforming thermal/pressure seal --- tail assemblies of space shuttle orbiters
[NASA-CASE-MSC-18422-1] c 37 N82-16408
Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711
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Dual latching solenoid valve Patent
[NASA-CASE-XMS-05890] c 09 N71-23191
Apparatus for testing a pressure responsive instrument Patent
[NASA-CASE-XMF-04134] c 14 N71-23755
Failure detection and control means for improved drift performance of a gimballed platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175
Power factor control system for ac induction motors
[NASA-CASE-MFS-23988-1] c 33 N81-27395
Control means for a solid state crossbar switch
[NASA-CASE-NPO-15066-1] c 33 N82-29538
Television camera video level control system
[NASA-CASE-MSC-18578-1] c 32 N85-21427
CONTROL BOARDS
Pressure monitoring with a plurality of ionization gauges controlled at a central location Patent
[NASA-CASE-XLE-00787] c 14 N71-21090
CONTROL DATA (COMPUTERS)
Computer interface system
[NASA-CASE-NPO-13428-1] c 60 N77-12721
CONTROL EQUIPMENT
Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772
Drift compensation circuit for analog to digital converter Patent
[NASA-CASE-XNP-04780] c 08 N71-19687
Attitude controls for VTOL aircraft Patent
[NASA-CASE-XAC-08972] c 02 N71-20570
Control device Patent
[NASA-CASE-XAC-10019] c 15 N71-23809
Controlled release device Patent
[NASA-CASE-XKS-03338] c 15 N71-24043
Dual polarity full wave dc motor drive Patent
[NASA-CASE-XNP-07477] c 09 N71-26092
Digital memory in which the driving of each word location is controlled by a switch core Patent
[NASA-CASE-XNP-01466] c 10 N71-26434
Fluid jet amplifier Patent
[NASA-CASE-XLE-09341] c 12 N71-28741
System for controlling the operation of a variable signal device
[NASA-CASE-NPO-11064] c 07 N72-11150
Solid state remote circuit selector switch
[NASA-CASE-LEW-10387] c 09 N72-22201
Synchronous orbit battery cycler
[NASA-CASE-GSC-11211-1] c 03 N72-25020
Infinite range electronics gain control circuit
[NASA-CASE-GSC-10786-1] c 10 N72-28241
Interferometric rotation sensor
[NASA-CASE-ARC-10278-1] c 14 N73-25463
Digital controller for a Baum folding machine --- providing automatic counting and machine shutoff
[NASA-CASE-LAR-10688-1] c 37 N74-21056
Flow control valve --- for high temperature fluids
[NASA-CASE-NPO-11951-1] c 37 N74-21065
Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MSC-14245-1] c 18 N75-27041
Anthropomorphic master/slave manipulator system
[NASA-CASE-ARC-10756-1] c 54 N77-32721
Power factor control system for AC induction motors
[NASA-CASE-MFS-23280-1] c 33 N78-10376
Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c 37 N78-17384
Control for nuclear thermionic power source
[NASA-CASE-NPO-13114-2] c 73 N78-28913
Illumination control apparatus for compensating solar light
[NASA-CASE-KSC-11010-1] c 74 N79-12890
Dual acting slit control mechanism
[NASA-CASE-LAR-11370-1] c 35 N80-28686
Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718
Means for controlling aerodynamically induced twist
[NASA-CASE-LAR-12175-1] c 05 N82-28279
Electronic system for high power load control --- solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126
Pulsed thyristor trigger control circuit
[NASA-CASE-MFS-25616-1] c 33 N84-16455
Apparatus and method of capturing an orbiting satellite
[NASA-CASE-MSC-20979-1] c 37 N86-19614
CONTROL ROCKETS
Decomposition unit Patent
[NASA-CASE-XMS-00583] c 28 N70-38504
CONTROL RODS
Null device for hand controller Patent
[NASA-CASE-XLA-01808] c 15 N71-20740
CONTROL SIMULATION
Helmet weight simulator
[NASA-CASE-LAR-12320-1] c 54 N81-27806
CONTROL STABILITY
Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115
Apparatus for damping operator induced oscillations of a controlled system --- flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493
CONTROL SURFACES
Conical valve plug Patent
[NASA-CASE-XLE-00715] c 15 N70-34859
Attitude control for spacecraft Patent
[NASA-CASE-XNP-02982] c 31 N70-41855
Vortex-lift roll-control device
[NASA-CASE-LAR-11868-2] c 08 N79-14108
Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968
Thermal barrier pressure seal --- shielding junctions between spacecraft control surfaces and structures
[NASA-CASE-MSC-18134-1] c 37 N81-15363
CONTROL SYSTEMS DESIGN
Reactant pressure differential control for fuel cell gases
[NASA-CASE-MSC-20127-2] c 37 N85-34403
Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681
CONTROL UNITS (COMPUTERS)
Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633
CONTROL VALVES
Electromechanical actuator
[NASA-CASE-XNP-05975] c 15 N69-23185
Full flow with shut off and selective drainage control valve Patent application
[NASA-CASE-ERC-10208] c 15 N70-10867
Conical valve plug Patent
[NASA-CASE-XLE-00715] c 15 N70-34859
Control valve and co-axial variable injector Patent
[NASA-CASE-XNP-09702] c 15 N71-17654
Electrohydrodynamic control valve Patent
[NASA-CASE-NPO-10416] c 12 N71-27332
Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c 15 N71-27432
Dual stage check valve
[NASA-CASE-MSC-13587-1] c 15 N73-30459
Airflow control system for supersonic inlets
[NASA-CASE-LEW-11188-1] c 02 N74-20646
Ultrasonically bonded value assembly
[NASA-CASE-NPO-13360-1] c 37 N75-25185
Pressure modulating value
[NASA-CASE-MSC-14905-1] c 37 N77-28487
Fluid valve assembly
[NASA-CASE-MSC-12731-1] c 37 N78-25426
Flow diverter value and flow diversion method
[NASA-CASE-HQN-00573-1] c 37 N79-33468
Quartz ball value
[NASA-CASE-NPO-14473-1] c 37 N80-23654
Pressure control valve --- inflating flexible bladders
[NASA-CASE-ARC-11251-1] c 37 N81-17433
Electrical servo actuator bracket --- fuel control valves on jet engines
[NASA-CASE-FRC-11044-1] c 37 N81-33483
Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603
Slow opening valve --- valve design for shuttle portable oxygen system
[NASA-CASE-MSC-20112-1] c 37 N85-20338
Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N86-19611
Advanced vapor supply manifold
[NASA-CASE-LAR-13259-1] c 37 N86-20800
CONTROLLED ATMOSPHERES
Electrical connector Patent Application
[NASA-CASE-MFS-14741] c 09 N70-20737
High voltage pulse generator Patent
[NASA-CASE-MSC-12178-1] c 09 N71-13518
Exposure system for animals Patent
[NASA-CASE-XAC-05333] c 11 N71-22875
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612

CONTROLLERS
Three axis controller Patent
[NASA-CASE-XFR-00181] c 21 N70-33279
Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073
Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255
Solid state controller three axes controller
[NASA-CASE-MSC-12394-1] c 08 N74-10942
Wide power range microwave feedback controller
[NASA-CASE-GSC-12146-1] c 33 N78-32340
Active nutation controller
[NASA-CASE-GSC-12273-1] c 35 N80-21719
Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432
Controller for computer control of brushless dc motors --- automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352
Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360
Thumb actuated two axis controller
[NASA-CASE-ARC-11372-1] c 08 N83-12098
Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N84-27975
Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661
Fluidic momentum controller
[NASA-CASE-MSC-20906-1] c 18 N86-19344
Reconfigurable work station for a video display unit and keyboard
[NASA-CASE-MFS-26009-1SB] c 54 N86-22114

CONVECTION
Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] c 76 N84-12968

CONVECTIVE FLOW
Geysering inhibitor for vertical cryogenic transfer pipe
[NASA-CASE-KSC-10615] c 15 N73-12486
Method and apparatus for convection control of metallic halide vapor density in a metallic halide laser
[NASA-CASE-NPO-15021-1] c 36 N83-10417

CONVECTIVE HEAT TRANSFER
Thin film gauge --- for measuring convective heat transfer rates along test surfaces in wind tunnels
[NASA-CASE-NPO-10617-1] c 35 N74-22095

CONVERGENCE
Shock wave convergence apparatus
[NASA-CASE-MFS-20890] c 14 N72-22439

CONVERGENT NOZZLES
Nozzle extraction process and handlemeter for measuring handle
[NASA-CASE-LAR-12147-1] c 31 N79-11246

CONVERGENT-DIVERGENT NOZZLES
Gimbaled, partially submerged rocket nozzle Patent
[NASA-CASE-XMF-01544] c 28 N70-34162
Combustion chamber Patent
[NASA-CASE-XLE-04857] c 28 N71-23968
Aircraft engine nozzle
[NASA-CASE-ARC-10977-1] c 07 N80-32392
Wind tunnel supplementary Mach number minimum section insert
[NASA-CASE-LAR-12532-1] c 09 N82-11088

CONVERSION
Technique for measuring gas conversion factors
[NASA-CASE-LAR-13220-1] c 34 N86-12547

CONVERTERS
Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c 35 N76-16391

CONVEYORS
System and method for refurbishing and processing parachutes --- monorial conveyor system
[NASA-CASE-KSC-11042-2] c 02 N81-26073
Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330
Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187
Acoustic system for material transport
[NASA-CASE-NPO-15453-1] c 71 N83-32515
Shuttle car loading system
[NASA-CASE-NPO-15949-1] c 85 N85-34722

COOLANTS
Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182

COOLERS
Stirling cycle cryogenic cooler --- magnetically suspended pistons
[NASA-CASE-GSC-12697-1] c 31 N82-11312

COOLING
Microwave power receiving antenna Patent
[NASA-CASE-MFS-20333] c 09 N71-13486
Voltage regulator with plural parallel power source sections Patent
[NASA-CASE-GSC-10891-1] c 10 N71-26626
Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440
Compact pulsed laser having improved heat conductance
[NASA-CASE-NPO-13147-1] c 36 N77-25502
Steam cooled rich-burn combustor liner
[NASA-CASE-LEW-13609-1] c 25 N83-17628
Heating and cooling system --- for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221
Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560
Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
Air modulation apparatus
[NASA-CASE-LEW-13524-1] c 07 N84-33410
Heat pipe cooled probe
[NASA-CASE-LAR-12588-1] c 34 N85-21568

COOLING SYSTEMS
Automatic thermal switch Patent
[NASA-CASE-XNP-03796] c 23 N71-15467
Differential temperature transducer Patent
[NASA-CASE-XAC-00812] c 14 N71-15598
Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114-2] c 09 N71-24807
Cryogenic cooling system Patent
[NASA-CASE-NPO-10467] c 23 N71-26654
Self-adjusting multisegment, deployable, natural circulation radiator Patent
[NASA-CASE-XHQ-03673] c 33 N71-29046
Heat conductive resiliently compressible structure for space electronics package modules Patent
[NASA-CASE-MSC-12389] c 33 N71-29052
Method and device for cooling Patent
[NASA-CASE-HQN-00938] c 33 N71-29053
Liquid spray cooling method Patent
[NASA-CASE-XLE-00027] c 33 N71-29152
Radial heat flux transformer
[NASA-CASE-NPO-10828] c 33 N72-17948
Light shield and cooling apparatus --- high intensity ultraviolet lamp
[NASA-CASE-LAR-10089-1] c 34 N74-23066
Refrigerated coaxial coupling --- for microwave equipment
[NASA-CASE-NPO-13504-1] c 33 N75-30430
Rocket chamber and method of making
[NASA-CASE-LEW-11118-2] c 20 N76-14191
Tubular sublimatory evaporator heat sink
[NASA-CASE-ARC-10912-1] c 34 N77-19353
Arc control in compact arc lamps
[NASA-CASE-NPO-10870-1] c 33 N77-22386
Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12830-1] c 07 N77-23106
Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12321-1] c 37 N78-10467
Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237
Multistation refrigeration system
[NASA-CASE-NPO-13839-1] c 31 N78-25256
Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721
Heat exchanger --- rocket combustion chambers and cooling systems
[NASA-CASE-LEW-12252-1] c 34 N79-13288
Closed loop spray cooling apparatus
[NASA-CASE-LEW-11981-2] c 34 N79-20336
Ozonation of cooling tower waters
[NASA-CASE-NPO-14340-1] c 45 N80-14579
Heat exchanger and method of making
[NASA-CASE-LEW-12441-3] c 44 N81-24519
Cooling system for high speed aircraft
[NASA-CASE-LAR-12406-1] c 05 N81-26114
Waveguide cooling system
[NASA-CASE-NPO-15401-1] c 32 N83-27085
Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324
Radiative cooler --- spacecraft radiators
[NASA-CASE-NPO-15465-1] c 34 N84-22903
Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
High thermal power density heat transfer apparatus providing electrical isolation at high temperature using heat pipes
[NASA-CASE-LEW-12950-2] c 34 N85-29179
Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182
Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] c 37 N85-29286
Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] c 34 N85-33433

COORDINATES
Mechanical coordinate converter Patent
[NASA-CASE-XNP-00614] c 14 N70-36907
Lightning tracking system
[NASA-CASE-KSC-10729-1] c 09 N73-32110
Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056

COPOLYMERIZATION
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-1] c 27 N84-27885
Chemical control of nadimide cure temperature and rate
[NASA-CASE-LEW-13770-2] c 25 N85-28982
High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1-SB] c 24 N85-30033
Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560

COPOLYMERS
Method of producing alternating ether siloxane copolymers Patent
[NASA-CASE-XMF-02584] c 06 N71-20905
Dicyanoacetylene polymers Patent
[NASA-CASE-XNP-03250] c 06 N71-23500
Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-3] c 27 N80-24438
Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187
Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-3] c 27 N85-21350
Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-4] c 27 N85-21351
Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144
High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1-SB] c 24 N85-30033
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380

COPPER
Method for etching copper Patent
[NASA-CASE-XGS-06306] c 17 N71-16044
Method of plating copper on aluminum Patent
[NASA-CASE-XLA-08966-1] c 17 N71-25903
Brazing alloy composition
[NASA-CASE-XMF-06053] c 26 N75-27126
Method for making an aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-1] c 44 N79-11469
Metal (2) 4,4',4',4'' phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281

COPPER ALLOYS
Zirconium modified nickel-copper alloy
[NASA-CASE-LEW-12245-1] c 26 N77-20201
Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015

COPPER COMPOUNDS
Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440
Brazing alloy
[NASA-CASE-XNP-03878] c 26 N75-27127

COPPER FLUORIDES
Preparation of high purity copper fluoride
[NASA-CASE-LEW-10794-1] c 06 N72-17093

COPPER OXIDES
Textured carbon surfaces on copper
[NASA-CASE-LEW-14130-1] c 31 N85-20156

CORDAGE
Method of forming a root cord restrained convolute section
[NASA-CASE-MSC-12398] c 05 N72-20098

CORE STORAGE
Semiconductor-ferroelectric memory device
[NASA-CASE-ERC-10307] c 08 N72-21198

CORES
Method of making rolling element bearings
[NASA-CASE-LEW-11087-2] c 37 N74-15128
Electromagnetic transducer recording head having a laminated core section and tapered gap
[NASA-CASE-NPO-10711-1] c 35 N77-21392
Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296

CORK (MATERIALS)
Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388
CORRECTION
Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978
CORRELATION
Clutter free synthetic aperture radar correlator
[NASA-CASE-NPO-14035-1] c 32 N83-19968
CORRELATION DETECTION
Correlation type phase detector --- with time correlation integrator for frequency multiplexed signals
[NASA-CASE-GSC-11744-1] c 33 N75-26243
Interferometric locating system
[NASA-CASE-NPO-14173-1] c 04 N80-32359
CORRELATORS
Millimeter wave radiometer for radio astronomy Patent
[NASA-CASE-XNP-09832] c 30 N71-23723
Digital demodulator-correlator
[NASA-CASE-NPO-13982-1] c 32 N79-14267
Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29308
Serial data correlator/code translator
[NASA-CASE-KSC-11025-1] c 32 N83-13323
CORROSION
Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039
CORROSION PREVENTION
Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00284] c 15 N71-16075
Method of inhibiting stress corrosion cracks in titanium alloys Patent
[NASA-CASE-NPO-10271] c 17 N71-16393
Controlled glass bead peening Patent
[NASA-CASE-XLA-07390] c 15 N71-18616
Corrosion resistant beryllium Patent
[NASA-CASE-LEW-10327] c 17 N71-33408
Prevention of hydrogen embrittlement of high strength steel by hydrazine compositions --- by adding potassium hydroxide to hydrazine
[NASA-CASE-NPO-12122-1] c 24 N76-14203
Ozonation of cooling tower waters
[NASA-CASE-NPO-14340-1] c 45 N80-14579
Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441
Heat pipes containing alkali metal working fluid
[NASA-CASE-LEW-12253-1] c 74 N83-19596
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N84-20670
CORROSION RESISTANCE
High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-00726] c 17 N71-15644
Solder flux which leaves corrosion-resistant coating Patent
[NASA-CASE-XNP-03459-2] c 18 N71-15688
High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-02991] c 17 N71-16025
Soldering with solder flux which leaves corrosion resistant coating Patent
[NASA-CASE-XNP-03459] c 15 N71-21078
Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482
Corrosion resistant thermal barrier coating --- protecting gas turbines and other engine parts
[NASA-CASE-LEW-13088-1] c 26 N81-25188
Sandblasting nozzle
[NASA-CASE-NPO-13823-1] c 37 N81-25371
Covering solid, film cooled surfaces with a duplex thermal barrier coating
[NASA-CASE-LEW-13450-1] c 31 N83-35177
Carbon granule probe microphone for leak detection --- recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597
Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005
CORRUGATED PLATES
Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296
CORRUGATING
Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c 32 N80-29539
Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296
Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450
COSINE SERIES
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-10503-1] c 09 N72-21248
Function generator for synthesizing complex vibration mode patterns
[NASA-CASE-LAR-10310-1] c 10 N73-20253
COSMIC DUST
Cosmic dust sensor
[NASA-CASE-GSC-10503-1] c 14 N72-20381
Cosmic dust or other similar outer space particles impact location detector
[NASA-CASE-GSC-11291-1] c 25 N72-33696
Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c 35 N75-27331
Cosmic dust analyzer
[NASA-CASE-MSC-13802-2] c 35 N76-15431
COST ANALYSIS
Low cost solar energy collection system
[NASA-CASE-NPO-13579-1] c 44 N78-17460
COST EFFECTIVENESS
Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] c 27 N84-33589
Aerobraking orbital transfer vehicle
[NASA-CASE-MSC-20921-1] c 18 N86-20471
COUCHES
Shock absorbing support and restraint means Patent
[NASA-CASE-XMS-01240] c 05 N70-35152
Energy absorbing structure Patent Application
[NASA-CASE-MSC-12279-1] c 15 N70-35679
Articulated multiple couch assembly Patent
[NASA-CASE-MSC-11253] c 05 N71-12343
Collapsible Apollo couch
[NASA-CASE-MSC-13140] c 05 N72-11085
COULOMETERS
Electrochemical coulometer and method of forming same Patent
[NASA-CASE-XGS-05434] c 03 N71-20491
Coulometer and third electrode battery charging circuit Patent
[NASA-CASE-GSC-10487-1] c 03 N71-24719
State-of-charge coulometer
[NASA-CASE-NPO-15759-1] c 35 N85-21596
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Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137
Electronic strain-level counter
[NASA-CASE-LAR-10756-1] c 32 N73-26910
Electrochemical detection device --- for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073
Redundant operation of counter modules
[NASA-CASE-NPO-14162-1] c 60 N81-15706
Film advance indicator
[NASA-CASE-LAR-12474-1] c 35 N82-26628
Apparatus and process for microbial detection and enumeration
[NASA-CASE-LAR-12709-1] c 35 N82-28604
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Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432
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[NASA-CASE-XGS-03095] c 09 N69-27463
Relay binary circuit Patent
[NASA-CASE-XMF-00421] c 09 N70-34502
Reversible ring counter employing cascaded single SCR stages Patent
[NASA-CASE-XGS-01473] c 09 N71-10673
Meteoroid sensing apparatus having a coincidence network connected to a pair of capacitors Patent
[NASA-CASE-XLE-01246] c 14 N71-10797
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[NASA-CASE-XNP-08836] c 09 N71-12515
Synchronous counter Patent
[NASA-CASE-XGS-02440] c 08 N71-19432
Digital cardiotachometer system Patent
[NASA-CASE-XMS-02399] c 05 N71-22896
Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
Noninterruptable digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891
Frequency measurement by coincidence detection with standard frequency
[NASA-CASE-MSC-14649-1] c 33 N76-16331
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Coupling for linear shaped charge Patent
[NASA-CASE-XLA-00189] c 33 N70-36846
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[NASA-CASE-NPO-11059] c 15 N72-17454
Coupled cavity traveling wave tube with velocity tapering
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[NASA-CASE-MFS-25302-2] c 33 N84-33660
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[NASA-CASE-XGS-03058] c 10 N71-19547
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[NASA-CASE-GSC-10220-1] c 07 N71-27233
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[NASA-CASE-MSC-13201-1] c 07 N71-28429
Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430
Automatic quadrature control and measuring system --- using optical coupling circuitry
[NASA-CASE-MFS-21660-1] c 35 N74-21017
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c 33 N75-19520
Non-contacting power transfer device
[NASA-CASE-GSC-12595-1] c 33 N82-24422
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Coupling device
[NASA-CASE-XMS-07846-1] c 09 N69-21927
Tubular coupling having frangible connecting means
[NASA-CASE-XLA-02854] c 15 N69-27490
Quick release separation mechanism Patent
[NASA-CASE-XLA-01441] c 15 N70-41679
Indexed keyed connection Patent
[NASA-CASE-XMS-02532] c 15 N70-41808
Quick attach and release fluid coupling assembly Patent
[NASA-CASE-XKS-01985] c 15 N71-10782
Ratchet mechanism Patent
[NASA-CASE-MFS-12805] c 15 N71-17805
Split nut separation system Patent
[NASA-CASE-XNP-06914] c 15 N71-21489
Duct coupling for single-handed operation Patent
[NASA-CASE-MFS-20395] c 15 N71-24903
Isolation coupling arrangement for a torque measuring system
[NASA-CASE-XLA-04897] c 15 N72-22482
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[NASA-CASE-NPO-13504-1] c 33 N75-30430
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[NASA-CASE-GSC-12059-1] c 35 N77-27366
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[NASA-CASE-KSC-11069-1] c 52 N79-26772
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[NASA-CASE-GSC-12322-1] c 37 N80-14398
Device for coupling a first vehicle to a second vehicle
[NASA-CASE-GSC-12429-1] c 37 N81-14320
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[NASA-CASE-ARC-11114-1] c 51 N81-14605
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[NASA-CASE-MSC-18742-1] c 37 N82-26673
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[NASA-CASE-MSC-18969-1] c 18 N84-22605
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[NASA-CASE-ARC-11423-1] c 03 N84-33394
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Method of inhibiting stress corrosion cracks in titanium alloys Patent
[NASA-CASE-NPO-10271] c 17 N71-16393
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[NASA-CASE-XLE-02082] c 17 N71-16026
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Discharge cell for optogalvanic spectroscopy having orthogonal relationship between the probe laser and discharge axis
[NASA-CASE-NPO-16271-1] c 36 N84-15537
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[NASA-CASE-XLA-00675] c 25 N70-33267
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[NASA-CASE-XLE-00212] c 03 N70-34134
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[NASA-CASE-XLA-03374] c 25 N71-15562
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[NASA-CASE-NPO-10714] c 06 N69-31244
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[NASA-CASE-LEW-12053-1] c 27 N78-15276
Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c 27 N78-31232
In situ self cross-linking of polyvinyl alcohol battery separators
[NASA-CASE-LEW-12972-1] c 44 N79-25481
Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307
Method of cross-linking polyvinyl alcohol and other water soluble resins
[NASA-CASE-LEW-13103-1] c 27 N80-32516
Process for the preparation of fluorine containing crosslinked elastomeric polytriazine and product so produced
[NASA-CASE-ARC-11248-1] c 27 N81-17259
The 1,2,4-oxadiazole elastomers --- heat resistant polymers
[NASA-CASE-ARC-11253-1] c 27 N81-17262
In-situ cross linking of polyvinyl alcohol --- application to battery separator films
[NASA-CASE-LEW-13135-2] c 27 N81-24257
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[NASA-CASE-LEW-13101-2] c 23 N81-29160
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[NASA-CASE-LEW-13504-1] c 25 N83-13188
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[NASA-CASE-NPO-14857-1] c 27 N83-19900
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[NASA-CASE-LEW-12876-2] c 27 N83-29392
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[NASA-CASE-NPO-14987-1] c 24 N83-33950
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[NASA-CASE-LAR-12838-1] c 27 N83-34040
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[NASA-CASE-LAR-12931-1] c 27 N84-22747
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[NASA-CASE-LAR-12723-1] c 27 N85-20123
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-5] c 27 N85-21352
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[NASA-CASE-LEW-13770-2] c 25 N85-28982
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Evaporant holder
[NASA-CASE-XLA-03105] c 15 N69-27483
CRUCIFORM WINGS
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[NASA-CASE-LAR-12615-1] c 05 N84-12154
CRUDE OIL
Decontamination of petroleum products Patent
[NASA-CASE-XNP-03835] c 06 N71-23499
Crude oil desulfurization
[NASA-CASE-NPO-14542-1] c 25 N82-23282
CRUSTAL FRACTURES
System for real-time crustal deformation monitoring
[NASA-CASE-NPO-14124-1] c 46 N80-14603
CRYOGENIC COOLING
Support assembly for cryogenically coolable low-noise choke waveguide
[NASA-CASE-NPO-14253-1] c 32 N80-32605
Low cost cryostat
[NASA-CASE-NPO-14513-1] c 35 N81-14287
Stirling cycle cryogenic cooler --- magnetically suspended pistons
[NASA-CASE-GSC-12697-1] c 31 N82-11312
Stirling cycle cryogenic cooler
[US-PATENT-4,389,849] c 44 N83-28574
Propulsion apparatus and method using boil-off gas from a cryogenic liquid --- controlling spacecraft attitude and drag
[NASA-CASE-MFS-25946-1] c 20 N84-15183
CRYOGENIC EQUIPMENT
Refrigeration apparatus
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Piping arrangement through a double chamber structure
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Method and apparatus for cryogenic wire stripping Patent
[NASA-CASE-MFS-10340] c 15 N71-17628
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[NASA-CASE-GSC-10188-1] c 23 N71-24725
Valving device for automatic refilling in cryogenic liquid systems
[NASA-CASE-NPO-11177] c 15 N72-17453
Dual stage check valve
[NASA-CASE-MSC-13587-1] c 15 N73-30459
Heat operated cryogenic electrical generator
[NASA-CASE-NPO-13303-1] c 20 N75-24837
Cryostat system for temperatures on the order of 2 deg K or less
[NASA-CASE-NPO-13459-1] c 31 N77-10229
Device for tensioning test specimens within an hermetically sealed chamber
[NASA-CASE-MFS-23281-1] c 35 N77-22450
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[NASA-CASE-NPO-13839-1] c 31 N78-25256
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[NASA-CASE-GSC-12173-1] c 51 N79-10694
Shock isolator for operating a diode laser on a closed-cycle refrigerator
[NASA-CASE-GSC-12297-1] c 37 N79-28549
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[NASA-CASE-MSC-18106-1] c 33 N82-11357
Resilient seal ring assembly with spring means applying force to wedge member --- cryogenic applications
[NASA-CASE-MFS-25678-1] c 37 N84-11497
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[NASA-CASE-GSC-12799-1] c 31 N85-21404
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[NASA-CASE-XLE-00345] c 15 N70-38020
Cryogenic storage system Patent
[NASA-CASE-XMS-04390] c 31 N70-41871
Techniques for insulating cryogenic fuel containers Patent
[NASA-CASE-XLA-01967] c 31 N70-42015
Method of making a filament-wound container Patent
[NASA-CASE-XLE-03803-2] c 15 N71-17651
Cryogenic insulation system Patent
[NASA-CASE-XLE-04222] c 23 N71-22881
Panelized high performance multilayer insulation Patent
[NASA-CASE-MFS-14023] c 33 N71-25351
Cryogenic thermal insulation Patent
[NASA-CASE-XMF-05046] c 33 N71-28892
Zero gravity shadow shield aligner
[NASA-CASE-KSC-10622-1] c 31 N72-21893
Heater-mixer for stored fluids
[NASA-CASE-ARC-10442-1] c 35 N74-15093
Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21225
Cryogenic container compound suspension strap
[NASA-CASE-ARC-11157-1] c 37 N80-18393
Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841
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Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02407] c 14 N69-27423
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[NASA-CASE-XLE-00288] c 15 N70-34247
Conical valve plug Patent
[NASA-CASE-XLE-00715] c 15 N70-34859
Fluid coupling Patent
[NASA-CASE-XLE-00397] c 15 N70-36492
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[NASA-CASE-XLE-00688] c 14 N70-41330
Cryogenic connector for vacuum use Patent
[NASA-CASE-XGS-02441] c 15 N70-41629
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[NASA-CASE-XLE-02998] c 14 N70-42074
Automatic thermal switch Patent
[NASA-CASE-XNP-03796] c 23 N71-15467
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[NASA-CASE-XLE-00586] c 15 N71-15968
Apparatus for measuring thermal conductivity Patent
[NASA-CASE-XGS-01052] c 14 N71-15992
Process of forming particles in a cryogenic path Patent
[NASA-CASE-NPO-10250] c 23 N71-16212
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[NASA-CASE-XLE-02823] c 09 N71-23443
Flow angle sensor and read out system Patent
[NASA-CASE-XLE-04503] c 14 N71-24864
Geysering inhibitor for vertical cryogenic transfer pipe
[NASA-CASE-KSC-10615] c 15 N73-12486
Magnetocaloric pump --- for cryogenic fluids
[NASA-CASE-LEW-11672-1] c 37 N74-27904
Cryogenic liquid sensor
[NASA-CASE-NPO-10619-1] c 35 N77-21393
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Cryogenic gyroscope housing --- with annular disks for gas spin-up
[NASA-CASE-MFS-21136-1] c 35 N74-18323
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Superconducting alternator
[NASA-CASE-XLE-02824] c 03 N69-39890
CRYOGENIC ROCKET PROPELLANTS
Quick attach and release fluid coupling assembly Patent
[NASA-CASE-XKS-01985] c 15 N71-10782
Hot wire liquid level detector for cryogenic fluids Patent
[NASA-CASE-XLE-00454] c 23 N71-17802
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[NASA-CASE-XNP-04731] c 15 N71-24042
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[NASA-CASE-XLE-02647] c 18 N71-23658
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[NASA-CASE-XLE-03803] c 15 N71-23816
CRYOGENIC WIND TUNNELS
Continuous self-locking spiral wound seal --- for maintaining pressure between chambers in cryogenic wind tunnels
[NASA-CASE-LAR-12315-1] c 37 N82-24490
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[NASA-CASE-XMF-02786] c 17 N71-20743
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[NASA-CASE-NPO-10467] c 23 N71-26654
Germanium coated microbridge and method
[NASA-CASE-MFS-23274-1] c 33 N78-13320
Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures
[NASA-CASE-NPO-14254-1] c 36 N80-18372
High toughness-high strength iron alloy
[NASA-CASE-LEW-12542-3] c 26 N80-32484
Multispectral scanner optical system
[NASA-CASE-MSC-18255-1] c 74 N80-33210
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[NASA-CASE-NPO-10424-1] c 27 N81-24258
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Ultraviolet filter
[NASA-CASE-XNP-02340] c 23 N69-24332
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[NASA-CASE-XMF-02964] c 14 N71-17659
Horizontal cryostat for fatigue testing Patent
[NASA-CASE-XMF-10968] c 14 N71-24234
Heater-mixer for stored fluids
[NASA-CASE-ARC-10442-1] c 35 N74-15093
Cryostat system for temperatures on the order of 2 deg K or less
[NASA-CASE-NPO-13459-1] c 31 N77-10229

Low cost cryostat
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[NASA-CASE-NPO-13918-1] c 76 N79-11920
Method for growing low defect, high purity crystalline layers
[NASA-CASE-NPO-15813-2] c 76 N85-30933

CRYSTAL FILTERS
Infrared tunable laser
[NASA-CASE-ARC-10463-1] c 09 N73-32111
Partial polarizer filter
[NASA-CASE-GSC-12225-1] c 74 N79-14891

CRYSTAL GROWTH
Apparatus for producing high purity silicon carbide crystals Patent
[NASA-CASE-XLA-02057] c 26 N70-40015
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[NASA-CASE-NPO-10440] c 15 N72-21466
Vapor phase growth of groups 3-5 compounds by hydrogen chloride transport of the elements
[NASA-CASE-LAR-11144-1] c 25 N75-26043
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[NASA-CASE-LEW-12094-1] c 76 N76-25049
Method of crystallization --- in gravity-free environments
[NASA-CASE-MFS-23001-1] c 76 N77-32919
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[NASA-CASE-NPO-11150] c 35 N78-17359
Method of controlling defect orientation in silicon crystal ribbon growth
[NASA-CASE-NPO-13918-1] c 76 N79-11920
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[NASA-CASE-NPO-13969-1] c 76 N79-23798
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[NASA-CASE-NPO-14635-1] c 44 N80-24741
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[NASA-CASE-NPO-14297-1] c 33 N81-19389
Ampoule sealing apparatus and process --- for housing a semiconductor growth charge under vacuum
[NASA-CASE-LAR-12847-1] c 33 N83-16633
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[NASA-CASE-NPO-15625-1] c 76 N83-20789
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[NASA-CASE-MFS-25242-1] c 35 N83-29650
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[NASA-CASE-NPO-15811-1] c 76 N84-12968
Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] c 76 N84-35113
Total immersion crystal growth
[NASA-CASE-NPO-15800-2] c 76 N85-22178
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[NASA-CASE-NPO-15772-1] c 76 N85-29800
Low defect, high purity crystalline layers grown by selective deposition
[NASA-CASE-NPO-15813-1] c 76 N85-30922
Method for growing low defect, high purity crystalline layers
[NASA-CASE-NPO-15813-2] c 76 N85-30933

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[NASA-CASE-MFS-23315-1] c 76 N78-24950
Crystal cleaving machine
[NASA-CASE-GSC-12584-1] c 37 N82-32730

CRYSTAL OPTICS
Optical crystal temperature gauge with fiber optic connections
[NASA-CASE-MSC-18627-1] c 74 N82-30071

CRYSTAL OSCILLATORS
Microbalance including crystal oscillators for measuring contaminates in a gas system Patent
[NASA-CASE-NPO-10144] c 14 N71-17701
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[NASA-CASE-NPO-13804-1] c 33 N80-23559
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[NASA-CASE-GSC-12804-1] c 33 N86-20668

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[NASA-CASE-MFS-20385] c 09 N71-24904
Method and apparatus for slicing crystals
[NASA-CASE-GSC-12291-1] c 76 N80-18951
Crystal cleaving machine
[NASA-CASE-GSC-12584-1] c 37 N82-32730
Workpiece positioning vise
[NASA-CASE-GSC-12762-1] c 37 N84-28083

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[NASA-CASE-MSC-14836-1] c 52 N82-11770
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[NASA-CASE-MFS-25740-1] c 52 N84-11744

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[NASA-CASE-LAR-10507-1] c 11 N72-25284
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[NASA-CASE-LAR-11074-1] c 51 N75-13502
Automatic microbial transfer device
[NASA-CASE-LAR-11354-1] c 35 N75-27330
Electrochemical detection device --- for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073
Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698
Enhancement of in vitro guayule propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045
Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849
Flow through bacteria detection system
[NASA-CASE-LAR-12871-1] c 35 N85-29218
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[NASA-CASE-NPO-16203-1] c 23 N85-35227

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Ambient cure polyimide foams --- thermal resistant foams
[NASA-CASE-ARC-11170-1] c 27 N79-11215
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[NASA-CASE-LEW-13226-1] c 27 N81-17260
Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039
Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] c 24 N84-11213
Method and technique for installing light-weight, fragile, high-temperature fiber insulation
[NASA-CASE-MSC-16934-3] c 24 N84-16262
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-1] c 27 N84-27885
Chemical approach for controlling nadimide cure temperature and rate with maleimide
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Chemical control of nadimide cure temperature and rate
[NASA-CASE-LEW-13770-2] c 25 N85-28982
Metal (2) 4,4',4',4" phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380
Cure-in-place composite fastener
[NASA-CASE-LAR-12939-1] c 37 N86-20798
High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1SB] c 24 N86-21590
Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-2] c 27 N86-21675
Aminophenoxycyclotriphosphazene cured epoxy resins and the composites, laminates and structures thereof
[NASA-CASE-ARC-11548-1] c 27 N86-21686

CURRENT AMPLIFIERS
Multi-channel temperature measurement amplification system --- solar heating systems
[NASA-CASE-MFS-23775-1] c 44 N82-16474
Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421
A dc to dc converter
[NASA-CASE-MFS-25430-1] c 33 N84-16453

CURRENT DENSITY
Solid state switch
[NASA-CASE-XNP-09228] c 09 N69-27500
Method and apparatus for sputtering utilizing an apertured electrode and a pulsed substrate bias
[NASA-CASE-LEW-10920-1] c 17 N73-24569
Stable superconducting magnet --- high current levels below critical temperature
[NASA-CASE-XMF-05373-1] c 33 N79-21264
Catalyst surfaces for the chromous/chromic redox *couple*
[NASA-CASE-LEW-13148-2] c 44 N81-29524

CURRENT DISTRIBUTION
Connector - Electrical
[NASA-CASE-XLA-01288] c 09 N69-21470
Electrostatic ion rocket engine Patent
[NASA-CASE-XLE-02066] c 28 N71-15661
Reversible current control apparatus Patent
[NASA-CASE-XLA-09371] c 10 N71-18724
Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271
Load insensitive electrical device --- power converters for supplying direct current at one voltage from a source at another voltage
[NASA-CASE-XER-11046-2] c 33 N74-22864

CURRENT REGULATORS
Apparatus for ballasting high frequency transistors
[NASA-CASE-XGS-05003] c 09 N69-24318
Baseline stabilization system for ionization detector Patent
[NASA-CASE-XNP-03128] c 10 N70-41991
Magnetic core current steering commutator Patent
[NASA-CASE-NPO-10201] c 08 N71-18694
Increasing efficiency of switching type regulator circuits Patent
[NASA-CASE-XMS-09352] c 09 N71-23316
Saturation current protection apparatus for saturable core transformers Patent
[NASA-CASE-ERC-10075] c 09 N71-24800
Drive circuit for minimizing power consumption in inductive load Patent
[NASA-CASE-NPO-10716] c 09 N71-24892
Turn on transient limiter Patent
[NASA-CASE-GSC-10413] c 10 N71-26531
Current regulating voltage divider
[NASA-CASE-MFS-20935] c 09 N71-34212
Ripple indicator
[NASA-CASE-KSC-10162] c 09 N72-11225
Inrush current limiter
[NASA-CASE-GSC-11789-1] c 33 N77-14333
Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257
Three phase power factor controller
[NASA-CASE-MFS-25535-1] c 33 N81-12330
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[NASA-CASE-MFS-25586-1] c 33 N82-11360
Electronic system for high power load control --- solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126

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Spin forming tubular elbows Patent
[NASA-CASE-XMF-01083] c 15 N71-22723

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[NASA-CASE-ARC-10345-1] c 15 N73-12488
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[NASA-CASE-XMS-01554] c 10 N71-10578
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Method and apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917] c 15 N71-15597
Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436
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[NASA-CASE-NPO-10188] c 03 N71-20273
Apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917-2] c 15 N71-24836
Variable contour securing system
[NASA-CASE-MSC-16270-1] c 37 N78-27423
CUSHIONS
Seat cushion to provide realistic acceleration cues to aircraft simulator pilot
[NASA-CASE-LAR-12149-2] c 09 N79-31228
Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394
CUTTERS
Aligning and positioning device Patent
[NASA-CASE-XMS-04178] c 15 N71-22798
Weld preparation machine Patent
[NASA-CASE-XKS-07953] c 15 N71-26134
Microcircuit negative cutter
[NASA-CASE-XLA-09843] c 15 N72-27485
Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c 37 N74-25968
Grinding arrangement for ball nose milling cutters
[NASA-CASE-LAR-10450-1] c 37 N74-27905
Ophthalmic liquifaction pump
[NASA-CASE-LEW-12051-1] c 52 N75-33640
Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443
System for slicing silicon wafers
[NASA-CASE-NPO-14406-1] c 37 N80-29703
Open ended tubing cutters
[NASA-CASE-MSC-18538-1] c 37 N82-26672
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[NASA-CASE-LAR-12786-1] c 37 N84-28085
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[NASA-CASE-XLA-03102] c 14 N71-21079
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[NASA-CASE-LAR-11658-1] c 37 N77-14478
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[NASA-CASE-LAR-12624-1] c 01 N83-35992
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[NASA-CASE-LAR-12786-1] c 37 N84-28085
CYANATES
Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
CYANO COMPOUNDS
Process for preparing phthalocyanine polymers
[NASA-CASE-ARC-11511-1] c 23 N84-16259
CYCLES
Pneumatic system for controlling and actuating pneumatic cyclic devices
[NASA-CASE-XMS-04843] c 03 N69-21469
Feedback shift register with states decomposed into cycles of equal length
[NASA-CASE-NPO-11082] c 08 N72-22167
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Cyclical bi-directional rotary actuator
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CYCLIC COMPOUNDS
Carboranylcyclotriphosphazenes and their polymers --- thermal insulation
[NASA-CASE-ARC-11176-1] c 27 N82-18389
Maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] c 23 N86-19376
CYCLIC HYDROCARBONS
Intumescent composition, foamed product prepared therewith, and process for making same
[NASA-CASE-ARC-10304-1] c 18 N73-26572
Synthesis of 2,4,8,10-tetroxaspiro5,5undecane
[NASA-CASE-ARC-11243-2] c 23 N85-33187
CYCLIC LOADS
Automatic fatigue test temperature programmer Patent
[NASA-CASE-XLA-02059] c 33 N71-24276
Low cycle fatigue testing machine
[NASA-CASE-LAR-10270-1] c 32 N72-25877
Material fatigue testing system
[NASA-CASE-MFS-20673] c 14 N73-20476
CYCLOTRON RADIATION
Targets for producing high purity I-123
[NASA-CASE-LEW-10518-3] c 25 N78-27226
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Miniature cyclotron resonance ion source using small permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27163
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Miniature cyclotron resonance ion source using small permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27163
Gyrotron transmitting tube
[NASA-CASE-LEW-13429-1] c 33 N83-31952
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Alignment and assembly tool for very large diameter cylinders
[NASA-CASE-MFS-28001-1] c 37 N85-29289
CYLINDRICAL ANTENNAS
Variable beamwidth antenna --- with multiple beam, variable feed system
[NASA-CASE-GSC-11862-1] c 32 N76-18295
CYLINDRICAL BODIES
Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c 36 N74-20009
Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968
CYLINDRICAL CHAMBERS
Modified spiral wound retaining ring
[NASA-CASE-LAR-12361-1] c 37 N83-19091
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Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797
CYSTS
Coupling apparatus for ultrasonic medical diagnostic system
[NASA-CASE-NPO-13935-1] c 52 N79-14751
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Electromigration process for the purification of molten silicon during crystal growth
[NASA-CASE-NPO-14831-1] c 76 N82-30105

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DAMAGE
Method of repairing surface damage to porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18736-1] c 24 N83-13172
DAMPERS (VALVES)
Dual clearance squeeze film damper
[NASA-CASE-LEW-13506-1] c 37 N85-33490
DAMPING
Dynamic precession damper for spin stabilized vehicles Patent
[NASA-CASE-XLA-01989] c 21 N70-34295
Slosh suppressing device and method Patent
[NASA-CASE-XMF-00658] c 12 N70-38997
Attitude control and damping system for spacecraft Patent
[NASA-CASE-XLA-02551] c 21 N71-21708
Passive caging mechanism Patent
[NASA-CASE-GSC-10306-1] c 15 N71-24694
Nutation damper
[NASA-CASE-GSC-11205-1] c 15 N73-25513
Parasitic suppressing circuit
[NASA-CASE-ERC-10403-1] c 10 N73-26228
Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-34913
Arrangement for damping the resonance in a laser diode
[NASA-CASE-NPO-15980-1] c 36 N85-30305
Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788
DATA ACQUISITION
Analog-to-digital conversion system Patent
[NASA-CASE-XAC-00404] c 08 N70-40125
Position location and data collection system and method Patent
[NASA-CASE-GSC-10083-1] c 30 N71-16090
Analog signal integration and reconstruction system Patent
[NASA-CASE-NPO-10344] c 10 N71-26544
Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255
Simultaneous acquisition of tracking data from two stations
[NASA-CASE-NPO-13292-1] c 32 N75-15854
Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c 52 N79-10724
DATA COLLECTION PLATFORMS
Remote platform power conserving system
[NASA-CASE-GSC-11182-1] c 15 N75-13007
DATA COMPRESSION
Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506
Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288
Wide range data compression system Patent
[NASA-CASE-XGS-02612] c 08 N71-19435
Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171
Data compression system
[NASA-CASE-NPO-11243] c 07 N72-20154
Gated compressor, distortionless signal limiter
[NASA-CASE-NPO-11820-1] c 32 N74-19788
Space communication system for compressed data with a concatenated Reed-Solomon-Viterbi coding channel
[NASA-CASE-NPO-13545-1] c 32 N77-12240
Sampling video compression system
[NASA-CASE-ARC-10984-1] c 32 N77-24328
DATA CONVERTERS
Logarithmic converter Patent
[NASA-CASE-XLA-00471] c 08 N70-34778
Mechanical coordinate converter Patent
[NASA-CASE-XNP-00614] c 14 N70-36907
Analog Signal to Discrete Time Interval Converter (ASDTIC)
[NASA-CASE-ERC-10048] c 09 N72-25251
High speed direct binary to binary coded decimal converter and scaler
[NASA-CASE-KSC-10595] c 08 N73-12176
Image data rate converter having a drum with a fixed head and a rotatable head
[NASA-CASE-NPO-11659-1] c 35 N74-11283
Electronic analog divider
[NASA-CASE-LEW-11881-1] c 33 N77-17354
Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570
DATA CORRELATION
Instrument for determining coincidence and elapse time between independent sources of random sequential events
[NASA-CASE-LAR-12531-1] c 35 N83-29651
Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154
DATA LINKS
Multichannel telemetry system
[NASA-CASE-NPO-11572] c 07 N73-16121
Automated attendance accounting system
[NASA-CASE-NPO-11456] c 08 N73-26176
Multi-computer multiple data path hardware exchange system
[NASA-CASE-NPO-13422-1] c 60 N76-14818
Apparatus for simulating optical transmission links
[NASA-CASE-GSC-11877-1] c 74 N76-18913
DATA MANAGEMENT
Selective data segment monitoring system --- using shift registers
[NASA-CASE-ARC-10899-1] c 60 N77-19760
DATA PROCESSING
Energy management system for glider type vehicle Patent
[NASA-CASE-XFR-00756] c 02 N71-13421
Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917
Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255
Transient augmentation circuit for pulse amplifiers Patent
[NASA-CASE-XNP-01068] c 10 N71-28739
Pseudonoise (PN) synchronization of data system with derivation of clock frequency from received signal for clocking receiver PN generator
[NASA-CASE-XNP-03623] c 09 N73-28084
Image data rate converter having a drum with a fixed head and a rotatable head
[NASA-CASE-NPO-11659-1] c 35 N74-11283
Charge-coupled device data processor for an airborne imaging radar system
[NASA-CASE-NPO-13587-1] c 32 N77-32342
Interactive color display for multispectral imagery using correlation clustering
[NASA-CASE-MSC-16253-1] c 32 N79-20297
High-speed multiplexing of keyboard data inputs
[NASA-CASE-NPO-14554-1] c 60 N81-27814
Processing circuit with asymmetry corrector and convolutional encoder for digital data
[NASA-CASE-MSC-20187-1] c 33 N85-20249
LDV multiplexer interface
[NASA-CASE-ARC-11536-1] c 33 N85-30202
DATA PROCESSING EQUIPMENT
Data processor having multiple sections activated at different times by selective power coupling to the sections Patent
[NASA-CASE-XGS-04767] c 08 N71-12494
Demodulation system Patent
[NASA-CASE-XAC-04030] c 10 N71-19472
Rate augmented digital to analog converter Patent
[NASA-CASE-XLA-07828] c 08 N71-27057

Variable digital processor including a register for shifting and rotating bits in either direction Patent
[NASA-CASE-GSC-10186] c 08 N71-33110
Flexible computer accessed telemetry
[NASA-CASE-NPO-11358] c 07 N72-25172
Versatile arithmetic unit for high speed sequential decoder
[NASA-CASE-NPO-11371] c 08 N73-12177
Data processor with conditionally supplied clock signals
[NASA-CASE-GSC-10975-1] c 08 N73-13187
Automated attendance accounting system
[NASA-CASE-NPO-11456] c 08 N73-26176
Space communication system for compressed data with a concatenated Reed-Solomon-Viterbi coding channel
[NASA-CASE-NPO-13545-1] c 32 N77-12240
High-speed multiplexing of keyboard data inputs
[NASA-CASE-NPO-14554-1] c 60 N81-27814
Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] c 60 N84-28492

DATA RECORDERS
Data compressor Patent
[NASA-CASE-XNP-04067] c 08 N71-22707
Recorder using selective noise filter
[NASA-CASE-ERC-10112] c 07 N72-21119
Recorder/processor apparatus --- for optical data processing
[NASA-CASE-GSC-11553-1] c 35 N74-15831

DATA RECORDING
System for recording and reproducing pulse code modulated data Patent
[NASA-CASE-XGS-01021] c 08 N71-21042
Data compressor Patent
[NASA-CASE-XNP-04067] c 08 N71-22707
Incremental tape recorder and data rate converter Patent
[NASA-CASE-XNP-02778] c 08 N71-22710
Transient video signal recording with expanded playback Patent
[NASA-CASE-ARC-10003-1] c 09 N71-25866
On-film optical recording of camera lens settings
[NASA-CASE-MSC-12363-1] c 14 N73-26431
Image data rate converter having a drum with a fixed head and a rotatable head
[NASA-CASE-NPO-11659-1] c 35 N74-11283
Holography utilizing surface plasmon resonances
[NASA-CASE-MFS-22040-1] c 35 N74-26946

DATA REDUCTION
Data compression system
[NASA-CASE-XNP-09785] c 08 N69-21928
Method and system for respiration analysis Patent
[NASA-CASE-XFR-08403] c 05 N71-11202
Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506
Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288
Wide range data compression system Patent
[NASA-CASE-XGS-02612] c 08 N71-19435
Data compressor Patent
[NASA-CASE-XNP-04067] c 08 N71-22707
Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171
Data compression system
[NASA-CASE-NPO-11243] c 07 N72-20154
Digital slope threshold data compressor
[NASA-CASE-NPO-11630] c 08 N72-33172

DATA RETRIEVAL
Magnetic matrix memory system Patent
[NASA-CASE-XMF-05835] c 08 N71-12504
Asynchronous, multiplexing, single line transmission and recovery data system --- for satellite use
[NASA-CASE-NPO-13321-1] c 32 N75-26195

DATA SAMPLING
Reduced bandwidth video communication system utilizing sampling techniques Patent
[NASA-CASE-XNP-02791] c 07 N71-23026
Signal processing apparatus for multiplex transmission Patent
[NASA-CASE-NPO-10388] c 07 N71-24622
Television signal processing system Patent
[NASA-CASE-NPO-10140] c 07 N71-24742
Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171
Sampling video compression system
[NASA-CASE-ARC-10984-1] c 32 N77-24328
CCD correlated quadruple sampling processor
[NASA-CASE-NPO-14426-1] c 33 N81-27396

DATA SMOOTHING
Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964
Smoothing filter for digital to analog conversion
[NASA-CASE-FRC-11025-1] c 33 N82-24417

DATA STORAGE
Data handling system based on source significance, storage availability and data received from the source Patent Application
[NASA-CASE-XNP-04162-1] c 08 N70-34675
Magnetic matrix memory system Patent
[NASA-CASE-XMF-05835] c 08 N71-12504
Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420
Event recorder Patent
[NASA-CASE-XLA-01832] c 14 N71-21006
System for recording and reproducing pulse code modulated data Patent
[NASA-CASE-XGS-01021] c 08 N71-21042
Incremental tape recorder and data rate converter Patent
[NASA-CASE-XNP-02778] c 08 N71-22710
Multiple hologram recording and readout system Patent
[NASA-CASE-ERC-10151] c 16 N71-29131
Dual purpose momentum wheels for spacecraft with magnetic recording
[NASA-CASE-NPO-11481] c 21 N73-13644
Data storage, image tube type
[NASA-CASE-MSC-14053-1] c 60 N74-12888
Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c 33 N79-10337

DATA SYSTEMS
Data handling system based on source significance, storage availability and data received from the source Patent Application
[NASA-CASE-XNP-04162-1] c 08 N70-34675
Rate augmented digital to analog converter Patent
[NASA-CASE-XLA-07828] c 08 N71-27057
Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c 32 N74-32598

DATA TRANSMISSION
Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333
Phase-shift data transmission system having a pseudo-noise SYNC code modulated with the data in a single channel Patent
[NASA-CASE-XNP-00911] c 08 N70-41961
Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506
Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288
Wide range data compression system Patent
[NASA-CASE-XGS-02612] c 08 N71-19435
Phase quadrature-plural channel data transmission system Patent
[NASA-CASE-XAC-06302] c 08 N71-19763
Reduced bandwidth video communication system utilizing sampling techniques Patent
[NASA-CASE-XNP-02791] c 07 N71-23026
Frequency shift keying apparatus Patent
[NASA-CASE-XGS-01537] c 07 N71-23405
Decoder system Patent
[NASA-CASE-NPO-10118] c 07 N71-24741
Data compression system
[NASA-CASE-NPO-11243] c 07 N72-20154
Multichannel telemetry system
[NASA-CASE-NPO-11572] c 07 N73-16121
Automated attendance accounting system
[NASA-CASE-NPO-11456] c 08 N73-26176
System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c 33 N75-19519
Sampling video compression system
[NASA-CASE-ARC-10984-1] c 32 N77-24328
Pseudo noise code and data transmission method and apparatus
[NASA-CASE-GSC-12017-1] c 32 N77-30308
Multi-channel rotating optical interface for data transmission
[NASA-CASE-NPO-14066-1] c 74 N79-34011
System for a displaying at a remote station data generated at a central station and for powering the remote station from the central station
[NASA-CASE-GSC-12411-1] c 33 N81-14221
A single frequency multitransmitter telemetry system
[NASA-CASE-LAR-13006-1] c 17 N83-20995
Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] c 60 N84-28492

DAWSONITE
Synthesis of dawsonites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977

DEBRIS
Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090

DECAY RATES
Solar sensor having coarse and fine sensing with matched preirradiated cells and method of selecting cells Patent
[NASA-CASE-XLA-01584] c 14 N71-23269

DECELERATION
Assembly for recovering a capsule Patent
[NASA-CASE-XMF-00641] c 31 N70-36410
Discrete local altitude sensing device Patent
[NASA-CASE-XMS-03792] c 14 N70-41812
Hot air ballon deceleration and recovery system Patent
[NASA-CASE-XLA-06824-2] c 02 N71-11037
Zero gravity apparatus Patent
[NASA-CASE-XMF-06515] c 14 N71-23227

DECIMALS
High speed direct binary to binary coded decimal converter and scaler
[NASA-CASE-KSC-10595] c 08 N73-12176

DECISION MAKING
Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c 32 N74-32598

DECODERS
Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24650
BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890
Encoder/decoder system for a rapidly synchronizable binary code Patent
[NASA-CASE-NPO-10342] c 10 N71-33407
Compact-bi-phase pulse coded modulation decoder
[NASA-CASE-KSC-10834-1] c 33 N76-14371
Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c 32 N76-16249
Three phase full wave dc motor decoder
[NASA-CASE-GSC-11824-1] c 33 N77-26386
Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359
Reed-Solomon decoder --- applicable to Galileo Project requirements
[NASA-CASE-NPO-15982-1] c 60 N85-20680

DECODING
Decoder system Patent
[NASA-CASE-NPO-10118] c 07 N71-24741
Versatile arithmetic unit for high speed sequential decoder
[NASA-CASE-NPO-11371] c 08 N73-12177
Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c 32 N74-32598
Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c 32 N77-12239

DECOMMUTATORS
Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491

DECONTAMINATION
Decontamination of petroleum products Patent
[NASA-CASE-XNP-03835] c 06 N71-23499
Helium refrigerator and method for decontaminating the refrigerator
[NASA-CASE-NPO-10634] c 23 N72-25619
Plasma cleaning device --- designed for high vacuum environments
[NASA-CASE-MFS-22906-1] c 75 N78-27913

DEEP SPACE NETWORK
Low phase noise digital frequency divider
[NASA-CASE-NPO-11569] c 10 N73-26229

DEFECTS
Hybrid holographic non-destructive test system
[NASA-CASE-MFS-23114-1] c 38 N78-32447

DEFLECTION
Bipropellant injector
[NASA-CASE-XNP-09461] c 28 N72-23809
Noncontacting method for measuring angular deflection
[NASA-CASE-LAR-12178-1] c 74 N80-21138

DEFLECTORS
Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788
Aircraft wheel spray drag alleviator Patent
[NASA-CASE-XLA-01583] c 02 N70-36825
Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173
Exhaust flow deflector --- for ducted gas flow
[NASA-CASE-LAR-11570-1] c 34 N76-18364
Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343

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Retrodirective modulator Patent
[NASA-CASE-GSC-10062] c 14 N71-15605

DEFORMATION
Arbitrarily shaped model survey system Patent
[NASA-CASE-LAR-10098] c 32 N71-26681
Low cycle fatigue testing machine
[NASA-CASE-LAR-10270-1] c 32 N72-25877
Deformable bearing seat
[NASA-CASE-LEW-12527-1] c 37 N77-32500

DEGASSING
Degassifying and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MSC-18936-1] c 35 N83-29652

DEGREES OF FREEDOM
Training vehicle for controlling attitude Patent
[NASA-CASE-XMS-02977] c 11 N71-10746
Dynamic vibration absorber Patent
[NASA-CASE-LAR-10083-1] c 15 N71-27006
Kinesthetic control simulator --- for pilot training
[NASA-CASE-LAR-10276-1] c 09 N75-15662

DEHUMIDIFICATION
Condenser - Separator
[NASA-CASE-XLA-08645] c 15 N69-21465

DEHYDRATED FOOD
Modification of the physical properties of freeze-dried rice
[NASA-CASE-MSC-13540-1] c 05 N72-33096

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Electro-expulsive separation system
[NASA-CASE-ARC-11613-1] c 33 N85-29150
Piezoelectric deicing device
[NASA-CASE-LEW-13773-2] c 33 N86-20671

DELAY CIRCUITS
Pulsed differential comparator circuit Patent
[NASA-CASE-XLE-03804] c 10 N71-19471
Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418
Telemetry synchronizer
[NASA-CASE-GSC-11868-1] c 17 N76-22245
Swept group delay measurement
[NASA-CASE-NPO-13909-1] c 33 N78-25319
Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179

DELAY LINES
A solid state acoustic variable time delay line Patent
[NASA-CASE-ERC-10032] c 10 N71-25900

DELTA MODULATION
Multifunction audio digitizer --- producing direct delta and pulse code modulation
[NASA-CASE-MSC-13855-1] c 35 N74-17885

DELTA WINGS
Variable-geometry winged reentry vehicle Patent
[NASA-CASE-XLA-00241] c 31 N70-37986

DEMAGNETIZATION
Tumbler system to provide random motion
[NASA-CASE-XGS-02437] c 15 N69-21472

DEMODULATION
Phase quadrature-plural channel data transmission system Patent
[NASA-CASE-XAC-06302] c 08 N71-19763
Facsimile video remodulation network
[NASA-CASE-GSC-10185-1] c 07 N72-12081
Quadraphase demodulation
[NASA-CASE-GSC-12137-1] c 33 N78-32338
Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546

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Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333
Frequency shift keyed demodulator Patent
[NASA-CASE-XGS-02889] c 07 N71-11282
Bi-carrier demodulator with modulation Patent
[NASA-CASE-XMF-01160] c 07 N71-11298
Demodulation system Patent
[NASA-CASE-XAC-04030] c 10 N71-19472
Laser calibrator Patent
[NASA-CASE-XLA-03410] c 16 N71-25914
Frequency modulation demodulator threshold extension device Patent
[NASA-CASE-MSC-12165-1] c 07 N71-33696
Full wave modulator-demodulator amplifier apparatus --- for generating rectified output signal
[NASA-CASE-FRC-10072-1] c 33 N74-14939
Unbalanced quadriphase demodulator
[NASA-CASE-MSC-14840-1] c 32 N77-24331
Digital demodulator-correlator
[NASA-CASE-NPO-13982-1] c 32 N79-14267
Self-calibrating threshold detector
[NASA-CASE-MSC-16370-1] c 35 N81-19427
Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570

DENDRITIC CRYSTALS
Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888

DENSIFICATION
Densification of porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18737-1] c 24 N83-13171

DENSITOMETERS
Apparatus having coaxial capacitor structure for measuring fluid density Patent
[NASA-CASE-XLE-00143] c 14 N70-36618
Densitometer Patent
[NASA-CASE-XLE-00688] c 14 N70-41330
Ultrasonic bone densitometer
[NASA-CASE-MFS-20994-1] c 35 N75-12271

DENSITY (MASS/VOLUME)
Non-toxic invert analog glass compositions of high modulus
[NASA-CASE-HQN-10328-2] c 27 N82-29454
Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] c 76 N84-12968

DENSITY DISTRIBUTION
Apparatus for increasing ion engine beam density Patent
[NASA-CASE-XLE-00519] c 28 N70-41576
Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector --- for determining density of gas
[NASA-CASE-ARC-10631-1] c 74 N76-20958

DENSITY MEASUREMENT
Apparatus having coaxial capacitor structure for measuring fluid density Patent
[NASA-CASE-XLE-00143] c 14 N70-36618
Densitometer Patent
[NASA-CASE-XLE-00688] c 14 N70-41330
Determining particle density using known material Hugeniot curves
[NASA-CASE-LAR-11059-1] c 76 N75-12810
Selective image area control of X-ray film exposure density
[NASA-CASE-NPO-13808-1] c 35 N78-15461
Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681
Device for determining frost depth and density
[NASA-CASE-NFS-25754-1] c 35 N84-28018

DENTISTRY
Process for the preparation of brushite crystals
[NASA-CASE-ERC-10338] c 04 N72-33072
Acoustic tooth cleaner
[NASA-CASE-LAR-12471-1] c 52 N82-29862

DEOXYGENATION
Electrocatalyst for oxygen reduction
[NASA-CASE-HQN-10537-1] c 06 N72-10138

DEPLOYMENT
Minimech self-deploying boom mechanism
[NASA-CASE-GSC-10566-1] c 15 N72-18477
Deployable solar cell array
[NASA-CASE-NPO-10883] c 31 N72-22874
Antenna deployment mechanism for use with a spacecraft --- extensible and retractable telescopic antenna mast
[NASA-CASE-GSC-12331-1] c 18 N80-14183
High acceleration cable deployment system
[NASA-CASE-ARC-11256-1] c 15 N82-24272
Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 18 N84-16250
Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479
Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605

DEPOSITION
Means and methods of depositing thin films on substrates Patent
[NASA-CASE-XNP-00595] c 15 N70-34967
Monitoring deposition of films
[NASA-CASE-MFS-20675] c 26 N73-26751
Production of pure metals
[NASA-CASE-LEW-10906-1] c 25 N74-30502
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N84-20670
Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695
Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] c 31 N85-20153
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826

DEPOSITS
Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 37 N85-21652

DEPTH MEASUREMENT
Device for determining frost depth and density
[NASA-CASE-NFS-25754-1] c 35 N84-28018

DESCENT
Emergency descent device
[NASA-CASE-MFS-23074-1] c 54 N77-21844

DESIGN ANALYSIS
Airfoil shape for flight at subsonic speeds --- design analysis and aerodynamic characteristics of the GAW-1 airfoil
[NASA-CASE-LAR-10585-1] c 02 N76-22154
Snap-in compressible biomedical electrode
[NASA-CASE-MSC-14623-1] c 52 N77-28717

DESTRUCTIVE TESTS
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12458-1] c 44 N83-21503

DESULFURIZING
Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527
Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154
Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246
Crude oil desulfurization
[NASA-CASE-NPO-14542-1] c 25 N82-23282
Coal desulfurization by aqueous chlorination
[NASA-CASE-NPO-14902-1] c 25 N82-29371
Hydrodesulfurization of chlorinized coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743
Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253

DETECTION
Heated element fluid flow sensor Patent
[NASA-CASE-MSC-12084-1] c 12 N71-17569
Leak detector Patent
[NASA-CASE-LAR-10323-1] c 12 N71-17573
Metallic intrusion detector system
[NASA-CASE-ARC-10265-1] c 10 N72-28240
Cosmic dust or other similar outer space particles impact location detector
[NASA-CASE-GSC-11291-1] c 25 N72-33696
Bacteria detection instrument and method
[NASA-CASE-GSC-11533-1] c 14 N73-13435
Short range laser obstacle detector --- for surface vehicles using laser diode array
[NASA-CASE-NPO-11856-1] c 36 N74-15145
Vacuum leak detector
[NASA-CASE-LAR-11237-1] c 35 N75-19612
Photoelectric detection system --- manufacturing automation
[NASA-CASE-MFS-23776-1] c 33 N82-28545
Apparatus and process for microbial detection and enumeration
[NASA-CASE-LAR-12709-1] c 35 N82-28604
Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139
Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374

DETECTORS
Pressurized cell micrometeoroid detector Patent
[NASA-CASE-XLA-00936] c 14 N71-14996
Detector panels-micrometeoroid impact Patent
[NASA-CASE-XLA-05906] c 31 N71-16221
Pulse activated polarographic hydrogen detector Patent
[NASA-CASE-XMF-06531] c 14 N71-17575
Light position locating system Patent
[NASA-CASE-XNP-01059] c 23 N71-21821
Method for detecting leaks in hermetically sealed containers Patent
[NASA-CASE-ERC-10045] c 15 N71-24910
Precipitation detector Patent
[NASA-CASE-XLA-02619] c 10 N71-26334
Hydrogen fire blink detector
[NASA-CASE-MFS-15063] c 14 N72-25412
Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-16484
Multiple pass reimaging optical system
[NASA-CASE-ARC-10194-1] c 23 N73-20741
Meteoroid detector
[NASA-CASE-LAR-10483-1] c 14 N73-32327
Deployable pressurized cell structure for a micrometeoroid detector
[NASA-CASE-LAR-10295-1] c 35 N74-21062
Modulated hydrogen ion flame detector
[NASA-CASE-ARC-10322-1] c 35 N76-18403
Coal-rock interface detector
[NASA-CASE-MFS-23725-1] c 43 N79-31706
Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] c 35 N84-33767

DETERGENTS
Anti-fog composition --- for prevention of fogging on surfaces such as space helmet visors and windshields
[NASA-CASE-MSC-13530-2] c 23 N75-14834

Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MSC-20857-1] c 37 N86-20807
DETONATION
Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c 28 N74-27425
DETONATION WAVES
Continuous detonation reaction engine Patent
[NASA-CASE-XMF-06926] c 28 N71-22983
DEUTERIUM
Analysis of hydrogen-deuterium mixtures
[NASA-CASE-NPO-11322] c 06 N72-25146
Deuterium pass through target --- neutron emitting target
[NASA-CASE-LEW-11866-1] c 72 N76-15860
DEW POINT
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
DIAGNOSIS
Coupling apparatus for ultrasonic medical diagnostic system
[NASA-CASE-NPO-13935-1] c 52 N79-14751
Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin
[NASA-CASE-NPO-14402-1] c 52 N81-27783
DIAGRAMS
Phototransistor
[NASA-CASE-MFS-20407] c 09 N73-19235
DIALYSIS
Dialysis system --- using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687
DIAMETERS
Alignment and assembly tool for very large diameter cylinders
[NASA-CASE-MFS-28001-1] c 37 N85-29289
DIAMINES
Elastomeric silazane polymers and process for preparing the same Patent
[NASA-CASE-XMF-04133] c 06 N71-20717
Aromatic diamine-aromatic dialdehyde high molecular weight Schiff base polymers prepared in a monofunctional Schiff base Patent
[NASA-CASE-XMF-03074] c 06 N71-24740
Siloxane containing epoxide compounds
[NASA-CASE-MFS-13994-2] c 06 N72-25148
Preparation of polyimides from mixtures of monomeric diamines and esters of polycarboxylic acids
[NASA-CASE-LEW-11325-1] c 06 N73-27980
Mixed diamines for lower melting addition polyimide preparation and utilization
[NASA-CASE-LAR-12054-1] c 27 N79-33316
Method for preparing addition type polyimide prepregs
[NASA-CASE-LAR-12054-2] c 27 N81-14078
The 1 - (dialkoxyphosphonyl)methyl -2,4- and -2,6-dinitro- and diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-1] c 23 N83-28076
Fire resistant polymers based on 1-((dialkoxyphosphonyl)methyl)-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11512-1] c 27 N84-20702
Process for preparing highly optically transparent-colorless armomatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N85-21360
Fire resistant polymers based on 1-(diorgano oxyphosphonyl)methyl-2,4- and 2,6-diamino benzenes
[NASA-CASE-ARC-11512-2] c 27 N85-21362
Polyenamines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-1-CU] c 27 N86-19462
Copolyimides with a combination of flexibilizing groups
[NASA-CASE-LAR-13354-1] c 27 N86-20566
DIAMONDS
Apparatus for making diamonds
[NASA-CASE-MFS-20698] c 15 N72-20446
Process for making diamonds
[NASA-CASE-MFS-20698-2] c 15 N73-19457
Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267
DIAPHRAGMS (MECHANICS)
Measuring device Patent
[NASA-CASE-XMS-01546] c 14 N70-40233
Reinforcing means for diaphragms Patent
[NASA-CASE-XNP-01962] c 32 N70-41370
Self-sealing, unbonded, rocket motor nozzle closure Patent
[NASA-CASE-XLA-02651] c 28 N70-41967
Means for controlling rupture of shock tube diaphragms Patent
[NASA-CASE-XAC-00731] c 11 N71-15960
Fast opening diaphragm Patent
[NASA-CASE-XLA-03660] c 15 N71-21060
Inertia diaphragm pressure transducer Patent
[NASA-CASE-XAC-02981] c 14 N71-21072
Convoluting device for forming convolutions and the like Patent
[NASA-CASE-XNP-05297] c 15 N71-23811
Differential pressure control
[NASA-CASE-MFS-14216] c 14 N73-13418
Variable friction secondary seal for face seals
[NASA-CASE-LEW-14170-1] c 37 N85-20377
Flexible diaphragm: Extreme temperature usage
[NASA-CASE-MSC-20797-1] c 37 N86-20806
DIATOMIC GASES
Diatomic infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426
DICHROISM
Dichroic plate --- as bandpass filters
[NASA-CASE-NPO-13506-1] c 35 N76-15435
Microwave dichroic plate
[NASA-CASE-GSC-12171-1] c 33 N79-28416
DICKE RADIOMETERS
Distributed-switch Dicke radiometers
[NASA-CASE-GSC-12219-1] c 35 N80-18359
DIDYMIUM
Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10608
DIELECTRIC PROPERTIES
Capacitive tank gaging apparatus being independent of *liquid distribution*
[NASA-CASE-MFS-21629] c 14 N72-22442
Fine particulate capture device
[NASA-CASE-LEW-11583-1] c 35 N79-17192
DIELECTRICS
Method for producing a solar cell having an integral protective covering
[NASA-CASE-XGS-04531] c 03 N69-24267
Temperature sensitive capacitor device
[NASA-CASE-XNP-09750] c 14 N69-39937
Space vehicle electrical system Patent
[NASA-CASE-XMF-00517] c 03 N70-34157
Nose cone mounted heat resistant antenna Patent
[NASA-CASE-XMS-04312] c 07 N71-22984
Broadband microwave waveguide window Patent
[NASA-CASE-XNP-08880] c 09 N71-24808
Laser machining apparatus Patent
[NASA-CASE-HQN-10541-2] c 15 N71-27135
Quasi-optical microwave component Patent
[NASA-CASE-ERC-10011] c 07 N71-29065
Method of manufacturing semiconductor devices using refractory dielectrics
[NASA-CASE-XER-08476-1] c 26 N72-17820
Screened circuit capacitors
[NASA-CASE-LAR-10294-1] c 26 N72-28762
Low loss dichroic plate
[NASA-CASE-NPO-13171-1] c 32 N74-11000
Electrostatic measurement system --- for contact-electrifying a dielectric
[NASA-CASE-MFS-22129-1] c 33 N75-18477
Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994
Preparation of dielectric coating of variable dielectric constant by plasma polymerization
[NASA-CASE-ARC-10892-2] c 27 N79-14214
Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures
[NASA-CASE-NPO-14254-1] c 36 N80-18372
A method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N86-20128
DIELS-ALDER REACTIONS
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-6] c 25 N85-30039
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Convoluting device for forming convolutions and the like Patent
[NASA-CASE-XNP-05297] c 15 N71-23811
Extrusion die for refractory metals Patent
[NASA-CASE-XLE-06773] c 15 N71-23817
Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491
Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276
DIESEL ENGINES
Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] c 35 N84-17555
Diesel engine catalytic combustor system --- aircraft engines
[NASA-CASE-LEW-12995-1] c 37 N84-33808
DIETS
Reduction of blood serum cholesterol
[NASA-CASE-NPO-12119-1] c 52 N75-15270
DIFFERENCES
Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117
DIFFERENTIAL AMPLIFIERS
Temperature compensated solid state differential amplifier Patent
[NASA-CASE-XAC-00435] c 09 N70-35440
Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772
Multi-channel temperature measurement amplification system --- solar heating systems
[NASA-CASE-MFS-23775-1] c 44 N82-16474
Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670
DIFFERENTIAL INTERFEROMETRY
Gravimeter Patent
[NASA-CASE-XMF-05844] c 14 N71-17587
DIFFERENTIAL PRESSURE
Relief valve
[NASA-CASE-XMS-05894-1] c 15 N69-21924
Apparatus for ejection of an instrument cover
[NASA-CASE-XMF-04132] c 15 N69-27502
Differential sound level meter
[NASA-CASE-LAR-12106-1] c 71 N78-14867
Differential optoacoustic absorption detector
[NASA-CASE-NPO-13759-1] c 74 N78-17867
System for use in conducting wake investigation for a wing in flight --- differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300
DIFFERENTIATORS
Window comparator
[NASA-CASE-FRC-10090-1] c 33 N78-18308
DIFFRACTION
Optical mirror apparatus Patent
[NASA-CASE-ERC-10001] c 23 N71-24868
DIFFRACTION PATTERNS
Fringe counter for interferometers Patent
[NASA-CASE-LAR-10204] c 14 N71-27215
DIFFRACTOMETERS
Dual purpose optical instrument capable of simultaneously acting as spectrometer and diffractometer
[NASA-CASE-XNP-05231] c 14 N73-28491
DIFFUSE RADIATION
Transmitting and reflecting diffuser --- using ultraviolet grade fused silica coatings
[NASA-CASE-LAR-10385-3] c 74 N78-15879
DIFFUSERS
Application of semiconductor diffusants to solar cells by screen printing
[NASA-CASE-LEW-12775-1] c 44 N79-11468
Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MRS-25791-1] c 09 N84-27749
DIFFUSION
A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
[NASA-CASE-ERC-10072] c 09 N70-11148
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-10337] c 15 N71-24046
Transmitting and reflecting diffuser --- for ultraviolet light
[NASA-CASE-LAR-10385-2] c 70 N74-13436
DIFFUSION PUMPS
Trap for preventing diffusion pump backstreaming
[NASA-CASE-GSC-10518-1] c 15 N72-22489
Programmable physiological infusion
[NASA-CASE-ARC-10447-1] c 52 N74-22771
DIFFUSION WELDING
Thermal compression bonding of interconnectors
[NASA-CASE-GSC-10303] c 15 N72-22487
Bonding of reinforced Teflon to metals
[NASA-CASE-MFS-20482] c 15 N72-22492
Enhanced diffusion welding
[NASA-CASE-LEW-11388-1] c 15 N73-32358
Method of fluxless brazing and diffusion bonding of aluminum containing components
[NASA-CASE-MSC-14435-1] c 37 N76-18455
Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296
DIFFUSIVITY
Diffusely reflecting paints including polytetrafluoroethylene and method of manufacture
[NASA-CASE-GSC-12883-1] c 27 N85-29044
DIGITAL COMMAND SYSTEMS
Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525
System for maintaining a motor at a predetermined speed utilizing digital feedback means Patent
[NASA-CASE-XMF-06892] c 09 N71-24805

Digital filter for reducing sampling jitter in digital control systems Patent
[NASA-CASE-NPO-11088] c 08 N71-29034

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Disk pack cleaning table Patent Application
[NASA-CASE-LAR-10590-1] c 15 N70-26819
Binary number sorter Patent
[NASA-CASE-NPO-10112] c 08 N71-12502
Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505
Electronic checkout system for space vehicles Patent
[NASA-CASE-XKS-08012-2] c 31 N71-15566
Error correcting method and apparatus Patent
[NASA-CASE-XNP-02748] c 08 N71-22749
Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24650
Digital memory sense amplifying means Patent
[NASA-CASE-XNP-01012] c 08 N71-28925
Redundant memory organization Patent
[NASA-CASE-GSC-10564] c 10 N71-29135
High speed direct binary to binary coded decimal converter and scaler
[NASA-CASE-KSC-10595] c 08 N73-12176
Fault tolerant clock apparatus utilizing a controlled minority of clock elements
[NASA-CASE-MSC-12531-1] c 35 N75-30504
Two-dimensional radiant energy array computers and computing devices
[NASA-CASE-GSC-11839-1] c 60 N77-14751
Memory device for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-2] c 60 N78-10709
Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212
Multicomputer communication system
[NASA-CASE-NPO-15433-1] c 32 N85-21428
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333

DIGITAL DATA

Phase-shift data transmission system having a pseudo-noise SYNC code modulated with the data in a single channel Patent
[NASA-CASE-XNP-00911] c 08 N70-41961
Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420
Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001
Transient augmentation circuit for pulse amplifiers Patent
[NASA-CASE-XNP-01068] c 10 N71-28739
Transition tracking bit synchronization system
[NASA-CASE-NPO-10844] c 07 N72-20140
Digital control and information system
[NASA-CASE-NPO-11016] c 08 N72-31226
Digital plus analog output encoder
[NASA-CASE-GSC-12115-1] c 62 N76-31946
Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751
Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491

DIGITAL FILTERS

Signal detection and tracking apparatus Patent
[NASA-CASE-XGS-03502] c 10 N71-20852
Digital filter for reducing sampling jitter in digital control systems Patent
[NASA-CASE-NPO-11088] c 08 N71-29034
Counting digital filters
[NASA-CASE-NPO-11821-1] c 08 N73-26175
Filtering device --- removing electromagnetic noise from voice communication signals
[NASA-CASE-MFS-22729-1] c 32 N76-21366

DIGITAL INTEGRATORS

Digital automatic gain amplifier
[NASA-CASE-KSC-11008-1] c 33 N79-22373

DIGITAL RADAR SYSTEMS

Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297

DIGITAL SPACECRAFT TELEVISION

Digital television camera control system Patent
[NASA-CASE-XNP-01472] c 14 N70-41807

DIGITAL SYSTEMS

Light sensitive digital aspect sensor Patent
[NASA-CASE-XGS-00359] c 14 N70-34158
Full binary adder Patent
[NASA-CASE-XGS-00689] c 08 N70-34787
Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001
Drive circuit utilizing two cores Patent
[NASA-CASE-XNP-01318] c 10 N71-23033
Noninterruptable digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891
Digital memory in which the driving of each word location is controlled by a switch core Patent
[NASA-CASE-XNP-01466] c 10 N71-26434
Digital quasi-exponential function generator
[NASA-CASE-NPO-11130] c 08 N72-20176
Digital function generator
[NASA-CASE-NPO-11104] c 08 N72-22165
Digital video display system using cathode ray tube
[NASA-CASE-NPO-11342] c 09 N72-25248
Digital slope threshold data compressor
[NASA-CASE-NPO-11630] c 08 N72-33172
Data processor with conditionally supplied clock signals
[NASA-CASE-GSC-10975-1] c 08 N73-13187
Low phase noise digital frequency divider
[NASA-CASE-NPO-11569] c 10 N73-26229
Pseudonoise (PN) synchronization of data system with derivation of clock frequency from received signal for clocking receiver PN generator
[NASA-CASE-XNP-03623] c 09 N73-28084
Digital second-order phase-locked loop
[NASA-CASE-NPO-11905-1] c 33 N74-12887
Digital controller for a Baum folding machine --- providing automatic counting and machine shutoff
[NASA-CASE-LAR-10688-1] c 37 N74-21056
Digital transmitter for data bus communications system
[NASA-CASE-MSC-14558-1] c 32 N75-21486
Automatic character skew and spacing checking network --- of digital tape drive systems
[NASA-CASE-GSC-11925-1] c 33 N76-18353
Anti-multipath digital signal detector
[NASA-CASE-LAR-11827-1] c 32 N77-10392
Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289
Open loop digital frequency multiplier
[NASA-CASE-MSC-12709-1] c 33 N77-24375
Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c 32 N79-10263
Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c 33 N79-11313
Digital demodulator-correlator
[NASA-CASE-NPO-13982-1] c 32 N79-14267
Memory-based frame synchronizer --- for digital communication systems
[NASA-CASE-GSC-12430-1] c 60 N82-16747
Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570
Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583
Error correction method and apparatus for electronic timepieces
[NASA-CASE-LAR-12654-1] c 33 N83-36357
Tone calibrated digital radio communication system
[NASA-CASE-NPO-16414-1-CU] c 32 N85-29121
Digital control of diode laser for atmospheric spectroscopy
[NASA-CASE-NPO-16000-1] c 36 N85-29264

DIGITAL TECHNIQUES

Digital frequency discriminator Patent
[NASA-CASE-MFS-14322] c 08 N71-18692
Exclusive-Or digital logic module Patent
[NASA-CASE-XLA-07732] c 08 N71-18751
Horizon sensor with a plurality of fixedly positioned radiation compensated radiation sensitive detectors Patent
[NASA-CASE-XNP-06957] c 14 N71-21088
Digital cardiotachometer system Patent
[NASA-CASE-XMS-02399] c 05 N71-22896
Digital synchronizer Patent
[NASA-CASE-NPO-10851] c 07 N71-24613
Fringe counter for interferometers Patent
[NASA-CASE-LAR-10204] c 14 N71-27215
Rate data encoder
[NASA-CASE-LAR-10128-1] c 08 N73-20217
Digital communication system
[NASA-CASE-MSC-13912-1] c 32 N74-30524
Digital phase-locked loop
[NASA-CASE-GSC-11623-1] c 33 N75-25040
Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349
Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583
Nanosequencer digital logic controller
[NASA-CASE-NPO-16116-1] c 60 N84-25306
Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651
Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681

DIGITAL TO ANALOG CONVERTERS

Rate augmented digital to analog converter Patent
[NASA-CASE-XLA-07828] c 08 N71-27057
Buffered analog converter
[NASA-CASE-KSC-10397] c 08 N72-25206
Digital to analog conversion apparatus
[NASA-CASE-MSC-12458-1] c 08 N73-32081
Smoothing filter for digital to analog conversion
[NASA-CASE-FRC-11025-1] c 33 N82-24417
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491
A method and apparatus for operating on companded PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N85-29120

DIGITAL TRANSDUCERS

Digital to analog conversion apparatus
[NASA-CASE-MSC-12458-1] c 08 N73-32081
Angle detector
[NASA-CASE-ARC-11036-1] c 35 N78-32395

DIISOCYANATES

Polyurethanes of fluorine containing polycarbonates
[NASA-CASE-MFS-10512] c 06 N73-30099
Polyurethanes from fluoroalkyl propyleneglycol polyethers
[NASA-CASE-MFS-10506] c 06 N73-30100
Fluorine containing polyurethane
[NASA-CASE-MFS-10509] c 06 N73-30103

DIMENSIONAL MEASUREMENT

Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875

DIMENSIONS

Projection system for display of parallax and perspective
[NASA-CASE-MFS-23194-1] c 35 N78-17357

DIODES

Diode and protection fuse unit Patent
[NASA-CASE-XKS-03381] c 09 N71-22796
Protection of serially connected solar cells against open circuits by the use of shunting diode Patent
[NASA-CASE-XLE-04535] c 03 N71-23354
Shielded cathode mode bulk effect devices
[NASA-CASE-ERC-10119] c 26 N72-21701
Fast response low power drain logic circuits
[NASA-CASE-GSC-10878-1] c 10 N72-22236
Method and apparatus for detecting surface ions on silicon diodes and transistors
[NASA-CASE-ERC-10325] c 15 N72-25457
Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214
Wide temperature range electronic device with lead attachment
[NASA-CASE-ERC-10224-2] c 09 N73-27150
High isolation RF signal selection switches
[NASA-CASE-NPO-13081-1] c 33 N74-22814
Logarithmic circuit with wide dynamic range
[NASA-CASE-GSC-12145-1] c 33 N78-32339
Regulated high efficiency, lightweight capacitor-diode multiplier dc to dc converter
[NASA-CASE-LEW-12791-1] c 33 N78-32341
Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029
Digital control of diode laser for atmospheric spectroscopy
[NASA-CASE-NPO-16000-1] c 36 N85-29264
Arrangement for damping the resonance in a laser diode
[NASA-CASE-NPO-15980-1] c 36 N85-30305

DIPHENYL COMPOUNDS

Amine terminated bisaspartimides, process for preparation thereof, and polymers thereof
[NASA-CASE-ARC-11421-1] c 27 N84-16340

DIPOLE ANTENNAS

Circularly polarized antenna
[NASA-CASE-ERC-10214] c 09 N72-31235
Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MSC-18606-1] c 32 N82-11336

DIRECT CURRENT

Regulated dc to dc converter
[NASA-CASE-XGS-03429] c 03 N69-21330
Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987
Thermionic diode switch Patent
[NASA-CASE-NPO-10404] c 03 N71-12255
A dc-coupled noninverting one-shot Patent
[NASA-CASE-XNP-09450] c 10 N71-18723
Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772

Frequency control network for a current feedback oscillator Patent
[NASA-CASE-GSC-10041-1] c 10 N71-19418
Self-repeating plasma generator having communicating annular and linear arc discharge passages Patent
[NASA-CASE-XLA-03103] c 25 N71-21693
Positive dc to positive dc converter Patent
[NASA-CASE-XMF-14301] c 09 N71-23188
Positive dc to negative dc converter Patent
[NASA-CASE-XMF-08217] c 03 N71-23239
Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
[NASA-CASE-XMS-06061] c 05 N71-23317
Radio frequency coaxial high pass filter Patent
[NASA-CASE-XGS-01418] c 09 N71-23573
Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904
Inverter with means for base current shaping for sweeping charge carriers from base region Patent
[NASA-CASE-XGS-06226] c 10 N71-25950
Dual polarity full wave dc motor drive Patent
[NASA-CASE-XNP-07477] c 09 N71-26092
A dc motor speed control system Patent
[NASA-CASE-MFS-14610] c 09 N71-28886
Cyclic switch Patent
[NASA-CASE-LEW-10155-1] c 09 N71-29035
Load-insensitive electrical device
[NASA-CASE-XER-11046] c 09 N72-22203
A dc to ac to dc converter having transistor synchronous rectifiers
[NASA-CASE-GSC-11126-1] c 09 N72-25253
Electric motive machine including magnetic bearing
[NASA-CASE-XGS-07805] c 15 N72-33476
Powerplexer
[NASA-CASE-MSC-12396-1] c 03 N73-31988
Bio-isolated dc operational amplifier --- for bioelectric measurements
[NASA-CASE-ARC-10596-1] c 33 N74-21851
Load insensitive electrical device --- power converters for supplying direct current at one voltage from a source at another voltage
[NASA-CASE-XER-11046-2] c 33 N74-22864
Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c 32 N77-12239
Three phase full wave dc motor decoder
[NASA-CASE-GSC-11824-1] c 33 N77-26386
Time domain phase measuring apparatus
[NASA-CASE-GSC-12228-1] c 33 N79-10338
Direct current transformer
[NASA-CASE-MFS-23659-1] c 33 N79-17133
Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393
Controller for computer control of brushless dc motors --- automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352
Direct current ballast circuit for metal halide lamp
[NASA-CASE-MSC-18407-1] c 33 N82-24427
Ferroresonant regulated power supply
[NASA-CASE-NPO-15977-1-CU] c 33 N86-20673
Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681
Four quadrant control circuit for a brushless three phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N86-20682

DIRECT LIFT CONTROLS
Velocity vector control system augmented with direct lift control
[NASA-CASE-LAR-12268-1] c 08 N81-24106

DIRECT POWER GENERATORS
Energy conversion apparatus Patent
[NASA-CASE-XLE-00212] c 03 N70-34134
Thermal pump-compressor for space use Patent
[NASA-CASE-XLA-00377] c 33 N71-17610
Positive dc to negative dc converter Patent
[NASA-CASE-XMF-08217] c 03 N71-23239
Unsaturating saturable core transformer Patent
[NASA-CASE-ERC-10125] c 09 N71-24893
Load insensitive electrical device --- power converters for supplying direct current at one voltage from a source at another voltage
[NASA-CASE-XER-11046-2] c 33 N74-22864
Bi-directional control system for energy flow in a solar powered flywheel
[NASA-CASE-MFS-25978-1] c 44 N84-32913

DIRECTIONAL ANTENNAS
Mechanical coordinate converter Patent
[NASA-CASE-XNP-00614] c 14 N70-36907
Weatherproof helix antenna Patent
[NASA-CASE-XKS-08485] c 07 N71-19493
Tracking antenna system Patent
[NASA-CASE-GSC-10553-1] c 07 N71-19854
Reversible motion drive system Patent
[NASA-CASE-NPO-10173] c 15 N71-24696
Variable beamwidth antenna --- with multiple beam, variable feed system
[NASA-CASE-GSC-11862-1] c 32 N76-18295
Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587

DIRECTIONAL CONTROL
Gimbaled, partially submerged rocket nozzle Patent
[NASA-CASE-XMF-01544] c 28 N70-34162
Omnidirectional wheel
[NASA-CASE-MFS-21309-1] c 37 N74-18125
Velocity vector control system augmented with direct lift control
[NASA-CASE-LAR-12268-1] c 08 N81-24106
Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132

DIRECTIONAL SOLIDIFICATION (CRYSTALS)
Preparation of monotectic alloys having a controlled microstructure by directional solidification under dopant-induced interface breakdown
[NASA-CASE-MFS-23816-1] c 26 N80-23419
High gradient directional solidification furnace
[NASA-CASE-MFS-25963-1] c 35 N86-20750

DIRECTIONAL STABILITY
Nose gear steering system for vehicle with main skids Patent
[NASA-CASE-XLA-01804] c 02 N70-34160
System for imposing directional stability on a rocket-propelled vehicle
[NASA-CASE-MFS-21311-1] c 20 N76-21275

DIRECTIVITY
Multiprism collimator
[NASA-CASE-GSC-12608-1] c 74 N83-10900

DISCHARGE
Discharge cell for optogalvanic spectroscopy having orthogonal relationship between the probe laser and discharge axis
[NASA-CASE-NPO-16271-1] c 36 N84-15537

DISCONNECT DEVICES
Gas actuated bolt disconnect Patent
[NASA-CASE-XLA-00326] c 03 N70-34667
Umbilical disconnect Patent
[NASA-CASE-XLA-00711] c 03 N71-12258
Remote controlled tubular disconnect Patent
[NASA-CASE-XLA-01396] c 03 N71-12259
Quick release connector Patent
[NASA-CASE-XLA-01141] c 15 N71-13789
Split nut separation system Patent
[NASA-CASE-XNP-06914] c 15 N71-21489
Separation simulator Patent
[NASA-CASE-XKS-04631] c 10 N71-23663
Duct coupling for single-handed operation Patent
[NASA-CASE-MFS-20395] c 15 N71-24903
Breakaway connector
[NASA-CASE-NPO-11140] c 15 N72-17455
Torsional disconnect unit
[NASA-CASE-NPO-10704] c 15 N72-20445
Frangible link
[NASA-CASE-MSC-11849-1] c 15 N72-22488
Quick disconnect coupling
[NASA-CASE-NPO-11202] c 15 N72-25450
Quick disconnect filter coupling
[NASA-CASE-MFS-22323-1] c 37 N76-14463
Positive isolation disconnect
[NASA-CASE-MSC-16043-1] c 37 N79-11402
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609
Slide release mechanism --- for space shuttle orbiter/external tank connection device
[NASA-CASE-MSC-20080-1] c 37 N85-30334
Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N86-19613
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469
Self-locking double retention redundant full pin release
[NASA-CASE-NPO-16233-1] c 37 N86-20801

DISCONTINUITY
Strain coupled servo control system Patent
[NASA-CASE-XLA-08530] c 32 N71-25360

DISCRIMINATORS
Phase detector assembly Patent
[NASA-CASE-XMF-00701] c 09 N70-40272
Difference circuit Patent
[NASA-CASE-XNP-08274] c 10 N71-13537
Digital frequency discriminator Patent
[NASA-CASE-MFS-14322] c 08 N71-18692
Comparator for the comparison of two binary numbers Patent
[NASA-CASE-XNP-04819] c 08 N71-23295
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c 33 N75-19520
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-2] c 33 N75-25041
Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539

DISPENSERS
Liquid aerosol dispenser
[NASA-CASE-MFS-20829] c 12 N72-21310
Potable water dispenser
[NASA-CASE-MFS-21115-1] c 54 N74-12779
Lyophilized spore dispenser
[NASA-CASE-LAR-10544-1] c 37 N74-13178
Metering gun for dispensing precisely measured charges of fluid
[NASA-CASE-MFS-21163-1] c 54 N74-17853
Automatic fluid dispenser
[NASA-CASE-ARC-10820-1] c 35 N78-19466

DISPERSING
Shock tube powder dispersing apparatus Patent
[NASA-CASE-XLE-04946] c 17 N71-24911
Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] c 37 N84-16561

DISPERSIONS
Preparation of alkali metal dispersions
[NASA-CASE-XNP-08876] c 17 N73-28573

DISPLACEMENT
Bimetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c 35 N74-15126

DISPLACEMENT MEASUREMENT
Null-type vacuum microbalance Patent
[NASA-CASE-XAC-00472] c 15 N70-40180
Self-calibrating displacement transducer Patent
[NASA-CASE-XLA-00781] c 09 N71-22999
Angular displacement indicating gas bearing support system Patent
[NASA-CASE-XLA-09346] c 15 N71-28740
Apparatus for remote measurement of displacement of marks on a specimen undergoing a tensile test
[NASA-CASE-NPO-10778] c 14 N72-11364
Miniature muscle displacement transducer
[NASA-CASE-NPO-13519-1] c 33 N76-19338
Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072

DISPLAY DEVICES
Integrated time shared instrumentation display Patent
[NASA-CASE-XLA-01952] c 08 N71-12507
Energy management system for glider type vehicle Patent
[NASA-CASE-XFR-00756] c 02 N71-13421
Fluidic-thermochromic display device Patent
[NASA-CASE-ERC-10031] c 12 N71-18603
Display for binary characters Patent
[NASA-CASE-XGS-04987] c 08 N71-20571
Optical projector system Patent
[NASA-CASE-XNP-03853] c 23 N71-21882
Optical monitor panel Patent
[NASA-CASE-XKS-03509] c 14 N71-23175
BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890
Noninterruptable digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891
Analog signal integration and reconstruction system Patent
[NASA-CASE-NPO-10344] c 10 N71-26544
Plasma fluidic hybrid display Patent
[NASA-CASE-ERC-10100] c 09 N71-33519
System for quantizing graphic displays
[NASA-CASE-NPO-10745] c 08 N72-22164
Digital video display system using cathode ray tube
[NASA-CASE-NPO-11342] c 09 N72-25248
Scientific experiment flexible mount
[NASA-CASE-MSC-12372-1] c 31 N72-25842
Display system
[NASA-CASE-ERC-10350] c 14 N73-20474
Transparent switchboard
[NASA-CASE-MSC-13746-1] c 10 N73-32143
Recorder/processor apparatus --- for optical data processing
[NASA-CASE-GSC-11553-1] c 35 N74-15831
Rotating raster generator
[NASA-CASE-FRC-10071-1] c 32 N74-20813
G-load measuring and indicator apparatus --- for aircraft
[NASA-CASE-ARC-10806] c 06 N74-27872
X-Y alphanumeric character generator for oscilloscopes
[NASA-CASE-GSC-11582-1] c 33 N75-19517
Binocular device for displaying numerical information in field of view
[NASA-CASE-LAR-11782-1] c 74 N77-20882
Particle parameter analyzing system --- x-y plotter circuits and display
[NASA-CASE-XLE-06094] c 33 N78-17293
Projection system for display of parallax and perspective
[NASA-CASE-MFS-23194-1] c 35 N78-17357

Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083
Chromatically corrected virtual image display --- lens design for flight simulators
[NASA-CASE-LAR-12251-1] c 74 N79-14892
Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580
System and method for obtaining wide screen Schlieren photographs
[NASA-CASE-NPO-14174-1] c 74 N79-20856
Chromatically corrected virtual image visual display --- reducing eye strain in flight simulators
[NASA-CASE-LAR-12251-1] c 74 N80-27185
System for a displaying at a remote station data generated at a central station and for powering the remote station from the central station
[NASA-CASE-GSC-12411-1] c 33 N81-14221
System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075
Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212
Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996
Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] c 74 N84-11920
Simulator scene display evaluation
[NASA-CASE-ARC-11504-1] c 09 N84-16221
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N84-20522
Aircraft liftmeter
[NASA-CASE-LAR-12518-1] c 06 N84-32383
Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373

DISSIPATION
Voltage regulator with plural parallel power source sections Patent
[NASA-CASE-GSC-10891-1] c 10 N71-26626
Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N84-32398

DISSOCIATION
Solar hydrogen generator
[NASA-CASE-LAR-11361-1] c 44 N77-22607

DISSOLVING
Zero gravity liquid mixer
[NASA-CASE-LAR-10195-1] c 15 N73-19458

DISTANCE
Optical distance measuring instrument
[US-PATENT-APPL-SN-406820] c 74 N83-13982

DISTANCE MEASURING EQUIPMENT
Binary coded sequential acquisition ranging system
[NASA-CASE-NPO-11194] c 08 N72-25209
Determining distance to lightning strokes from a single station
[NASA-CASE-KSC-10698] c 07 N73-20175
Terminal guidance sensor system --- space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519
Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681
Rotary target V-block
[NASA-CASE-LAR-12007-3] c 35 N84-16523

DISTILLATION EQUIPMENT
Compact solar still Patent
[NASA-CASE-XMS-04533] c 15 N71-23086
Method and apparatus for distillation of liquids Patent
[NASA-CASE-XNP-08124] c 15 N71-27184
Method for distillation of liquids
[NASA-CASE-XNP-08124-2] c 06 N73-13129

DISTRIBUTED AMPLIFIERS
Cascaded complementary pair broadband transistor amplifiers Patent
[NASA-CASE-NPO-10003] c 10 N71-26415

DISTRIBUTED PROCESSING
Distributed multiport memory architecture
[NASA-CASE-NPO-15342-1] c 60 N83-32342

DISTRIBUTION (PROPERTY)
Thermionic energy converters
[NASA-CASE-LEW-12443-1] c 44 N83-32175

DISTRIBUTORS
High voltage distributor
[NASA-CASE-GSC-11849-1] c 33 N76-16332

DIVERGENT NOZZLES
Jet exhaust noise suppressor
[NASA-CASE-LEW-11286-1] c 07 N74-27490

DIVERTERS
Flow diverter value and flow diversion method
[NASA-CASE-HQN-00573-1] c 37 N79-33468

DIVIDERS
A synchronous binary array divider
[NASA-CASE-ERC-10180-1] c 60 N74-20836

DOCUMENT STORAGE
File card marker Patent
[NASA-CASE-XLA-02705] c 08 N71-15908

DOMES (STRUCTURAL FORMS)
Airborne tracking Sun photometer apparatus and system
[NASA-CASE-ARC-11622-1] c 44 N86-21982

DOORS
Emergency escape system Patent
[NASA-CASE-MSC-12086-1] c 05 N71-12345
CAM controlled retractable door latch
[NASA-CASE-MSC-20304-1] c 37 N82-31690

DOPED CRYSTALS
FET charge sensor and voltage probe
[NASA-CASE-NPO-16045-1] c 76 N84-33211

DOPES
Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N85-20535

DOPPLER EFFECT
Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978
Laser Doppler system for measuring three dimensional vector velocity Patent
[NASA-CASE-MFS-20386] c 21 N71-19212
Doppler compensation by shifting transmitted object frequency within limits
[NASA-CASE-GSC-10087-4] c 07 N73-20174
Doppler shift system --- system for measuring velocities of radiating particles
[NASA-CASE-HQN-10740-1] c 72 N74-19310
Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510
An electro-optical Doppler tracker means and method for optical correlation of synthetic aperture radar data
[NASA-CASE-NPO-14998-1] c 33 N81-15194
Servomechanism for Doppler shift compensation in optical correlator for synthetic aperture radar
[NASA-CASE-NPO-14998-1] c 32 N83-18975
Vibration-free Raman Doppler velocimeter
[NASA-CASE-LAR-13268-1] c 35 N85-29216

DOPPLER RADAR
Cooperative Doppler radar system Patent
[NASA-CASE-LAR-10403] c 21 N71-11766
Doppler radar having phase modulation of both transmitted and reflected return signals
[NASA-CASE-MSC-18675-1] c 32 N84-22820

DOSIMETERS
Dosimeter for high levels of absorbed radiation Patent
[NASA-CASE-XLA-03645] c 14 N71-20430
Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311

DRAG CHUTES
Flexible wing deployment device Patent
[NASA-CASE-XLA-01220] c 02 N70-41863
Lightweight, variable solidity knitted parachute fabric --- for aerodynamic decelerators
[NASA-CASE-LAR-10776-1] c 02 N74-10034
Extended moment arm anti-spin device
[NASA-CASE-LAR-12979-1] c 05 N85-21147

DRAG MEASUREMENT
Air frame drag balance Patent
[NASA-CASE-XLA-00113] c 14 N70-33386
Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-00755] c 01 N71-13410
Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-05828] c 01 N71-13411
Impact energy absorber Patent
[NASA-CASE-XLA-01530] c 14 N71-23092
System for use in conducting wake investigation for a wing in flight --- differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300
Skin friction measuring device for aircraft
[NASA-CASE-FRC-11029-1] c 06 N81-17057

DRAG REDUCTION
Propeller blade loading control Patent
[NASA-CASE-XAC-00139] c 02 N70-34856
Aircraft wheel spray drag alleviator Patent
[NASA-CASE-XLA-01583] c 02 N70-36825
Leading edge vortex flaps for drag reduction --- during subsonic flight
[NASA-CASE-LAR-12750-1] c 02 N81-19016
Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288
Propulsion apparatus and method using boil-off gas from a cryogenic liquid --- controlling spacecraft attitude and drag
[NASA-CASE-MFS-25946-1] c 20 N84-15183
Combined riblet and LEBU drag reduction system
[NASA-CASE-LAR-13286-1] c 02 N85-28922
Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 07 N85-35194

DRIFT (INSTRUMENTATION)
Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39986
Radiation direction detector including means for compensating for photocell aging Patent
[NASA-CASE-XLA-00183] c 14 N70-40239
Failure detection and control means for improved drift performance of a gimballed platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175

DRILL BITS
Sample collecting impact bit Patent
[NASA-CASE-XNP-01412] c 15 N70-42034
Hole cutter --- drill bits and rotating shaft
[NASA-CASE-MFS-22649-1] c 37 N75-25186

DRILLING
Method for milling and drilling glass
[NASA-CASE-GSC-12636-1] c 31 N83-27058

DRILLS
Rock drill for recovering samples
[NASA-CASE-XNP-07478] c 14 N69-21923
Soil penetrometer
[NASA-CASE-XNP-05530] c 14 N73-32321

DRIVES
Transistor drive regulator Patent
[NASA-CASE-LEW-10233] c 10 N71-27126

DROP TOWERS
Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442
Sphere forming method and apparatus
[NASA-CASE-NPO-15070-1] c 31 N83-35176

DROPS (LIQUIDS)
Droplet monitoring probe
[NASA-CASE-NPO-10985] c 14 N73-20478

DRUGS
Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c 25 N75-12086

DRYING
Drying apparatus for photographic sheet material
[NASA-CASE-GSC-11074-1] c 14 N73-28489
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484
Cure-in-place composite fastener
[NASA-CASE-LAR-12939-1] c 37 N86-20798

DRYING APPARATUS
Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080

DUCTED FANS
Cam-operated pitch-change apparatus
[NASA-CASE-LEW-13050-1] c 07 N79-14095

DUCTILITY
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540

DUCTS
Duct coupling for single-handed operation Patent
[NASA-CASE-MFS-20395] c 15 N71-24903
Externally supported internally stabilized flexible duct joint
[NASA-CASE-MFS-19194-1] c 37 N76-14460
Apparatus for supplying conditioned air at a substantially constant temperature and humidity
[NASA-CASE-GSC-12191-1] c 31 N80-32583

DURABILITY
Belt for transmitting power from a cogged driving member to a cogged driven member
[NASA-CASE-GSC-12289-1] c 37 N80-32717

DUST COLLECTORS
Disk pack cleaning table Patent Application
[NASA-CASE-LAR-10590-1] c 15 N70-26819
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104

DYE LASERS
Infrared tunable laser
[NASA-CASE-ARC-10463-1] c 09 N73-32111
Laser head for simultaneous optical pumping of several dye lasers --- with single flash lamp
[NASA-CASE-LAR-11341-1] c 36 N75-19655

DYES
Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170
Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432

DYNAMIC CHARACTERISTICS
Dynamic sensor Patent
[NASA-CASE-XAC-02877] c 14 N70-41681
Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397

Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082
Universal clamp
[NASA-CASE-MSC-20549-1] c 37 N86-19612
DYNAMIC CONTROL
Motion restraining device
[NASA-CASE-NPO-13619-1] c 37 N78-16369
System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516
DYNAMIC LOADS
Multilegged support system Patent
[NASA-CASE-XLA-01326] c 11 N71-21481
Tension measurement device Patent
[NASA-CASE-XMS-04545] c 15 N71-22878
Impact monitoring apparatus
[NASA-CASE-MSC-15626-1] c 14 N72-25411
DYNAMIC MODULUS OF ELASTICITY
Apparatus for positioning and loading a test specimen Patent
[NASA-CASE-XLE-01300] c 15 N70-41993
DYNAMIC RESPONSE
Impact simulator Patent
[NASA-CASE-XLA-00493] c 11 N70-34786
Instrument for measuring the dynamic behavior of liquids Patent
[NASA-CASE-XLA-05541] c 12 N71-26387
Response analyzers for sensors Patent
[NASA-CASE-MFS-11204] c 14 N71-29134
Cam-operated pitch-change apparatus
[NASA-CASE-LEW-13050-1] c 07 N79-14095
DYNAMIC STRUCTURAL ANALYSIS
Method and apparatus for measuring the damping characteristics of a structure
[NASA-CASE-ARC-10154-1] c 14 N72-22440
DYNAMIC TESTS
Support apparatus for dynamic testing Patent
[NASA-CASE-XMF-01772] c 11 N70-41677
Hydraulic support for dynamic testing Patent
[NASA-CASE-XMF-03248] c 11 N71-10604
DYNAMOMETERS
Thrust dynamometer Patent
[NASA-CASE-XLE-00702] c 14 N70-40203
Thrust dynamometer Patent
[NASA-CASE-XLE-05260] c 14 N71-20429

E

EAR
Method and apparatus for continuously monitoring blood oxygenation, blood pressure, pulse rate and the pressure pulse curve utilizing an ear oximeter as transducer Patent
[NASA-CASE-XAC-05422] c 04 N71-23185
EARTH ATMOSPHERE
Ablation sensor Patent
[NASA-CASE-XLA-01791] c 14 N71-22991
EARTH CRUST
Seismic vibration source
[NASA-CASE-NPO-14112-1] c 46 N79-22679
EARTH ORBITS
High temperature furnace for melting materials in space
[NASA-CASE-MFS-20710] c 11 N72-23215
A method of delivering a vehicle to earth orbit and returning the reusable portion thereof to earth
[NASA-CASE-MSC-12391] c 30 N73-12884
EARTHQUAKES
Laboratory glassware rack for seismic safety
[NASA-CASE-ARC-11422-1] c 35 N84-20808
ECCENTRICS
Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370
ECHELETTE GRATINGS
Cooled echelle grating spectrometer --- for space telescope applications
[NASA-CASE-NPO-14372-1] c 35 N80-26635
ECHOES
Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580
Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376
EDDY CURRENTS
Apparatus and method for inspecting a bearing ball --- eddy current inspection technique
[NASA-CASE-MFS-25833-1] c 35 N83-21316
EDGES
Method of forming a sharp edge on an optical device
[NASA-CASE-GSC-12348-1] c 74 N80-24149
EFFICIENCY
Recovery of radiation damaged solar cells through thermal annealing
[NASA-CASE-XGS-04047-2] c 03 N72-11062
High efficiency multifrequency feed
[NASA-CASE-GSC-11909] c 32 N74-20863
Improved heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] c 20 N84-32425
EFFLUENTS
Vortex generator for controlling the dispersion of effluents in a flowing liquid
[NASA-CASE-LAR-12045-1] c 34 N77-24423
Fluid sample collection and distribution system --- qualitative analysis of aqueous samples from several points
[NASA-CASE-MSC-16841-1] c 34 N79-24285
EGRESS
Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992
EJECTION
Apparatus for ejection of an instrument cover
[NASA-CASE-XMF-04132] c 15 N69-27502
EJECTION SEATS
Device for separating occupant from an ejection seat Patent
[NASA-CASE-XMS-04625] c 05 N71-20718
EJECTORS
Ejection unit Patent
[NASA-CASE-XNP-00676] c 15 N70-38996
Device for separating occupant from an ejection seat Patent
[NASA-CASE-XMS-04625] c 05 N71-20718
Latch/ejector unit Patent
[NASA-CASE-XLA-03538] c 15 N71-24897
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609
Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MRS-25791-1] c 09 N84-27749
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469
ELASTIC BODIES
Belleville spring assembly with elastic guides
[NASA-CASE-XNP-09452] c 15 N69-27504
Means for suppressing or attenuating bending motion of elastic bodies Patent
[NASA-CASE-XAC-05632] c 32 N71-23971
Device for measuring tensile forces
[NASA-CASE-MFS-21728-1] c 35 N74-27865
ELASTIC DEFORMATION
Instrument for measuring torsional creep and recovery Patent
[NASA-CASE-XLE-01481] c 14 N71-10781
Means for suppressing or attenuating bending motion of elastic bodies Patent
[NASA-CASE-XAC-05632] c 32 N71-23971
ELASTIC MEDIA
Miniature vibration isolator Patent
[NASA-CASE-XLA-01019] c 15 N70-40156
ELASTIC PROPERTIES
Elastic universal joint Patent
[NASA-CASE-XNP-00416] c 15 N70-36947
Deformable vehicle wheel Patent
[NASA-CASE-MFS-20400] c 31 N71-18611
Threadless fastener apparatus Patent
[NASA-CASE-XFR-05302] c 15 N71-23254
Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-1] c 06 N73-33076
Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-MFS-22189-1] c 35 N75-19615
ELASTIC SHEETS
Method for forming plastic materials Patent
[NASA-CASE-XMS-05516] c 15 N71-17803
ELASTOMERS
Metal valve pintle with encapsulated elastomeric body Patent
[NASA-CASE-MSC-12116-1] c 15 N71-17648
Extensometer Patent
[NASA-CASE-XMF-04680] c 15 N71-19489
Elastomeric silazane polymers and process for preparing the same Patent
[NASA-CASE-XMF-04133] c 06 N71-20717
Bonded elastomeric seal for electrochemical cells Patent
[NASA-CASE-XGS-02631] c 03 N71-23006
Conductive elastomeric extensometer
[NASA-CASE-MFS-21049-1] c 52 N74-27864
Vacuum pressure molding technique
[NASA-CASE-LAR-10073-1] c 37 N76-24575
Method of making hollow elastomeric bodies
[NASA-CASE-NPO-13535-1] c 37 N76-31524
Process for spinning flame retardant elastomeric compositions --- fabricating synthetic fibers for high oxygen environments
[NASA-CASE-MSC-14331-3] c 27 N78-32262
Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same
[NASA-CASE-NPO-13137-1] c 27 N80-32514
Prepolymer dianhydrides
[NASA-CASE-NPO-13899-1] c 27 N80-32515
Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104
Process for the preparation of fluorine containing crosslinked elastomeric polytriazine and product so produced
[NASA-CASE-ARC-11248-1] c 27 N81-17259
The 1,2,4-oxadiazole elastomers --- heat resistant polymers
[NASA-CASE-ARC-11253-1] c 27 N81-17262
Bifunctional monomers having terminal oxime and cyano or amidine groups
[NASA-CASE-ARC-11253-3] c 27 N81-24256
Circumferential shaft seal
[NASA-CASE-LEW-12119-2] c 37 N81-26447
Heat sealable, flame and abrasion resistant coated fabric --- clothing and containers for space exploration
[NASA-CASE-MSC-18382-1] c 27 N82-16238
Preparation of crosslinked 1,2,4-oxadiazole polymer
[NASA-CASE-ARC-11253-2] c 27 N82-24338
Method of bonding plasticized elastomer to metal and articles produced thereby
[NASA-CASE-MFS-25181-1] c 27 N82-24340
Elastomer toughened polyimide adhesives
[NASA-CASE-LAR-12775-1] c 27 N83-28240
Elastomer-modified phosphorus-containing imide resins
[NASA-CASE-ARC-11400-1] c 27 N84-14322
Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744
Elastomer toughened polyimide adhesives --- bonding metal and composite material structures for aircraft and spacecraft
[NASA-CASE-LAR-12775-2] c 27 N85-21349
Electro-expulsive separation system
[NASA-CASE-ARC-11613-1] c 33 N85-29150
Cathode for primary battery
[NASA-CASE-NPO-16397-1-CU] c 33 N86-19517
Polyimides containing ATBN elastometers and the process for preparing same
[NASA-CASE-LAR-13178-1] c 27 N86-20565
Perfluoro (Imidoylamidine) diamidines
[NASA-CASE-ARC-11402-3] c 23 N86-21582
ELBOW (ANATOMY)
Elbow and knee joint for hard space suits and the like
[NASA-CASE-ARC-11610-1] c 54 N85-20666
ELECTRIC ARCS
Electric-arc heater Patent
[NASA-CASE-XLA-00330] c 33 N70-34540
Electric arc welding Patent
[NASA-CASE-XMF-00392] c 15 N70-34814
Electric arc driven wind tunnel Patent
[NASA-CASE-XMF-00411] c 11 N70-36913
Electric arc device for heating gases Patent
[NASA-CASE-XAC-00319] c 25 N70-41628
Electric arc apparatus Patent
[NASA-CASE-XAC-01677] c 09 N71-20816
Arc electrode of graphite with ball tip Patent
[NASA-CASE-XLE-04788] c 09 N71-22987
High powered arc electrodes --- producing solar simulator radiation
[NASA-CASE-LEW-11162-1] c 33 N74-12913
Electric arc light source having undercut recessed anode
[NASA-CASE-ARC-10266-1] c 33 N75-29318
Welding torch arc light reflector
[NASA-CASE-MFS-29134-1] c 74 N86-20130
ELECTRIC AUTOMOBILES
Additive for zinc electrodes --- electric automobiles
[NASA-CASE-LEW-13286-1] c 33 N84-14422
ELECTRIC BATTERIES
Spacecraft battery seals
[NASA-CASE-XGS-03864] c 15 N69-24320
Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051
Method and apparatus for battery charge control Patent
[NASA-CASE-XGS-05432] c 03 N71-19438
Coulometer and third electrode battery charging circuit Patent
[NASA-CASE-GSC-10487-1] c 03 N71-24719
Heat activated cell Patent
[NASA-CASE-LEW-11359] c 03 N71-28579
Synchronous orbit battery cycler
[NASA-CASE-GSC-11211-1] c 03 N72-25020
Storage battery comprising negative plates of a wedge shaped configuration --- for preventing shape change induced malfunctions
[NASA-CASE-NPO-11806-1] c 44 N74-19693
Battery testing device --- for testing cells of multiple-cell battery
[NASA-CASE-MFS-20761-1] c 44 N74-27519

Rapid activation and checkout device for batteries
[NASA-CASE-MFS-22749-1] c 44 N76-14601
Zinc-halide battery with molten electrolyte
[NASA-CASE-NPO-11961-1] c 44 N76-18643
Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664
Voltage regulator for battery power source --- using a bipolar transistor
[NASA-CASE-FRC-10116-1] c 33 N79-23345
In-situ cross linking of polyvinyl alcohol --- application to battery separator films
[NASA-CASE-LEW-13135-2] c 27 N81-24257
State-of-charge coulometer
[NASA-CASE-NPO-15759-1] c 35 N85-21596

ELECTRIC BRIDGES
Pulsed excitation voltage circuit for transducers
[NASA-CASE-FRC-10036] c 09 N72-22200
Infinite range electronics gain control circuit
[NASA-CASE-GSC-10786-1] c 10 N72-28241
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-2] c 33 N75-25041
Germanium coated microbridge and method
[NASA-CASE-MFS-23274-1] c 33 N78-13320
Power converter
[NASA-CASE-FRC-11014-1] c 33 N82-18494

ELECTRIC CELLS
Connector strips-positive, negative and T tabs
[NASA-CASE-XGS-01395] c 03 N69-21539
Heat activated cell with alkali anode and alkali salt electrolyte Patent
[NASA-CASE-LEW-11358] c 03 N71-26084
Ion-exchange membrane with platinum electrode assembly Patent
[NASA-CASE-XMS-02063] c 03 N71-29044

ELECTRIC CHARGE
Method and device for determining battery state of charge Patent
[NASA-CASE-NPO-10194] c 03 N71-20407
Automatic battery charger Patent
[NASA-CASE-XNP-04758] c 03 N71-24605

ELECTRIC CHOPPERS
Monostable multivibrator
[NASA-CASE-GSC-10082-1] c 10 N72-20221
Transformer regulated self-stabilizing chopper
[NASA-CASE-XGS-09186] c 33 N78-17295

ELECTRIC COILS
Broadband choke for antenna structure
[NASA-CASE-XMS-05303] c 07 N69-27462
Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017
Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] c 35 N84-33769

ELECTRIC CONDUCTORS
Electrode and insulator with shielded dielectric junction
[NASA-CASE-XLE-03778] c 09 N69-21542
Solar cell matrix Patent
[NASA-CASE-NPO-10821] c 03 N71-19545
Electrical switching device Patent
[NASA-CASE-NPO-10037] c 09 N71-19610
Flexible conductive disc electrode Patent
[NASA-CASE-FRC-10029] c 09 N71-24618
Electrical insulating layer process
[NASA-CASE-LEW-10489-1] c 15 N72-25447
Injector for use in high voltage isolators for liquid feed lines
[NASA-CASE-NPO-11377] c 15 N73-27406
Solar cell grid patterns
[NASA-CASE-NPO-13087-2] c 44 N76-31666
Velocity measurement system
[NASA-CASE-MFS-23363-1] c 35 N78-32396
Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c 33 N81-27397

ELECTRIC CONNECTORS
Connector - Electrical
[NASA-CASE-XLA-01288] c 09 N69-21470
Test fixture for pellet-like electrical elements
[NASA-CASE-XNP-06032] c 09 N69-21926
Coupling device
[NASA-CASE-XMS-07846-1] c 09 N69-21927
Electrical feed-through connection for printed circuit boards and printed cable
[NASA-CASE-XMF-01483] c 14 N69-27431
Electrical connector pin with wiping action
[NASA-CASE-XMF-04238] c 09 N69-39734
Electrical connector Patent Application
[NASA-CASE-MFS-14741] c 09 N70-20737
Electrical connector for flat cables Patent
[NASA-CASE-XMF-00324] c 09 N70-34596
Printed cable connector Patent
[NASA-CASE-XMF-00369] c 09 N70-36494
Printed circuit board with bellows rivet connection Patent
[NASA-CASE-XNP-05082] c 15 N70-41960
Method of making a molded connector Patent
[NASA-CASE-XMF-03498] c 15 N71-15986
Coaxial cable connector Patent
[NASA-CASE-XNP-04732] c 09 N71-20851
Connector internal force gauge Patent
[NASA-CASE-XNP-03918] c 14 N71-23087
Protection of serially connected solar cells against open circuits by the use of shunting diode Patent
[NASA-CASE-XLE-04535] c 03 N71-23354
Microelectronic module package Patent
[NASA-CASE-XMS-02182] c 10 N71-28783
Breakaway connector
[NASA-CASE-NPO-11140] c 15 N72-17455
Electrical connector
[NASA-CASE-NPO-10694] c 09 N72-20200
Radio frequency filter device
[NASA-CASE-XLA-02609] c 09 N72-25256
Use of unilluminated solar cells as shunt diodes for a solar array
[NASA-CASE-GSC-10344-1] c 03 N72-27053
Electrical connector
[NASA-CASE-MFS-20757] c 09 N72-28225
Device for configuring multiple leads --- method for connecting electric leads to printed circuit board
[NASA-CASE-MFS-22133-1] c 33 N74-26977
Connector --- for connecting circuits on different layers of multilayer printed circuit boards
[NASA-CASE-LAR-11709-1] c 37 N76-27567
Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738
Magnetic electrical connectors for biomedical percutaneous implants
[NASA-CASE-KSC-11030-1] c 52 N77-25772
Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359
Electrical self-aligning connector --- orbital servicer vehicles
[NASA-CASE-MFS-25211-2] c 33 N84-14423

ELECTRIC CONTACTS
Solid state switch
[NASA-CASE-XNP-09228] c 09 N69-27500
Deflective rod switch with elastic support and sealing means Patent
[NASA-CASE-XNP-09808] c 09 N71-12518
Method of making electrical contact on silicon solar cell and resultant product Patent
[NASA-CASE-XLE-04787] c 03 N71-20492
Continuous turning slip ring assembly Patent
[NASA-CASE-XMF-01049] c 15 N71-23049
Electrical connector
[NASA-CASE-MFS-20757] c 09 N72-28225
Electrostatic measurement system --- for contact-electrifying a dielectric
[NASA-CASE-MFS-22129-1] c 33 N75-18477
Process for preparing liquid metal electrical contact device
[NASA-CASE-LEW-11978-1] c 33 N77-26385
Non-contacting power transfer device
[NASA-CASE-GSC-12595-1] c 33 N82-24422
Solar cell having improved back surface reflector
[NASA-CASE-LEW-13620-1] c 44 N83-13579
Screen printed interdigitated back contact solar cell
[NASA-CASE-LEW-13414-1] c 44 N85-20530

ELECTRIC CONTROL
Increasing efficiency of switching type regulator circuits Patent
[NASA-CASE-XMS-09352] c 09 N71-23316
Adjustable indicating device for load position
[NASA-CASE-MFS-28008-1] c 35 N85-20300
Four quadrant control circuit for a brushless three phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N86-20682

ELECTRIC CURRENT
Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10608
Electrical load protection device Patent
[NASA-CASE-MSC-12135-1] c 09 N71-12526
Micro current measuring device using plural logarithmic response heated filamentary type diodes Patent
[NASA-CASE-XNP-00384] c 09 N71-13530
Connector internal force gauge Patent
[NASA-CASE-XNP-03918] c 14 N71-23087
Pulse modulator providing fast rise and fall times Patent
[NASA-CASE-XMS-04919] c 09 N71-23270
Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271
Protection of serially connected solar cells against open circuits by the use of shunting diode Patent
[NASA-CASE-XLE-04535] c 03 N71-23354
Color television systems using a single gun color cathode ray tube Patent
[NASA-CASE-ERC-10098] c 09 N71-28618
Current dependent filter inductance
[NASA-CASE-ERC-10139] c 09 N72-17154
High voltage transistor amplifier with constant current load
[NASA-CASE-NPO-11023] c 09 N72-17155
Current steering commutator
[NASA-CASE-NPO-10743] c 08 N72-21199
Saturation current protection apparatus for saturable core transformers
[NASA-CASE-ERC-10075-2] c 09 N72-22196
Thermal to electrical power conversion system with solid-state switches with Seebeck effect compensation
[NASA-CASE-NPO-11388] c 03 N72-23048
Load current sensor for a series pulse width modulated power supply
[NASA-CASE-GSC-10656-1] c 09 N72-25249
Method and apparatus for limiting field emission current
[NASA-CASE-ERC-10015-2] c 10 N72-27246
Deposition apparatus
[NASA-CASE-LAR-10541-1] c 15 N72-32487
Lightning current measuring systems
[NASA-CASE-KSC-10807-1] c 33 N75-26246
Overload protection system for power inverter
[NASA-CASE-NPO-13872-1] c 33 N78-10377
Shunt regulation electric power system
[NASA-CASE-GSC-10135] c 33 N78-17296
Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c 33 N79-10337
Electroexplosive device
[NASA-CASE-NPO-13858-1] c 28 N79-11231
Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315
Lightning current detector
[NASA-CASE-KSC-11057-1] c 33 N79-14305
Driver for solar cell I-V characteristic plots
[NASA-CASE-NPO-14096-1] c 44 N80-18551
Electrical power generating system --- for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280
Electro-expulsive separation system
[NASA-CASE-ARC-11613-1] c 33 N85-29150
Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212

ELECTRIC DISCHARGES
Electrical discharge apparatus for forming Patent
[NASA-CASE-XMF-00375] c 15 N70-34249
High voltage pulse generator Patent
[NASA-CASE-MSC-12178-1] c 09 N71-13518
Pulse generating circuit employing switch means on ends of delay line for alternately charging and discharging same Patent
[NASA-CASE-XNP-00745] c 10 N71-28960
Rapidly pulsed, high intensity, incoherent light source
[NASA-CASE-XLE-2529-3] c 33 N74-20859
Voltage feed through apparatus having reduced partial discharge
[NASA-CASE-GSC-12347-1] c 33 N80-18286

ELECTRIC ENERGY STORAGE
Apparatus for measuring current flow Patent
[NASA-CASE-XGS-02439] c 14 N71-19431
Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664
Electrically rechargeable REDOX flow cell
[NASA-CASE-LEW-12220-1] c 44 N77-14581
Gels as battery separators for soluable electrode cells
[NASA-CASE-LEW-12364-1] c 44 N77-22606
Electrochemical cell for rebalancing REDOX flow system
[NASA-CASE-LEW-13150-1] c 44 N79-26474
Toroidal cell and battery --- storage battery for high amp-hour load applications
[NASA-CASE-LEW-12918-1] c 44 N81-24521

ELECTRIC EQUIPMENT
Ac power amplifier Patent Application
[NASA-CASE-LAR-10218-1] c 09 N70-34559
Generator for a space power system Patent
[NASA-CASE-XLE-04250] c 09 N71-20446
High impedance measuring apparatus Patent
[NASA-CASE-XMS-08589-1] c 09 N71-20569
Regulated power supply Patent
[NASA-CASE-XMS-01991] c 09 N71-21449
Method for improving the signal-to-noise ratio of the Wheatstone bridge type bolometer Patent
[NASA-CASE-XLA-02810] c 14 N71-25901
Buck boost voltage regulation circuit Patent
[NASA-CASE-GSC-10735-1] c 10 N71-26085
Electronically resettable fuse Patent
[NASA-CASE-XGS-11177] c 09 N71-27001
Voltage regulator Patent
[NASA-CASE-ERC-10113] c 09 N71-27053

Digital pulse width selection circuit Patent
[NASA-CASE-XLA-07788] c 09 N71-29139
Solar energy powered heliotrope
[NASA-CASE-GSC-10945-1] c 21 N72-31637
Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214
Hermetically sealed semiconductor
[NASA-CASE-GSC-10791-1] c 15 N73-14469
Overvoltage protection network
[NASA-CASE-ARC-10197-1] c 33 N74-17929
Sprag solenoid brake --- development and operations of electrically controlled brake
[NASA-CASE-MFS-21846-1] c 37 N74-26976
Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c 37 N75-18573
Self-regulating proportionally controlled heating apparatus and technique
[NASA-CASE-GSC-11752-1] c 77 N75-20140

ELECTRIC EQUIPMENT TESTS
Test fixture for pellet-like electrical elements
[NASA-CASE-XNP-06032] c 09 N69-21926
Pulse amplitude and width detector Patent
[NASA-CASE-XMF-06519] c 09 N71-12519
High power-high voltage waterload Patent
[NASA-CASE-XNP-05381] c 09 N71-20842

ELECTRIC FIELD STRENGTH
Apparatus for field strength measurement of a space vehicle Patent
[NASA-CASE-XLE-00820] c 14 N71-16014
Apparatus for measuring electric field strength on the surface of a model vehicle Patent
[NASA-CASE-XLE-02038] c 09 N71-16086
Floating two force component measuring device Patent
[NASA-CASE-XAC-04885] c 14 N71-23790
Apparatus for determining the deflection of an electron beam impinging on a target Patent
[NASA-CASE-XMF-06617] c 09 N71-24843

ELECTRIC FIELDS
Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-00755] c 01 N71-13410
Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-05828] c 01 N71-13411
Instrument for measuring potentials on two dimensional electric field plots Patent
[NASA-CASE-XLA-08493] c 10 N71-19421
Electron beam instrument for measuring electric fields Patent
[NASA-CASE-XMF-10289] c 14 N71-23699
Field ionization electrodes Patent
[NASA-CASE-ERC-10013] c 09 N71-26678
Determining distance to lightning strokes from a single station
[NASA-CASE-KSC-10698] c 07 N73-20175
Rocket borne instrument to measure electric fields inside electrified clouds
[NASA-CASE-KSC-10730-1] c 14 N73-32318
Electric field measuring and display system --- for cloud formations
[NASA-CASE-KSC-10731-1] c 33 N74-27862
Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779
Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143

ELECTRIC FILTERS
Static inverters which sum a plurality of waves Patent
[NASA-CASE-XMF-00663] c 08 N71-18752
Remodulator filter Patent
[NASA-CASE-NPO-10198] c 09 N71-24806
RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171
Multiloop RC active filter apparatus having low parameter sensitivity with low amplifier gain
[NASA-CASE-ARC-10192] c 09 N72-21245
Radio frequency filter device
[NASA-CASE-XLA-02609] c 09 N72-25256
Filter for third order phase locked loops
[NASA-CASE-NPO-11941-1] c 10 N73-27171

ELECTRIC FURNACES
High gradient directional solidification furnace
[NASA-CASE-MFS-25963-1] c 35 N86-20750

ELECTRIC FUSES
Electrical load protection device Patent
[NASA-CASE-MSC-12135-1] c 09 N71-12526
Diode and protection fuse unit Patent
[NASA-CASE-XKS-03381] c 09 N71-22796
Fused switch
[NASA-CASE-XMS-01244-1] c 33 N79-33393

ELECTRIC GENERATORS
Regulated dc to dc converter
[NASA-CASE-XGS-03429] c 03 N69-21330
Generator for a space power system Patent
[NASA-CASE-XLE-04250] c 09 N71-20446
Solid state pulse generator with constant output width, for variable input width, in nanosecond range Patent
[NASA-CASE-XGS-03427] c 10 N71-23029
Continuous turning slip ring assembly Patent
[NASA-CASE-XMF-01049] c 15 N71-23049
Positive dc to positive dc converter Patent
[NASA-CASE-XMF-14301] c 09 N71-23188
High temperature ferromagnetic cobalt-base alloy Patent
[NASA-CASE-XLE-03629] c 17 N71-23248
Variable width pulse integrator Patent
[NASA-CASE-XLA-03356] c 10 N71-23315
Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114-2] c 09 N71-24807
RC rate generator for slow speed measurement Patent
[NASA-CASE-XMF-02966] c 10 N71-24863
Pulse width inverter Patent
[NASA-CASE-MFS-10068] c 10 N71-25139
Multiple varactor frequency doubler Patent
[NASA-CASE-XMF-04958-1] c 10 N71-26414
Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366
Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114] c 33 N71-27862
Load-insensitive electrical device
[NASA-CASE-XER-11046] c 09 N72-22203
Controllable load insensitive power converters
[NASA-CASE-ERC-10268] c 09 N72-25252
A dc to ac to dc converter having transistor synchronous rectifiers
[NASA-CASE-GSC-11126-1] c 09 N72-25253
Electromagnetic wave energy converter
[NASA-CASE-GSC-11394-1] c 09 N73-32109
Heat operated cryogenic electrical generator
[NASA-CASE-NPO-13303-1] c 20 N75-24837
Electric power generation system directory from laser power
[NASA-CASE-NPO-13308-1] c 36 N75-30524
Smoke generator
[NASA-CASE-ARC-10905-1] c 37 N77-13418
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-11389-1] c 33 N77-26387
Wind wheel electric power generator
[NASA-CASE-MFS-23515-1] c 44 N80-21828
Natural turbulence electrical power generator --- using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834
Electrical power generating system --- for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280
Linear magnetic motor/generator --- to generate electric energy using magnetic flux for spacecraft power supply
[NASA-CASE-GSC-12518-1] c 33 N82-24421
Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319
Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] c 33 N84-14424
Solar powered actuator with continuously variable auxiliary power control
[NASA-CASE-MFS-25637-1] c 44 N85-21769

ELECTRIC IGNITION
Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779

ELECTRIC MOTOR VEHICLES
Automotive absorption air conditioner utilizing solar and motor waste heat
[NASA-CASE-NPO-15183-1] c 44 N82-26776

ELECTRIC MOTORS
Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987
Electronic motor control system Patent
[NASA-CASE-XMF-01129] c 09 N70-38712
Electronic beam switching commutator Patent
[NASA-CASE-XGS-01451] c 09 N71-10677
Regenerative braking system Patent
[NASA-CASE-XMF-01096] c 10 N71-16030
Angular position and velocity sensing apparatus Patent
[NASA-CASE-XGS-05680] c 14 N71-17585
Reversible current control apparatus Patent
[NASA-CASE-XLA-09371] c 10 N71-18724
Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772
Detenting servomotor Patent
[NASA-CASE-XNP-06936] c 15 N71-24695
Transistor servo system including a unique differential amplifier circuit Patent
[NASA-CASE-XMF-05195] c 10 N71-24861
Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895
Direct current motor with stationary armature and field Patent
[NASA-CASE-XGS-05290] c 09 N71-25999
Dual polarity full wave dc motor drive Patent
[NASA-CASE-XNP-07477] c 09 N71-26092
Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418
A dc motor speed control system Patent
[NASA-CASE-MFS-14610] c 09 N71-28886
Optimal control system for an electric motor driven vehicle
[NASA-CASE-NPO-11210] c 11 N72-20244
Electric motive machine including magnetic bearing
[NASA-CASE-XGS-07805] c 15 N72-33476
Redundant speed control for brushless Hall effect motor
[NASA-CASE-MFS-20207-1] c 09 N73-32107
Three phase full wave dc motor decoder
[NASA-CASE-GSC-11824-1] c 33 N77-26386
Rotary electric device
[NASA-CASE-GSC-12138-1] c 33 N79-20314
Controller for computer control of brushless dc motors --- automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352
Linear magnetic motor/generator --- to generate electric energy using magnetic flux for spacecraft power supply
[NASA-CASE-GSC-12518-1] c 33 N82-24421
Four quadrant control circuit for a brushless three phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N86-20682

ELECTRIC NETWORKS
Condition and condition duration indicator Patent
[NASA-CASE-XMF-01097] c 10 N71-16058
Solid state pulse generator with constant output width, for variable input width, in nanosecond range Patent
[NASA-CASE-XGS-03427] c 10 N71-23029
Increasing efficiency of switching type regulator circuits Patent
[NASA-CASE-XMS-09352] c 09 N71-23316
Broadband frequency discriminator Patent
[NASA-CASE-NPO-10096] c 07 N71-24583
Test apparatus for locating shorts during assembly of electrical buses
[NASA-CASE-ARC-11116-1] c 33 N82-24420

ELECTRIC POTENTIAL
Method and apparatus for battery charge control Patent
[NASA-CASE-XGS-05432] c 03 N71-19438
Positive dc to positive dc converter Patent
[NASA-CASE-XMF-14301] c 09 N71-23188
Variable width pulse integrator Patent
[NASA-CASE-XLA-03356] c 10 N71-23315
Voltage dropout sensor Patent
[NASA-CASE-KSC-10020] c 10 N71-27338
Automated equipotential plotter
[NASA-CASE-NPO-11134] c 09 N72-21246
Pulsed excitation voltage circuit for transducers
[NASA-CASE-FRC-10036] c 09 N72-22200
Load-insensitive electrical device
[NASA-CASE-XER-11046] c 09 N72-22203
Continuously variable voltage controlled phase shifter
[NASA-CASE-NPO-11129] c 09 N72-33204
Photoelectron spectrometer with means for stabilizing sample surface potential
[NASA-CASE-NPO-13772-1] c 35 N78-10429
Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411
Driver for solar cell I-V characteristic plots
[NASA-CASE-NPO-14096-1] c 44 N80-18551
Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348
Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996
Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849
Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N84-27975
Simplified dc to dc converter
[NASA-CASE-LEW-13495-1] c 33 N84-33663
Angular measurement system
[NASA-CASE-MFS-25825-1] c 35 N85-20298
High voltage power supply
[NASA-CASE-GSC-12818-1] c 33 N85-29147
Magnetically switched power supply systems for lasers
[NASA-CASE-NPO-16402-1] c 36 N85-29265
Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374

ELECTRIC POWER
Switching circuit employing regeneratively connected complementary transistors Patent
[NASA-CASE-XNP-02654] c 10 N70-42032

High power-high voltage waterload Patent
[NASA-CASE-XNP-05381] c 09 N71-20842
Power factor control system for AC induction motors
[NASA-CASE-MFS-23280-1] c 33 N78-10376
Shunt regulation electric power system
[NASA-CASE-GSC-10135] c 33 N78-17296
Electrical power generating system --- for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280

ELECTRIC POWER PLANTS
Ocean thermal plant
[NASA-CASE-KSC-11034-1] c 44 N78-32542
Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018

ELECTRIC POWER SUPPLIES
Current dependent filter inductance
[NASA-CASE-ERC-10139] c 09 N72-17154
Thermal to electrical power conversion system with solid-state switches with Seebeck effect compensation
[NASA-CASE-NPO-11388] c 03 N72-23048
Parasitic suppressing circuit
[NASA-CASE-ERC-10403-1] c 10 N73-26228
Powerplexer
[NASA-CASE-MSC-12396-1] c 03 N73-31988
Inherent redundacy electric heater
[NASA-CASE-MFS-21462-1] c 33 N74-14935
Temperature compensated current source
[NASA-CASE-MSC-11235] c 33 N78-17294
High voltage power supply
[NASA-CASE-GSC-12818-1] c 33 N85-29147

ELECTRIC POWER TRANSMISSION
Magnetic power switch Patent
[NASA-CASE-NPO-10242] c 09 N71-24803
Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366
Powerplexer
[NASA-CASE-MSC-12396-1] c 03 N73-31988
Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver
[NASA-CASE-MFS-21470-1] c 44 N74-19870
Electrical rotary joint apparatus for large space structures
[NASA-CASE-MFS-23981-1] c 07 N83-20944

ELECTRIC PROPULSION
Electric propulsion engine test chamber Patent
[NASA-CASE-XLE-00252] c 11 N70-34844

ELECTRIC PULSES
Pulse counting circuit which simultaneously indicates the occurrence of the nth pulse Patent
[NASA-CASE-XMF-00906] c 09 N70-41655
Variable pulse width multiplier Patent
[NASA-CASE-XLA-02850] c 09 N71-20447
Phonocardiograph transducer Patent
[NASA-CASE-XMS-05365] c 14 N71-22993
Solid state pulse generator with constant output width, for variable input width, in nanosecond range Patent
[NASA-CASE-XGS-03427] c 10 N71-23029
Variable width pulse integrator Patent
[NASA-CASE-XLA-03356] c 10 N71-23315
Pulse rise time and amplitude detector Patent
[NASA-CASE-XMF-08804] c 09 N71-24717
Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137
Precision rectifier with FET switching means Patent
[NASA-CASE-ARC-10101-1] c 09 N71-33109
Phase modulating with odd and even finite power series of a modulating signal
[NASA-CASE-LAR-11607-1] c 32 N77-14292
Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310
Active lamp pulse driver circuit --- optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189

ELECTRIC RELAYS
Protective circuit of the spark gap type
[NASA-CASE-XAC-08981] c 09 N69-39897
Time-division multiplexer Patent
[NASA-CASE-XNP-00431] c 09 N70-38998
Out of tolerance warning alarm system for plurality of monitored circuits Patent
[NASA-CASE-XMS-10984-1] c 10 N71-19417
Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773
Circuit breaker utilizing magnetic latching relays Patent
[NASA-CASE-MSC-11277] c 09 N71-29008
Multi-cell battery protection system
[NASA-CASE-LEW-12039-1] c 44 N78-14625

ELECTRIC ROCKET ENGINES
Electron bombardment ion engine Patent
[NASA-CASE-XNP-04124] c 28 N71-21822

ELECTRIC SPARKS
Method and device for detection of a substance --- determining carbon fiber release in fire situations
[NASA-CASE-NPO-14940-1] c 33 N83-31954

ELECTRIC STIMULI
Tread drum for animals --- having an electrical shock station
[NASA-CASE-ARC-10917-1] c 51 N78-27733

ELECTRIC SWITCHES
Thermionic diode switch Patent
[NASA-CASE-NPO-10404] c 03 N71-12255
Deflective rod switch with elastic support and sealing means Patent
[NASA-CASE-XNP-09808] c 09 N71-12518
Electrical switching device Patent
[NASA-CASE-NPO-10037] c 09 N71-19610
Plural position switch status and operativeness checker Patent
[NASA-CASE-XLA-08799] c 10 N71-27272
Pulse generating circuit employing switch means on ends of delay line for alternately charging and discharging same Patent
[NASA-CASE-XNP-00745] c 10 N71-28960
Cyclic switch Patent
[NASA-CASE-LEW-10155-1] c 09 N71-29035
Telemetry actuated switch
[NASA-CASE-ARC-10105] c 09 N72-17153
Differential pressure control
[NASA-CASE-MFS-14216] c 14 N73-13418
Fused switch
[NASA-CASE-XMS-01244-1] c 33 N79-33393
Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418
Automatic thermal switch --- spacecraft applications
[NASA-CASE-GSC-12553-1] c 34 N83-28356
Four quadrant control circuit for a brushless three phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N86-20682

ELECTRIC TERMINALS
Electrical connector pin with wiping action
[NASA-CASE-XMF-04238] c 09 N69-39734
Electrical connector for flat cables Patent
[NASA-CASE-XMF-00324] c 09 N70-34596
Tool attachment for spreading loose elements away from work Patent
[NASA-CASE-XMF-02107] c 15 N71-10809
Electrical spot terminal assembly Patent
[NASA-CASE-NPO-10034] c 15 N71-17685
Resistance soldering apparatus
[NASA-CASE-GSC-10913] c 15 N72-22491
Radio frequency filter device
[NASA-CASE-XLA-02609] c 09 N72-25256
Device for configuring multiple leads --- method for connecting electric leads to printed circuit board
[NASA-CASE-MFS-22133-1] c 33 N74-26977

ELECTRIC WELDING
Electric welding torch Patent
[NASA-CASE-XMF-02330] c 15 N71-23798
Butt welder for fine gauge tungsten/rhenium thermocouple wire
[NASA-CASE-LAR-10103-1] c 15 N73-14468
Welding blades to rotors
[NASA-CASE-LEW-10533-1] c 15 N73-28515

ELECTRIC WIRE
Wire grid forming apparatus Patent
[NASA-CASE-XLE-00023] c 15 N70-33330
Weld control system using thermocouple wire Patent
[NASA-CASE-MFS-06074] c 15 N71-20393
Ablation sensor Patent
[NASA-CASE-XLA-01794] c 33 N71-21586
Resistance soldering apparatus
[NASA-CASE-GSC-10913] c 15 N72-22491
Lead attachment to high temperature devices
[NASA-CASE-ERC-10224] c 09 N72-25261
Means for accommodating large overstrain in lead wires --- by storing extra length of wire in stretchable loop
[NASA-CASE-LAR-10168-1] c 33 N74-22865
Device for configuring multiple leads --- method for connecting electric leads to printed circuit board
[NASA-CASE-MFS-22133-1] c 33 N74-26977
High current electrical lead --- for thermionic converters
[NASA-CASE-LEW-10950-1] c 33 N74-27683
Wire stripper
[NASA-CASE-FRC-10111-1] c 37 N79-10419
Method and apparatus for preparing multiconductor cable with flat conductors
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Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525
Solid-state current transformer
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[NASA-CASE-XNP-01951] c 09 N70-41929
Method and apparatus for cryogenic wire stripping Patent
[NASA-CASE-MFS-10340] c 15 N71-17628
Plasma device feed system Patent
[NASA-CASE-XLE-02902] c 25 N71-21694
Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781
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Bio-isolated dc operational amplifier --- for bioelectric measurements
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[NASA-CASE-XNP-09768] c 09 N71-12516
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[NASA-CASE-XNP-00384] c 09 N71-13530
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[NASA-CASE-XLE-00820] c 14 N71-16014
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[NASA-CASE-XAC-01662] c 14 N71-23037
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Rapid activation and checkout device for batteries
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Readout electrode assembly for measuring biological impedance
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Apparatus for measuring semiconductor device resistance
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[NASA-CASE-XGS-11177] c 09 N71-27001
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[NASA-CASE-ERC-10113] c 09 N71-27053
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[NASA-CASE-MSC-13276-1] c 14 N71-27058
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[NASA-CASE-NPO-11190] c 03 N71-34044
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[NASA-CASE-NPO-11806-1] c 44 N74-19693
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[NASA-CASE-KSC-10242] c 15 N72-23497
RF-source resistance meters
[NASA-CASE-NPO-11291-1] c 14 N73-30388
Apparatus for measuring semiconductor device resistance
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[NASA-CASE-XNP-01328] c 26 N71-18064
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[NASA-CASE-XLA-02758] c 14 N71-18481
Electrically conductive fluorocarbon polymer
[NASA-CASE-XLE-06774-2] c 06 N72-25150
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Durable antistatic coating for polymethylmethacrylate
[NASA-CASE-NPO-13867-1] c 27 N78-14164
Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315
Lightweight electrically-powered flexible thermal laminate --- made of metal and nonconductive yarns
[NASA-CASE-MSC-12662-1] c 33 N79-12331
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[NASA-CASE-GSC-12207-1] c 24 N79-14156
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[NASA-CASE-LAR-12705-1] c 25 N82-26396
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Instrumentation for sensing moisture content of material using a transient thermal pulse
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Thermionic converter with current augmented by self induced magnetic field Patent
[NASA-CASE-XLE-01903] c 22 N71-23599
Improved heat exchanger for electrothermal devices
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[NASA-CASE-NPO-11106] c 14 N70-34697
Electro-optical alignment control system Patent
[NASA-CASE-XMF-00908] c 14 N70-40238
Polarimeter for transient measurement Patent
[NASA-CASE-XNP-08883] c 23 N71-16101
Light direction sensor
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Optical conversion method --- for spacecraft television
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[NASA-CASE-LAR-12178-1] c 74 N80-21138
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[US-PATENT-APPL-SN-406820] c 74 N83-13982
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[NASA-CASE-FRC-10012] c 14 N72-17329
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CDS solid state phase insensitive ultrasonic transducer --- annealing dadmium sulfide crystals
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Phonocardiogram simulator Patent
[NASA-CASE-XKS-10804] c 05 N71-24606
Ratemeter
[NASA-CASE-MFS-20418] c 14 N73-24473
Insulated electrocardiographic electrodes --- without paste electrolyte
[NASA-CASE-MSC-14339-1] c 05 N75-24716
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[NASA-CASE-ARC-11258-1] c 52 N80-33081
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[NASA-CASE-ARC-11117-1] c 52 N81-14612

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[NASA-CASE-HQN-10537-1] c 06 N72-10138
Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-1] c 33 N80-20487
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[NASA-CASE-LEW-13246-1] c 44 N83-27344

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[NASA-CASE-XGS-03865] c 14 N69-21363
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Non-magnetic battery case Patent
[NASA-CASE-XGS-00886] c 03 N71-11053
Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974
Sealed electrochemical cell provided with a flexible casing Patent
[NASA-CASE-XGS-01513] c 03 N71-23336
Electric battery and method for operating same Patent
[NASA-CASE-XGS-01674] c 03 N71-29129
Frangible electrochemical cell
[NASA-CASE-XGS-10010] c 03 N72-15986
Porus electrode comprising a bonded stack of pieces of corrugated metal foil
[NASA-CASE-GSC-11368-1] c 09 N73-32108
Battery testing device --- for testing cells of multiple-cell battery
[NASA-CASE-MFS-20761-1] c 44 N74-27519
Electrical conductivity cell and method for fabricating the same
[NASA-CASE-ARC-10810-1] c 33 N76-19339
Multi-cell battery protection system
[NASA-CASE-LEW-12039-1] c 44 N78-14625
Method and device for the detection of phenol and related compounds --- in an electrochemical cell
[NASA-CASE-LEW-12513-1] c 25 N79-22235
Electrochemical cell for rebalancing REDOX flow system
[NASA-CASE-LEW-13150-1] c 44 N79-26474
Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-1] c 33 N80-20487
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Method for determining the point of zero zeta potential of semiconductor
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Method and device for the detection of phenol and related compounds --- in an electrochemical cell
[NASA-CASE-LEW-12513-1] c 25 N79-22235
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Electrode for biological recording
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Electrochemical detection device --- for use in microbiology
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[NASA-CASE-LEW-12358-1] c 44 N79-17313

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[NASA-CASE-XNP-01959] c 26 N71-23043
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[NASA-CASE-NPO-10440] c 15 N72-21466
Electrophoretic sample insertion --- device for uniformly distributing samples in flow path
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[NASA-CASE-XLE-03778] c 09 N69-21542
Electrode for biological recording
[NASA-CASE-XMS-02872] c 05 N69-21925
Bonding thermoelectric elements to nonmagnetic refractory metal electrodes
[NASA-CASE-XGS-04554] c 15 N69-39786
Ionization vacuum gauge Patent
[NASA-CASE-XNP-00646] c 14 N70-35666
Double optic system for ion engine Patent
[NASA-CASE-XNP-02839] c 28 N70-41922
Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10608
Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618
Biomedical electrode arrangement Patent
[NASA-CASE-XFR-10856] c 05 N71-11189
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[NASA-CASE-ARC-10043-1] c 05 N71-11193
Pressed disc type sensing electrodes with ion-screening means Patent
[NASA-CASE-XMS-04212-1] c 05 N71-12346
Method of making electrical contact on silicon solar cell and resultant product Patent
[NASA-CASE-XLE-04787] c 03 N71-20492
Arc electrode of graphite with ball tip Patent
[NASA-CASE-XLE-04788] c 09 N71-22987
Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
Automatic recording McLeod gauge Patent
[NASA-CASE-XLE-03280] c 14 N71-23093
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[NASA-CASE-FRC-10029] c 09 N71-24618
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Method and apparatus for attaching physiological monitoring electrodes Patent
[NASA-CASE-XFR-07658-1] c 05 N71-26293
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[NASA-CASE-MSC-90153-2] c 05 N72-25120
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[NASA-CASE-MSC-13648] c 05 N72-27103
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[NASA-CASE-ERC-10015-2] c 10 N72-27246
Coaxial high density, hypervelocity plasma generator and accelerator with ionizable metal disc
[NASA-CASE-MFS-20589] c 25 N72-32688
Ion thruster with a combination keeper electrode and electron baffle
[NASA-CASE-NPO-11880] c 28 N73-24783
Wide temperature range electronic device with lead attachment
[NASA-CASE-ERC-10224-2] c 09 N73-27150

Porus electrode comprising a bonded stack of pieces of corrugated metal foil
[NASA-CASE-GSC-11368-1] c 09 N73-32108
High powered arc electrodes --- producing solar simulator radiation
[NASA-CASE-LEW-11162-1] c 33 N74-12913
Method of making porous conductive supports for electrodes --- by electroforming and stacking nickel foils
[NASA-CASE-GSC-11367-1] c 44 N74-19692
Insulated electrocardiographic electrodes --- without paste electrolyte
[NASA-CASE-MSC-14339-1] c 05 N75-24716
Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525
Gels as battery separators for soluable electrode cells
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Snap-in compressible biomedical electrode
[NASA-CASE-MSC-14623-1] c 52 N77-28717
Apparatus for electrolytically tapered or contoured cavities
[NASA-CASE-XNP-08835-1] c 37 N80-14395
Toroidal cell and battery --- storage battery for high amp-hour load applications
[NASA-CASE-LEW-12918-1] c 44 N81-24521
Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524
Method of making formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-2] c 25 N82-21268
Multistage depressed collector for dual mode operation --- for microwave transmitting tubes
[NASA-CASE-LEW-13282-1] c 33 N82-24415
Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645
A spillage detector for liquid chromatography systems
[NASA-CASE-MSC-20206-1] c 25 N83-29325
Thermionic energy converters
[NASA-CASE-LEW-12443-1] c 44 N83-32175
Photoelectrochemical electrodes
[NASA-CASE-NPO-15458-1] c 25 N84-12262
Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] c 33 N84-16456
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Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205
Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565
Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212
Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721

ELECTRODIALYSIS
Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370

ELECTROFORMING
Method of electroforming a rocket chamber
[NASA-CASE-LEW-11118-1] c 20 N74-32919

ELECTROHYDRAULIC FORMING
Electrical discharge apparatus for forming Patent
[NASA-CASE-XMF-00375] c 15 N70-34249

ELECTROHYDRODYNAMICS
Electrohydrodynamic control valve Patent
[NASA-CASE-NPO-10416] c 12 N71-27332

ELECTROKINETICS
Zeta potential flowmeter Patent
[NASA-CASE-XNP-06509] c 14 N71-23226

ELECTROLYSIS
Passively regulated water electrolysis rocket engine Patent
[NASA-CASE-XGS-08729] c 28 N71-14044
Combined electrolysis device and fuel cell and method of operation Patent
[NASA-CASE-XLE-01645] c 03 N71-20904
Polymeric electrolytic hygrometer
[NASA-CASE-NPO-13948-1] c 35 N78-25391

ELECTROLYTES
Apparatus for measuring swelling characteristics of membranes
[NASA-CASE-XGS-03865] c 14 N69-21363
Electrolytically regenerative hydrogen-oxygen fuel cell Patent
[NASA-CASE-XLE-04526] c 03 N71-11052
Sealed electrochemical cell provided with a flexible casing Patent
[NASA-CASE-XGS-01513] c 03 N71-23336
Compressible biomedical electrode
[NASA-CASE-MSC-13648] c 05 N72-27103
Solid electrolyte cell
[NASA-CASE-NPO-15269-1] c 44 N82-29710
Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205
Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212

ELECTROLYTIC CELLS
Method of making emf cell
[NASA-CASE-LEW-11359-2] c 03 N72-20034
Electrolytic gas operated actuator
[NASA-CASE-NPO-11369] c 15 N73-13467
Electrolytic cell structure
[NASA-CASE-LAR-11042-1] c 33 N75-27252
Reconstituted asbestos matrix --- for use in fuel or electrolysis cells
[NASA-CASE-MSC-12568-1] c 24 N76-14204
Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-1] c 33 N80-20487
Cell and method for electrolysis of water and anode
[NASA-CASE-MSC-16394-1] c 28 N81-24280
Toroidal cell and battery --- storage battery for high amp-hour load applications
[NASA-CASE-LEW-12918-1] c 44 N81-24521
Solid electrolyte cell
[NASA-CASE-NPO-15269-1] c 44 N82-29710
Discharge cell for optogalvanic spectroscopy having orthogonal relationship between the probe laser and discharge axis
[NASA-CASE-NPO-16271-1] c 36 N84-15537
State-of-charge coulometer
[NASA-CASE-NPO-15759-1] c 35 N85-21596

ELECTROMAGNETIC ABSORPTION
Multiple pass reimaging optical system
[NASA-CASE-ARC-10194-1] c 23 N73-20741
Method and apparatus for background signal reduction in opto-acoustic absorption measurement
[NASA-CASE-NPO-13683-1] c 35 N77-14411
Electromagnetic radiation energy arrangement --- coatings for solar energy absorption and infrared reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186
Electromagnetic power absorber
[NASA-CASE-NPO-13830-1] c 32 N80-14281

ELECTROMAGNETIC FIELDS
Tumbler system to provide random motion
[NASA-CASE-XGS-02437] c 15 N69-21472
Vacuum evaporator with electromagnetic ion steering Patent
[NASA-CASE-NPO-10331] c 09 N71-26701
Metallic intrusion detector system
[NASA-CASE-ARC-10265-1] c 10 N72-28240
Low power electromagnetic flowmeter providing accurate zero set
[NASA-CASE-ARC-10362-1] c 14 N73-32326
Electromagnetic flow rate meter --- for liquid metals
[NASA-CASE-LEW-10981-1] c 35 N74-21018
Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411

ELECTROMAGNETIC HAMMERS
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114] c 15 N71-17650
Magnetomotive metal working device Patent
[NASA-CASE-XMF-03793] c 15 N71-24833

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Sealed cabinetry Patent
[NASA-CASE-MSC-12168-1] c 09 N71-18600
Method of treating the surface of a glass member
[NASA-CASE-GSC-12110-1] c 27 N77-32308
Method and apparatus for enhancing laser absorption sensitivity
[NASA-CASE-NPO-16567-1-CU] c 36 N86-20777

ELECTROMAGNETIC MEASUREMENT
Method and apparatus for determining electromagnetic characteristics of large surface area passive reflectors Patent
[NASA-CASE-XGS-02608] c 07 N70-41678
Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411
Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779

ELECTROMAGNETIC NOISE
Parametric amplifiers with idler circuit feedback
[NASA-CASE-LAR-10253-1] c 09 N72-25258
Audio system with means for reducing noise effects
[NASA-CASE-NPO-11631] c 10 N73-12244
Filtering device --- removing electromagnetic noise from voice communication signals
[NASA-CASE-MFS-22729-1] c 32 N76-21366
Submillimeter wave Schottky barrier diode with low series resistance and low noise
[NASA-CASE-NPO-15935-1] c 33 N83-12334

ELECTROMAGNETIC PROPULSION
Hypervelocity gun --- using both electric and chemical energy for projectile propulsion
[NASA-CASE-XLE-03186-1] c 09 N79-21084

ELECTROMAGNETIC PULSES
Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037

ELECTROMAGNETIC PUMPS
Multiducted electromagnetic pump Patent
[NASA-CASE-NPO-10755] c 15 N71-27084

ELECTROMAGNETIC RADIATION
Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00893] c 07 N70-40063
Circulator having quarter wavelength resonant post and parametric amplifier circuits utilizing the same Patent
[NASA-CASE-XNP-02140] c 09 N71-23097
Electromagnetic polarization systems and methods Patent
[NASA-CASE-GSC-10021-1] c 09 N71-24595
Antenna design for surface wave suppression Patent
[NASA-CASE-XLA-10772] c 07 N71-28980
Multiple reflection conical microwave antenna
[NASA-CASE-NPO-11661] c 07 N73-14130
Method and apparatus for measuring electromagnetic radiation
[NASA-CASE-LEW-11159-1] c 14 N73-28488
Hyperthermia heating apparatus --- cancer therapy
[NASA-CASE-NPO-14549-2] c 52 N82-33996

ELECTROMAGNETIC SHIELDING
Method of making shielded flat cable Patent
[NASA-CASE-MFS-13687] c 09 N71-28691
Wire stripper
[NASA-CASE-FRC-10111-1] c 37 N79-10419
Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c 33 N81-27397

ELECTROMAGNETIC WAVE FILTERS
Laser camera and diffusion filter therefore Patent
[NASA-CASE-NPO-10417] c 16 N71-33410

ELECTROMAGNETIC WAVE TRANSMISSION
Method and apparatus for determining electromagnetic characteristics of large surface area passive reflectors Patent
[NASA-CASE-XGS-02608] c 07 N70-41678
Gyrotron transmitting tube
[NASA-CASE-LEW-13429-1] c 33 N83-31952

ELECTROMAGNETISM
Detenting servomotor Patent
[NASA-CASE-XNP-06936] c 15 N71-24695
Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067
Linear magnetic bearings
[NASA-CASE-GSC-12582-2] c 37 N85-20337

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Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27461
Solenoid construction Patent
[NASA-CASE-XNP-01951] c 09 N70-41929
Position sensing device employing misaligned magnetic field generating and detecting apparatus Patent
[NASA-CASE-XGS-07514] c 23 N71-16099
Safe-arm initiator Patent
[NASA-CASE-LAR-10372] c 09 N71-18599
Magnetic bearing --- for supplying magnetic fluxes
[NASA-CASE-GSC-11079-1] c 37 N75-18574
Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 15 N85-11122

ELECTROMECHANICAL DEVICES
Electromechanical actuator
[NASA-CASE-XNP-05975] c 15 N69-23185
Bimetallic power controlled actuator
[NASA-CASE-XNP-09776] c 09 N69-39929
Apparatus for coupling a plurality of ungrounded circuits to a grounded circuit Patent
[NASA-CASE-XAC-00086] c 09 N70-33182
Apparatus for controlling the velocity of an electromechanical drive for interferometers and the like Patent
[NASA-CASE-XGS-03532] c 14 N71-17627
Mechanical actuator Patent
[NASA-CASE-XGS-04548] c 15 N71-24045
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[NASA-CASE-ERC-10088] c 26 N71-25490
Electromechanical control actuator system Patent
[NASA-CASE-ERC-10022] c 15 N71-26635
Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-10503-1] c 09 N72-21248
Ferrofluidic solenoid
[NASA-CASE-NPO-11738-1] c 09 N73-30185
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-11389-1] c 33 N77-26387
Rotary electric device
[NASA-CASE-GSC-12138-1] c 33 N79-20314
Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423
Coal-shale interface detector
[NASA-CASE-MFS-23720-1] c 43 N80-23711

Magnetic field control --- electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569
Piezoelectric composite materials
[NASA-CASE-LEW-12582-1] c 76 N83-34796
Two-dimensional scanner apparatus --- flaw detector in small flat plates
[NASA-CASE-MFS-25687-1] c 35 N84-22928
Electro-expulsive separation system
[NASA-CASE-ARC-11613-1] c 33 N85-29150
Memory metal actuator
[NASA-CASE-NPO-15960-1] c 37 N86-19604

ELECTROMETERS
Vibrating element electrometer with output signal magnified over input signal by a function of the mechanical Q of the vibrating element Patent
[NASA-CASE-XAC-02807] c 09 N71-23021
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659

ELECTROMIGRATION
Electromigration process for the purification of molten silicon during crystal growth
[NASA-CASE-NPO-14831-1] c 76 N82-30105

ELECTROMOTIVE FORCES
Heat activated cell Patent
[NASA-CASE-LEW-11359] c 03 N71-28579
Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661

ELECTRON ATTACHMENT
High resolution threshold photoelectron spectroscopy by electron attachment
[NASA-CASE-NPO-14078-1] c 72 N80-14877

ELECTRON BEAM WELDING
Split welding chamber Patent
[NASA-CASE-LEW-11531] c 15 N71-14932
Device for preventing high voltage arcing in electron beam welding Patent
[NASA-CASE-XMF-08522] c 15 N71-19486

ELECTRON BEAMS
Electronic beam switching commutator Patent
[NASA-CASE-XGS-01451] c 09 N71-10677
Method and means for an improved electron beam scanning system Patent
[NASA-CASE-ERC-10552] c 09 N71-12539
Electron beam instrument for measuring electric fields Patent
[NASA-CASE-XMF-10289] c 14 N71-23699
Apparatus for determining the deflection of an electron beam impinging on a target Patent
[NASA-CASE-XMF-06617] c 09 N71-24843
Infrared detectors
[NASA-CASE-LAR-10728-1] c 14 N73-12445
Electron beam controller --- using magnetic field to refocus spent electron beam in microwave oscillator tube
[NASA-CASE-LEW-11617-1] c 33 N74-10195
Image tube --- deriving electron beam replica of image
[NASA-CASE-GSC-11602-1] c 33 N74-21850
Very high intensity light source using a cathode ray tube --- electron beams
[NASA-CASE-XNP-01296] c 33 N75-27250
Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N80-19425
Low energy electron magnetometer using a monoenergetic electron beam
[NASA-CASE-LAR-12706-1] c 35 N84-12444

ELECTRON BOMBARDMENT
Ion thrustor cathode
[NASA-CASE-XLE-07087] c 06 N69-39889
Device for measuring electron-beam intensities and for subjecting materials to electron irradiation in an electron microscope
[NASA-CASE-XGS-01725] c 14 N69-39982
Electron bombardment ion engine Patent
[NASA-CASE-XNP-04124] c 28 N71-21822
Electronic cathode having a brush-like structure and a relatively thick oxide emissive coating Patent
[NASA-CASE-XLE-04501] c 09 N71-23190
Single grid accelerator for an ion thrustor
[NASA-CASE-XLE-10453-2] c 28 N73-27699
Containerless high temperature calorimeter apparatus
[NASA-CASE-MFS-23923-1] c 35 N81-19426
Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170
Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695
Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565

ELECTRON CAPTURE
Multistage depressed collector for dual mode operation --- for microwave transmitting tubes
[NASA-CASE-LEW-13282-1] c 33 N82-24415

ELECTRON DISTRIBUTION
Measurement of plasma temperature and density using radiation absorption
[NASA-CASE-ARC-10598-1] c 75 N74-30156

ELECTRON EMISSION
Triode thermionic energy converter
[NASA-CASE-XLE-01015] c 03 N69-39898
Textured carbon surfaces on copper
[NASA-CASE-LEW-14130-1] c 31 N85-20156

ELECTRON ENERGY
Low energy electron magnetometer using a monoenergetic electron beam
[NASA-CASE-LAR-12706-1] c 35 N84-12444

ELECTRON FLUX DENSITY
Device for measuring electron-beam intensities and for subjecting materials to electron irradiation in an electron microscope
[NASA-CASE-XGS-01725] c 14 N69-39982

ELECTRON GUNS
Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083
Generation of intense negative ion beams
[NASA-CASE-NPO-16061-1-CU] c 72 N85-29701

ELECTRON IRRADIATION
Ion rocket Patent
[NASA-CASE-XLE-00376] c 28 N70-37245

ELECTRON MICROSCOPES
Device for measuring electron-beam intensities and for subjecting materials to electron irradiation in an electron microscope
[NASA-CASE-XGS-01725] c 14 N69-39982
Method of forming aperture plate for electron microscope
[NASA-CASE-ARC-10448-2] c 74 N75-12732
Electron microscope aperture system
[NASA-CASE-ARC-10448-3] c 35 N77-14408

ELECTRON MICROSCOPY
Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996

ELECTRON OSCILLATIONS
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N86-20679

ELECTRON PHOTON CASCADES
Resistive anode image converter
[NASA-CASE-HQN-10876-1] c 33 N76-27473

ELECTRON PLASMA
Method and apparatus for producing a plasma Patent
[NASA-CASE-XLA-00147] c 25 N70-34661

ELECTRON SOURCES
Electron microscope aperture system
[NASA-CASE-ARC-10448-3] c 35 N77-14408

ELECTRON TRANSFER
Process for reducing secondary electron emission Patent
[NASA-CASE-XNP-09469] c 24 N71-25555

ELECTRON TRANSITIONS
Diatomic infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426

ELECTRON TUBES
Direct radiation cooling of the collector of linear beam tubes
[NASA-CASE-XNP-09227] c 15 N69-24319
Radiant heater having formed filaments Patent
[NASA-CASE-XLE-00387] c 33 N70-34812
Ion sputter textured graphite --- anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117
Gyrotron transmitting tube
[NASA-CASE-LEW-13429-1] c 33 N83-31952

ELECTRON TUNNELING
Doped Josephson tunneling junction for use in a sensitive IR detector
[NASA-CASE-NPO-13348-1] c 33 N75-31332
Inelastic tunnel diodes
[NASA-CASE-LEW-13833-1] c 33 N85-21492

ELECTRONIC CONTROL
Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460
Electronic motor control system Patent
[NASA-CASE-XMF-01129] c 09 N70-38712
Phase multiplying electronic scanning system Patent
[NASA-CASE-NPO-10302] c 10 N71-26142
Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173
Peak acceleration limiter for vibrational tester Patent
[NASA-CASE-NPO-10556] c 14 N71-27185
Digital control and information system
[NASA-CASE-NPO-11016] c 08 N72-31226
Electronic system for high power load control --- solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126
Closed loop electrostatic levitation system
[NASA-CASE-NPO-15553-1] c 33 N85-29142

ELECTRONIC EQUIPMENT
Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460
Pulse activated polarographic hydrogen detector Patent
[NASA-CASE-XMF-06531] c 14 N71-17575
Stable amplifier having a stable quiescent point Patent
[NASA-CASE-XGS-02812] c 09 N71-19466
Static inverter Patent
[NASA-CASE-XGS-05289] c 09 N71-19470
Circulator having quarter wavelength resonant post and parametric amplifier circuits utilizing the same Patent
[NASA-CASE-XNP-02140] c 09 N71-23097
Optimum predetection diversity receiving system Patent
[NASA-CASE-XGS-00740] c 07 N71-23098
Electronic cathode having a brush-like structure and a relatively thick oxide emissive coating Patent
[NASA-CASE-XLE-04501] c 09 N71-23190
Method and apparatus for varying thermal conductivity Patent
[NASA-CASE-XNP-05524] c 33 N71-24876
A solid state acoustic variable time delay line Patent
[NASA-CASE-ERC-10032] c 10 N71-25900
Automatic signal range selector for metering devices Patent
[NASA-CASE-XMS-06497] c 14 N71-26244
Fringe counter for interferometers Patent
[NASA-CASE-LAR-10204] c 14 N71-27215
Temperature regulation circuit Patent
[NASA-CASE-XNP-02792] c 14 N71-28958
Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171
Universal environment package with sectional component housing
[NASA-CASE-KSC-10031] c 15 N72-22486
Lead attachment to high temperature devices
[NASA-CASE-ERC-10224] c 09 N72-25261
Method and apparatus for detecting surface ions on silicon diodes and transistors
[NASA-CASE-ERC-10325] c 15 N72-25457
Versatile arithmetic unit for high speed sequential decoder
[NASA-CASE-NPO-11371] c 08 N73-12177
Data processor with conditionally supplied clock signals
[NASA-CASE-GSC-10975-1] c 08 N73-13187
Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-1] c 14 N73-14428
Phase control circuits using frequency multiplications for phased array antennas
[NASA-CASE-ERC-10285] c 10 N73-16206
Junction range finder
[NASA-CASE-KSC-10108] c 14 N73-25461
Electronic strain-level counter
[NASA-CASE-LAR-10756-1] c 32 N73-26910
Automatic vehicle location system
[NASA-CASE-NPO-11850-1] c 32 N74-12912
Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
Electronic analog divider
[NASA-CASE-LEW-11881-1] c 33 N77-17354
Moisture content and gas sampling device
[NASA-CASE-MSC-18866-1] c 35 N85-29213

ELECTRONIC EQUIPMENT TESTS
Analog to digital converter tester Patent
[NASA-CASE-XLA-06713] c 14 N71-28991
Signal conditioner test set
[NASA-CASE-KSC-10750-1] c 35 N75-12270
Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359
Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996

ELECTRONIC FILTERS
Self-tuning bandpass filter
[NASA-CASE-ARC-10264-1] c 09 N73-20231
Capacitance multiplier and filter synthesizing network
[NASA-CASE-NPO-11948-1] c 33 N74-32712
Notch filter
[NASA-CASE-MFS-23303-1] c 32 N77-18307

ELECTRONIC MODULES
Thermal conductive connection and method of making same Patent
[NASA-CASE-XMS-02087] c 09 N70-41717
Solar cell submodule Patent
[NASA-CASE-XNP-05821] c 03 N71-11056
Heat conductive resiliently compressible structure for space electronics package modules Patent
[NASA-CASE-MSC-12389] c 33 N71-29052
Tool for use in lifting pin supported objects
[NASA-CASE-NPO-13157-1] c 37 N74-32918
Phase substitution of spare converter for a failed one of parallel phase staggered converters
[NASA-CASE-NPO-13812-1] c 33 N77-30365

Method of making encapsulated solar cell modules
[NASA-CASE-LEW-12185-1] c 44 N78-25528
Electronically scanned pressure sensor module with in SITU calibration capability
[NASA-CASE-LAR-12230-1] c 35 N79-14347
Module failure isolation circuit for paralleled inverters --- preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254
Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257
Method and apparatus for fabricating improved solar cell modules
[NASA-CASE-NPO-14416-1] c 44 N81-14389
Redundant operation of counter modules
[NASA-CASE-NPO-14162-1] c 60 N81-15706

ELECTRONIC PACKAGING
Electrical feed-through connection for printed circuit boards and printed cable
[NASA-CASE-XMF-01483] c 14 N69-27431
Capacitor and method of making same Patent
[NASA-CASE-LEW-10364-1] c 09 N71-13522
Method of evaluating moisture barrier properties of encapsulating materials Patent
[NASA-CASE-NPO-10051] c 18 N71-24934
Microelectronic module package Patent
[NASA-CASE-XMS-02182] c 10 N71-28783
Frangible electrochemical cell
[NASA-CASE-XGS-10010] c 03 N72-15986
Hermetically sealed semiconductor
[NASA-CASE-GSC-10791-1] c 15 N73-14469
Circuit board package with wedge shaped covers
[NASA-CASE-MFS-21919-1] c 10 N73-25243
Integrated circuit package with lead structure and method of preparing the same
[NASA-CASE-MFS-21374-1] c 33 N74-12951
Tool for use in lifting pin supported objects
[NASA-CASE-NPO-13157-1] c 37 N74-32918
Chassis unit insert tightening-extract device
[NASA-CASE-XMS-01077-1] c 37 N79-33467
Computer circuit card puller
[NASA-CASE-FRC-11042-1] c 60 N82-24839
Hermetically sealable package for hybrid solid-state electronic devices and the like
[NASA-CASE-MSC-20181-1] c 33 N82-28549
Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] c 35 N84-22934

ELECTRONIC RECORDING SYSTEMS
Propellent mass distribution metering apparatus Patent
[NASA-CASE-NPO-10185] c 10 N71-26339

ELECTRONIC TRANSDUCERS
Fiber optic vibration transducer and analyzer Patent
[NASA-CASE-XMF-02433] c 14 N71-10616
Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597
Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366
Electromagnetic transducer recording head having a laminated core section and tapered gap
[NASA-CASE-NPO-10711-1] c 35 N77-21392
Distributed-switch Dicke radiometers
[NASA-CASE-GSC-12219-1] c 35 N80-18359
Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] c 35 N84-22934

ELECTRONS
Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] c 35 N84-33767

ELECTROPHORESIS
Electrophoretic sample insertion --- device for uniformly distributing samples in flow path
[NASA-CASE-MFS-21395-1] c 25 N74-26948
Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-MFS-21394-1] c 34 N74-27744
Automatic multiple-sample applicator and electrophoresis apparatus
[NASA-CASE-ARC-10991-1] c 25 N78-14104
Portable electrophoresis apparatus using minimum electrolyte
[NASA-CASE-NPO-13274-1] c 25 N79-10163
Microelectrophoretic apparatus and process
[NASA-CASE-ARC-11121-1] c 25 N79-14169
Electrophoretic fractional elution apparatus employing a rotational seal fraction collector
[NASA-CASE-MFS-23284-1] c 37 N80-14397
Method for separating biological cells --- suspended in aqueous polymer systems
[NASA-CASE-MFS-23883-1] c 51 N80-16715
Electrophoresis device
[NASA-CASE-MFS-25426-1] c 25 N83-10126
Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187

ELECTROPHOTOMETERS
Method and device for detecting voids in low density material Patent
[NASA-CASE-MFS-20044] c 14 N71-28993

ELECTROPHYSIOLOGY
Flexible conductive disc electrode Patent
[NASA-CASE-FRC-10029] c 09 N71-24618

ELECTROPLATING
Method of plating copper on aluminum Patent
[NASA-CASE-XLA-08966-1] c 17 N71-25903
Method of making shielded flat cable Patent
[NASA-CASE-MFS-13687] c 09 N71-28691
Method and apparatus for sputtering utilizing an apertured electrode and a pulsed substrate bias
[NASA-CASE-LEW-10920-1] c 17 N73-24569
Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524
Method of forming oxide coatings --- for solar collector heating panels
[NASA-CASE-LEW-13132-1] c 27 N83-29388

ELECTROSTATIC CHARGE
Electrostatic charged particle analyzer having deflection members shaped according to the periodic voltage applied thereto Patent
[NASA-CASE-XAC-05506-1] c 24 N71-16095
Electrostatic measurement system --- for contact-electrifying a dielectric
[NASA-CASE-MFS-22129-1] c 33 N75-18477
Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401

ELECTROSTATIC ENGINES
Colloid propulsion method and apparatus Patent
[NASA-CASE-XLE-00817] c 28 N70-33265
Ion thruster cathode Patent Application
[NASA-CASE-LEW-10814-1] c 28 N70-35422
Ion rocket Patent
[NASA-CASE-XLE-00376] c 28 N70-37245
Electrostatic ion rocket engine Patent
[NASA-CASE-XLE-02066] c 28 N71-15661
Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N85-20248

ELECTROSTATIC GENERATORS
Electrostatic plasma modulator for space vehicle re-entry communication Patent
[NASA-CASE-XLA-01400] c 07 N70-41331
Closed loop electrostatic levitation system
[NASA-CASE-NPO-15553-1] c 33 N85-29142

ELECTROSTATIC PRECIPITATORS
Fine particulate capture device
[NASA-CASE-LEW-11583-1] c 35 N79-17192
Small conductive particle sensor --- microfiber size determination
[NASA-CASE-LAR-12552-1] c 35 N82-11431

ELECTROSTATIC PROBES
Apparatus for field strength measurement of a space vehicle Patent
[NASA-CASE-XLE-00820] c 14 N71-16014
Liquid-immersible electrostatic ultrasonic transducer
[NASA-CASE-LAR-12465-1] c 33 N82-26572

ELECTROSTATIC PROPULSION
Electrostatic thrustor with improved insulators Patent
[NASA-CASE-XLE-01902] c 28 N71-10574
Annular slit colloid thrustor Patent
[NASA-CASE-GSC-10709-1] c 28 N71-25213

ELECTROSTATIC SHIELDING
Ion beam thruster shield
[NASA-CASE-LEW-12082-1] c 20 N77-10148
Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c 33 N81-27397
High voltage isolation transformer
[NASA-CASE-GSC-12817-1] c 33 N85-29146

ELECTROSTATICS
Controllable high voltage source having fast settling time
[NASA-CASE-GSC-11844-1] c 33 N75-19522

ELECTROTHERMAL ENGINES
Electro-thermal rocket Patent
[NASA-CASE-XLE-00267] c 28 N70-33356
Electrothermal rockets having improved heat exchangers Patent
[NASA-CASE-XLE-01783] c 28 N70-34175
Improved heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] c 20 N84-32425

ELEVATION
Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627
Emergency escape system Patent
[NASA-CASE-XKS-07814] c 15 N71-27067
Elevated waterproof access floor system and method of making the same
[NASA-CASE-ARC-11363-1] c 31 N83-28281

ELEVATORS (LIFTS)
Centrifuge mounted motion simulator Patent
[NASA-CASE-XAC-00399] c 11 N70-34815
Cable stabilizer for open shaft cable operated elevators
[NASA-CASE-KSC-10513] c 15 N72-25453

ELEVONS
High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088

ELLIPSES
Ellipsograph for pantograph Patent
[NASA-CASE-XLA-03102] c 14 N71-21079

ELLIPSOMETERS
Remote sensing of vegetation and soil using microwave ellipsometry
[NASA-CASE-GSC-11976-1] c 43 N78-10529

ELONGATION
Strain gauge measuring techniques Patent
[NASA-CASE-XGS-04478] c 14 N71-24233
Amplifying ribbon extensometer
[NASA-CASE-LAR-11825-1] c 35 N77-22449

ELUTION
Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844
Electrophoretic fractional elution apparatus employing a rotational seal fraction collector
[NASA-CASE-MFS-23284-1] c 37 N80-14397

EMERGENCIES
Silent emergency alarm system for schools and the like
[NASA-CASE-NPO-11307-1] c 10 N73-30205
Emergency space-suit helmet
[NASA-CASE-MSC-10954-1] c 54 N78-18761

EMERGENCY BREATHING TECHNIQUES
Resuscitation apparatus Patent
[NASA-CASE-XMS-01115] c 05 N70-39922

EMERGENCY LIFE SUSTAINING SYSTEMS
Orbital escape device Patent
[NASA-CASE-XMS-06162] c 31 N71-28851
Emergency lunar communications system
[NASA-CASE-MFS-21042] c 07 N72-25171
Emergency descent device
[NASA-CASE-MFS-23074-1] c 54 N77-21844
Personnel emergency carrier vehicle
[NASA-CASE-KSC-11282-1] c 85 N86-22452

EMERGENCY LOCATOR TRANSMITTERS
Improved legislated emergency locating transmitters and emergency position indicating radio beacons
[NASA-CASE-GSC-12892-1] c 32 N85-20226

EMISSION SPECTRA
Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871

EMITTANCE
Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875

EMITTERS
Coaxial inverted geometry transistor having buried emitter
[NASA-CASE-ARC-10330-1] c 09 N73-32112

EMULSIONS
Apparatus for obtaining isotropic irradiation of a specimen
[NASA-CASE-MFS-20095] c 24 N72-11595

ENAMELS
Refractory porcelain enamel passive control coating for high temperature alloys
[NASA-CASE-MFS-22324-1] c 27 N75-27160

ENCAPSULATING
Bacteriostatic conformal coating and methods of application Patent
[NASA-CASE-GSC-10007] c 18 N71-16046
Flexible, repairable, pottable material for electrical connectors Patent
[NASA-CASE-XGS-05180] c 18 N71-25881
Orifice gross leak tester Patent
[NASA-CASE-ERC-10150] c 14 N71-28992
Solar cell matrix
[NASA-CASE-NPO-11190] c 03 N71-34044
Method of making encapsulated solar cell modules
[NASA-CASE-LEW-12185-1] c 44 N78-25528

ENCLOSURES
Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436
Totally confined explosive welding
[NASA-CASE-LAR-10941-2] c 37 N79-13364
Moisture content and gas sampling device
[NASA-CASE-MSC-18866-1] c 35 N85-29213

END EFFECTORS
Apparatus for adapting an end effector device remotely controlled manipulator arm
[NASA-CASE-MFS-25949-1] c 37 N86-19603
Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] c 37 N86-20789

ENDOSCOPES
Borescope with variable angle scope
[NASA-CASE-MFS-15162] c 14 N72-32452
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[NASA-CASE-NPO-14670-1] c 44 N81-19558
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[NASA-CASE-NPO-16392-1] c 44 N84-32912
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Passive synchronized spike generator with high input impedance and low output impedance and capacitor power supply Patent
[NASA-CASE-XGS-03632] c 09 N71-23311
Controllable high voltage source having fast settling time
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[NASA-CASE-XGS-00473] c 03 N70-38713
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[NASA-CASE-ARC-10916-1] c 52 N78-10686
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[NASA-CASE-ARC-10456-1] c 05 N75-12930
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[NASA-CASE-NPO-14220-1] c 37 N81-14318
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[NASA-CASE-LEW-12907-2] c 07 N81-19115
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[NASA-CASE-LEW-14586-1] c 07 N83-31603
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[NASA-CASE-NPO-16420-1] c 33 N86-20681
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[NASA-CASE-NPO-14221-1] c 37 N81-25370
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[NASA-CASE-XNP-02592] c 24 N71-20518
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[NASA-CASE-LAR-13280-1] c 08 N86-20397
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Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
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[NASA-CASE-ARC-10761-1] c 07 N77-18154
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[NASA-CASE-LEW-11890-1] c 05 N79-24976
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Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055
Multiple pure tone elimination strut assembly — air breathing engines
[NASA-CASE-FRC-11062-1] c 71 N82-16800
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[NASA-CASE-LEW-12390-1] c 07 N78-17056
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[NASA-CASE-XLA-01090] c 07 N71-12389
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[NASA-CASE-XLE-00266] c 14 N70-34156

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[NASA-CASE-LAR-12709-1] c 35 N82-28604

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[NASA-CASE-ARC-10153] c 05 N71-28619

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[NASA-CASE-XMS-09632-1] c 05 N71-11203
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[NASA-CASE-XLA-07728] c 33 N71-22890
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[NASA-CASE-GSC-10188-1] c 23 N71-24725
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[NASA-CASE-LAR-10106-1] c 15 N71-27169
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[NASA-CASE-KSC-10198] c 11 N71-28629
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[NASA-CASE-LAR-10076-1] c 05 N73-20137
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[NASA-CASE-MSC-13587-1] c 15 N73-30459
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[NASA-CASE-LEW-11101-1] c 31 N73-32750

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[NASA-CASE-KSC-10126] c 11 N71-24985
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[NASA-CASE-XGS-05533] c 04 N69-27487
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[NASA-CASE-NPO-15904-1] c 76 N83-21993
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[NASA-CASE-NPO-15786-1] c 76 N84-35112
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[NASA-CASE-NPO-16394-1] c 76 N85-20906

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[NASA-CASE-MFS-13994-1] c 06 N71-11240
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[NASA-CASE-MFS-13994-2] c 06 N72-25148
Fire protection covering for small diameter missiles
[NASA-CASE-ARC-11104-1] c 15 N79-26100
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[NASA-CASE-NPO-15202-1] c 27 N83-34043

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[NASA-CASE-XGS-00886] c 03 N71-11053
Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974
Hydroforming techniques using epoxy molds Patent
[NASA-CASE-XLE-05641-1] c 15 N71-26346
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[NASA-CASE-ERC-10087] c 14 N71-27334
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[NASA-CASE-NPO-10701] c 06 N71-28620
Method of repairing discontinuity in fiberglass structures
[NASA-CASE-LAR-10416-1] c 24 N74-30001
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[NASA-CASE-ARC-10813-1] c 27 N76-16230
Curing agent for polyepoxides and epoxy resins and composites cured therewith --- preventing carbon fiber release
[NASA-CASE-LEW-13226-1] c 27 N81-17260
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[NASA-CASE-GSC-12686-1] c 27 N83-34039
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[NASA-CASE-ARC-11418-1] c 24 N84-11213
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[NASA-CASE-LAR-13230-1] c 24 N84-34571
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[NASA-CASE-ARC-11424-1] c 27 N85-34281
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[NASA-CASE-LAR-13226-1] c 27 N85-34282
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[NASA-CASE-ARC-11427-1] c 24 N86-19380
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[NASA-CASE-ARC-11548-1] c 27 N86-21686

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[NASA-CASE-MSC-18929-1] c 39 N83-20280

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[NASA-CASE-ARC-10441-1] c 35 N74-15126
Apparatus for supplying conditioned air at a substantially constant temperature and humidity
[NASA-CASE-GSC-12191-1] c 31 N80-32583
Airborne tracking Sun photometer apparatus and system
[NASA-CASE-ARC-11622-1] c 44 N86-21982

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[NASA-CASE-XAC-00042] c 14 N70-34816
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[NASA-CASE-XAC-00074] c 15 N70-34817
Optical torquemeter Patent
[NASA-CASE-XLE-00503] c 14 N70-34818
Magnetically centered liquid column float Patent
[NASA-CASE-XAC-00030] c 14 N70-34820
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[NASA-CASE-XLE-00252] c 11 N70-34844
Channel-type shell construction for rocket engines and the like Patent
[NASA-CASE-XLE-00144] c 28 N70-34860
Non-reusable kinetic energy absorber Patent
[NASA-CASE-XLE-00810] c 15 N70-34861
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[NASA-CASE-XNP-00476] c 15 N70-38620
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[NASA-CASE-XLA-01090] c 07 N71-12389
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[NASA-CASE-XMF-06589] c 05 N71-23159
Rocket thrust throttling system
[NASA-CASE-LEW-10374-1] c 28 N73-13773
Process for making diamonds
[NASA-CASE-MFS-20698-2] c 15 N73-19457
Anti-buckling fatigue test assembly --- for subjecting metal specimen to tensile and compressive loads at constant temperature
[NASA-CASE-LAR-10426-1] c 09 N74-19528
Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-MFS-21394-1] c 34 N74-27744
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[NASA-CASE-LEW-11072-2] c 35 N76-15434
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[NASA-CASE-MFS-23312-1] c 33 N78-27326
Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072

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[NASA-CASE-LAR-10007-1] c 05 N71-11195
Instrument for measuring potentials on two dimensional electric field plots Patent
[NASA-CASE-XLA-08493] c 10 N71-19421

ERGOMETERS
Restraint system for ergometer
[NASA-CASE-MFS-21046-1] c 14 N73-27377
Ergometer
[NASA-CASE-MFS-21109-1] c 05 N73-27941
Tilting table for ergometer and for other biomedical devices
[NASA-CASE-MFS-21010-1] c 05 N73-30078
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[NASA-CASE-MSC-11561-1] c 05 N73-32014
Ergometer calibrator --- for any ergometer utilizing rotating shaft
[NASA-CASE-MFS-21045-1] c 35 N75-15932

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[NASA-CASE-LAR-11902-1] c 27 N78-17206

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[NASA-CASE-NPO-13086-1] c 15 N73-12495
Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c 32 N79-10263

ERROR CORRECTING CODES
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[NASA-CASE-LAR-12654-1] c 33 N83-36357
Self-correcting electronically scanned pressure sensor
[NASA-CASE-LAR-12686-1] c 35 N84-14491
Processing circuit with asymmetry corrector and convolutional encoder for digital data
[NASA-CASE-MSC-20187-1] c 33 N85-20249
Reed-Solomon decoder --- applicable to Galileo Project requirements
[NASA-CASE-NPO-15982-1] c 60 N85-20680

ERROR CORRECTING DEVICES
Automatic fault correction system for parallel signal channels Patent
[NASA-CASE-XNP-03263] c 09 N71-18843
Elimination of frequency shift in a multiplex communication system Patent
[NASA-CASE-XNP-01306] c 07 N71-20814
Error correcting method and apparatus Patent
[NASA-CASE-XNP-02748] c 08 N71-22749
Failure detection and control means for improved drift performance of a gimballed platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175
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[NASA-CASE-MFS-15218-1] c 37 N77-19457

ERROR DETECTION CODES
Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633

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Automatic fault correction system for parallel signal channels Patent
[NASA-CASE-XNP-03263] c 09 N71-18843
Sampled data controller Patent
[NASA-CASE-GSC-10554-1] c 08 N71-29033
Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c 32 N79-10263
Apparatus and method for tracking the fundamental frequency of an analog input signal
[NASA-CASE-ARC-11367-1] c 33 N83-21238
Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190
Comparator with noise suppression
[NASA-CASE-LAR-13151-1] c 33 N85-20247
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[NASA-CASE-MFS-25807-2] c 37 N86-21850

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Analog-to-digital converter
[NASA-CASE-MSC-13110-1] c 08 N72-22163

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Aerial capsule emergency separation device Patent
[NASA-CASE-XLA-00115] c 03 N70-33343
Emergency escape system Patent
[NASA-CASE-XKS-02342] c 05 N71-11199
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[NASA-CASE-MSC-13281] c 31 N72-18859

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[NASA-CASE-MSC-12086-1] c 05 N71-12345
Emergency escape system Patent
[NASA-CASE-XKS-07814] c 15 N71-27067
Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992

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[NASA-CASE-ARC-11322-1] c 51 N83-28849

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[NASA-CASE-MFS-21040-1] c 06 N73-30098

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[NASA-CASE-XNP-02092] c 15 N70-42033
Method for etching copper Patent
[NASA-CASE-XGS-06306] c 17 N71-16044
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[NASA-CASE-XGS-04993] c 14 N71-17574
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[NASA-CASE-XMF-02303] c 17 N71-23828
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[NASA-CASE-XGS-03120] c 15 N71-24047
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[NASA-CASE-XNP-04148] c 17 N71-24830
Scanning nozzle plating system --- for etching or plating metals on substrates without masking
[NASA-CASE-NPO-11758-1] c 31 N74-23065
Method for applying photographic resists to otherwise incompatible substrates
[NASA-CASE-MSC-18107-1] c 27 N81-25209
Method of making V-MOS field effect transistors utilizing a two-step anisotropic etching and ion implantation
[NASA-CASE-GSC-12515-1] c 33 N81-26360
Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441
Controlled in situ etch-back
[NASA-CASE-NPO-15625-1] c 76 N83-20789
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
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The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312

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[NASA-CASE-XMF-02584] c 06 N71-20905
Hydroxy terminated perfluoro ethers Patent
[NASA-CASE-NPO-10768] c 06 N71-27254
Polyurethane resins from hydroxy terminated perfluoro ethers
[NASA-CASE-NPO-10768-2] c 06 N72-27144
Process of treating cellulosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641
Separator for alkaline electric cells and method of making
[NASA-CASE-GSC-10017-1] c 44 N82-24643
Perfluoro (Imidoylamidine) diamidines
[NASA-CASE-ARC-11402-3] c 23 N86-21582

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Precision heat forming of tetrafluoroethylene tubing
[NASA-CASE-MSC-18430-1] c 37 N82-24491
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[NASA-CASE-XNP-01749] c 27 N70-41897
Processing for producing a sterilized instrument Patent
[NASA-CASE-XNP-09763] c 14 N71-20461
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[NASA-CASE-KSC-11085-1] c 54 N81-24724

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Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992
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[NASA-CASE-MFS-22926-1] c 24 N77-27187
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[NASA-CASE-LEW-12906-1] c 26 N77-32279
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[NASA-CASE-LEW-12905-1] c 26 N78-18183
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[NASA-CASE-GSC-11577-3] c 24 N79-25143

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[NASA-CASE-XMS-01108] c 15 N69-24322
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[NASA-CASE-XMF-03290] c 15 N71-23256
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[NASA-CASE-ERC-10034] c 15 N71-24896
Evacuated, displacement compression mold --- of tubular bodies from thermosetting plastics
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Evaporant holder
[NASA-CASE-XLA-03105] c 15 N69-27483

EVAPORATIVE COOLING
Tubular sublimatory evaporator heat sink
[NASA-CASE-ARC-10912-1] c 34 N77-19353

EVAPORATORS
Evaporant source for vapor deposition Patent
[NASA-CASE-XMF-06065] c 15 N71-20395
Deposition apparatus
[NASA-CASE-LAR-10541-1] c 15 N72-32487
Thermal control system --- removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14461
Multi-leg heat pipe evaporator
[NASA-CASE-MSC-20812-1] c 34 N84-32748

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Apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction
[NASA-CASE-MFS-23315-1] c 76 N78-24950
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[NASA-CASE-NPO-16299-1] c 33 N85-20250

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Magnetically switched power supply systems for lasers
[NASA-CASE-NPO-16402-1] c 36 N85-29265

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Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090

EXHAUST EMISSION
Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] c 35 N84-17555

EXHAUST GASES
Device for suppressing sound and heat produced by high-velocity exhaust jets Patent
[NASA-CASE-XMF-01813] c 28 N70-41582
Gas turbine exhaust nozzle --- for noise reduction
[NASA-CASE-LEW-11569-1] c 07 N74-15453
Abating exhaust noises in jet engines
[NASA-CASE-ARC-10712-1] c 07 N74-33218
Exhaust flow deflector --- for ducted gas flow
[NASA-CASE-LAR-11570-1] c 34 N76-18364
Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
High performance ammonium nitrate propellant
[NASA-CASE-NPO-14260-1] c 28 N79-28342
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[NASA-CASE-LEW-12990-1] c 07 N81-29129

EXHAUST NOZZLES
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[NASA-CASE-XLE-00078] c 28 N70-33284
Nozzle Patent
[NASA-CASE-XLA-00154] c 28 N70-33374
Penshape exhaust nozzle for supersonic engine Patent
[NASA-CASE-XLE-00057] c 28 N70-38711
Ejection unit Patent
[NASA-CASE-XNP-00676] c 15 N70-38996
Two dimensional wedge/translating shroud nozzle
[NASA-CASE-LAR-11919-1] c 07 N78-27121
Variable area exhaust nozzle
[NASA-CASE-LEW-12378-1] c 07 N79-14097
Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884
Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873

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Ambient cure polyimide foams --- thermal resistant foams
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[NASA-CASE-MFS-25707-1] c 35 N82-26631
Thermal control system --- removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14461

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[NASA-CASE-XGS-01395] c 03 N69-21539
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[NASA-CASE-XLA-00138] c 31 N70-37981
Foldable conduit Patent
[NASA-CASE-XLE-00620] c 32 N70-41579
Collapsible high gain antenna
[NASA-CASE-KSC-10392] c 07 N73-26117
Expandable space frames
[NASA-CASE-ERC-10365-1] c 31 N73-32749
Means for accommodating large overstrain in lead wires --- by storing extra length of wire in stretchable loop
[NASA-CASE-LAR-10168-1] c 33 N74-22865
Antenna deployment mechanism for use with a spacecraft --- extensible and retractable telescopic antenna mast
[NASA-CASE-GSC-12331-1] c 18 N80-14183
Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 18 N84-16250
Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N84-25164
Sun shield
[NASA-CASE-MSC-20162-1] c 37 N86-20803

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Apparatus for measuring swelling characteristics of membranes
[NASA-CASE-XGS-03865] c 14 N69-21363
Method for alleviating thermal stress damage in laminates
[NASA-CASE-LEW-12493-2] c 24 N81-26179

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Hydrofoil Patent
[NASA-CASE-XLA-00229] c 12 N70-33305
Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051
Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193
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[NASA-CASE-XLA-02898] c 05 N71-20268
Hard space suit Patent
[NASA-CASE-XAC-07043] c 05 N71-23161

EXPIRED AIR
Metabolic rate meter and method
[NASA-CASE-MSC-12239-1] c 52 N79-21750

EXPLOSIONS
Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-16484

EXPLOSIVE DEVICES
Tubular coupling having frangible connecting means
[NASA-CASE-XLA-02854] c 15 N69-27490
Hermetically sealed explosive release mechanism Patent
[NASA-CASE-XGS-00824] c 15 N71-16078
Nonmagnetic, explosive actuated indexing device Patent
[NASA-CASE-XGS-02422] c 15 N71-21529
Linear explosive comparison
[NASA-CASE-LAR-10800-1] c 33 N72-27959
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[NASA-CASE-NPO-11330] c 33 N73-26958
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[NASA-CASE-MSC-18179-1] c 20 N80-18097

EXPLOSIVE FORMING
Electrical discharge apparatus for forming Patent
[NASA-CASE-XMF-00375] c 15 N70-34249
Tool and process for explosive joining of tubes
[NASA-CASE-LAR-13309-1] c 37 N86-21858

EXPLOSIVE WELDING
Totally confined explosive welding --- apparatus to reduce noise level and protect personnel during explosive bonding
[NASA-CASE-LAR-10941-1] c 37 N74-21057
Method of making an explosively welded scarf joint
[NASA-CASE-LAR-11211-1] c 37 N75-12326
Totally confined explosive welding
[NASA-CASE-LAR-10941-2] c 37 N79-13364
Tool and process for explosive joining of tubes
[NASA-CASE-LAR-13309-1] c 37 N86-21858

EXPLOSIVES
Synthesis of superconducting compounds by explosive compaction of powders
[NASA-CASE-MFS-20861-1] c 18 N73-32437
Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c 28 N74-27425
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[NASA-CASE-NPO-13858-1] c 28 N79-11231

EXPONENTIAL FUNCTIONS
Digital quasi-exponential function generator
[NASA-CASE-NPO-11130] c 08 N72-20176

EXPOSURE
Exposure interlock for oscilloscope cameras
[NASA-CASE-LAR-10319-1] c 14 N73-32322
Selective image area control of X-ray film exposure density
[NASA-CASE-NPO-13808-1] c 35 N78-15461
Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081

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Electro-expulsive separation system
[NASA-CASE-ARC-11613-1] c 33 N85-29150

EXPULSION BLADDERS
Expulsion bladder-equipped storage tank structure Patent
[NASA-CASE-XNP-00612] c 11 N70-38182

EXTENSIONS
Extensible cable support Patent
[NASA-CASE-XMF-07587] c 15 N71-18701

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Extensometer frame
[NASA-CASE-XLA-10322] c 15 N72-17452
Conductive elastomeric extensometer
[NASA-CASE-MFS-21049-1] c 52 N74-27864
Amplifying ribbon extensometer
[NASA-CASE-LAR-11825-1] c 35 N77-22449
Laser extensometer
[NASA-CASE-MFS-19259-1] c 36 N78-14380
Tensile testing apparatus
[NASA-CASE-LAR-13243-1] c 35 N85-34375

EXTERNAL COMBUSTION ENGINES
Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370

EXTERNAL STORE SEPARATION
Remote pivot decoupler pylon: Wing/store suppression
[NASA-CASE-LAR-13173-1] c 05 N85-19981
Slide release mechanism --- for space shuttle orbiter/external tank connection device
[NASA-CASE-MSC-20080-1] c 37 N85-30334

EXTERNAL STORES
Decoupler pylon: wing/store flutter suppressor
[NASA-CASE-LAR-12468-1] c 08 N82-32373

EXTERNAL TANKS
Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784
Slide release mechanism --- for space shuttle orbiter/external tank connection device
[NASA-CASE-MSC-20080-1] c 37 N85-30334

EXTRACTION
Liquid-gas separation system Patent
[NASA-CASE-XMS-01624] c 15 N70-40062
Chassis unit insert tightening-extract device
[NASA-CASE-XMS-01077-1] c 37 N79-33467
Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] c 25 N84-22709

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Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
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[NASA-CASE-XMS-05304] c 05 N71-12336
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[NASA-CASE-XMF-05344] c 31 N71-16345
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[NASA-CASE-ARC-10140-1] c 15 N71-17653
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[NASA-CASE-MSC-12243-1] c 05 N71-24728
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[NASA-CASE-MSC-12411-1] c 05 N72-20096
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[NASA-CASE-MSC-12609-1] c 05 N73-32012
Absorbent product and articles made therefrom
[NASA-CASE-MSC-18223-2] c 54 N84-11758

EXTREMELY LOW RADIO FREQUENCIES
VHF/UHF parasitic probe antenna Patent
[NASA-CASE-XKS-09340] c 07 N71-24614

EXTRUDING
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[NASA-CASE-NPO-10812] c 15 N73-13464
Brazing alloy binder
[NASA-CASE-XMF-05868] c 26 N75-27125
Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154

EYE (ANATOMY)
Sight switch using an infrared source and sensor Patent
[NASA-CASE-XMF-03934] c 09 N71-22985
Ophthalmic method and apparatus
[NASA-CASE-LEW-11669-1] c 05 N73-27062
Corneal seal device
[NASA-CASE-LEW-12258-1] c 52 N77-28716
Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12723-1] c 52 N80-18690
Chromatically corrected virtual image visual display --- reducing eye strain in flight simulators
[NASA-CASE-LAR-12251-1] c 74 N80-27185
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[NASA-CASE-MFS-26011-1SB] c 52 N85-20639

EYE DISEASES
Photorefractor ocular screening system
[NASA-CASE-MFS-26011-1SB] c 52 N85-20639

EYE EXAMINATIONS
Visual examination apparatus
[NASA-CASE-ARC-10329-1] c 05 N73-26072
Multiparameter vision testing apparatus
[NASA-CASE-MSC-13601-2] c 54 N75-27759
Visual examination apparatus
[US-PATENT-RE-28,921] c 52 N76-30793

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[NASA-CASE-XMS-06056-1] c 23 N71-24857

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Pressure variable capacitor
[NASA-CASE-XNP-09752] c 14 N69-21541
Method of making a regeneratively cooled combustion chamber Patent
[NASA-CASE-XLE-00150] c 28 N70-41818
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[NASA-CASE-XNP-05821] c 03 N71-11056
Capacitor and method of making same Patent
[NASA-CASE-LEW-10364-1] c 09 N71-13522
Solar panel fabrication Patent
[NASA-CASE-XNP-03413] c 03 N71-26726
Method of forming a root cord restrained convolute section
[NASA-CASE-MSC-12398] c 05 N72-20098
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[NASA-CASE-FRC-10038] c 15 N72-20444
Thin film temperature sensor and method of making same
[NASA-CASE-NPO-11775] c 26 N72-28761
Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c 44 N76-28635
Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c 74 N77-28933
Process for spinning flame retardant elastomeric compositions --- fabricating synthetic fibers for high oxygen environments
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Solar array strip and a method for forming the same
[NASA-CASE-NPO-13652-1] c 44 N79-17314
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[NASA-CASE-LEW-12819-2] c 44 N79-18444
Bonding machine for forming a solar array strip
[NASA-CASE-NPO-13652-2] c 44 N79-24431
Method for forming a solar array strip
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Induced junction solar cell and method of fabrication
[NASA-CASE-NPO-13786-1] c 44 N80-29835
Copper doped polycrystalline silicon solar cell
[NASA-CASE-NPO-14670-1] c 44 N81-19558
Heat exchanger and method of making
[NASA-CASE-LEW-12441-3] c 44 N81-24519
Photoelectric detection system --- manufacturing automation
[NASA-CASE-MFS-23776-1] c 33 N82-28545
Method of Fabricating Schottky Barrier solar cell
[NASA-CASE-NPO-13689-4] c 44 N82-28780
Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708
Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
X-ray imaging mirror system and method of producing the same
[NASA-CASE-NPO-15828-1] c 74 N83-30222
Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176
Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350
Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940
Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734
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[NASA-TM-76884] c 24 N85-25436
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[NASA-CASE-GSC-12816-1] c 76 N86-20150
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[NASA-CASE-GSC-12956-1] c 35 N86-20754

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Method of forming a root cord restrained convolute section
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Amplifying ribbon extensometer
[NASA-CASE-LAR-11825-1] c 35 N77-22449
Nozzle extraction process and handlemeter for measuring handle
[NASA-CASE-LAR-12147-1] c 31 N79-11246
Composition and method for making polyimide resin-reinforced fabric
[NASA-CASE-LEW-12933-1] c 27 N81-19296
Heat sealable, flame and abrasion resistant coated fabric --- clothing and containers for space exploration
[NASA-CASE-MSC-18382-1] c 27 N82-16238
Adjustable high emittance gap filler --- reentry shielding for space shuttle vehicles
[NASA-CASE-ARC-11310-1] c 27 N82-24339
Absorbent product to absorb fluids --- for collection of human wastes
[NASA-CASE-MSC-18223-1] c 24 N82-29362
High temperature silicon carbide impregnated insulating fabrics
[NASA-CASE-MSC-18832-1] c 27 N83-18908
Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] c 27 N84-14324
Hot melt adhesive attachment pad
[NASA-CASE-LAR-12894-1] c 27 N85-20125

FABRY-PEROT INTERFEROMETERS
Retrodirective optical system
[NASA-CASE-XGS-04480] c 16 N69-27491

FACSIMILE COMMUNICATION
Facsimile video remodulation network
[NASA-CASE-GSC-10185-1] c 07 N72-12081
Spectrometer integrated with a facsimile camera
[NASA-CASE-LAR-11207-1] c 35 N75-19613

FACTORIAL DESIGN
Space suit pressure stabilizer Patent
[NASA-CASE-XLA-05332] c 05 N71-11194
Equipotential space suit Patent
[NASA-CASE-LAR-10007-1] c 05 N71-11195

FAIL-SAFE SYSTEMS
Failsafe multiple transformer circuit configuration
[NASA-CASE-NPO-11078] c 09 N72-25262
Latch mechanism
[NASA-CASE-MSC-12549-1] c 37 N74-27903
Safety flywheel --- using flexible materials energy storage
[NASA-CASE-HQN-10888-1] c 44 N79-14527
Module failure isolation circuit for paralleled inverters --- preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254
Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115
Reconfiguring redundancy management
[NASA-CASE-MSC-18498-1] c 60 N82-29013

FAILURE ANALYSIS
Fatigue failure load indicator
[NASA-CASE-LAR-12027-1] c 39 N79-22537
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333

FAILURE MODES
High speed rolling element bearing
[NASA-CASE-LEW-10856-1] c 15 N72-22490
Inverter ratio failure detector
[NASA-CASE-NPO-13160-1] c 35 N74-18090

FAIRINGS
Method and system for ejecting fairing sections from a rocket vehicle
[NASA-CASE-GSC-10590-1] c 31 N73-14853

Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288
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Gravimeter Patent
[NASA-CASE-XMF-05844] c 14 N71-17587
FAR INFRARED RADIATION
Collimator of multiple plates with axially aligned identical random arrays of apertures
[NASA-CASE-MFS-20546-2] c 14 N73-30389
Method and means for generation of tunable laser sidebands in the far-infrared region
[NASA-CASE-NPO-16497-1-CU] c 36 N86-20779
FAR ULTRAVIOLET RADIATION
Transient heat transfer gauge Patent
[NASA-CASE-XNP-09802] c 33 N71-15641
FARADAY EFFECT
Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381
FAST FOURIER TRANSFORMATIONS
Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651
FASTENERS
Force measuring instrument Patent
[NASA-CASE-XMF-00456] c 14 N70-34705
Life preserver Patent
[NASA-CASE-XMS-00864] c 05 N70-36493
All-directional fastener Patent
[NASA-CASE-XLA-01807] c 15 N71-10799
Fastener apparatus Patent
[NASA-CASE-ARC-10140-1] c 15 N71-17653
Methods and apparatus employing vibratory energy for wrenching Patent
[NASA-CASE-MFS-20586] c 15 N71-17686
Coaxial cable connector Patent
[NASA-CASE-XNP-04732] c 09 N71-20851
Latching mechanism Patent
[NASA-CASE-XMS-03745] c 15 N71-21076
Central spar and module joint Patent
[NASA-CASE-XNP-02341] c 15 N71-21531
Threadless fastener apparatus Patent
[NASA-CASE-XFR-05302] c 15 N71-23254
Flexibly connected support and skin Patent
[NASA-CASE-XLA-01027] c 31 N71-24035
Quick release hook tape Patent
[NASA-CASE-XMS-10660-1] c 15 N71-25975
Helmet latching and attaching ring
[NASA-CASE-XMS-04670] c 54 N78-17678
Chassis unit insert tightening-extract device
[NASA-CASE-XMS-01077-1] c 37 N79-33467
One-step dual purpose joining technique
[NASA-CASE-LAR-12595-1] c 33 N82-26571
Reusable captive blind fastener
[NASA-CASE-MSC-18742-1] c 37 N82-26673
Daze fasteners
[NASA-CASE-LAR-13009-1] c 37 N85-29285
Mechanical fastener
[NASA-CASE-LAR-12738-2] c 37 N85-30335
Cure-in-place composite fastener
[NASA-CASE-LAR-12939-1] c 37 N86-20798
Thermal-stress-free fasteners
[NASA-CASE-LAR-13325-1-SB] c 37 N86-20805
FATIGUE (MATERIALS)
Strain coupled servo control system Patent
[NASA-CASE-XLA-08530] c 32 N71-25360
TV fatigue crack monitoring system
[NASA-CASE-LAR-11490-1] c 39 N78-16387
FATIGUE LIFE
Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c 15 N69-27505
Method of improving the reliability of a rolling element system Patent
[NASA-CASE-XLE-02999] c 15 N71-16052
High speed rolling element bearing
[NASA-CASE-LEW-10856-1] c 15 N72-22490
High speed hybrid bearing comprising a fluid bearing and a rolling bearing convected in series
[NASA-CASE-LEW-11152-1] c 15 N73-32359
Machine for use in monitoring fatigue life for a plurality of elastomeric specimens
[NASA-CASE-NPO-13731-1] c 39 N78-10493
FATIGUE TESTING MACHINES
Horizontal cryostat for fatigue testing Patent
[NASA-CASE-XMF-10968] c 14 N71-24234
Light shield and infrared reflector for fatigue testing Patent
[NASA-CASE-XLA-01782] c 14 N71-26136
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Fatigue testing device Patent
[NASA-CASE-XLA-02131] c 32 N70-42003
Fatigue failure load indicator
[NASA-CASE-LAR-12027-1] c 39 N79-22537
Heating and cooling system --- for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221
FATS
Oil and fat absorbing polymers
[NASA-CASE-NPO-11609-2] c 27 N77-31308
FECES
Relief container
[NASA-CASE-XMS-06761] c 05 N69-23192
FEED SYSTEMS
Plasma device feed system Patent
[NASA-CASE-XLE-02902] c 25 N71-21694
Propellant tank pressurization system Patent
[NASA-CASE-XNP-00650] c 27 N71-28929
Liquid waste feed system
[NASA-CASE-LAR-10365-1] c 05 N72-27102
Pressurized lighting system
[NASA-CASE-KSC-10644] c 09 N72-27227
Dual frequency microwave reflex feed
[NASA-CASE-NPO-13091-1] c 09 N73-12214
Injector for use in high voltage isolators for liquid feed lines
[NASA-CASE-NPO-11377] c 15 N73-27406
Supercharged topping rocket propellant feed system
[NASA-CASE-XLE-02062-1] c 20 N80-14188
Method of producing silicon --- gas phase reactor multiple injector liquid feed system
[NASA-CASE-NPO-14382-1] c 31 N80-18231
Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154
Constant-output atomizer --- Inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406
FEEDBACK
Active RC networks
[NASA-CASE-ARC-10020] c 10 N72-17172
Feedback shift register with states decomposed into cycles of equal length
[NASA-CASE-NPO-11082] c 08 N72-22167
Inverter oscillator with voltage feedback
[NASA-CASE-NPO-10760] c 09 N72-25254
FEEDBACK AMPLIFIERS
Radiometric temperature reference Patent
[NASA-CASE-MSC-13276-1] c 14 N71-27058
Compensating bandwidth switching transients in an amplifier circuit Patent
[NASA-CASE-XNP-01107] c 10 N71-28859
Monostable multivibrator with complementary NOR gates Patent
[NASA-CASE-MSC-13492-1] c 10 N71-28860
FEEDBACK CIRCUITS
Low power drain semi-conductor circuit
[NASA-CASE-XGS-04999] c 09 N69-24317
Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503
Frequency control network for a current feedback oscillator Patent
[NASA-CASE-GSC-10041-1] c 10 N71-19418
Feedback integrator with grounded capacitor Patent
[NASA-CASE-XAC-10607] c 10 N71-23669
Parametric amplifiers with idler circuit feedback
[NASA-CASE-LAR-10253-1] c 09 N72-25258
Pseudonoise sequence generators with three tap linear feedback shift registers
[NASA-CASE-NPO-11406] c 08 N73-12175
Logarithmic circuit with wide dynamic range
[NASA-CASE-GSC-12145-1] c 33 N78-32339
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[NASA-CASE-KSC-11170-1] c 33 N83-36356
FEEDBACK CONTROL
Nonlinear analog-to-digital converter Patent
[NASA-CASE-XAC-04031] c 08 N71-18594
Pulse-type magnetic core memory element circuit with blocking oscillator feedback Patent
[NASA-CASE-XGS-03303] c 08 N71-18595
BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890
A dc motor speed control system Patent
[NASA-CASE-MFS-14610] c 09 N71-28886
Sampled data controller Patent
[NASA-CASE-GSC-10554-1] c 08 N71-29033
A dc servosystem including an ac motor Patent
[NASA-CASE-NPO-10700] c 07 N71-33613
Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004
Regulated dc-to-dc converter for voltage step-up or step-down with input-output isolation
[NASA-CASE-HQN-10792-1] c 33 N74-11049
Diffused waveguiding capillary tube with distributed feedback for a gas laser
[NASA-CASE-NPO-13544-1] c 36 N76-18428
The dc-to-dc converters employing staggered-phase power switches with two-loop control
[NASA-CASE-NPO-13512-1] c 33 N77-10428
System and method for tracking a signal source --- employing feedback control
[NASA-CASE-HQN-10880-1] c 17 N78-17140
Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237
Wide power range microwave feedback controller
[NASA-CASE-GSC-12146-1] c 33 N78-32340
Active notch filter network with variable notch depth, width and frequency
[NASA-CASE-FRC-11055-1] c 33 N80-29583
Variable speed drive
[NASA-CASE-GSC-12643-1] c 37 N83-26078
Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421
Three phase power factor controller
[NASA-CASE-MFS-25535-2] c 33 N84-22885
Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661
Closed loop electrostatic levitation system
[NASA-CASE-NPO-15553-1] c 33 N85-29142
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
Closed loop fiber optic rotation sensor
[NASA-CASE-NPO-16558-1-CU] c 74 N86-20129
FEEDBACK FREQUENCY MODULATION
Means for communicating through a layer of ionized gases Patent
[NASA-CASE-XLA-01127] c 07 N70-41372
Data-aided carrier tracking loops
[NASA-CASE-NPO-11282] c 10 N73-16205
Linear phase demodulator including a phase locked loop with auxiliary feedback loop
[NASA-CASE-GSC-12018-1] c 33 N77-14334
FEEDERS
Automatic real-time pair-feeding system for animals
[NASA-CASE-ARC-10302-1] c 51 N74-15778
FEET (ANATOMY)
Drop foot corrective device
[NASA-CASE-LAR-12259-2] c 54 N86-22112
FELTS
Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles
[NASA-CASE-MSC-12619-2] c 27 N79-12221
FEMALES
Liquid cooled brassiere and method of diagnosing malignant tumors therewith
[NASA-CASE-ARC-11007-1] c 52 N77-14736
Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N78-27750
Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740
FERMENTATION
Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227
FERRITES
Magnetic recording head and method of making same Patent
[NASA-CASE-GSC-10097-1] c 08 N71-27210
Method for making conductors for ferrite memory arrays --- from pre-formed metal conductors
[NASA-CASE-LAR-10994-1] c 24 N75-13032
Device for measuring the ferrite content in an austenitic stainless-steel weld
[NASA-CASE-MFS-22907-1] c 26 N76-18257
FERROFLUIDS
Linear motion valve
[NASA-CASE-MSC-20148-1] c 37 N85-29284
FERROMAGNETIC MATERIALS
Magnetic heat pumping
[NASA-CASE-LEW-12508-1] c 34 N78-17335
FERROMAGNETIC RESONANCE
Ferroresonant regulated power supply
[NASA-CASE-NPO-15977-1-CU] c 33 N86-20673
FERROMAGNETISM
High temperature ferromagnetic cobalt-base alloy Patent
[NASA-CASE-XLE-03629] c 17 N71-23248
FIBER COMPOSITES
Fibrous refractory composite insulation --- shielding reusable spacecraft
[NASA-CASE-ARC-11169-1] c 24 N79-24062
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745
Method and apparatus for gripping uniaxial fibrous composite materials
[NASA-CASE-LEW-13758-1] c 24 N84-27829
Light weight fire resistant graphite composites
[NASA-CASE-ARC-11615-1-SB] c 24 N85-28976
Arc spray fabrication of metal matrix composite monotape
[NASA-CASE-LEW-13828-1] c 24 N85-30027
FIBER OPTICS
Fiber optic vibration transducer and analyzer Patent
[NASA-CASE-XMF-02433] c 14 N71-10616

Fiber distributed feedback laser
[NASA-CASE-NPO-13531-1] c 36 N76-24553
Fiber optic multiplex optical transmission system
[NASA-CASE-KSC-11047-1] c 74 N78-14889
Low intensity X-ray and gamma-ray imaging device --- fiber optics
[NASA-CASE-GSC-12263-1] c 74 N79-20857
Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186
Apparatus for fiber optic liquid level sensing
[NASA-CASE-MSC-18674-1] c 74 N81-24907
Interleaving device
[NASA-CASE-GSC-12111-2] c 33 N81-29342
Optical gyroscope system
[NASA-CASE-NPO-14258-1] c 35 N81-33448
Fiber optic transmission line stabilization apparatus and method
[NASA-CASE-NPO-15036-1] c 74 N82-19029
Optical crystal temperature gauge with fiber optic connections
[NASA-CASE-MSC-18627-1] c 74 N82-30071
Low intensity X-ray and gamma-ray spectrometer
[NASA-CASE-GSC-12587-1] c 35 N82-32659
Fiber optic crossbar switch for automatically patching optical signals
[NASA-CASE-KSC-11104-1] c 74 N83-29032
Optical fiber tactile sensor
[NASA-CASE-NPO-15375-1] c 74 N84-11921
Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037
Low loss splicing method for single-mode optical fiber
[NASA-CASE-NPO-16294-1] c 74 N84-33179
Optical fiber coupling method and apparatus
[NASA-CASE-NPO-15464-1] c 74 N85-29749
Closed loop fiber optic rotation sensor
[NASA-CASE-NPO-16558-1-CU] c 74 N86-20129

FIBER REINFORCED COMPOSITES
Composition and method for making polyimide resin-reinforced fabric
[NASA-CASE-LEW-12933-1] c 27 N81-19296
Fuselage structure using advanced technology fiber reinforced composites
[NASA-CASE-LAR-11688-1] c 24 N82-26384
Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392
Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950
Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450

FIBER RELEASE
Curing agent for polyepoxides and epoxy resins and composites cured therewith --- preventing carbon fiber release
[NASA-CASE-LEW-13226-1] c 27 N81-17260
Method and device for detection of a substance --- determining carbon fiber release in fire situations
[NASA-CASE-NPO-14940-1] c 33 N83-31954

FIBER STRENGTH
High resistance and raised modulus carbon fibers
[NASA-TM-76884] c 24 N85-25436

FIBERS
Method for fiberizing ceramic materials Patent
[NASA-CASE-XNP-00597] c 18 N71-23088
Method and apparatus for fluffing, separating, and cleaning fibers
[NASA-CASE-LAR-11224-1] c 37 N76-18456
Composite lamination method
[NASA-CASE-LAR-12019-1] c 24 N78-17150
Dual membrane hollow fiber fuel cell and method of operating same
[NASA-CASE-NPO-13732-1] c 44 N79-10513
Ion-exchange hollow fibers
[NASA-CASE-NPO-13309-1] c 25 N81-19244
A method and technique for installing light-weight fragile, high-temperature fiber insulation
[NASA-CASE-MSC-18934-3] c 24 N82-26387
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745

FIELD EFFECT TRANSISTORS
Frequency to analog converter Patent
[NASA-CASE-XNP-07040] c 08 N71-12500
Voltage to frequency converter Patent
[NASA-CASE-GSC-10022-1] c 10 N71-25882
Broadband video process with very high input impedance
[NASA-CASE-NPO-10199] c 09 N72-17156
Data multiplexer using tree switching configuration
[NASA-CASE-NPO-11333] c 08 N72-22162
Integrated circuit including field effect transistor and cermet resistor
[NASA-CASE-GSC-10835-1] c 09 N72-33205
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential of field effect device
[NASA-CASE-GSC-11425-1] c 76 N74-20329
Stored charge transistor
[NASA-CASE-NPO-11156-2] c 33 N75-31331
Field effect transistor and method of construction thereof
[NASA-CASE-MFS-23312-1] c 33 N78-27326
Method of making V-MOS field effect transistors utilizing a two-step anisotropic etching and ion implantation
[NASA-CASE-GSC-12515-1] c 33 N81-26360
CCD correlated quadruple sampling processor
[NASA-CASE-NPO-14426-1] c 33 N81-27396
Electronic system for high power load control --- solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126
FET charge sensor and voltage probe
[NASA-CASE-NPO-16045-1] c 76 N84-33211
JFET reflection oscillator
[NASA-CASE-GSC-12555-1] c 33 N86-19515
Hybrid power semiconductor
[NASA-CASE-LEW-13922-1] c 33 N86-20672

FIELD EMISSION
Method and apparatus for limiting field emission current
[NASA-CASE-ERC-10015-2] c 10 N72-27246
Apparatus for mounting a field emission cathode
[NASA-CASE-LEW-14108-1] c 33 N85-29149

FIELD OF VIEW
Scanner --- photography from a spin stabilized synchronous satellite
[NASA-CASE-GSC-12032-2] c 43 N82-13465
Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139

FILAMENT WINDING
Tool attachment for spreading loose elements away from work Patent
[NASA-CASE-XMF-02107] c 15 N71-10809
Method of making a filament-wound container Patent
[NASA-CASE-XLE-03803-2] c 15 N71-17651
Method of fabricating a twisted composite superconductor
[NASA-CASE-LEW-11015] c 26 N73-32571
Method of making reinforced composite structure
[NASA-CASE-LEW-12619-1] c 24 N77-19171

FILAMENTS
Radiant heater having formed filaments Patent
[NASA-CASE-XLE-00387] c 33 N70-34812
Twisted multifilament superconductor
[NASA-CASE-LEW-11726-1] c 26 N73-26752

FILLERS
Method for making a heat insulating and ablative structure
[NASA-CASE-XMS-01108] c 15 N69-24322
Intumescent-ablator coatings using endothermic fillers
[NASA-CASE-ARC-11043-1] c 24 N78-27180
Polymeric compositions and their method of manufacture --- forming filled polymer systems using cryogenics
[NASA-CASE-NPO-10424-1] c 27 N81-24258
Polyvinyl alcohol battery separator containing inert filler --- alkaline batteries
[NASA-CASE-LEW-13556-1] c 44 N81-27615
Adjustable high emittance gap filler --- reentry shielding for space shuttle vehicles
[NASA-CASE-ARC-11310-1] c 27 N82-24339

FILM COOLING
Multislot film cooled pyrolytic graphite rocket nozzle Patent
[NASA-CASE-XNP-04389] c 28 N71-20942
Curved film cooling admission tube
[NASA-CASE-LEW-13174-1] c 34 N83-27144
Covering solid, film cooled surfaces with a duplex thermal barrier coating
[NASA-CASE-LEW-13450-1] c 31 N83-35177
Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] c 34 N85-33433

FILM THICKNESS
Chemical vapor deposition reactor --- providing uniform film thickness
[NASA-CASE-NPO-13650-1] c 25 N79-28253
Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949
Degassifying and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MSC-18936-1] c 35 N83-29652
Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112

FILMS
Apparatus for obtaining isotropic irradiation of a specimen
[NASA-CASE-MFS-20095] c 24 N72-11595
Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994

FILTERS
Filter system for control of outgas contamination in vacuum Patent
[NASA-CASE-MFS-14711] c 15 N71-26185
Method for removing oxygen impurities from cesium Patent
[NASA-CASE-XNP-04262-2] c 17 N71-26773
Centrifugal lyophobic separator
[NASA-CASE-LAR-10194-1] c 34 N74-30608

FILTRATION
Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119
Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104

FINS
Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629
Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421

FIRE EXTINGUISHERS
Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137
Synthesis of dawsonites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977
Fire extinguishant materials
[NASA-CASE-ARC-11252-1] c 25 N83-36118

FIRE PREVENTION
Hydrogen fire blink detector
[NASA-CASE-MFS-15063] c 14 N72-25412
Method and apparatus for checking fire detectors
[NASA-CASE-GSC-11600-1] c 35 N74-21019
Fire resistant polymers based on 1-(diorgano oxyphosphonyl)methyl-2,4- and 2,6-diamino benzenes
[NASA-CASE-ARC-11512-2] c 27 N85-21362

FIREPROOFING
Fire resistant coating composition Patent
[NASA-CASE-GSC-10072] c 18 N71-14014
Flexible fire retardant foam
[NASA-CASE-ARC-10180-1] c 28 N72-20767
Intumescent paint containing nitrile rubber
[NASA-CASE-ARC-10196-1] c 18 N73-13562
Intumescent composition, foamed product prepared therewith, and process for making same
[NASA-CASE-ARC-10304-1] c 18 N73-26572
Flexible fire retardant polyisocyanate modified neoprene foam --- for thermal protective devices
[NASA-CASE-ARC-10180-1] c 27 N74-12814
Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
[NASA-CASE-MSC-14331-1] c 27 N76-24405
Flame retardant spandex type polyurethanes
[NASA-CASE-MSC-14331-2] c 27 N78-17213
Fire protection covering for small diameter missiles
[NASA-CASE-ARC-11104-1] c 15 N79-26100

FIRES
Combustion products generating and metering device
[NASA-CASE-GSC-11095-1] c 14 N72-10375
Hydrogen fire detection system with logic circuit to analyze the spectrum of temporal variations of the optical spectrum
[NASA-CASE-MFS-13130] c 10 N72-17173

FIRING (IGNITING)
Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922

FITTINGS
Quick release connector Patent
[NASA-CASE-XLA-01141] c 15 N71-13789
Flared tube strainer
[NASA-CASE-XLA-05056] c 15 N72-11389
Self-indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N84-20860
Tube coupling device
[NASA-CASE-MFS-25964-1] c 37 N85-20378
Apparatus for adapting an end effector device remotely controlled manipulator arm
[NASA-CASE-MFS-25949-1] c 37 N86-19603

FIXED WINGS
Supersonic aircraft Patent
[NASA-CASE-XLA-04451] c 02 N71-12243

FIXTURES
Tool for use in lifting pin supported objects
[NASA-CASE-NPO-13157-1] c 37 N74-32918
Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11465-1] c 37 N76-21554
Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492

Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081

FLAME PROBES
Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c 19 N74-29410

FLAME RETARDANTS
Flame retardant spandex type polyurethanes
[NASA-CASE-MSC-14331-2] c 27 N78-17213
Process for spinning flame retardant elastomeric compositions --- fabricating synthetic fibers for high oxygen environments
[NASA-CASE-MSC-14331-3] c 27 N78-32262
Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
Crystalline polyimides --- reinforcing fibers for high temperature composites and adhesives as well as flame retardation
[NASA-CASE-LAR-12099-1] c 27 N80-16158
Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-3] c 27 N80-24438
Structural wood panels with improved fire resistance
[NASA-CASE-ARC-11174-1] c 24 N81-13999
Heat sealable, flame and abrasion resistant coated fabric --- clothing and containers for space exploration
[NASA-CASE-MSC-18382-1] c 27 N82-16238
Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900
The 1 - (dialkoxyphosphonyl)methyl -2,4- and -2,6-dinitro- and diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-1] c 23 N83-28076
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854
Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] c 27 N84-14324
Vinyl styrylpyridines and their copolymerization with bismaleimide resins
[NASA-CASE-ARC-11429-1-CU] c 27 N84-16341
Fire resistant polymers based on 1-((dialkoxyphosphonyl)methyl)-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11512-1] c 27 N84-20702
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745
Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394
The 1-(diorganooxphosphonyl)methyl-2, 4- and -2, 6-dinitro and diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N86-20499
Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797

FLAME SPRAYING
Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00302] c 15 N71-16077
Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739
Method of making pressure tight seal for super alloy
[NASA-CASE-LAR-10170-1] c 37 N74-11301
Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233

FLAME TEMPERATURE
Direct heating surface combustor
[NASA-CASE-LEW-11877-1] c 34 N78-27357

FLAMES
Temperature reducing coating for metals subject to flame exposure Patent
[NASA-CASE-XLE-00035] c 33 N71-29151
Modulated hydrogen ion flame detector
[NASA-CASE-ARC-10322-1] c 35 N76-18403

FLAMMABILITY
Flammability test chamber Patent
[NASA-CASE-KSC-10126] c 11 N71-24985
Burn rate testing apparatus
[NASA-CASE-XMS-09690] c 33 N72-25913
Compound oxidized styrylphosphine --- flame resistant vinyl polymers
[NASA-CASE-MSC-14903-2] c 27 N80-10358
Vitra-violet process for producing flame resistant polyamides and products produced thereby --- protective clothing for high oxygen environments
[NASA-CASE-MSC-16074-1] c 27 N80-26446
Fire resistant polymers based on 1-((dialkoxyphosphonyl)methyl)-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11512-1] c 27 N84-20702
Light weight fire resistant graphite composites
[NASA-CASE-ARC-11615-1-SB] c 24 N85-28976

FLANGES
Cassegrainian antenna subflector flange for suppressing ground noise Patent
[NASA-CASE-XNP-00683] c 09 N70-35425
Anti-glare improvement for optical imaging systems Patent
[NASA-CASE-NPO-10337] c 14 N71-15604
Flanged major modular assembly jig
[NASA-CASE-MSC-19372-1] c 39 N76-31562

FLAPS (CONTROL SURFACES)
Jet aircraft configuration Patent
[NASA-CASE-XLA-00087] c 02 N70-33332
Assembly for recovering a capsule Patent
[NASA-CASE-XMF-00641] c 31 N70-36410
Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c 02 N71-26110
Reversed cowl flap inlet thrust augmentor --- with adjustable airfoil
[NASA-CASE-ARC-10754-1] c 07 N75-24736

FLARED BODIES
Flared tube strainer
[NASA-CASE-XLA-05056] c 15 N72-11389

FLASH LAMPS
Active lamp pulse driver circuit --- optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189

FLAT CONDUCTORS
Method of making a molded connector Patent
[NASA-CASE-XMF-03498] c 15 N71-15986
Method of making shielded flat cable Patent
[NASA-CASE-MFS-13687] c 09 N71-28691
Shielded flat cable
[NASA-CASE-MFS-13687-2] c 09 N72-22198
Electrical connector
[NASA-CASE-MFS-20757] c 09 N72-28225
Method and apparatus for preparing multiconductor cable with flat conductors
[NASA-CASE-MFS-10946-1] c 31 N79-21226
Edge coating of flat wires
[NASA-CASE-XMF-05757-1] c 31 N79-21227

FLAT PLATES
Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
Apparatus for making diamonds
[NASA-CASE-MFS-20698] c 15 N72-20446
Heat transfer device
[NASA-CASE-MFS-22938-1] c 34 N76-18374
Flat-plate heat pipe
[NASA-CASE-GSC-11998-1] c 34 N77-32413
Solar engine
[NASA-CASE-LAR-12148-1] c 44 N82-24640
Two-dimensional scanner apparatus --- flaw detector in small flat plates
[NASA-CASE-MFS-25687-1] c 35 N84-22928

FLEXIBILITY
Weatherproof helix antenna Patent
[NASA-CASE-XKS-08485] c 07 N71-19493
Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937
Flexible joint for pressurizable garment
[NASA-CASE-MSC-11072] c 54 N74-32546
Nozzle extraction process and handlemeter for measuring handle
[NASA-CASE-LAR-12147-1] c 31 N79-11246
Safety flywheel --- using flexible materials energy storage
[NASA-CASE-HQN-10888-1] c 44 N79-14527
Sun shield
[NASA-CASE-MSC-20162-1] c 37 N86-20803
Flexible diaphragm: Extreme temperature usage
[NASA-CASE-MSC-20797-1] c 37 N86-20806

FLEXIBLE BODIES
Flexible back-up bar Patent
[NASA-CASE-XMF-00722] c 15 N70-40204
Deflective rod switch with elastic support and sealing means Patent
[NASA-CASE-XNP-09808] c 09 N71-12518
Flexible composite membrane Patent
[NASA-CASE-XNP-08837] c 18 N71-16210
Self supporting space vehicle Patent
[NASA-CASE-XLA-00117] c 31 N71-17680
Extravehicular tunnel suit system Patent
[NASA-CASE-MSC-12243-1] c 05 N71-24728
Active vibration isolator for flexible bodies Patent
[NASA-CASE-LAR-10106-1] c 15 N71-27169
Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747
Low cycle fatigue testing machine
[NASA-CASE-LAR-10270-1] c 32 N72-25877
Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421
Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c 37 N75-19686
Strong thin membrane structure --- solar sails
[NASA-CASE-NPO-14021-2] c 27 N80-16163

FLEXIBLE WINGS
Aeroflexible structures
[NASA-CASE-XLA-06095] c 01 N69-39981
Flexible wing deployment device Patent
[NASA-CASE-XLA-01220] c 02 N70-41863
Control for flexible parawing Patent
[NASA-CASE-XLA-06958] c 02 N71-11038

FLEXING
Two degree inverted flexure
[NASA-CASE-ARC-10345-1] c 15 N73-12488
Pressure suit joint analyzer
[NASA-CASE-ARC-11314-1] c 54 N82-26987
Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] c 37 N84-12492

FLIGHT
Traversing probe Patent
[NASA-CASE-XFR-02007] c 12 N71-24692

FLIGHT ALTITUDE
Altitude measuring system
[NASA-CASE-ERC-10412-1] c 09 N73-12211
Terminal guidance system --- for guiding aircraft into preselected altitude and/or heading at terminal point
[NASA-CASE-FRC-10049-1] c 04 N74-13420
Apparatus for measuring an aircraft's speed and height
[NASA-CASE-LAR-12275-1] c 35 N79-18296
System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075
CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040
Sidelooking laser altimeter for a flight simulator
[NASA-CASE-ARC-11312-1] c 36 N83-34304
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443

FLIGHT CLOTHING
Absorbent product and articles made therefrom
[NASA-CASE-MSC-18223-2] c 54 N84-11758

FLIGHT CONTROL
Aircraft instrument Patent
[NASA-CASE-XLA-00487] c 14 N70-40157
Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073
Mechanically limited, electrically operated hydraulic valve system for aircraft controls Patent
[NASA-CASE-XAC-00048] c 02 N71-29128
Numerical computer peripheral interactive device with manual controls
[NASA-CASE-NPO-11497] c 08 N73-25206
Solid state controller three axes controller
[NASA-CASE-MSC-12394-1] c 08 N74-10942
G-load measuring and indicator apparatus --- for aircraft
[NASA-CASE-ARC-10806] c 06 N74-27872
Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930
Deploy/release system --- model aircraft flight control
[NASA-CASE-LAR-11575-1] c 02 N76-16014
Apparatus for damping operator induced oscillations of a controlled system --- flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493
Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N84-20522

FLIGHT CREWS
Survival couch Patent
[NASA-CASE-XLA-00118] c 05 N70-33285

FLIGHT INSTRUMENTS
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N84-20522
Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733

FLIGHT RECORDERS
Event recorder Patent
[NASA-CASE-XLA-01832] c 14 N71-21006

FLIGHT SAFETY
Aerial capsule emergency separation device Patent
[NASA-CASE-XLA-00115] c 03 N70-33343
Apparatus for aiding a pilot in avoiding a midair collision between aircraft
[NASA-CASE-LAR-10717-1] c 21 N73-30641

FLIGHT SIMULATION
Lunar landing flight research vehicle Patent
[NASA-CASE-XFR-00929] c 31 N70-34966
Television simulation for aircraft and space flight Patent
[NASA-CASE-XFR-03107] c 09 N71-19449
Separation simulator Patent
[NASA-CASE-XKS-04631] c 10 N71-23663

FLIGHT SIMULATORS
Centrifuge mounted motion simulator Patent
[NASA-CASE-XAC-00399] c 11 N70-34815

Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
[NASA-CASE-XNP-00708] c 14 N70-35394
Wind tunnel test section
[NASA-CASE-MFS-20509] c 11 N72-17183
Numerical computer peripheral interactive device with manual controls
[NASA-CASE-NPO-11497] c 08 N73-25206
Apparatus for applying simulator g-forces to an arm of an aircraft simulator pilot
[NASA-CASE-LAR-10550-1] c 09 N74-30597
Vehicle simulator binocular multiplanar visual display system
[NASA-CASE-ARC-10808-1] c 09 N76-24280
Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083
Chromatically corrected virtual image display --- lens design for flight simulators
[NASA-CASE-LAR-12251-1] c 74 N79-14892
Seat cushion to provide realistic acceleration cues to aircraft simulator pilot
[NASA-CASE-LAR-12149-2] c 09 N79-31228
Chromatically corrected virtual image visual display --- reducing eye strain in flight simulators
[NASA-CASE-LAR-12251-1] c 74 N80-27185
Helmet weight simulator
[NASA-CASE-LAR-12320-1] c 54 N81-27806
Biocentrifuge system capable of exchanging specimen cages while in operational mode
[NASA-CASE-MFS-23825-1] c 51 N81-32829
Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212
Sidelooking laser altimeter for a flight simulator
[NASA-CASE-ARC-11312-1] c 36 N83-34304
Simulator scene display evaluation
[NASA-CASE-ARC-11504-1] c 09 N84-16221
Inflight IFR procedures simulator
[NASA-CASE-KSC-11218-1] c 09 N85-19990

FLIGHT TESTS
Air frame drag balance Patent
[NASA-CASE-XLA-00113] c 14 N70-33386

FLIGHT TRAINING
Inflight IFR procedures simulator
[NASA-CASE-KSC-11218-1] c 09 N85-19990

FLIGHT VEHICLES
Leading edge curvature based on convective heating Patent
[NASA-CASE-XLA-01486] c 01 N71-23497
Altitude sensing device
[NASA-CASE-XMS-01994-1] c 14 N72-17326

FLIP-FLOPS
AC logic flip-flop circuits Patent
[NASA-CASE-XGS-00823] c 10 N71-15910
Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772
Flipflop interrogator and bi-polar current driver Patent
[NASA-CASE-XGS-03058] c 10 N71-19547

FLOATING
Floating baffle to improve efficiency of liquid transfer from tanks
[NASA-CASE-KSC-10639] c 15 N73-26472
Modification of one man life raft
[NASA-CASE-LAR-10241-1] c 54 N74-14845
Floating nut retention system
[NASA-CASE-MSC-16938-1] c 37 N80-23653

FLOATS
Magnetically centered liquid column float Patent
[NASA-CASE-XAC-00030] c 14 N70-34820

FLOORS
Elevated waterproof access floor system and method of making the same
[NASA-CASE-ARC-11363-1] c 31 N83-28281

FLOTATION
Rescue litter flotation assembly Patent
[NASA-CASE-XMS-04170] c 05 N71-22748

FLOW CHAMBERS
Multi-chamber controllable heat pipe
[NASA-CASE-ARC-10199] c 34 N78-17337
Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182
Fluidic angular velocity sensor
[NASA-CASE-NPO-16479-1-CU] c 35 N85-29219

FLOW CHARACTERISTICS
Copolyimides with a combination of flexibilizing groups
[NASA-CASE-LAR-13354-1] c 27 N86-20566

FLOW DIRECTION INDICATORS
Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271
Flow angle sensor and read out system Patent
[NASA-CASE-XLE-04503] c 14 N71-24864
Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295

FLOW DISTRIBUTION
Full flow with shut off and selective drainage control valve Patent application
[NASA-CASE-ERC-10208] c 15 N70-10867
Method of obtaining permanent record of surface flow phenomena Patent
[NASA-CASE-XLA-01353] c 14 N70-41366
Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815
Dual wavelength scanning Doppler velocimeter --- without perturbation of flow fields
[NASA-CASE-ARC-10637-1] c 35 N75-16783
Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c 20 N76-14190
Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187
Fluidic momentum controller
[NASA-CASE-MSC-20906-1] c 18 N86-19344
Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680
Self-compensating solenoid valve
[NASA-CASE-ARC-11620-1] c 37 N86-21859

FLOW MEASUREMENT
Flow test device
[NASA-CASE-XMS-04917] c 14 N69-24257
Nuclear mass flowmeter
[NASA-CASE-MFS-20485] c 14 N72-11365
Flow velocity and directional instrument
[NASA-CASE-LAR-10855-1] c 14 N73-13415
Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c 35 N75-30503
Method for making a hot wire anemometer and product thereof
[NASA-CASE-ARC-10900-1] c 35 N77-24454
Fluid velocity measuring device
[NASA-CASE-LAR-11729-1] c 34 N79-12359
Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c 34 N81-26402
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12720-1] c 44 N83-21504
Bio-medical flow sensor --- intrvenous procedures
[NASA-CASE-MSC-18761-1] c 52 N83-27577
Spinning disk calibration method and apparatus for laser Doppler velocimeter
[NASA-CASE-ARC-11510-1] c 35 N84-25015
Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295
Vibration-free Raman Doppler velocimeter
[NASA-CASE-LAR-13268-1] c 35 N85-29216
Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154

FLOW REGULATORS
Anti-backlash circuit for hydraulic drive system Patent
[NASA-CASE-XNP-01020] c 03 N71-12260
Fluid flow restrictor Patent
[NASA-CASE-NPO-10117] c 15 N71-15608
Fluid flow control value Patent
[NASA-CASE-XLE-00703] c 15 N71-15967
Gas regulator Patent
[NASA-CASE-NPO-10298] c 12 N71-17661
Semitoroidal diaphragm cavitating valve Patent
[NASA-CASE-XNP-09704] c 12 N71-18615
Temperature sensitive flow regulator Patent
[NASA-CASE-MFS-14259] c 15 N71-19213
Pneumatic amplifier Patent
[NASA-CASE-MSC-12121-1] c 15 N71-27147
Gas flow control device
[NASA-CASE-NPO-11479] c 15 N73-13462
Pressure modulating value
[NASA-CASE-MSC-14905-1] c 37 N77-28487
Automotive gas turbine fuel control
[NASA-CASE-LEW-12785-1] c 37 N78-24545
Flow diverter value and flow diversion method
[NASA-CASE-HQN-00573-1] c 37 N79-33468
Automatic thermal switch
[NASA-CASE-GSC-12415-1] c 33 N82-24419
Bio-medical flow sensor --- intrvenous procedures
[NASA-CASE-MSC-18761-1] c 52 N83-27577
Combined riblet and LEBU drag reduction system
[NASA-CASE-LAR-13286-1] c 02 N85-28922
Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253
Self-compensating solenoid valve
[NASA-CASE-ARC-11620-1] c 37 N86-21859

FLOW RESISTANCE
Flow resistivity instrument
[NASA-CASE-LAR-13053-1] c 43 N83-29783

FLOW STABILITY
Continuous detonation reaction engine Patent
[NASA-CASE-XMF-06926] c 28 N71-22983
Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12720-1] c 44 N83-21504

FLOW VELOCITY
Method for continuous variation of propellant flow and thrust in propulsive devices Patent
[NASA-CASE-XLE-00177] c 28 N70-40367
Densitometer Patent
[NASA-CASE-XLE-00688] c 14 N70-41330
Device for suppressing sound and heat produced by high-velocity exhaust jets Patent
[NASA-CASE-XMF-01813] c 28 N70-41582
Positive displacement flowmeter Patent
[NASA-CASE-XMF-02822] c 14 N70-41994
Zeta potential flowmeter Patent
[NASA-CASE-XNP-06509] c 14 N71-23226
Method for measuring the characteristics of a gas Patent
[NASA-CASE-XLA-03375] c 16 N71-24074
Laser fluid velocity detector Patent
[NASA-CASE-XAC-10770-1] c 16 N71-24828
Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10022] c 12 N71-26546
Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c 15 N71-27432
Flow rate switch
[NASA-CASE-NPO-10722] c 09 N72-20199
Flow velocity and directional instrument
[NASA-CASE-LAR-10855-1] c 14 N73-13415
Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730
Wind tunnel flow generation section
[NASA-CASE-ARC-10710-1] c 09 N75-12969
Combined dual scatter, local oscillator laser Doppler velocimeter
[NASA-CASE-ARC-10642-1] c 36 N76-14447
System for measuring three fluctuating velocity components in a turbulently flowing fluid
[NASA-CASE-ARC-10974-1] c 34 N77-27345
Fluid velocity measuring device
[NASA-CASE-LAR-11729-1] c 34 N79-12359
Wind tunnel supplementary Mach number minimum section insert
[NASA-CASE-LAR-12532-1] c 09 N82-11088
Improved fluid flow meter for measuring the rate of fluid flow in a conduit
[NASA-CASE-MFS-28030-1] c 35 N85-30286
Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195

FLOW VISUALIZATION
Shock-layer radiation measurement
[NASA-CASE-XAC-02970] c 14 N69-39896
Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815
Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178

FLOWMETERS
Flow test device
[NASA-CASE-XMS-04917] c 14 N69-24257
Positive displacement flowmeter Patent
[NASA-CASE-XMF-02822] c 14 N70-41994
Heated element fluid flow sensor Patent
[NASA-CASE-MSC-12084-1] c 12 N71-17569
Laser Doppler system for measuring three dimensional vector velocity Patent
[NASA-CASE-MFS-20386] c 21 N71-19212
Zeta potential flowmeter Patent
[NASA-CASE-XNP-06509] c 14 N71-23226
Traversing probe Patent
[NASA-CASE-XFR-02007] c 12 N71-24692
Laser fluid velocity detector Patent
[NASA-CASE-XAC-10770-1] c 16 N71-24828
Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10022] c 12 N71-26546
Nuclear mass flowmeter
[NASA-CASE-MFS-20485] c 14 N72-11365
Respiratory analysis system and method
[NASA-CASE-MSC-13436-1] c 05 N73-32015
Low power electromagnetic flowmeter providing accurate zero set
[NASA-CASE-ARC-10362-1] c 14 N73-32326
Electromagnetic flow rate meter --- for liquid metals
[NASA-CASE-LEW-10981-1] c 35 N74-21018
Leak detector
[NASA-CASE-MFS-21761-1] c 35 N75-15931
System for measuring three fluctuating velocity components in a turbulently flowing fluid
[NASA-CASE-ARC-10974-1] c 34 N77-27345
Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c 34 N81-26402
Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295
State-of-charge coulometer
[NASA-CASE-NPO-15759-1] c 35 N85-21596

Improved fluid flow meter for measuring the rate of fluid flow in a conduit
[NASA-CASE-MFS-28030-1] c 35 N85-30286
Technique for measuring gas conversion factors
[NASA-CASE-LAR-13220-1] c 34 N86-12547

FLUID AMPLIFIERS
Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466
Multiway vortex valve system Patent
[NASA-CASE-XMF-04709] c 15 N71-15609
Shear modulated fluid amplifier Patent
[NASA-CASE-MFS-10412] c 12 N71-17578
Rocket thrust throttling system
[NASA-CASE-LEW-10374-1] c 28 N73-13773
Fluid pressure amplifier and system
[NASA-CASE-LAR-10868-1] c 33 N74-11050
Fluid thrust control system --- for liquid propellant rocket engines
[NASA-CASE-XMF-05964-1] c 20 N79-21124

FLUID DYNAMICS
Degassifying and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MSC-18936-1] c 35 N83-29652

FLUID FILLED SHELLS
Method and apparatus for producing gas-filled hollow spheres --- target pellets for inertial confinement fusion
[NASA-CASE-NPO-14596-3] c 31 N83-31896

FLUID FILMS
Journal bearings --- for lubricant films
[NASA-CASE-LEW-11076-1] c 37 N74-21061
Fluid journal bearings
[NASA-CASE-LEW-11076-4] c 37 N76-15461
Fluid seal for rotating shafts
[NASA-CASE-LEW-11676-1] c 37 N76-22541

FLUID FILTERS
Liquid-gas separator for zero gravity environment Patent
[NASA-CASE-XMS-01492] c 05 N70-41297
High pressure filter Patent
[NASA-CASE-XNP-00732] c 28 N70-41447
Water separating system Patent
[NASA-CASE-XMS-13052] c 14 N71-20427
Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c 34 N75-26282
Filter regeneration systems --- a system for regenerating a system filter in a fluid flow line
[NASA-CASE-MSC-14273-1] c 34 N75-33342
Quick disconnect filter coupling
[NASA-CASE-MFS-22323-1] c 37 N76-14463
Fluid sample collection and distribution system --- qualitative analysis of aqueous samples from several points
[NASA-CASE-MSC-16841-1] c 34 N79-24285
Air removal device --- life support systems
[NASA-CASE-XLA-8914-2] c 25 N82-21269
Rapid, quantitative determination of bacteria in water --- adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569

FLUID FLOW
Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466
Pneumatic system for controlling and actuating pneumatic cyclic devices
[NASA-CASE-XMS-04843] c 03 N69-21469
Full flow with shut off and selective drainage control valve Patent application
[NASA-CASE-ERC-10208] c 15 N70-10867
Conical valve plug Patent
[NASA-CASE-XLE-00715] c 15 N70-34859
Pressure regulating system Patent
[NASA-CASE-XNP-00450] c 15 N70-38603
Antiflutter ball check valve Patent
[NASA-CASE-XNP-01152] c 15 N70-41811
Inductive liquid level detection system Patent
[NASA-CASE-XLE-01609] c 14 N71-10500
Multiway vortex valve system Patent
[NASA-CASE-XMF-04709] c 15 N71-15609
Heated element fluid flow sensor Patent
[NASA-CASE-MSC-12084-1] c 12 N71-17569
Multiple orifice throttle valve Patent
[NASA-CASE-XNP-09698] c 15 N71-18580
Fluid flow meter with comparator reference means Patent
[NASA-CASE-XGS-01331] c 14 N71-22996
Pressure transducer calibrator Patent
[NASA-CASE-XNP-01660] c 14 N71-23036
Dual latching solenoid valve Patent
[NASA-CASE-XMS-05890] c 09 N71-23191
Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10022] c 12 N71-26546
Electrohydrodynamic control valve Patent
[NASA-CASE-NPO-10416] c 12 N71-27332
Fluid jet amplifier Patent
[NASA-CASE-XLE-09341] c 12 N71-28741
Nuclear mass flowmeter
[NASA-CASE-MFS-20485] c 14 N72-11365
Flow rate switch
[NASA-CASE-NPO-10722] c 09 N72-20199
Torsional disconnect unit
[NASA-CASE-NPO-10704] c 15 N72-20445
Capacitive tank gaging apparatus being independent of liquid distribution
[NASA-CASE-MFS-21629] c 14 N72-22442
Cryogenic feedthrough
[NASA-CASE-LAR-10031] c 15 N72-22484
Geysering inhibitor for vertical cryogenic transfer pipe
[NASA-CASE-KSC-10615] c 15 N73-12486
Pump for delivering heated fluids
[NASA-CASE-NPO-11417] c 15 N73-24513
Flow control valve --- for high temperature fluids
[NASA-CASE-NPO-11951-1] c 37 N74-21065
Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730
Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c 37 N75-19686
Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c 35 N75-30503
Filter regeneration systems --- a system for regenerating a system filter in a fluid flow line
[NASA-CASE-MSC-14273-1] c 34 N75-33342
Combined dual scatter, local oscillator laser Doppler velocimeter
[NASA-CASE-ARC-10642-1] c 36 N76-14447
Externally supported internally stabilized flexible duct joint
[NASA-CASE-MFS-19194-1] c 37 N76-14460
Vortex generator for controlling the dispersion of effluents in a flowing liquid
[NASA-CASE-LAR-12045-1] c 34 N77-24423
Pseudo-backscatter laser Doppler velocimeter employing antiparallel-reflector in the forward direction
[NASA-CASE-ARC-10970-1] c 36 N77-25501
Accumulator
[NASA-CASE-MFS-19287-1] c 34 N77-30399
Apparatus for measuring a sorbate dispersed in a fluid stream
[NASA-CASE-ARC-10896-1] c 35 N78-19465
Flow compensating pressure regulator
[NASA-CASE-LEW-12718-1] c 34 N78-25351
Fluid valve assembly
[NASA-CASE-MSC-12731-1] c 37 N78-25426
Positive isolation disconnect
[NASA-CASE-MSC-16043-1] c 37 N79-11402
Fluid velocity measuring device
[NASA-CASE-LAR-11729-1] c 34 N79-12359
Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470
Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
A two-axis, self-nulling skin friction balance
[NASA-CASE-LAR-13294-1] c 35 N85-21610
Improved fluid flow meter for measuring the rate of fluid flow in a conduit
[NASA-CASE-MFS-28030-1] c 35 N85-30286
Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195
Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N86-19611
Fluid leak indicator
[NASA-CASE-MSC-20783-1] c 35 N86-20756
Advanced vapor supply manifold
[NASA-CASE-LAR-13259-1] c 37 N86-20800

FLUID INJECTION
Apparatus for igniting solid propellants Patent
[NASA-CASE-XLE-00207] c 28 N70-33375
Method of igniting solid propellants Patent
[NASA-CASE-XLE-01988] c 27 N71-15634
Aerodynamic spike nozzle Patent
[NASA-CASE-XGS-01143] c 31 N71-15647
Process of forming particles in a cryogenic path Patent
[NASA-CASE-NPO-10250] c 23 N71-16212
Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089
Tertiary flow injection thrust vectoring system Patent
[NASA-CASE-MFS-20831] c 28 N71-29153
Programmable physiological infusion
[NASA-CASE-ARC-10447-1] c 52 N74-22771

FLUID JETS
Propeller blade loading control Patent
[NASA-CASE-XAC-00139] c 02 N70-34856

FLUID LOGIC
Logic AND gate for fluid circuits Patent
[NASA-CASE-XLA-07391] c 12 N71-17579

FLUID MECHANICS
Leak detector Patent
[NASA-CASE-LAR-10323-1] c 12 N71-17573
Parallel-plate viscometer with double diaphragm suspension
[NASA-CASE-NPO-11387] c 14 N73-14429
Modified face seal for positive film stiffness
[NASA-CASE-LEW-12989-1] c 37 N82-12442

FLUID POWER
Fluid power transmission Patent
[NASA-CASE-XMS-01445] c 12 N71-16031
Fluid power transmitting gas bearing Patent
[NASA-CASE-ERC-10097] c 15 N71-28465

FLUID PRESSURE
Flow compensating pressure regulator
[NASA-CASE-LEW-12718-1] c 34 N78-25351
Self-stabilizing radial face seal
[NASA-CASE-LEW-12991-1] c 37 N81-24442
Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] c 44 N84-14583
Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788

FLUID ROTOR GYROSCOPES
Piezoelectric pump Patent
[NASA-CASE-XNP-05429] c 26 N71-21824

FLUID SWITCHING ELEMENTS
Booster tank system Patent
[NASA-CASE-MSC-12390] c 27 N71-29155

FLUID TRANSMISSION LINES
Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21225

FLUIDIC CIRCUITS
Technique of duplicating fragile core
[NASA-CASE-XLA-07829] c 15 N72-16329
Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c 35 N75-30503

FLUIDICS
Fluidic-thermochromic display device Patent
[NASA-CASE-ERC-10031] c 12 N71-18603
Plasma fluidic hybrid display Patent
[NASA-CASE-ERC-10100] c 09 N71-33519
Fluidic proportional thruster system
[NASA-CASE-ARC-10106-1] c 28 N72-22769
Fluid pressure amplifier and system
[NASA-CASE-LAR-10868-1] c 33 N74-11050
Fluid valve assembly
[NASA-CASE-MSC-12731-1] c 37 N78-25426

FLUIDIZED BED PROCESSORS
Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154
Fluidized bed coal combustion reactor
[NASA-CASE-NPO-14273-1] c 25 N82-11144
Solar heated fluidized bed gasification system
[NASA-CASE-NPO-15071-1] c 44 N82-16475
Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401
Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253

FLUIDS
Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754
Bacteria detection instrument and method
[NASA-CASE-GSC-11533-1] c 14 N73-13435
Low outgassing polydimethylsiloxane material and preparation thereof
[NASA-CASE-GSC-11358-1] c 06 N73-26100
Fluid mass sensor for a zero gravity environment
[NASA-CASE-MSC-14653-1] c 35 N77-19385
Self-charging metering and dispensing device for fluids
[NASA-CASE-MSC-20275-1] c 35 N85-21595

FLUORESCENCE
Apparatus for producing three-dimensional recordings of flourescence spectra Patent
[NASA-CASE-XGS-01231] c 14 N70-41676
Internal work light Patent
[NASA-CASE-XKS-05932] c 09 N71-26787
Chromato-fluorographic drug detector --- device for detecting and recording fluorescent properties of materials
[NASA-CASE-ARC-10633-1] c 25 N74-26947
Fluorescence detector for monitoring atmospheric pollutants
[NASA-CASE-NPO-13231-1] c 45 N75-27585
Fluorescent radiation converter
[NASA-CASE-GSC-12528-1] c 74 N81-24900

FLUORIDES
Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710
Corrosion resistant beryllium Patent
[NASA-CASE-LEW-10327] c 17 N71-33408
Perfluoro polyether acyl fluorides
[NASA-CASE-NPO-10765] c 06 N72-20121

FLUORINATION
Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-2] c 06 N72-27151
Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098
FLUORINE
Reaction of fluorine with polyperfluoropolyenes
[NASA-CASE-NPO-10862] c 06 N72-22107
Process for the preparation of fluorine containing crosslinked elastomeric polytriazine and product so produced
[NASA-CASE-ARC-11248-1] c 27 N81-17259
FLUORINE COMPOUNDS
Fluorine-containing polyformals
[NASA-CASE-XMF-06900-1] c 27 N79-21191
Precision heat forming of tetrafluoroethylene tubing
[NASA-CASE-MSC-18430-1] c 37 N82-24491
FLUORO COMPOUNDS
New polymers of perfluorobutadiene and method of manufacture Patent application
[NASA-CASE-NPO-10863] c 06 N70-11251
Method of polymerizing perfluorobutadiene Patent application
[NASA-CASE-NPO-10447] c 06 N70-11252
Fluorohydroxy ethers
[NASA-CASE-MFS-10507] c 06 N73-30101
Highly fluorinated polymers
[NASA-CASE-MFS-11492] c 06 N73-30102
Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-1] c 06 N73-33076
Utilization of oxygen difluoride for syntheses of fluoropolymers
[NASA-CASE-NPO-12061-1] c 27 N76-16228
The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312
FLUOROCARBONS
Electrically conductive fluorocarbon polymer
[NASA-CASE-XLE-06774-2] c 06 N72-25150
FLUOROPOLYMERS
Perfluoroalkyl polytriazines containing pendent iododifluoromethyl groups
[NASA-CASE-ARC-11241-1] c 25 N81-14016
Texturing polymer surfaces by transfer casting --- cardiovascular prosthesis
[NASA-CASE-LEW-13120-1] c 27 N82-28440
Surface texturing of fluoropolymers
[NASA-CASE-LEW-13028-1] c 27 N82-33521
FLUTTER
Antiflutter ball check valve Patent
[NASA-CASE-XNP-01152] c 15 N70-41811
Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004
Decoupler pylon: wing/store flutter suppressor
[NASA-CASE-LAR-12468-1] c 08 N82-32373
Remote pivot decoupler pylon: Wing/store suppression
[NASA-CASE-LAR-13173-1] c 05 N85-19981
FLUTTER ANALYSIS
Model mount system for testing flutter
[NASA-CASE-LAR-12950-1] c 09 N84-34448
FLUX (RATE)
Two axis fluxgate magnetometer Patent
[NASA-CASE-GSC-10441-1] c 14 N71-27325
Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] c 72 N84-28575
FLUX DENSITY
Particle beam measurement apparatus using beam kinetic energy to change the heat sensitive resistance of the detection probe Patent
[NASA-CASE-XLE-00243] c 14 N70-38602
Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] c 72 N84-28575
FLUXES
Solder flux which leaves corrosion-resistant coating Patent
[NASA-CASE-XNP-03459-2] c 18 N71-15688
Soldering with solder flux which leaves corrosion resistant coating Patent
[NASA-CASE-XNP-03459] c 15 N71-21078
FLYWHEELS
Energy storage apparatus
[NASA-CASE-GSC-12030-1] c 44 N78-24608
Rotatable mass for a flywheel
[NASA-CASE-MFS-23051-1] c 37 N79-10422
Safety flywheel --- using flexible materials energy storage
[NASA-CASE-HQN-10888-1] c 44 N79-14527
Method of manufacture of bonded fiber flywheel --- fiberglass-epoxy
[NASA-CASE-MFS-23674-1] c 24 N81-29163
Bi-directional control system for energy flow in a solar powered flywheel
[NASA-CASE-MFS-25978-1] c 44 N84-32913
Three axis attitude control system
[NASA-CASE-GSC-12970-1] c 08 N86-20396
FOAMS
Foam generator Patent
[NASA-CASE-XLA-00838] c 03 N70-36778
Method for continuous variation of propellant flow and thrust in propulsive devices Patent
[NASA-CASE-XLE-00177] c 28 N70-40367
Filament wound container Patent
[NASA-CASE-XLE-03803] c 15 N71-23816
Novel polycarboxylic prepolymeric materials and polymers thereof Patent
[NASA-CASE-NPO-10596] c 06 N71-25929
Thermally activated foaming compositions Patent
[NASA-CASE-LAR-10373-1] c 18 N71-26155
Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779
Thickness measuring and injection device Patent
[NASA-CASE-MFS-20261] c 14 N71-27005
Method of making foamed materials in zero gravity
[NASA-CASE-XMF-09902] c 15 N72-11387
Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c 27 N74-12812
Intumescent composition, foamed product prepared therewith and process for making same
[NASA-CASE-ARC-10304-2] c 27 N74-27037
Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c 27 N78-31232
Ambient cure polyimide foams --- thermal resistant foams
[NASA-CASE-ARC-11170-1] c 27 N79-11215
Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33807
Insulation bonding test system
[NASA-CASE-MFS-25862-1] c 27 N85-20126
Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841
FOCI
High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898
FOCUSING
X-ray reflection collimator adapted to focus X-radiation directly on a detector Patent
[NASA-CASE-XHQ-04106] c 14 N70-40240
Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618
Petzval type objective including field shaping lens Patent
[NASA-CASE-GSC-10700] c 23 N71-30027
Absolute focus lock for microscopes
[NASA-CASE-LAR-10184] c 14 N72-22445
Electron beam controller --- using magnetic field to refocus spent electron beam in microwave oscillator tube
[NASA-CASE-LEW-11617-1] c 33 N74-10195
Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
Multiplate focusing collimator --- for scanning small near radiation sources
[NASA-CASE-MFS-20932-1] c 35 N75-19616
RF beam center location method and apparatus for power transmission system
[NASA-CASE-NPO-13821-1] c 44 N78-28594
Scanning afocal laser velocimeter projection lens system
[NASA-CASE-LAR-12328-1] c 36 N82-32712
Gyrotron transmitting tube
[NASA-CASE-LEW-13429-1] c 33 N83-31952
FOG
Anti-fog composition --- for prevention of fogging on surfaces such as space helmet visors and windshields
[NASA-CASE-MSC-13530-2] c 23 N75-14834
Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212
Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N84-32398
FOILS (MATERIALS)
Foil seal
[NASA-CASE-XLE-05130] c 15 N69-21362
Method of making an insulation foil
[NASA-CASE-LEW-11484-1] c 24 N75-33181
Partial interlaminar separation system for composites
[NASA-CASE-LAR-12065-1] c 24 N81-14000
Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235
FOLDING
Folding apparatus Patent
[NASA-CASE-XLA-00137] c 15 N70-33180
FOLDING STRUCTURES
Space and atmospheric reentry vehicle Patent
[NASA-CASE-XGS-00260] c 31 N70-37924
Collapsible loop antenna for space vehicle Patent
[NASA-CASE-XMF-00437] c 07 N70-40202
Folding boom assembly Patent
[NASA-CASE-XGS-00938] c 32 N70-41367
Foldable conduit Patent
[NASA-CASE-XLE-00620] c 32 N70-41579
Foldable solar concentrator Patent
[NASA-CASE-XLA-04622] c 03 N70-41580
Wing deployment method and apparatus Patent
[NASA-CASE-XMS-00907] c 02 N70-41630
Variable sweep aircraft Patent
[NASA-CASE-XLA-03659] c 02 N71-11041
Radiator deployment actuator Patent
[NASA-CASE-MSC-11817-1] c 15 N71-26611
Foldable construction block
[NASA-CASE-MSC-12233-1] c 15 N72-25454
Folding structure fabricated of rigid panels
[NASA-CASE-XHQ-02146] c 18 N75-27040
Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c 32 N80-29539
Foldable beam
[NASA-CASE-LAR-12077-1] c 31 N81-25259
Telescoping columns --- parabolic antenna support
[NASA-CASE-LAR-12195-1] c 31 N81-27324
Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 18 N84-16250
Latching mechanism for deployable-restowable columns
[NASA-CASE-LAR-13169-1] c 37 N84-25063
Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N84-25164
Foldable self-erecting joint --- space erectable structures
[NASA-CASE-MSC-20635-1] c 18 N84-32424
Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479
Telescoping Space Station modules
[NASA-CASE-LAR-13330-1] c 18 N86-20470
Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] c 37 N86-20789
Deployable M-braced truss structure
[NASA-CASE-LAR-13081-1] c 37 N86-20799
Sun shield
[NASA-CASE-MSC-20162-1] c 37 N86-20803
FOOD
Bacteria detection instrument and method
[NASA-CASE-GSC-11533-1] c 14 N73-13435
FOOTPRINTS
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918
FORCE
Ferrofluidic solenoid
[NASA-CASE-NPO-11738-1] c 09 N73-30185
FORCE DISTRIBUTION
Device for handling heavy loads
[NASA-CASE-XNP-04969] c 11 N69-27466
Two force component measuring device Patent
[NASA-CASE-XAC-04886-1] c 14 N71-20439
Tensile strength testing device Patent
[NASA-CASE-XNP-05634] c 15 N71-24834
Impact monitoring apparatus
[NASA-CASE-MSC-15626-1] c 14 N72-25411
Variable direction force coupler
[NASA-CASE-MFS-20317] c 15 N73-13463
Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329
FORCED VIBRATION
Seismic vibration source
[NASA-CASE-NPO-14112-1] c 46 N79-22679
FOREBODIES
Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968
FORMALDEHYDE
Synthesis of polyformals
[NASA-CASE-ARC-11244-1] c 23 N82-16174
Synthesis of 2,4,8,10-tetroxaspiro5,5undecane
[NASA-CASE-ARC-11243-2] c 23 N85-33187
FORMAT
Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751
FORMATES
Fluorine containing polyurethane
[NASA-CASE-MFS-10509] c 06 N73-30103
FORMING TECHNIQUES
Wire grid forming apparatus Patent
[NASA-CASE-XLE-00023] c 15 N70-33330
Method for forming plastic materials Patent
[NASA-CASE-XMS-05516] c 15 N71-17803
Method of making tubes Patent
[NASA-CASE-XGS-04175] c 15 N71-18579

Magnetomotive metal working device Patent
[NASA-CASE-XMF-03793] c 15 N71-24833
Apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917-2] c 15 N71-24836
Method of forming shapes from planar sheets of thermosetting materials
[NASA-CASE-NPO-11036] c 15 N72-24522
Method of heat treating a formed powder product material
[NASA-CASE-LEW-10805-3] c 26 N74-10521
Molding apparatus --- for thermosetting plastic compositions
[NASA-CASE-LAR-10489-2] c 31 N74-32920
Process for making sheets with parallel pores of uniform size
[NASA-CASE-GSC-10984-1] c 37 N75-26371
Drilled ball bearing with a one piece anti-tipping cage assembly
[NASA-CASE-LEW-11925-1] c 37 N75-31446
Apparatus for forming dished ion thruster grids
[NASA-CASE-LEW-11694-2] c 37 N76-14461
Acoustic energy shaping
[NASA-CASE-NPO-13802-1] c 71 N78-10837
Method of forming metal hydride films
[NASA-CASE-LEW-12083-1] c 37 N78-13436
Method of producing complex aluminum alloy parts of high temper, and products thereof
[NASA-CASE-MSC-19693-1] c 26 N78-24333
Solar cell with improved N-region contact and method of forming the same
[NASA-CASE-NPO-14205-1] c 44 N79-31752
Method and apparatus for producing concentric hollow spheres --- inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319
Precision heat forming of tetrafluoroethylene tubing
[NASA-CASE-MSC-18430-1] c 37 N82-24491
Sphere forming method and apparatus
[NASA-CASE-NPO-15070-1] c 31 N83-35176

FOSSIL FUELS
Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] c 25 N84-22709

FOUNDATIONS
Expansible support means
[NASA-CASE-NPO-11059] c 15 N72-17454
Adjustable securing base
[NASA-CASE-MSC-19666-1] c 37 N78-17383

FOURIER TRANSFORMATION
Continuous Fourier transform method and apparatus --- for the analysis of simultaneous analog signal components
[NASA-CASE-ARC-10466-1] c 60 N75-13539

FRACTIONATION
Method and apparatus for distillation of liquids Patent
[NASA-CASE-XNP-08124] c 15 N71-27184
Electrophoretic fractional elution apparatus employing a rotational seal fraction collector
[NASA-CASE-MFS-23284-1] c 37 N80-14397
Electrophoresis device
[NASA-CASE-MFS-25426-1] c 25 N83-10126
A spillage detector for liquid chromatography systems
[NASA-CASE-MSC-20206-1] c 25 N83-29325

FRACTURE MECHANICS
Apparatus for positioning and loading a test specimen Patent
[NASA-CASE-XLE-01300] c 15 N70-41993

FRACTURE STRENGTH
Process for making a high toughness-high strength ion alloy
[NASA-CASE-LEW-12542-2] c 26 N79-22271
High toughness-high strength iron alloy
[NASA-CASE-LEW-12542-3] c 26 N80-32484
Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235
Process of end-capping a polyimide system
[NASA-CASE-LAR-13135-1] c 27 N86-19456

FRAMES
Articulated multiple couch assembly Patent
[NASA-CASE-MSC-11253] c 05 N71-12343
Soft frame adjustable eyeglasses Patent
[NASA-CASE-XMS-06064] c 05 N71-23096
Expandable space frames
[NASA-CASE-ERC-10365-1] c 31 N73-32749
Laser measuring system for incremental assemblies --- measuring wire-wrapped frame assemblies in spark chambers
[NASA-CASE-GSC-12321-1] c 36 N82-16396
Inorganic spark chamber frame and method of making the same
[NASA-CASE-GSC-12354-1] c 35 N82-24471

FRAMING CAMERAS
High speed photo-optical time recording
[NASA-CASE-KSC-10294] c 14 N72-18411

FREE FLIGHT TEST APPARATUS
Support apparatus for dynamic testing Patent
[NASA-CASE-XMF-01772] c 11 N70-41677
Hydraulic support for dynamic testing Patent
[NASA-CASE-XMF-03248] c 11 N71-10604
Test unit free-flight suspension system Patent
[NASA-CASE-XLA-00939] c 11 N71-15926

FREE FLOW
Solid sorbent air sampler
[NASA-CASE-MSC-20653-1] c 35 N85-20301

FREE WING AIRCRAFT
Free wing assembly for an aircraft
[NASA-CASE-FRC-10092-1] c 05 N79-12061

FREEZE DRYING
Modification of the physical properties of freeze-dried rice
[NASA-CASE-MSC-13540-1] c 05 N72-33096

FREEZING
System for and method of freezing biological tissue
[NASA-CASE-GSC-12173-1] c 51 N79-10694
Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442

FREON
Solar energy power system --- using Freon
[NASA-CASE-MFS-21628-1] c 44 N75-32581

FREQUENCIES
Controlled oscillator system with a time dependent output frequency
[NASA-CASE-NPO-11962-1] c 33 N74-10194
High efficiency multifrequency feed
[NASA-CASE-GSC-11909] c 32 N74-20863
Temperature sensitive oscillator
[NASA-CASE-GSC-12958-1] c 33 N85-30201

FREQUENCY ANALYZERS
Digital frequency discriminator Patent
[NASA-CASE-MFS-14322] c 08 N71-18692
Broadband frequency discriminator Patent
[NASA-CASE-NPO-10096] c 07 N71-24583
Audio frequency marker system
[NASA-CASE-NPO-11147] c 14 N72-27408
Continuous Fourier transform method and apparatus --- for the analysis of simultaneous analog signal components
[NASA-CASE-ARC-10466-1] c 60 N75-13539
Frequency discriminator and phase detector circuit
[NASA-CASE-NPO-11515-1] c 33 N77-13315

FREQUENCY CONTROL
Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00458] c 09 N70-38604
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00131] c 09 N70-38995
Automatic frequency discriminators and control for a *phase-lock loop providing frequency preset capabilities* Patent
[NASA-CASE-XMF-08665] c 10 N71-19467
Linear accelerator frequency control system Patent
[NASA-CASE-XGS-05441] c 10 N71-22962
Tuning arrangement for an electron discharge device or the like Patent
[NASA-CASE-XNP-09771] c 09 N71-24841
Low loss dichroic plate
[NASA-CASE-NPO-13171-1] c 32 N74-11000
Automatic frequency control for FM transmitter
[NASA-CASE-MFS-21540-1] c 32 N74-19790
Acoustically controlled distributed feedback laser
[NASA-CASE-NPO-13175-1] c 36 N75-31427
Reflex feed system for dual frequency antenna with frequency cutoff means
[NASA-CASE-NPO-14022-1] c 32 N78-31321
Cam-operated pitch-change apparatus
[NASA-CASE-LEW-13050-1] c 07 N79-14095
Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349
High stability buffered phase comparator
[NASA-CASE-GSC-12645-1] c 33 N84-16454
Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943
Automatic oscillator frequency control system
[NASA-CASE-GSC-12804-1] c 33 N86-20668

FREQUENCY CONVERTERS
Frequency to analog converter Patent
[NASA-CASE-XNP-07040] c 08 N71-12500
Static inverters which sum a plurality of waves Patent
[NASA-CASE-XMF-00663] c 08 N71-18752
Voltage to frequency converter Patent
[NASA-CASE-GSC-10022-1] c 10 N71-25882
Family of frequency to amplitude converters
[NASA-CASE-MSC-12395] c 09 N72-25257
Variable frequency inverter for ac induction motors with torque, speed and braking control
[NASA-CASE-MFS-22088-1] c 33 N75-15874

FREQUENCY DISCRIMINATORS
PN lock indicator for dithered PN code tracking loop
[NASA-CASE-NPO-14435-1] c 33 N81-33405
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N86-20679

FREQUENCY DISTRIBUTION
Antenna system using parasitic elements and two driven elements at 90 deg angle fed 180 deg out of phase Patent
[NASA-CASE-XLA-00414] c 07 N70-38200
Variable frequency oscillator with temperature compensation Patent
[NASA-CASE-XNP-03916] c 09 N71-28810
Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323

FREQUENCY DIVIDERS
Low phase noise digital frequency divider
[NASA-CASE-NPO-11569] c 10 N73-26229
Technique for extending the frequency range of digital *dividers*
[NASA-CASE-LAR-10730-1] c 33 N74-10223
Symmetrical odd-modulus frequency divider
[NASA-CASE-NPO-13426-1] c 33 N75-31330
Electronic analog divider
[NASA-CASE-LEW-11881-1] c 33 N77-17354

FREQUENCY DIVISION MULTIPLEXING
Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c 07 N71-24621
Frequency division multiplex technique
[NASA-CASE-KSC-10521] c 07 N73-20176

FREQUENCY MEASUREMENT
Measurement system
[NASA-CASE-MFS-20658-1] c 14 N73-30386
Frequency measurement by coincidence detection with standard frequency
[NASA-CASE-MSC-14649-1] c 33 N76-16331
Time domain phase measuring apparatus
[NASA-CASE-GSC-12228-1] c 33 N79-10338

FREQUENCY MODULATION
Accelerometer with FM output Patent
[NASA-CASE-XLA-00492] c 14 N70-34799
Means for generating a sync signal in an FM communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11281
Bi-carrier demodulator with modulation Patent
[NASA-CASE-XMF-01160] c 07 N71-11298
Optical tracker having overlapping reticles on parallel axes Patent
[NASA-CASE-XGS-05715] c 23 N71-16100
Atomic hydrogen maser with bulb temperature control to remove wall shift in maser output frequency
[NASA-CASE-HQN-10654-1] c 16 N73-13489
Junction range finder
[NASA-CASE-KSC-10108] c 14 N73-25461
Automatic frequency control for FM transmitter
[NASA-CASE-MFS-21540-1] c 32 N74-19790
Symmetrical odd-modulus frequency divider
[NASA-CASE-NPO-13426-1] c 33 N75-31330
Frequency modulated oscillator
[NASA-CASE-MFS-23181-1] c 33 N77-17351
FM/CW radar system
[NASA-CASE-MFS-22234-1] c 32 N79-10264
Thickness measurement system
[NASA-CASE-MFS-23721-1] c 31 N79-28370
Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510
Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227

FREQUENCY MULTIPLIERS
Multiple varactor frequency doubler Patent
[NASA-CASE-XMF-04958-1] c 10 N71-26414
Open loop digital frequency multiplier
[NASA-CASE-MSC-12709-1] c 33 N77-24375

FREQUENCY RANGES
Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964
Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266
Technique for extending the frequency range of digital dividers
[NASA-CASE-LAR-10730-1] c 33 N74-10223
Multichannel logarithmic RF level detector
[NASA-CASE-LAR-11021-1] c 32 N76-14321
Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-1] c 32 N79-19195

FREQUENCY SCANNING
Automatic communication signal monitoring system
[NASA-CASE-NPO-13941-1] c 32 N79-10262
Frequency-scanning particle size spectrometer
[NASA-CASE-NPO-13606-2] c 35 N80-18364
Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341

FREQUENCY SHIFT
Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978
Serrodyne frequency converter re-entrant amplifier system Patent
[NASA-CASE-XGS-01022] c 07 N71-16088
Elimination of frequency shift in a multiplex communication system Patent
[NASA-CASE-XNP-01306] c 07 N71-20814
Laser fluid velocity detector Patent
[NASA-CASE-XAC-10770-1] c 16 N71-24828
Laser Doppler velocity simulator --- to induce frequency shift
[NASA-CASE-LAR-12176-1] c 36 N80-16321
FREQUENCY SHIFT KEYING
Frequency shift keyed demodulator Patent
[NASA-CASE-XGS-02889] c 07 N71-11282
Frequency shift keying apparatus Patent
[NASA-CASE-XGS-01537] c 07 N71-23405
A single frequency multitransmitter telemetry system
[NASA-CASE-LAR-13006-1] c 17 N83-20995
FREQUENCY STABILITY
Method and apparatus for stabilizing a gaseous optical maser Patent
[NASA-CASE-XGS-03644] c 16 N71-18614
Broadband stable power multiplier Patent
[NASA-CASE-XNP-10854] c 10 N71-26331
FREQUENCY STANDARDS
Method of resolving clock synchronization error and means therefor Patent
[NASA-CASE-XNP-08875] c 10 N71-23099
Atomic standard with variable storage volume
[NASA-CASE-GSC-11895-1] c 35 N76-15436
Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323
External bulb variable volume maser
[NASA-CASE-GSC-12334-1] c 36 N79-14362
Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186
FREQUENCY SYNCHRONIZATION
Pseudonoise (PN) synchronization of data system with derivation of clock frequency from received signal for clocking receiver PN generator
[NASA-CASE-XNP-03623] c 09 N73-28084
Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323
System for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c 32 N79-20296
FREQUENCY SYNTHESIZERS
Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525
System for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c 32 N79-20296
Method for shaping and aiming narrow beams --- sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443
Reactanceless synthesized impedance bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N85-29145
JFET reflection socillator
[NASA-CASE-GSC-12555-1] c 33 N86-19515
FRICTION
Refractory coatings
[NASA-CASE-LEW-13169-2] c 26 N82-30371
Thumb actuated two axis controller
[NASA-CASE-ARC-11372-1] c 08 N83-12098
Missile rolling tail brake torque system --- simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231
FRICTION DRAG
Combined riblet and LEBU drag reduction system
[NASA-CASE-LAR-13286-1] c 02 N85-28922
FRICTION FACTOR
Self-lubricating gears and other mechanical parts Patent
[NASA-CASE-MFS-14971] c 15 N71-24984
Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] c 37 N84-12492
FRICTION MEASUREMENT
Friction measuring apparatus Patent
[NASA-CASE-XNP-08680] c 14 N71-22995
Static coefficient test method and apparatus
[NASA-CASE-GSC-11893-1] c 35 N76-31489
A two-axis, self-nulling skin friction balance
[NASA-CASE-LAR-13294-1] c 35 N85-21610
FRICTION REDUCTION
Low friction magnetic recording tape Patent
[NASA-CASE-XGS-00373] c 23 N71-15978
Production of hollow components for rolling element bearings by diffusion welding
[NASA-CASE-LEW-11026-1] c 15 N73-33383
FRICTIONLESS ENVIRONMENTS
Air bearing Patent
[NASA-CASE-XMF-01887] c 15 N71-10617
Air cushion lift pad Patent
[NASA-CASE-MFS-14685] c 31 N71-15689
Method and apparatus of simulating zero gravity conditions Patent
[NASA-CASE-MFS-12750] c 27 N71-16223
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Insulating structure Patent
[NASA-CASE-XMF-00341] c 15 N70-33323
Device for determining frost depth and density
[NASA-CASE-NFS-25754-1] c 35 N84-28018
FUEL CAPSULES
Acoustic suspension system
[NASA-CASE-NPO-15435-1] c 71 N83-36846
FUEL CELL POWER PLANTS
Reactant pressure differential control for fuel cell gases
[NASA-CASE-MSC-20127-2] c 37 N85-34403
FUEL CELLS
Method of making membranes
[NASA-CASE-XNP-04264] c 03 N69-21337
Combined electrolysis device and fuel cell and method of operation Patent
[NASA-CASE-XLE-01645] c 03 N71-20904
Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
Ion-exchange membrane with platinum electrode assembly Patent
[NASA-CASE-XMS-02063] c 03 N71-29044
Reconstituted asbestos matrix --- for use in fuel or electrolysis cells
[NASA-CASE-MSC-12568-1] c 24 N76-14204
Dual membrane hollow fiber fuel cell and method of operating same
[NASA-CASE-NPO-13732-1] c 44 N79-10513
Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734
Reactant pressure differential control for fuel cell gases
[NASA-CASE-MSC-20127-2] c 37 N85-34403
FUEL COMBUSTION
Fuel combustor
[NASA-CASE-LEW-12137-1] c 25 N78-10224
Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958
FUEL CONSUMPTION
Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389
FUEL CONTROL
Attitude and propellant flow control system and method Patent
[NASA-CASE-XMF-00185] c 21 N70-34539
Flexible ring slosh damping baffle Patent
[NASA-CASE-LAR-10317-1] c 32 N71-16103
Buoyant anti-slosh system Patent
[NASA-CASE-XLA-04605] c 32 N71-16106
Control valve and co-axial variable injector Patent
[NASA-CASE-XNP-09702] c 15 N71-17654
Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c 15 N71-27432
Gas turbine engine fuel control
[NASA-CASE-LEW-11187-1] c 28 N73-19793
Automotive gas turbine fuel control
[NASA-CASE-LEW-12785-1] c 37 N78-24545
Electrical servo actuator bracket --- fuel control valves on jet engines
[NASA-CASE-FRC-11044-1] c 37 N81-33483
Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958
FUEL FLOW
System for preconditioning a combustible vapor
[NASA-CASE-NPO-12072] c 28 N72-22772
FUEL FLOW REGULATORS
Two-step rocket engine bipropellant valve Patent
[NASA-CASE-XMS-04890-1] c 15 N70-22192
Passively regulated water electrolysis rocket engine Patent
[NASA-CASE-XGS-08729] c 28 N71-14044
Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12830-1] c 07 N77-23106
FUEL GAGES
Response analyzers for sensors Patent
[NASA-CASE-MFS-11204] c 14 N71-29134
FUEL INJECTION
Injector-valve device Patent
[NASA-CASE-XLE-00303] c 15 N70-36535
Rocket engine injector Patent
[NASA-CASE-XLE-00111] c 28 N70-38199
Injector assembly for liquid fueled rocket engines Patent
[NASA-CASE-XMF-00968] c 28 N71-15660
Injection head for delivering liquid fuel and oxidizers
[NASA-CASE-NPO-10046] c 28 N72-17843
Injector for use in high voltage isolators for liquid feed lines
[NASA-CASE-NPO-11377] c 15 N73-27406
Supercritical fuel injection system
[NASA-CASE-LEW-12990-1] c 07 N81-29129
Low thrust monopropellant engine
[NASA-CASE-GSC-12194-2] c 20 N82-18314
Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958
FUEL OILS
Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12830-1] c 07 N77-23106
FUEL PUMPS
Fuel injection pump for internal combustion engines Patent
[NASA-CASE-MSC-12139-1] c 28 N71-14058
FUEL SYSTEMS
Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781
System for preconditioning a combustible vapor
[NASA-CASE-NPO-12072] c 28 N72-22772
Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c 20 N74-13502
Fuel combustor
[NASA-CASE-LEW-12137-1] c 25 N78-10224
Fuel delivery system including heat exchanger means
[NASA-CASE-LEW-12793-1] c 37 N79-11403
Supercritical fuel injection system
[NASA-CASE-LEW-12990-1] c 07 N81-29129
Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029
Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389
FUEL TANK PRESSURIZATION
Venting vapor apparatus Patent
[NASA-CASE-XLE-00288] c 15 N70-34247
Automatic pump Patent
[NASA-CASE-XNP-04731] c 15 N71-24042
Propellant tank pressurization system Patent
[NASA-CASE-XNP-00650] c 27 N71-28929
FUEL TANKS
Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
Flexible ring slosh damping baffle Patent
[NASA-CASE-LAR-10317-1] c 32 N71-16103
Buoyant anti-slosh system Patent
[NASA-CASE-XLA-04605] c 32 N71-16106
Instrument for measuring the dynamic behavior of liquids Patent
[NASA-CASE-XLA-05541] c 12 N71-26387
Electrical apparatus for detection of thermal decomposition of insulation Patent
[NASA-CASE-XMF-03968] c 14 N71-27186
High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523
Tanker orbit transfer vehicle and method
[NASA-CASE-MSC-20543-1] c 18 N84-22610
Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841
FUEL VALVES
Injector-valve device Patent
[NASA-CASE-XLE-00303] c 15 N70-36535
Semitoroidal diaphragm cavitating valve Patent
[NASA-CASE-XNP-09704] c 12 N71-18615
Filler valve Patent
[NASA-CASE-XNP-01747] c 15 N71-23024
Combination automatic-starting electrical plasma torch and gas shutoff valve --- for satellite attitude control
[NASA-CASE-XLE-10717] c 37 N75-29426
FUEL-AIR RATIO
Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195
FUELS
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103
FUNCTION GENERATORS
Line following servosystem Patent
[NASA-CASE-XAC-00001] c 15 N71-28952
Digital quasi-exponential function generator
[NASA-CASE-NPO-11130] c 08 N72-20176
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-10503-1] c 09 N72-21248
Function generator for synthesizing complex vibration mode patterns
[NASA-CASE-LAR-10310-1] c 10 N73-20253
Derivation of a tangent function using an integrated circuit four-quadrant multiplier
[NASA-CASE-MSC-13907-1] c 10 N73-26230

FURLABLE ANTENNAS
Unfurlable structure including coiled strips thrust launched upon tension release Patent
[NASA-CASE-HQN-00937] c 07 N71-28979
Singly-curved reflector for use in high-gain antennas
[NASA-CASE-NPO-11361] c 07 N72-32169
Furlable antenna --- antenna design
[NASA-CASE-NPO-13553-1] c 33 N76-32457
FURNACES
High-speed infrared furnace
[NASA-CASE-XLE-10466] c 17 N69-25147
Black-body furnace Patent
[NASA-CASE-XLE-01399] c 33 N71-15625
Induction furnace with perforated tungsten foil shielding Patent
[NASA-CASE-XLE-04026] c 14 N71-23267
High temperature furnace for melting materials in space
[NASA-CASE-MFS-20710] c 11 N72-23215
High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c 35 N76-24523
Exothermic furnace module
[NASA-CASE-MFS-25707-1] c 35 N82-26631
Apparatus and method for heating a material in a transparent ampoule --- crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220
FUSELAGES
Fuselage structure using advanced technology fiber reinforced composites
[NASA-CASE-LAR-11688-1] c 24 N82-26384
Adapter for mounting a microphone flush with the external surface of the skin of a pressurized aircraft
[NASA-CASE-FRC-11072-1] c 05 N83-27975
Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400
FUSION (MELTING)
Bonding graphite with fused silver chloride
[NASA-CASE-XGS-00963] c 15 N69-39735
Method for fiberizing ceramic materials Patent
[NASA-CASE-XNP-00597] c 18 N71-23088
One-step dual purpose joining technique
[NASA-CASE-LAR-12595-1] c 33 N82-26571
Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] c 27 N84-22748
Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] c 35 N84-22930
Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083
FUSION WELDING
Method for producing a solar cell having an integral protective covering
[NASA-CASE-XGS-04531] c 03 N69-24267
Weld control system using thermocouple wire Patent
[NASA-CASE-MFS-06074] c 15 N71-20393
Butt welder for fine gauge tungsten/rhenium thermocouple wire
[NASA-CASE-LAR-10103-1] c 15 N73-14468
Diffusion welding in air --- solid state welding of butt joint by fusion welding, surface cleaning, and heating
[NASA-CASE-LEW-11387-1] c 37 N74-18128

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Method of making a silicon semiconductor device Patent
[NASA-CASE-XLE-02792] c 26 N71-10607
Gd or Sm doped silicon semiconductor composition Patent
[NASA-CASE-XLE-10715] c 26 N71-23292
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Reed-Solomon decoder --- applicable to Galileo Project requirements
[NASA-CASE-NPO-15982-1] c 60 N85-20680
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Floating two force component measuring device Patent
[NASA-CASE-XAC-04885] c 14 N71-23790
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[NASA-CASE-XNP-01328] c 26 N71-18064
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[NASA-CASE-XNP-01960] c 09 N71-23027
Method of changing the conductivity of vapor deposited gallium arsenide by the introduction of water into the vapor deposition atmosphere Patent
[NASA-CASE-XNP-01961] c 26 N71-29156
Vapor phase growth of groups 3-5 compounds by hydrogen chloride transport of the elements
[NASA-CASE-LAR-11144-1] c 25 N75-26043
Vapor deposition apparatus --- semiconductors and gallium arsenides
[NASA-CASE-HQN-10462] c 25 N75-29192
Low stress semiconductor-insulator interface for cryogenic device applications
[NASA-CASE-NPO-16394-1] c 76 N85-20906
GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150
GALVANIC SKIN RESPONSE
Method and apparatus for attaching physiological monitoring electrodes Patent
[NASA-CASE-XFR-07658-1] c 05 N71-26293
GAMMA RAY SPECTROMETERS
Low intensity X-ray and gamma-ray spectrometer
[NASA-CASE-GSC-12587-1] c 35 N82-32659
Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279
GAMMA RAYS
Compton scatter attenuation gamma ray spectrometer
[NASA-CASE-MFS-21441-1] c 14 N73-30392
Low intensity X-ray and gamma-ray imaging device --- fiber optics
[NASA-CASE-GSC-12263-1] c 74 N79-20857
Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] c 74 N84-11920
Three-dimensional and tomographic imaging device for X-ray and gamma-ray emitting objects
[NASA-CASE-GSC-12851-1] c 35 N85-30281
GANTRY CRANES
Mechanically extendible telescoping boom
[NASA-CASE-NPO-11118] c 03 N72-25021
GAPS
Electromagnetic transducer recording head having a laminated core section and tapered gap
[NASA-CASE-NPO-10711-1] c 35 N77-21392
Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
GARMENTS
Biomedical electrode arrangement Patent
[NASA-CASE-XFR-10856] c 05 N71-11189
Flexible joint for pressurizable garment
[NASA-CASE-MSC-11072] c 54 N74-32546
Spacesuit torso closure
[NASA-CASE-ARC-11100-1] c 54 N78-31736
Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740
Thermal garment
[NASA-CASE-XMS-03694-1] c 54 N82-29002
GAS ANALYSIS
Gas analyzer for bi-gaseous mixtures Patent
[NASA-CASE-XLA-01131] c 14 N71-10774
Microbalance including crystal oscillators for measuring contaminates in a gas system Patent
[NASA-CASE-NPO-10144] c 14 N71-17701
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[NASA-CASE-XNP-01056] c 14 N71-23041
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[NASA-CASE-LAR-10305] c 14 N71-26137
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[NASA-CASE-ERC-10014] c 14 N71-28863
Nondispersive gas analyzing method and apparatus wherein radiation is serially passed through a reference and unknown gas
[NASA-CASE-ARC-10308-1] c 06 N72-31141
Method and apparatus for determining the contents of contained gas samples
[NASA-CASE-GSC-10903-1] c 14 N73-12444
Coaxial anode wire for gas radiation counters
[NASA-CASE-GSC-11492-1] c 35 N74-26949
Fast scan control for deflection type mass spectrometers
[NASA-CASE-LAR-11428-1] c 35 N74-34857
NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
[NASA-CASE-ARC-10802-1] c 35 N75-30502
Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656
Nulling device for detection of trace gases by NDIR absorption
[NASA-CASE-ARC-10760-1] c 25 N76-22323
Analysis of volatile organic compounds --- trace amounts of organic volatiles in gas samples
[NASA-CASE-MSC-14428-1] c 23 N77-17161
Fluid sampling device
[NASA-CASE-GSC-12143-1] c 35 N77-32456
Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015
Stark effect spectrophone for continuous absorption spectra monitoring --- a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159
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Omnidirectional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c 31 N71-16085
GAS BEARINGS
Externally pressurized fluid bearing Patent
[NASA-CASE-XMF-00515] c 15 N70-34664
Slit regulated gas journal bearing Patent
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Air bearing Patent
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Fluid power transmission Patent
[NASA-CASE-XMS-01445] c 12 N71-16031
Bismuth-lead coatings for gas bearings used in atmospheric environments and vacuum chambers Patent
[NASA-CASE-XGS-02011] c 15 N71-20739
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[NASA-CASE-ERC-10097] c 15 N71-28465
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[NASA-CASE-GSC-11551-1] c 37 N76-18459
Thrust bearing
[NASA-CASE-LEW-11949-1] c 37 N76-29588
Cantilever mounted resilient pad gas bearing
[NASA-CASE-LEW-12569-1] c 37 N79-10418
Compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] c 37 N86-19606
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Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N69-39936
Baseline stabilization system for ionization detector Patent
[NASA-CASE-XNP-03128] c 10 N70-41991
Procedure and apparatus for determination of water in nitrogen tetroxide
[NASA-CASE-NPO-10234] c 06 N72-17094
Analysis of hydrogen-deuterium mixtures
[NASA-CASE-NPO-11322] c 06 N72-25146
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[NASA-CASE-HQN-10756-1] c 14 N72-25428
Method and apparatus for determining the contents of contained gas samples
[NASA-CASE-GSC-10903-1] c 14 N73-12444
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Chelate-modified polymers for atmospheric gas chromatography
[NASA-CASE-ARC-11154-1] c 25 N80-23383
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Method and means for helium/hydrogen ratio measurement by alpha scattering
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Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
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Moisture content and gas sampling device
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GAS COOLED REACTORS
Gas core nuclear reactor Patent
[NASA-CASE-LEW-10250-1] c 22 N71-28759
GAS COOLING
Refrigeration apparatus
[NASA-CASE-NPO-10309] c 15 N69-23190
Gas cooled high temperature thermocouple Patent
[NASA-CASE-XLE-09475-1] c 33 N71-15568
Apparatus and method for heating a material in a transparent ampoule --- crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220
GAS DENSITY
Dynamic sensor Patent
[NASA-CASE-XAC-02877] c 14 N70-41681
Method for measuring the characteristics of a gas Patent
[NASA-CASE-XLA-03375] c 16 N71-24074
Device for measuring light scattering wherein the measuring beam is successively reflected between a pair of parallel reflectors Patent
[NASA-CASE-XER-11203] c 14 N71-28994
Gaseous control system for nuclear reactors
[NASA-CASE-XLE-04599] c 22 N72-20597
Method of producing crystalline materials
[NASA-CASE-NPO-10440] c 15 N72-21466
Wide range dynamic pressure sensor
[NASA-CASE-ARC-10263-1] c 14 N72-22438
Apparatus for absolute pressure measurement
[NASA-CASE-LAR-10000] c 14 N73-30394

Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector --- for determining density of gas
[NASA-CASE-ARC-10631-1] c 74 N76-20958
Method and apparatus for convection control of metallic halide vapor density in a metallic halide laser
[NASA-CASE-NPO-15021-1] c 36 N83-10417

GAS DETECTORS
Method for detecting hydrogen gas
[NASA-CASE-XMF-03873] c 06 N69-39733
Hydrogen leak detection device Patent
[NASA-CASE-MFS-11537] c 14 N71-20442
Leak detector wherein a probe is monitored with ultraviolet radiation Patent
[NASA-CASE-ERC-10034] c 15 N71-24896
Miniature carbon dioxide sensor and methods
[NASA-CASE-MSC-13332-1] c 14 N72-21408
Fluorescence detector for monitoring atmospheric pollutants
[NASA-CASE-NPO-13231-1] c 45 N75-27585
Carbon monoxide monitor --- using real time operation
[NASA-CASE-MFS-22060-1] c 35 N75-29380
Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector --- for determining density of gas
[NASA-CASE-ARC-10631-1] c 74 N76-20958
Indicator providing continuous indication of the presence of a specific pollutant in air
[NASA-CASE-NPO-13474-1] c 45 N76-21742
Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c 35 N76-22509
Cryogenic liquid sensor
[NASA-CASE-NPO-10619-1] c 35 N77-21393
Optically selective, acoustically resonant gas detecting transducer
[NASA-CASE-ARC-10639-1] c 35 N78-13400
Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015
Stark effect spectrophone for continuous absorption spectra monitoring --- a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159
Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N85-21631

GAS DISCHARGE TUBES
Self-repeating plasma generator having communicating annular and linear arc discharge passages Patent
[NASA-CASE-XLA-03103] c 25 N71-21693

GAS DISCHARGES
Parametric microwave noise generator Patent
[NASA-CASE-XER-11019] c 09 N71-23598
Multiplex electric discharge gas laser system
[NASA-CASE-NPO-16433-1] c 36 N86-20778

GAS EVOLUTION
Filter system for control of outgas contamination in vacuum Patent
[NASA-CASE-MFS-14711] c 15 N71-26185

GAS EXPANSION
Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051
Refrigeration apparatus Patent
[NASA-CASE-XNP-08877] c 15 N71-23025
Gas operated actuator
[NASA-CASE-NPO-11340] c 15 N72-33477

GAS FLOW
Fluid flow restrictor Patent
[NASA-CASE-NPO-10117] c 15 N71-15608
High pressure gas filter system Patent
[NASA-CASE-MFS-12806] c 14 N71-17588
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[NASA-CASE-MFS-12915] c 11 N71-17600
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[NASA-CASE-XMF-01779] c 12 N71-20815
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[NASA-CASE-FRC-10012] c 14 N72-17329
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[NASA-CASE-NPO-12109] c 11 N72-22245
Fluidic proportional thruster system
[NASA-CASE-ARC-10106-1] c 28 N72-22769
Gas filter mounting structure
[NASA-CASE-MSC-12297] c 14 N72-23457
Pressurized lighting system
[NASA-CASE-KSC-10644] c 09 N72-27227
Method for controlling vapor content of a gas
[NASA-CASE-NPO-10633] c 03 N72-28025
Gas flow control device
[NASA-CASE-NPO-11479] c 15 N73-13462
Compact hydrogenator
[NASA-CASE-NPO-11682-1] c 35 N74-15127
Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730
Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c 77 N75-20139
Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c 35 N75-30503
Gas compression apparatus
[NASA-CASE-MSC-14757-1] c 35 N78-10428
Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c 37 N78-17384
Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N82-33681
Covering solid, film cooled surfaces with a duplex thermal barrier coating
[NASA-CASE-LEW-13450-1] c 31 N83-35177
Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] c 35 N84-17555
Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] c 34 N85-33433
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[NASA-CASE-LAR-13220-1] c 34 N86-12547

GAS GENERATORS
Specialized halogen generator for purification of water Patent
[NASA-CASE-XLA-08913] c 14 N71-28933
Quick disconnect coupling
[NASA-CASE-NPO-11202] c 15 N72-25450
Electrolytic gas operated actuator
[NASA-CASE-NPO-11369] c 15 N73-13467
Vortex breech high pressure gas generator
[NASA-CASE-LAR-10549-1] c 31 N73-13898
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-1] c 37 N76-16446
Hydrogen-rich gas generator
[NASA-CASE-NPO-13464-1] c 44 N76-18642
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c 44 N76-29700
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[NASA-CASE-NPO-13464-2] c 44 N76-29704
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[NASA-CASE-NPO-13560-1] c 44 N77-10636

GAS GUNS
Electric arc device for heating gases Patent
[NASA-CASE-XAC-00319] c 25 N70-41628

GAS HEATING
Bimetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c 35 N74-15126

GAS INJECTION
Burning rate control of solid propellants Patent
[NASA-CASE-XLE-03494] c 27 N71-21819
Compact hydrogenator
[NASA-CASE-NPO-11682-1] c 35 N74-15127
Gas chromatograph injection system
[NASA-CASE-ARC-10344-2] c 35 N75-26334
In-situ laser retorting of oil shale
[NASA-CASE-LEW-12217-1] c 43 N78-14452
Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
Ozonation of cooling tower waters
[NASA-CASE-NPO-14340-1] c 45 N80-14579

GAS IONIZATION
Electrostatic plasma modulator for space vehicle re-entry communication Patent
[NASA-CASE-XLA-01400] c 07 N70-41331
A multichannel photoionization chamber for absorption analysis Patent
[NASA-CASE-ERC-10044-1] c 14 N71-27090
Modulated hydrogen ion flame detector
[NASA-CASE-ARC-10322-1] c 35 N76-18403
Gas ion laser construction for electrically isolating the pressure gauge thereof
[NASA-CASE-MFS-22597] c 36 N78-17366
Charge transfer reaction laser with preionization means
[NASA-CASE-NPO-13945-1] c 36 N78-27402
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[NASA-CASE-LEW-12940-1] c 72 N80-33186

GAS JETS
Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 37 N85-21652

GAS LASERS
Method and apparatus for stabilizing a gaseous optical maser Patent
[NASA-CASE-XGS-03644] c 16 N71-18614
Inert gas metallic vapor laser
[NASA-CASE-NPO-13449-1] c 36 N75-32441
Diffused waveguiding capillary tube with distributed feedback for a gas laser
[NASA-CASE-NPO-13544-1] c 36 N76-18428
Gas ion laser construction for electrically isolating the pressure gauge thereof
[NASA-CASE-MFS-22597] c 36 N78-17366
Charge transfer reaction laser with preionization means
[NASA-CASE-NPO-13945-1] c 36 N78-27402
Solar pumped laser
[NASA-CASE-LAR-12870-1] c 36 N84-16542
Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943
Magnetically switched power supply systems for lasers
[NASA-CASE-NPO-16402-1] c 36 N85-29265
Long gain length solar pumped box laser
[NASA-CASE-LAR-13256-1] c 36 N86-19596

GAS LUBRICANTS
Gas lubricant compositions Patent
[NASA-CASE-XLE-00353] c 18 N70-39897
Thrust bearing
[NASA-CASE-LEW-11949-1] c 37 N76-29588
Cantilever mounted resilient pad gas bearing
[NASA-CASE-LEW-12569-1] c 37 N79-10418
Dual clearance squeeze film damper
[NASA-CASE-LEW-13506-1] c 37 N85-33490

GAS MASERS
Solid state chemical source for ammonia beam maser Patent
[NASA-CASE-XGS-01504] c 16 N70-41578
Atomic hydrogen maser with bulb temperature control to remove wall shift in maser output frequency
[NASA-CASE-HQN-10654-1] c 16 N73-13489
Method of producing a storage bulb for an atomic hydrogen maser
[NASA-CASE-NPO-13050-1] c 36 N75-15029
Atomic standard with variable storage volume
[NASA-CASE-GSC-11895-1] c 35 N76-15436

GAS MIXTURES
Gas analyzer for bi-gaseous mixtures Patent
[NASA-CASE-XLA-01131] c 14 N71-10774
Vapor pressure measuring system and method Patent
[NASA-CASE-XMS-01618] c 14 N71-20741
Mixture separation cell Patent
[NASA-CASE-XMS-02952] c 18 N71-20742
Analysis of hydrogen-deuterium mixtures
[NASA-CASE-NPO-11322] c 06 N72-25146
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c 44 N76-29700
Hydrogen-rich gas generator
[NASA-CASE-NPO-13560-1] c 44 N77-10636
Chemical vapor deposition reactor --- providing uniform film thickness
[NASA-CASE-NPO-13650-1] c 25 N79-28253

GAS PIPES
Fluid flow restrictor Patent
[NASA-CASE-NPO-10117] c 15 N71-15608

GAS PRESSURE
Measuring device Patent
[NASA-CASE-XMS-01546] c 14 N70-40233
Dynamic sensor Patent
[NASA-CASE-XAC-02877] c 14 N70-41681
Wide range dynamic pressure sensor
[NASA-CASE-ARC-10263-1] c 14 N72-22438
Measurement of gas production of microorganisms --- using pressure sensors
[NASA-CASE-LAR-11326-1] c 35 N75-33368
Depressurization of arc lamps
[NASA-CASE-NPO-10790-1] c 33 N77-21316
Pressure limiting propellant actuating system
[NASA-CASE-MSC-18179-1] c 20 N80-18097
Method and apparatus for producing gas-filled hollow spheres --- target pellets for inertial confinement fusion
[NASA-CASE-NPO-14596-3] c 31 N83-31896

GAS STREAMS
Method for measuring the characteristics of a gas Patent
[NASA-CASE-XLA-03375] c 16 N71-24074
Stagnation pressure probe --- for measuring pressure of supersonic gas streams
[NASA-CASE-LAR-11139-1] c 35 N74-32878
Variable mixer propulsion cycle
[NASA-CASE-LEW-12917-1] c 07 N78-18067
Simultaneous treatment of SO2 containing stack gases and waste water
[NASA-CASE-MSC-16258-1] c 45 N79-12584
Gas levitator having fixed levitation node for containerless processing
[NASA-CASE-MFS-25509-1] c 35 N83-24828

GAS TEMPERATURE
Method for measuring the characteristics of a gas Patent
[NASA-CASE-XLA-03375] c 16 N71-24074

GAS TRANSPORT
Purging means and method for Xenon arc lamps
[NASA-CASE-NPO-11978] c 31 N78-17238

GAS TUBES
Toggle mechanism for pinching metal tubes
[NASA-CASE-GSC-12274-1] c 37 N79-28550

GAS TURBINE ENGINES
Gas turbine engine fuel control
[NASA-CASE-LEW-11187-1] c 28 N73-19793
Swirl can primary combustor
[NASA-CASE-LEW-11326-1] c 23 N73-30665

Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c 20 N76-14190
Fused silicide coatings containing discrete particles for protecting niobium alloys --- used in space shuttle thermal protection systems and turbine engine components
[NASA-CASE-LEW-11179-1] c 27 N76-16229
Dual output variable pitch turbofan actuation system
[NASA-CASE-LEW-12419-1] c 07 N77-14025
Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12830-1] c 07 N77-23106
Blade retainer assembly
[NASA-CASE-LEW-12608-1] c 07 N77-27116
Nickel base alloy --- for gas turbine engine stator vanes
[NASA-CASE-LEW-12270-1] c 26 N77-32280
Bearing seat usable in a gas turbine engine
[NASA-CASE-LEW-12477-1] c 37 N77-32501
Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12321-1] c 37 N78-10467
Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c 37 N78-17384
Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-2] c 07 N78-18066
Variable mixer propulsion cycle
[NASA-CASE-LEW-12917-1] c 07 N78-18067
Automotive gas turbine fuel control
[NASA-CASE-LEW-12785-1] c 37 N78-24545
Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
Independent power generator
[NASA-CASE-LAR-11208-1] c 44 N78-32539
Redundant disc
[NASA-CASE-LEW-12496-1] c 07 N78-33101
Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-3] c 07 N79-14096
Variable area exhaust nozzle
[NASA-CASE-LEW-12378-1] c 07 N79-14097
Power control for hot gas engines
[NASA-CASE-NPO-14220-1] c 37 N81-14318
Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999
Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115
Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366
Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603
Silicon-slurry/aluminide coating --- protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795
Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029
Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560
Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
Air modulation apparatus
[NASA-CASE-LEW-13524-1] c 07 N84-33410
Dual clearance squeeze film damper
[NASA-CASE-LEW-13506-1] c 37 N85-33490
Oxidizing seal for a turbine tip gas path
[NASA-CASE-LEW-14053-1] c 37 N85-34402
Compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] c 37 N86-19606
Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389

GAS TURBINES
Gas turbine combustor Patent
[NASA-CASE-LEW-10286-1] c 28 N71-28915
Gas turbine exhaust nozzle --- for noise reduction
[NASA-CASE-LEW-11569-1] c 07 N74-15453
Gas turbine engine with convertible accessories
[NASA-CASE-LEW-12390-1] c 07 N78-17056
Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090
Direct heating surface combustor
[NASA-CASE-LEW-11877-1] c 34 N78-27357
Apparatus and method for reducing thermal stress in a turbine rotor
[NASA-CASE-LEW-12232-1] c 07 N79-10057
Method and turbine for extracting kinetic energy from a stream of two-phase fluid
[NASA-CASE-NPO-14130-1] c 34 N79-20335
Corrosion resistant thermal barrier coating --- protecting gas turbines and other engine parts
[NASA-CASE-LEW-13088-1] c 26 N81-25188

GAS VALVES
High-temperature, high-pressure spherical segment valve Patent
[NASA-CASE-XAC-00074] c 15 N70-34817
Shrink-fit gas valve Patent
[NASA-CASE-XGS-00587] c 15 N70-35087
Thermally operated valve Patent
[NASA-CASE-XLE-00815] c 15 N70-35407
Transfer valve Patent
[NASA-CASE-XAC-01158] c 15 N71-23051
Slow opening valve --- valve design for shuttle portable oxygen system
[NASA-CASE-MSC-20112-1] c 37 N85-20338

GAS WELDING
Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871
Grain refinement control in TIG arc welding
[NASA-CASE-MSC-19095-1] c 37 N75-19683

GAS-LIQUID INTERACTIONS
Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c 34 N75-26282

GAS-METAL INTERACTIONS
Improved refractory coatings --- sputtered coatings on substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209
Refractory coatings and method of producing the same
[NASA-CASE-LEW-13169-1] c 26 N82-29415

GASDYNAMIC LASERS
Diatomic infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426

GASEOUS DIFFUSION
Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080
Gas core nuclear reactor Patent
[NASA-CASE-LEW-10250-1] c 22 N71-28759
Gas diffusion liquid storage bag and method of use for storing blood
[NASA-CASE-NPO-13930-1] c 52 N79-14749

GASEOUS FISSION REACTORS
Gas core nuclear reactor Patent
[NASA-CASE-LEW-10250-1] c 22 N71-28759

GASEOUS ROCKET PROPELLANTS
Ion rocket Patent
[NASA-CASE-XLE-00376] c 28 N70-37245
Continuous detonation reaction engine Patent
[NASA-CASE-XMF-06926] c 28 N71-22983

GASES
Gas liquefication and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372
Observation window for a gas confining chamber
[NASA-CASE-NPO-10890] c 11 N73-12265
Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-16484
Low gravity phase separator
[NASA-CASE-MSC-14773-1] c 35 N78-12390
Water separator
[NASA-CASE-XMS-01295-1] c 37 N79-21345

GASIFICATION
Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950

GASKETS
Cryogenic connector for vacuum use Patent
[NASA-CASE-XGS-02441] c 15 N70-41629
Reinforced polyquinoxaline gasket and method of preparing the same --- resistant to ionizing radiation and liquid hydrogen temperatures
[NASA-CASE-MFS-21364-1] c 37 N74-18126
Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744

GATES (CIRCUITS)
Flux sensing device using a tubular core with toroidal gating coil and solenoidal output coil wound thereon Patent
[NASA-CASE-XGS-01881] c 09 N70-40123
SCR blocking pulse gate amplifier Patent
[NASA-CASE-XLA-07497] c 09 N71-12514
Logic AND gate for fluid circuits Patent
[NASA-CASE-XLA-07391] c 12 N71-17579
Synchronous counter Patent
[NASA-CASE-XGS-02440] c 08 N71-19432
Increasing efficiency of switching type regulator circuits Patent
[NASA-CASE-XMS-09352] c 09 N71-23316
Memory device for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-2] c 60 N78-10709
Transformer regulated self-stabilizing chopper
[NASA-CASE-XGS-09186] c 33 N78-17295
Controller for computer control of brushless dc motors --- automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352
Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345
Pulsed phase locked loop strain monitor --- voltage controlled oscillators
[NASA-CASE-LAR-12772-1] c 33 N83-16626
FET charge sensor and voltage probe
[NASA-CASE-NPO-16045-1] c 76 N84-33211

GATES (OPENINGS)
Film feed camera having a detent means Patent
[NASA-CASE-LAR-10686] c 14 N71-28935

GAW-1 AIRFOIL
Airfoil shape for flight at subsonic speeds --- design analysis and aerodynamic characteristics of the GAW-1 airfoil
[NASA-CASE-LAR-10585-1] c 02 N76-22154

GEAR TEETH
Wabble gear drive mechanism --- for aerospace environments
[NASA-CASE-WOO-00625] c 37 N78-17385
Belt for transmitting power from a cogged driving member to a cogged driven member
[NASA-CASE-GSC-12289-1] c 37 N80-32717

GEARS
Precision stepping drive Patent
[NASA-CASE-MFS-14772] c 15 N71-17692
Bidirectional step torque filter with zero backlash characteristic Patent
[NASA-CASE-XGS-04227] c 15 N71-21744
Self-lubricating gears and other mechanical parts Patent
[NASA-CASE-MFS-14971] c 15 N71-24984
Concentric differential gearing arrangement
[NASA-CASE-ARC-10462-1] c 37 N74-27901
Sequencing device utilizing planetary gear set
[NASA-CASE-MSC-19514-1] c 37 N79-20377
Power control for hot gas engines
[NASA-CASE-NPO-14220-1] c 37 N81-14318
Clutchless multiple drive source for output shaft
[NASA-CASE-ARC-11325-1] c 37 N82-22496
Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] c 37 N84-28084

GELLED ROCKET PROPELLANTS
Process of forming particles in a cryogenic path Patent
[NASA-CASE-NPO-10250] c 23 N71-16212

GELS
Intermittent type silica gel adsorption refrigerator Patent
[NASA-CASE-XNP-00920] c 15 N71-15906

GENERAL AVIATION AIRCRAFT
Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992

GENERATORS
Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730
Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178

GEODESY
Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681

GEODETIC SURVEYS
Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-1] c 36 N81-22344

GEODIMETERS
Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-1] c 36 N81-22344

GEOLOGICAL SURVEYS
Borehole geological assessment
[NASA-CASE-NPO-14231-1] c 46 N80-10709
Geological assessment probe
[NASA-CASE-NPO-14558-1] c 46 N80-24906

GEOMETRY
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612

GERMANIUM
Germanium coated microbridge and method
[NASA-CASE-MFS-23274-1] c 33 N78-13320

GIMBALS
Gimbaled, partially submerged rocket nozzle Patent
[NASA-CASE-XMF-01544] c 28 N70-34162
Azimuth laying system Patent
[NASA-CASE-XMF-01669] c 21 N71-23289
Passive caging mechanism Patent
[NASA-CASE-GSC-10306-1] c 15 N71-24694
Hermetic sealed vibration damper Patent
[NASA-CASE-MSC-10959] c 15 N71-26243
Bearing and gimbal lock mechanism and spiral flex lead module Patent
[NASA-CASE-GSC-10556-1] c 31 N71-26537
Failure detection and control means for improved drift performance of a gimballed platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175
Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047

Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882

GLANDS (SEALS)
Spiral groove seal
[NASA-CASE-XLE-10326-2] c 15 N72-29488
Circumferential shaft seal
[NASA-CASE-LEW-12119-2] c 37 N81-26447

GLASS
Method for producing a solar cell having an integral protective covering
[NASA-CASE-XGS-04531] c 03 N69-24267
Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
Silicon solar cell with cover glass bonded to cell by metal pattern Patent
[NASA-CASE-XLE-08569] c 03 N71-23449
Apparatus for applying cover slides
[NASA-CASE-NPO-10575] c 03 N72-25019
Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c 37 N74-21063
Covered silicon solar cells and method of manufacture --- with polymeric films
[NASA-CASE-LEW-11065-2] c 44 N76-14600
Window defect planar mapping technique
[NASA-CASE-MSC-19442-1] c 74 N77-10899
Method of forming shrink-fit compression seal
[NASA-CASE-LAR-11563-1] c 37 N77-23482
Reaction cured glass and glass coatings
[NASA-CASE-ARC-11051-1] c 27 N78-32260
Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442
Method for milling and drilling glass
[NASA-CASE-GSC-12636-1] c 31 N83-27058
Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781
Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] c 27 N84-33589

GLASS COATINGS
Method of attaching a cover glass to a silicon solar cell Patent
[NASA-CASE-XLE-08569-2] c 03 N71-24681
Process for glass coating an ion accelerator grid Patent
[NASA-CASE-LEW-10278-1] c 15 N71-28582
Method of coating solar cell with borosilicate glass and resultant product
[NASA-CASE-GSC-11514-1] c 03 N72-24037
Transmitting and reflecting diffuser --- using ultraviolet grade fused silica coatings
[NASA-CASE-LAR-10385-3] c 74 N78-15879
Method for repair of thin glass coatings --- on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520
High temperature glass thermal control structure and coating --- for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448

GLASS ELECTRODES
Liquid junction and method of fabricating the same Patent Application
[NASA-CASE-NPO-10682] c 15 N70-34699
Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means
[NASA-CASE-NPO-13910-1] c 52 N79-27836

GLASS FIBER REINFORCED PLASTICS
Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c 24 N79-16915
Method of manufacture of bonded fiber flywheel --- fiberglass-epoxy
[NASA-CASE-MFS-23674-1] c 24 N81-29163

GLASS FIBERS
Non-magnetic battery case Patent
[NASA-CASE-XGS-00886] c 03 N71-11053
Lathe tool bit and holder for machining fiberglass materials
[NASA-CASE-XLA-10470] c 15 N72-21489
Polyimide resin-fiberglass cloth laminates for printed circuit boards
[NASA-CASE-MFS-20408] c 18 N73-12604
Method of repairing discontinuity in fiberglass structures
[NASA-CASE-LAR-10416-1] c 24 N74-30001
Fiber modified polyurethane foam for ballistic protection
[NASA-CASE-ARC-10714-1] c 27 N76-15310
Vacuum pressure molding technique
[NASA-CASE-LAR-10073-1] c 37 N76-24575
Glass compositions with a high modulus of elasticity --- nontoxic glass fibers
[NASA-CASE-HQN-10274-1] c 27 N82-29451
High modulus invert analog glass compositions containing beryllia
[NASA-CASE-HQN-10931-2] c 27 N82-29452
Method and technique for installing light-weight, fragile, high-temperature fiber insulation
[NASA-CASE-MSC-16934-3] c 24 N84-16262
Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28090-1] c 27 N86-21684
Containerless high purity pulling process and apparatus for glass fiber
[NASA-CASE-MFS-25905-2] c 31 N86-21718

GLASSWARE
Laboratory glassware rack for seismic safety
[NASA-CASE-ARC-11422-1] c 35 N84-20808
Laboratory glassware rack for seismic safety
[NASA-CASE-ARC-11422-1] c 35 N86-20751

GLAUCOMA
Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12955-1] c 52 N80-14684

GLIDE PATHS
Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930

GLOBAL POSITIONING SYSTEM
High dynamic global positioning system receiver
[NASA-CASE-NPO-16171-1-CU] c 04 N84-12151
Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546

GLOBES
Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c 19 N74-21015

GLOVES
Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080
Restraining mechanism
[NASA-CASE-MSC-13054] c 54 N78-17677
Heat resistant protective hand covering
[NASA-CASE-MSC-20261-2] c 54 N84-23113
Heat resistant protective hand covering
[NASA-CASE-MSC-20261-1] c 54 N84-28484

GLOW DISCHARGES
Deposition of alloy films --- on irregulary shaped metal object
[NASA-CASE-LEW-11262-1] c 27 N74-13270
Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233
Electric discharge for treatment of trace contaminants
[NASA-CASE-ARC-10975-1] c 33 N79-15245
Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401

GLUCOSE
Use of the enzyme hexokinase for the reduction of inherent light levels
[NASA-CASE-XGS-05533] c 04 N69-27487

GLYCOLS
Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043

GOLD COATINGS
Thin window, drifted silicon, charged particle detector
[NASA-CASE-XLE-10529] c 14 N69-23191
Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205

GONDOLAS
System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008

GRANULAR MATERIALS
Soil particles separator, collector and viewer Patent
[NASA-CASE-XNP-09770] c 15 N71-20440
Carbon granule probe microphone for leak detection --- recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597

GRAPHITE
Bonding graphite with fused silver chloride
[NASA-CASE-XGS-00963] c 15 N69-39735
Method of preparing graphite reinforced aluminum composite
[NASA-CASE-MFS-21077-1] c 24 N75-28135
Method of adhering bone to a rigid substrate using a graphite fiber reinforced bone cement
[NASA-CASE-NPO-13764-1] c 27 N78-17215
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103
Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950
Light weight fire resistant graphite composites
[NASA-CASE-ARC-11615-1-SB] c 24 N85-28976
Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267

GRAPHITE-EPOXY COMPOSITES
Partial interlaminar separation system for composites
[NASA-CASE-LAR-12065-1] c 24 N81-14000
Method and device for detection of a substance --- determining carbon fiber release in fire situations
[NASA-CASE-NPO-14940-1] c 33 N83-31954
Improved impact tolerant material
[NASA-CASE-LAR-12887-1] c 24 N84-20649

GRATINGS (SPECTRA)
Concave grating spectrometer Patent
[NASA-CASE-XGS-01036] c 14 N70-40003
Diffractoid grating configuration for X-ray and ultraviolet focusing
[NASA-CASE-GSC-12357-1] c 74 N80-21140
Solar energy converter using surface plasma waves
[NASA-CASE-LEW-13827-1] c 44 N85-21768

GRAVIMETERS
Gravimeter Patent
[NASA-CASE-XMF-05844] c 14 N71-17587

GRAVITATION
Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397
Anti-gravity device
[NASA-CASE-MFS-22758-1] c 70 N75-26789

GRAVITATIONAL CONSTANT
Gravity device Patent
[NASA-CASE-XMF-00424] c 11 N70-38196

GRAVITATIONAL EFFECTS
Locomotion and restraint aid Patent
[NASA-CASE-ARC-10153] c 05 N71-28619
Rotary plant growth accelerating apparatus --- weightlessness
[NASA-CASE-ARC-10722-1] c 51 N75-25503
Method and apparatus for simulating gravitational forces on a living organism
[NASA-CASE-MSC-20202-1] c 54 N84-16803

GRAVITATIONAL FIELDS
Difference circuit Patent
[NASA-CASE-XNP-08274] c 10 N71-13537
Process for preparation of large-particle-size monodisperse latexes
[NASA-CASE-MFS-25000-1] c 25 N81-19242

GRAVITY GRADIENT SATELLITES
Stabilization of gravity oriented satellites Patent
[NASA-CASE-XAC-01591] c 31 N71-17729
Station keeping of a gravity gradient stabilized satellite Patent
[NASA-CASE-XLA-03132] c 31 N71-22969

GRAVITY GRADIOMETERS
Gravity device Patent
[NASA-CASE-XMF-00424] c 11 N70-38196
Gravity gradient attitude control system Patent
[NASA-CASE-GSC-10555-1] c 21 N71-27324

GRAZING INCIDENCE
Diffractoid grating configuration for X-ray and ultraviolet focusing
[NASA-CASE-GSC-12357-1] c 74 N80-21140
Multispectral glancing incidence X-ray telescope
[NASA-CASE-MFS-28013-1] c 89 N86-22459

GRIDS
Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
Apparatus for forming dished ion thruster grids
[NASA-CASE-LEW-11694-2] c 37 N76-14461
Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276
Solar cell grid patterns
[NASA-CASE-NPO-13087-2] c 44 N76-31666

GRINDING (MATERIAL REMOVAL)
Laser apparatus for removing material from rotating objects Patent
[NASA-CASE-MFS-11279] c 16 N71-20400
Method for producing dispersion strengthened alloys by converting metal to a halide, comminuting, reducing the metal halide to the metal and sintering
[NASA-CASE-LEW-10450-1] c 15 N72-25448
Method of forming a sharp edge on an optical device
[NASA-CASE-GSC-12348-1] c 74 N80-24149

GRINDING MACHINES
Grinding arrangement for ball nose milling cutters
[NASA-CASE-LAR-10450-1] c 37 N74-27905

GROOVES
Energy absorbing device Patent
[NASA-CASE-XMF-10040] c 15 N71-22877
Spiral groove seal --- for hydraulic rotating shaft
[NASA-CASE-LEW-10326-3] c 37 N74-10474
Spiral groove seal --- for rotating shaft
[NASA-CASE-XLE-10326-4] c 37 N74-15125
Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] c 34 N85-29180

GROUND EFFECT MACHINES
Gravity stabilized flying vehicle Patent
[NASA-CASE-MSC-12111-1] c 02 N71-11039
Air cushion lift pad Patent
[NASA-CASE-MFS-14685] c 31 N71-15689
Open tube guideway for high speed air cushioned vehicles
[NASA-CASE-LAR-10256-1] c 85 N74-34672
GROUND HANDLING
Supporting and protecting device Patent
[NASA-CASE-XMF-00580] c 11 N70-35383
GROUND STATIONS
Traffic control system and method Patent
[NASA-CASE-GSC-10087-1] c 02 N71-19287
Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118
Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323
GROUND SUPPORT EQUIPMENT
Dynamic Doppler simulator Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391
Controlled release device Patent
[NASA-CASE-XKS-03338] c 15 N71-24043
Apparatus for measuring an aircraft's speed and height
[NASA-CASE-LAR-12275-1] c 35 N79-18296
GROUND-AIR-GROUND COMMUNICATION
Retrodirective optical system
[NASA-CASE-XGS-04480] c 16 N69-27491
Closed loop ranging system Patent
[NASA-CASE-XNP-01501] c 21 N70-41930
Location identification system
[NASA-CASE-ERC-10324] c 07 N72-25173
Satellite personal communications system
[NASA-CASE-NPO-14480-1] c 32 N80-20448
GROUT
Antenna grout replacement system
[NASA-CASE-NPO-15202-1] c 27 N83-34043
GUARDS (SHIELDS)
Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343
GUIDANCE (MOTION)
Gravity stabilized flying vehicle Patent
[NASA-CASE-MSC-12111-1] c 02 N71-11039
Adjustable attitude guide device Patent
[NASA-CASE-XLA-07911] c 15 N71-15571
Film feed camera having a detent means Patent
[NASA-CASE-LAR-10686] c 14 N71-28935
Two component bearing Patent
[NASA-CASE-XLA-00013] c 15 N71-29136
Cable stabilizer for open shaft cable operated elevators
[NASA-CASE-KSC-10513] c 15 N72-25453
Thumb actuated two axis controller
[NASA-CASE-ARC-11372-1] c 08 N83-12098
GUIDANCE SENSORS
Light sensitive digital aspect sensor Patent
[NASA-CASE-XGS-00359] c 14 N70-34158
Guidance and maneuver analyzer Patent
[NASA-CASE-XNP-09572] c 14 N71-15621
Optical machine tool alignment indicator Patent
[NASA-CASE-XAC-09489-1] c 15 N71-26673
Light sensor
[NASA-CASE-NPO-11311] c 14 N72-25414
Sun direction detection system
[NASA-CASE-NPO-13722-1] c 74 N77-22951
Terminal guidance sensor system
[NASA-CASE-NPO-14521-1] c 54 N79-20746
Sun sensing guidance system for high altitude aircraft
[NASA-CASE-FRC-11052-1] c 04 N82-23231
Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] c 35 N84-33769
GUN LAUNCHERS
Self-obturating, gas operated launcher
[NASA-CASE-NPO-11013] c 11 N72-22247
GUN PROPELLANTS
Nitramine propellants --- gun propellant burning rate
[NASA-CASE-NPO-14103-1] c 28 N78-31255
Hypervelocity gun --- using both electric and chemical energy for projectile propulsion
[NASA-CASE-XLE-03186-1] c 09 N79-21084
GUNN EFFECT
Voltage tunable Gunn-type microwave generator Patent
[NASA-CASE-XER-07894] c 09 N71-18721
Shielded cathode mode bulk effect devices
[NASA-CASE-ERC-10119] c 26 N72-21701
Gunn-type solid state devices
[NASA-CASE-XER-07895] c 26 N72-25679
Magnetically actuated tuning method for Gunn oscillators
[NASA-CASE-NPO-12106] c 09 N73-15235
GUNS
Method of peening and portable peening gun
[NASA-CASE-MFS-23047-1] c 37 N76-18454
GYNECOLOGY
Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875
GYRATORS
Gyrator type circuit Patent
[NASA-CASE-XAC-10608-1] c 09 N71-12517
Gyrator employing field effect transistors
[NASA-CASE-MFS-21433] c 09 N73-20232
Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c 33 N74-34638
Integrable power gyrator --- with Z-matrix design using parallel transistors
[NASA-CASE-MFS-22342-1] c 33 N75-30428
GYROSCOPES
Externally pressurized fluid bearing Patent
[NASA-CASE-XMF-00515] c 15 N70-34664
Air bearing Patent
[NASA-CASE-XMF-00339] c 15 N70-39896
Spacecraft experiment pointing and attitude control system Patent
[NASA-CASE-XLA-05464] c 21 N71-14132
Temperature compensated digital inertial sensor --- circuit for maintaining inertial element of gyroscope or accelerometer at constant position
[NASA-CASE-NPO-13044-1] c 35 N74-15094
All sky pointing attitude control system
[NASA-CASE-ARC-10716-1] c 35 N77-20399
GYROSCOPIC PENDULUMS
Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047
GYROSTABILIZERS
Passive dual spin misalignment compensators --- gyrostabilized device
[NASA-CASE-GSC-11479-1] c 35 N74-28097
Annular momentum control device used for stabilization of space vehicles and the like
[NASA-CASE-LAR-11051-1] c 15 N76-14158
Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882

H

HAFNIUM
Thermal shock resistant hafnia ceramic material
[NASA-CASE-LAR-10894-1] c 18 N73-14584
HALIDES
Method for producing dispersion strengthened alloys by converting metal to a halide, comminuting, reducing the metal halide to the metal and sintering
[NASA-CASE-LEW-10450-1] c 15 N72-25448
Zinc-halide battery with molten electrolyte
[NASA-CASE-NPO-11961-1] c 44 N76-18643
The 1 - (dialkoxyphosphonyl)methyl -2,4- and -2,6-dinitro- and diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-1] c 23 N83-28076
HALL EFFECT
Hall current measuring apparatus having a series resistor for temperature compensation Patent
[NASA-CASE-XAC-01662] c 14 N71-23037
Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904
Hall effect transducer
[NASA-CASE-LAR-10620-1] c 09 N72-25255
Redundant speed control for brushless Hall effect motor
[NASA-CASE-MFS-20207-1] c 09 N73-32107
Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c 35 N75-13213
Magnetic field control --- electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569
HALL GENERATORS
Hall current measuring apparatus having a series resistor for temperature compensation Patent
[NASA-CASE-XAC-01662] c 14 N71-23037
HALOGENS
Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739
HAMMERS
Apparatus for making diamonds
[NASA-CASE-MFS-20698] c 15 N72-20446
HAND (ANATOMY)
Mechanically actuated triggered hand
[NASA-CASE-MFS-20413] c 15 N72-21463
Therapeutic hand exerciser
[NASA-CASE-LAR-11667-1] c 52 N76-19785
Compact artificial hand
[NASA-CASE-NPO-13906-1] c 54 N79-24652
HANDLING EQUIPMENT
Supporting and protecting device Patent
[NASA-CASE-XMF-00580] c 11 N70-35383
Device for handling printed circuit cards Patent
[NASA-CASE-MFS-20453] c 15 N71-29133
HARDENING (MATERIALS)
Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c 26 N75-29236
HARDNESS
Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] c 31 N85-20153
HARMONIC GENERATORS
Wide band doubler and sine wave quadrature generator
[NASA-CASE-NPO-11133] c 10 N72-20223
HARNESSES
Pressure suit tie-down mechanism Patent
[NASA-CASE-XMS-00784] c 05 N71-12335
One hand backpack harness
[NASA-CASE-LAR-10102-1] c 05 N72-23085
Shoulder harness and lap belt restraint system
[NASA-CASE-ARC-10519-2] c 05 N75-25915
HATCHES
Emergency escape system Patent
[NASA-CASE-MSC-12086-1] c 05 N71-12345
HEAD-UP DISPLAYS
Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733
HEART FUNCTION
Ratemeter
[NASA-CASE-MFS-20418] c 14 N73-24473
Ultrasonic biomedical measuring and recording apparatus --- for recording motion of internal organs such as heart valves
[NASA-CASE-ARC-10597-1] c 52 N74-20726
HEART RATE
Digital cardiotachometer system Patent
[NASA-CASE-XMS-02399] c 05 N71-22896
Ratemeter
[NASA-CASE-MFS-20418] c 14 N73-24473
Digital computing cardiotachometer
[NASA-CASE-MFS-20284-1] c 52 N74-12778
Pulse transducer with artifact signal attenuator --- heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969
HEAT
Thermionic converter with current augmented by self induced magnetic field Patent
[NASA-CASE-XLE-01903] c 22 N71-23599
HEAT EXCHANGERS
Electro-thermal rocket Patent
[NASA-CASE-XLE-00267] c 28 N70-33356
Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439
Dual solid cryogens for spacecraft refrigeration Patent
[NASA-CASE-GSC-10188-1] c 23 N71-24725
Shell side liquid metal boiler
[NASA-CASE-NPO-10831] c 33 N72-20915
Helium refrigerator and method for decontaminating the refrigerator
[NASA-CASE-NPO-10634] c 23 N72-25619
Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c 77 N75-20139
Heat exchanger system and method
[NASA-CASE-LAR-10799-2] c 34 N76-17317
Heat transfer device
[NASA-CASE-MFS-22938-1] c 34 N76-18374
Heat exchanger
[NASA-CASE-MFS-22991-1] c 34 N77-10463
Flat-plate heat pipe
[NASA-CASE-GSC-11998-1] c 34 N77-32413
Combuster --- low nitrogen oxide formation
[NASA-CASE-NPO-13958-1] c 25 N79-11151
Fuel delivery system including heat exchanger means
[NASA-CASE-LEW-12793-1] c 37 N79-11403
Heat exchanger --- rocket combustion chambers and cooling systems
[NASA-CASE-LEW-12252-1] c 34 N79-13288
Heat exchanger and method of making --- bonding rocket chambers with a porous metal matrix
[NASA-CASE-LEW-12441-1] c 34 N79-13289
Thermal energy transformer
[NASA-CASE-NPO-14058-1] c 44 N79-18443
Portable breathing system --- a breathing apparatus using a rebreathing system of heat exchangers for carbon dioxide removal
[NASA-CASE-MSC-16182-1] c 54 N80-10799
Heat exchanger and method of making --- rocket lining
[NASA-CASE-LEW-12441-2] c 34 N80-24573
Heat exchanger and method of making
[NASA-CASE-LEW-12441-3] c 44 N81-24519
Cycling Joule Thomson refrigerator
[NASA-CASE-NPO-15251-1] c 31 N83-31897

Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082

HEAT FLUX

Heat flux sensor assembly
[NASA-CASE-XMS-05909-1] c 14 N69-27459
Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c 33 N71-23085
Radial heat flux transformer
[NASA-CASE-NPO-10828] c 33 N72-17948

HEAT MEASUREMENT

Thermal detector of electromagnetic energy by means of a vibrating electrode Patent
[NASA-CASE-XAC-10768] c 09 N71-18830
Specific wavelength colorimeter --- for measuring given solute concentration in test sample
[NASA-CASE-MSC-14081-1] c 35 N74-27860

HEAT OF VAPORIZATION

Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N86-20721

HEAT PIPES

Heat pipe thermionic diode power system Patent
[NASA-CASE-XMF-05843] c 03 N71-11055
Microwave power receiving antenna Patent
[NASA-CASE-MFS-20333] c 09 N71-13486
Isothermal cover with thermal reservoirs Patent
[NASA-CASE-MFS-20355] c 33 N71-25353
Structural heat pipe --- for spacecraft wall thermal insulation system
[NASA-CASE-GSC-11619-1] c 34 N75-12222
Method of forming a wick for a heat pipe
[NASA-CASE-NPO-13391-1] c 34 N76-27515
Production of I-123
[NASA-CASE-LEW-11390-3] c 25 N76-29379
Heat pipe with dual working fluids
[NASA-CASE-ARC-10198] c 34 N78-17336
Multi-chamber controllable heat pipe
[NASA-CASE-ARC-10199] c 34 N78-17337
Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523
High thermal power density heat transfer --- thermionic converters
[NASA-CASE-LEW-12950-1] c 34 N82-11399
Heat pipes containing alkali metal working fluid
[NASA-CASE-LEW-12253-1] c 74 N83-19596
Heat pipe thermal switch
[NASA-CASE-GSC-12812-1] c 34 N83-35307
Thermal control system --- removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14461
Multi-leg heat pipe evaporator
[NASA-CASE-MSC-20812-1] c 34 N84-32748
Heat pipe cooled probe
[NASA-CASE-LAR-12588-1] c 34 N85-21568
High thermal power density heat transfer apparatus providing electrical isolation at high temperature using heat pipes
[NASA-CASE-LEW-12950-2] c 34 N85-29179

HEAT PUMPS

Thermal pump-compressor for space use Patent
[NASA-CASE-XLA-00377] c 33 N71-17610
Manually actuated heat pump
[NASA-CASE-NPO-10677] c 05 N72-11084
Pump for delivering heated fluids
[NASA-CASE-NPO-11417] c 15 N73-24513
Magnetic heat pumping
[NASA-CASE-LEW-12508-1] c 34 N78-17335
Cooling system for high speed aircraft
[NASA-CASE-LAR-12406-1] c 05 N81-26114
Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625

HEAT RADIATORS

Capillary radiator Patent
[NASA-CASE-XLE-03307] c 33 N71-14035
Radiator deployment actuator Patent
[NASA-CASE-MSC-11817-1] c 15 N71-26611
Space simulation and radiative property testing system and method Patent
[NASA-CASE-MFS-20096] c 14 N71-30026

HEAT RESISTANT ALLOYS

High temperature nickel-base alloy Patent
[NASA-CASE-XLE-00151] c 17 N70-33283
Nickel-base alloy Patent
[NASA-CASE-XLE-00283] c 17 N70-36616
High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-02991] c 17 N71-16025
Brazing alloy Patent
[NASA-CASE-XNP-03063] c 17 N71-23365
Method of forming superalloys
[NASA-CASE-LEW-10805-1] c 15 N73-13465
Method of making pressure tight seal for super alloy
[NASA-CASE-LAR-10170-1] c 37 N74-11301
Method of forming articles of manufacture from superalloy powders
[NASA-CASE-LEW-10805-2] c 37 N74-13179
Refractory porcelain enamel passive control coating for high temperature alloys
[NASA-CASE-MFS-22324-1] c 27 N75-27160
Cermet composition and method of fabrication --- heat resistant alloys and powders
[NASA-CASE-NPO-13120-1] c 27 N76-15311
Metallic hot wire anemometer --- for high speed wind tunnel tests
[NASA-CASE-ARC-10911-1] c 35 N77-20400
Method of growing composites of the type exhibiting the Soret effect --- improved structure of eutectic alloy crystals
[NASA-CASE-MFS-22926-1] c 24 N77-27187
Directionally solidified eutectic gamma plus beta nickel-base superalloys
[NASA-CASE-LEW-12906-1] c 26 N77-32279
Nickel base alloy --- for gas turbine engine stator vanes
[NASA-CASE-LEW-12270-1] c 26 N77-32280
Directionally solidified eutectic gamma-gamma nickel-base superalloys
[NASA-CASE-LEW-12905-1] c 26 N78-18183
Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] c 26 N84-27855

HEAT SHIELDING

Heat flux sensor assembly
[NASA-CASE-XMS-05909-1] c 14 N69-27459
Heat shield oven
[NASA-CASE-XMS-04318] c 15 N69-27871
Heat shield Patent
[NASA-CASE-XMS-00486] c 33 N70-33344
Sandwich panel construction Patent
[NASA-CASE-XLA-00349] c 33 N70-37979
Hypersonic reentry vehicle Patent
[NASA-CASE-XMS-04142] c 31 N70-41631
Transpirationally cooled heat ablation system Patent
[NASA-CASE-XMS-02677] c 31 N70-42075
Azine polymers and process for preparing the same Patent
[NASA-CASE-XMF-08656] c 06 N71-11242
Synthesis of polymeric schiff bases by reaction of acetals and amine compounds Patent
[NASA-CASE-XMF-08652] c 06 N71-11243
Lightweight refractory insulation and method of preparing the same Patent
[NASA-CASE-XMF-05279] c 18 N71-16124
Thermal radiation shielding Patent
[NASA-CASE-XLE-03432] c 33 N71-24145
Spacecraft Patent
[NASA-CASE-MSC-13047-1] c 31 N71-25434
Fabric for micrometeoroid protection garment Patent
[NASA-CASE-MSC-12109] c 18 N71-26285
Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles
[NASA-CASE-MSC-12619-2] c 27 N79-12221
Thermal insulation protection means
[NASA-CASE-MSC-12737-1] c 24 N79-25142
Installing fiber insulation
[NASA-CASE-MSC-16973-1] c 37 N81-14317
Thermal barrier pressure seal --- shielding junctions between spacecraft control surfaces and structures
[NASA-CASE-MSC-18134-1] c 37 N81-15363
Multiwall thermal protection system
[NASA-CASE-LAR-12620-1] c 24 N82-32417
High temperature silicon carbide impregnated insulating fabrics
[NASA-CASE-MSC-18832-1] c 27 N83-18908
Mechanical fastener
[NASA-CASE-LAR-12738-2] c 37 N85-30335
Aerobraking orbital transfer vehicle
[NASA-CASE-MSC-20921-1] c 18 N86-20471

HEAT SINKS

Thermal conductive connection and method of making same Patent
[NASA-CASE-XMS-02087] c 09 N70-41717
Constant temperature heat sink for calorimeters Patent
[NASA-CASE-XMF-04208] c 33 N71-29051
Tubular sublimatory evaporator heat sink
[NASA-CASE-ARC-10912-1] c 34 N77-19353
Compact pulsed laser having improved heat conductance
[NASA-CASE-NPO-13147-1] c 36 N77-25502
Hypersonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168
Electroexplosive device
[NASA-CASE-NPO-13858-1] c 28 N79-11231
Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523
Heat pipe thermal switch
[NASA-CASE-GSC-12812-1] c 34 N83-35307

HEAT SOURCES

Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475
Thermally cascaded thermoelectric generator
[NASA-CASE-NPO-10753] c 03 N72-26031
Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c 73 N75-30876
Portable electrophoresis apparatus using minimum electrolyte
[NASA-CASE-NPO-13274-1] c 25 N79-10163
Low gravity exothermic heating/cooling apparatus
[NASA-CASE-MSC-25707-1] c 35 N85-29214

HEAT STORAGE

Solar energy trap
[NASA-CASE-MFS-22744-1] c 44 N76-24696
Thermal energy storage system --- operating on superheating of liquids
[NASA-CASE-MFS-23167-1] c 44 N76-31667
Saltless solar pond
[NASA-CASE-NPO-15808-1] c 44 N84-34792
Stable density stratification solar pond
[NASA-CASE-NPO-15419-2] c 44 N85-30474

HEAT TRANSFER

Thermal switch Patent
[NASA-CASE-XNP-00463] c 33 N70-36847
Sandwich panel construction Patent
[NASA-CASE-XLA-00349] c 33 N70-37979
Apparatus for transferring cryogenic liquids Patent
[NASA-CASE-XLE-00345] c 15 N70-38020
Method of improving heat transfer characteristics in a nucleate boiling process Patent
[NASA-CASE-XMS-04268] c 33 N71-16277
Transmission line thermal short Patent
[NASA-CASE-XNP-09775] c 09 N71-20445
Heat sensing instrument Patent
[NASA-CASE-XLA-01551] c 14 N71-22989
Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199
Heat conductive resiliently compressible structure for space electronics package modules Patent
[NASA-CASE-MSC-12389] c 33 N71-29052
Space simulation and radiative property testing system and method Patent
[NASA-CASE-MFS-20096] c 14 N71-30026
Manually actuated heat pump
[NASA-CASE-NPO-10677] c 05 N72-11084
High intensity radiant energy pulse source having means for opening shutter when light flux has reached a desired level
[NASA-CASE-ARC-10178-1] c 09 N72-17152
Apparatus for sensing temperature
[NASA-CASE-XLE-05230] c 14 N72-27410
Thermal control system for a spacecraft modular housing
[NASA-CASE-GSC-11018-1] c 31 N73-30829
Thermal flux transfer system
[NASA-CASE-NPO-12070-1] c 28 N73-32606
Electrostatically controlled heat shutter
[NASA-CASE-NPO-11942-1] c 33 N73-32818
Heat transfer device
[NASA-CASE-NPO-11120-1] c 34 N74-18552
Heat exchanger
[NASA-CASE-MFS-22991-1] c 34 N77-10463
Heat pipe with dual working fluids
[NASA-CASE-ARC-10198] c 34 N78-17336
Low cost cryostat
[NASA-CASE-NPO-14513-1] c 35 N81-14287
Heat exchanger and method of making
[NASA-CASE-LEW-12441-3] c 44 N81-24519
Thermochemical generation of hydrogen
[NASA-CASE-NPO-15015-1] c 25 N82-28368
Heat pipes containing alkali metal working fluid
[NASA-CASE-LEW-12253-1] c 74 N83-19596
Automatic thermal switch --- spacecraft applications
[NASA-CASE-GSC-12553-1] c 34 N83-28356
Heat pipe thermal switch
[NASA-CASE-GSC-12812-1] c 34 N83-35307
Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560
Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958
High thermal power density heat transfer apparatus providing electrical isolation at high temperature using heat pipes
[NASA-CASE-LEW-12950-2] c 34 N85-29179
Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] c 34 N85-29180
Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N86-20721

HEAT TRANSMISSION

Heat flow calorimeter --- measures output of Ni-Cd batteries
[NASA-CASE-GSC-11434-1] c 34 N74-27859
Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c 73 N75-30876

Heat transparent high intensity high efficiency solar cell
[NASA-CASE-LEW-12892-1] c 44 N83-14692

HEAT TREATMENT
High-speed infrared furnace
[NASA-CASE-XLE-10466] c 17 N69-25147
Heat shield oven
[NASA-CASE-XMS-04318] c 15 N69-27871
Method for molding compounds Patent
[NASA-CASE-XLA-01091] c 15 N71-10672
Method of producing refractory bodies having controlled porosity Patent
[NASA-CASE-LEW-10393-1] c 17 N71-15468
Inorganic thermal control pigment Patent
[NASA-CASE-XNP-02139] c 18 N71-24184
Thermal compression bonding of interconnectors
[NASA-CASE-GSC-10303] c 15 N72-22487
Method of heat treating a formed powder product material
[NASA-CASE-LEW-10805-3] c 26 N74-10521
Diffusion welding --- heat treatment of nickel alloys following single step vacuum welding process
[NASA-CASE-LEW-11388-2] c 37 N74-21055
Heat sterilizable patient ventilator
[NASA-CASE-NPO-13313-1] c 54 N75-27761
Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c 26 N75-29236
Method for detecting pollutants --- through chemical reactions and heat treatment
[NASA-CASE-LAR-11405-1] c 45 N76-31714
Method of producing complex aluminum alloy parts of high temper, and products thereof
[NASA-CASE-MSC-19693-1] c 26 N78-24333
Bakeable McLeod gauge
[NASA-CASE-XGS-01293-1] c 35 N79-33450
Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492

HEATERS
Inherent redundacy electric heater
[NASA-CASE-MFS-21462-1] c 33 N74-14935

HEATING
System for preconditioning a combustible vapor
[NASA-CASE-NPO-12072] c 28 N72-22772
Diffusion welding in air --- solid state welding of butt joint by fusion welding, surface cleaning, and heating
[NASA-CASE-LEW-11387-1] c 37 N74-18128
Heating and cooling system --- for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221
Low gravity exothermic heating/cooling apparatus
[NASA-CASE-MSC-25707-1] c 35 N85-29214
Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389

HEATING EQUIPMENT
Method and apparatus for controllably heating fluid Patent
[NASA-CASE-XMF-04237] c 33 N71-16278
Electric arc apparatus Patent
[NASA-CASE-XAC-01677] c 09 N71-20816
Radial heat flux transformer
[NASA-CASE-NPO-10828] c 33 N72-17948
Self-cycling fluid heater
[NASA-CASE-MSC-15567-1] c 33 N73-16918
Portable heatable container
[NASA-CASE-NPO-14237-1] c 44 N80-20808
Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] c 27 N84-33589
Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] c 37 N85-29286

HEIGHT
Sidelooking laser altimeter for a flight simulator
[NASA-CASE-ARC-11312-1] c 36 N83-34304

HELICAL ANTENNAS
Weatherproof helix antenna Patent
[NASA-CASE-XKS-08485] c 07 N71-19493
Collapsible high gain antenna
[NASA-CASE-KSC-10392] c 07 N73-26117

HELICOPTER WAKES
Variable geometry rotor system
[NASA-CASE-LAR-10557] c 02 N72-11018

HELICOPTERS
Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c 05 N77-17029
Non-destructive method for applying and removing instrumentation on helicopter rotor blades
[NASA-CASE-LAR-11201-1] c 35 N78-24515
Constant lift rotor for a heavier than air craft
[NASA-CASE-ARC-11045-1] c 05 N79-17847
Shapes for rotating airfoils
[NASA-CASE-LAR-12396-1] c 02 N84-28732
Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400

HELIOSTATS
Solar tracking system
[NASA-CASE-MFS-23999-1] c 44 N81-24520

HELIUM
Helium refining by superfluidity Patent
[NASA-CASE-XNP-00733] c 06 N70-34946
High pressure helium purifier Patent
[NASA-CASE-XMF-06888] c 15 N71-24044
Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
[NASA-CASE-NPO-13346-1] c 36 N76-29575
Cryostat system for temperatures on the order of 2 deg K or less
[NASA-CASE-NPO-13459-1] c 31 N77-10229
Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029
Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082

HELIUM HYDROGEN ATMOSPHERES
Method and means for helium/hydrogen ratio measurement by alpha scattering
[NASA-CASE-NPO-14079-1] c 25 N80-20334

HELIUM IONS
Charge transfer reaction laser with preionization means
[NASA-CASE-NPO-13945-1] c 36 N78-27402

HELIUM-NEON LASERS
Laser communication system for controlling several functions at a location remote to the laser
[NASA-CASE-LAR-10311-1] c 16 N73-16536
Direction sensitive laser velocimeter --- determining the direction of particles using a helium-neon laser
[NASA-CASE-LAR-12177-1] c 36 N81-24422

HELMETS
Helmet assembly and latch means therefor Patent
[NASA-CASE-XMS-04935] c 05 N71-11190
Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193
Venting device for pressurized space suit helmet Patent
[NASA-CASE-XMS-09652-1] c 05 N71-26333
Helmet latching and attaching ring
[NASA-CASE-XMS-04670] c 54 N78-17678
Protective garment ventilation system
[NASA-CASE-XMS-04928] c 54 N78-17679
Helmet feedport
[NASA-CASE-XMS-09653] c 54 N78-17680
Emergency space-suit helmet
[NASA-CASE-MSC-10954-1] c 54 N78-18761
Helmet weight simulator
[NASA-CASE-LAR-12320-1] c 54 N81-27806

HELMHOLTZ RESONATORS
Acoustic ground impedance meter
[NASA-CASE-LAR-12995-1] c 35 N84-22933

HEMISPHERICAL SHELLS
Anti-glare improvement for optical imaging systems Patent
[NASA-CASE-NPO-10337] c 14 N71-15604

HERMETIC SEALS
Line cutter Patent
[NASA-CASE-XMS-04072] c 15 N70-42017
Hermetically sealed explosive release mechanism Patent
[NASA-CASE-XGS-00824] c 15 N71-16078
Traveling sealer for contoured table Patent
[NASA-CASE-XLA-01494] c 15 N71-24164
Method for detecting leaks in hermetically sealed containers Patent
[NASA-CASE-ERC-10045] c 15 N71-24910
Hermetic sealed vibration damper Patent
[NASA-CASE-MSC-10959] c 15 N71-26243
Method of forming ceramic to metal seal Patent
[NASA-CASE-XNP-01263-2] c 15 N71-26312
Pressure seal Patent
[NASA-CASE-NPO-10796] c 15 N71-27068
Tube sealing device Patent
[NASA-CASE-NPO-10431] c 15 N71-29132
Hermetically sealed elbow actuator
[NASA-CASE-MFS-14710] c 09 N72-22195
Heat transfer device
[NASA-CASE-NPO-11120-1] c 34 N74-18552
Device for tensioning test specimens within an hermetically sealed chamber
[NASA-CASE-MFS-23281-1] c 35 N77-22450
Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721
Hermetic seal for a shaft
[NASA-CASE-NPO-15115-1] c 37 N82-24493
Hermetically sealable package for hybrid solid-state electronic devices and the like
[NASA-CASE-MSC-20181-1] c 33 N82-28549
Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N86-19610

HEXAGONS
Hexagon solar power panel
[NASA-CASE-NPO-12148-1] c 44 N78-27515

HEXAMETHYLENETETRAMINE
Structural wood panels with improved fire resistance
[NASA-CASE-ARC-11174-1] c 24 N81-13999

HEXOKINASE
Use of the enzyme hexokinase for the reduction of inherent light levels
[NASA-CASE-XGS-05533] c 04 N69-27487

HIGH ACCELERATION
Universal pilot restraint suit and body support therefor Patent
[NASA-CASE-XAC-00405] c 05 N70-41819
High acceleration cable deployment system
[NASA-CASE-ARC-11256-1] c 15 N82-24272

HIGH ALTITUDE
Balanced bellows spirometer
[NASA-CASE-XAR-01547] c 05 N69-21473
Sun sensing guidance system for high altitude aircraft
[NASA-CASE-FRC-11052-1] c 04 N82-23231

HIGH ALTITUDE BALLOONS
Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015
Thin film strain transducer --- suitable for in-flight measurement of scientific balloon strain
[NASA-CASE-WLP-10055-2] c 35 N85-21598

HIGH ALTITUDE ENVIRONMENTS
Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779

HIGH ASPECT RATIO
Landing arrangement for aerial vehicles Patent
[NASA-CASE-XLA-00142] c 02 N70-33286
Landing arrangement for aerial vehicle Patent
[NASA-CASE-XLA-00806] c 02 N70-34858
Means for controlling aerodynamically induced twist
[NASA-CASE-LAR-12175-1] c 05 N82-28279

HIGH FREQUENCIES
Apparatus for ballasting high frequency transistors
[NASA-CASE-XGS-05003] c 09 N69-24318
Holder for crystal resonators Patent
[NASA-CASE-XNP-03637] c 15 N71-21311
Multiple varactor frequency doubler Patent
[NASA-CASE-XMF-04958-1] c 10 N71-26414
Filtering technique based on high-frequency plant modeling for high-gain control
[NASA-CASE-LAR-12215-1] c 08 N79-23097
Method of and apparatus for double-exposure holographic interferometry
[NASA-CASE-MFS-25405-1] c 35 N84-22929
JFET reflection socillator
[NASA-CASE-GSC-12555-1] c 33 N86-19515

HIGH GAIN
Filtering technique based on high-frequency plant modeling for high-gain control
[NASA-CASE-LAR-12215-1] c 08 N79-23097

HIGH PASS FILTERS
Radio frequency coaxial high pass filter Patent
[NASA-CASE-XGS-01418] c 09 N71-23573

HIGH POLYMERS
Variable stiffness polymeric damper
[NASA-CASE-XAC-11225] c 14 N69-27486

HIGH POWER LASERS
Large volume multiple-path nuclear pumped laser
[NASA-CASE-LAR-12592-1] c 36 N82-13415
Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418
High power metallic halide laser --- amplifying a copper chloride laser
[NASA-CASE-NPO-14782-1] c 36 N82-28616
Solar pumped laser
[NASA-CASE-LAR-12870-1] c 36 N84-16542
Magnetically switched power supply systems for lasers
[NASA-CASE-NPO-16402-1] c 36 N85-29265

HIGH PRESSURE
High-temperature, high-pressure spherical segment valve Patent
[NASA-CASE-XAC-00074] c 15 N70-34817
High pressure four-way valve Patent
[NASA-CASE-XNP-00214] c 15 N70-36908
High pressure filter Patent
[NASA-CASE-XNP-00732] c 28 N70-41447
Antiflutter ball check valve Patent
[NASA-CASE-XNP-01152] c 15 N70-41811
Liquid flow sight assembly Patent
[NASA-CASE-XLE-02998] c 14 N70-42074
High pressure regulator valve Patent
[NASA-CASE-XNP-00710] c 15 N71-10778
Hypersonic test facility Patent
[NASA-CASE-XLA-00378] c 11 N71-15925
High pressure air valve Patent
[NASA-CASE-MSC-11010] c 15 N71-19485

Valve seat with resilient support member Patent
[NASA-CASE-XKS-02582] c 15 N71-21234
High pressure helium purifier Patent
[NASA-CASE-XMF-06888] c 15 N71-24044
Liquid aerosol dispenser
[NASA-CASE-MFS-20829] c 12 N72-21310
Gas compression apparatus
[NASA-CASE-MSC-14757-1] c 35 N78-10428
Purging means and method for Xenon arc lamps
[NASA-CASE-NPO-11978] c 31 N78-17238
Shaft seal assembly for high speed and high pressure applications
[NASA-CASE-LEW-11873-1] c 37 N79-22475
Surface conforming thermal/pressure seal --- tail assemblies of space shuttle orbiters
[NASA-CASE-MSC-18422-1] c 37 N82-16408
High-temperature, high-pressure optical cell
[NASA-CASE-MFS-26000-1] c 74 N84-16986
Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788

HIGH RESOLUTION
High pulse rate high resolution optical radar system
[NASA-CASE-NPO-11426] c 07 N73-26119
High resolution Fourier interferometer-spectrophotopolarimeter
[NASA-CASE-NPO-13604-1] c 35 N76-31490
High resolution threshold photoelectron spectroscopy by electron attachment
[NASA-CASE-NPO-14078-1] c 72 N80-14877
Interferometer --- high resolution
[NASA-CASE-NPO-14448-1] c 74 N81-29963
High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898
Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] c 35 N84-34705

HIGH SPEED
Balanced bellows spirometer
[NASA-CASE-XAR-01547] c 05 N69-21473
High speed low level electrical stepping switch Patent
[NASA-CASE-XAC-00060] c 09 N70-39915
Impact testing machine Patent
[NASA-CASE-XNP-04817] c 14 N71-23225
Traversing probe Patent
[NASA-CASE-XFR-02007] c 12 N71-24692
High speed rolling element bearing
[NASA-CASE-LEW-10856-1] c 15 N72-22490
Two stage light gas-plasma projectile accelerator
[NASA-CASE-MFS-22287-1] c 75 N76-14931
Selective data segment monitoring system --- using shift registers
[NASA-CASE-ARC-10899-1] c 60 N77-19760
Shaft seal assembly for high speed and high pressure applications
[NASA-CASE-LEW-11873-1] c 37 N79-22475
High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898

HIGH SPEED CAMERAS
Electrically-operated rotary shutter Patent
[NASA-CASE-XNP-00637] c 14 N70-40273

HIGH STRENGTH
Method of making fiber composites
[NASA-CASE-LEW-10424-2-2] c 18 N72-25539
High resistance and raised modulus carbon fibers
[NASA-TM-76884] c 24 N85-25436

HIGH STRENGTH ALLOYS
High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-00726] c 17 N71-15644
Low temperature aluminum alloy Patent
[NASA-CASE-XMF-02786] c 17 N71-20743
Method of producing refractory composites containing tantalum carbide, hafnium carbide, and hafnium boride Patent
[NASA-CASE-XLE-03940] c 18 N71-26153
Nickel bas alloy
[NASA-CASE-LEW-10874-1] c 17 N72-22535
Cobalt-base alloy
[NASA-CASE-LEW-10436-1] c 17 N73-32415
High toughness-high strength iron alloy
[NASA-CASE-LEW-12542-3] c 26 N80-32484

HIGH STRENGTH STEELS
Prevention of hydrogen embrittlement of high strength steel by hydrazine compositions --- by adding potassium hydroxide to hydrazine
[NASA-CASE-NPO-12122-1] c 24 N76-14203
Process for making a high toughness-high strength ion alloy
[NASA-CASE-LEW-12542-2] c 26 N79-22271

HIGH TEMPERATURE
High temperature heat source Patent
[NASA-CASE-XLE-00490] c 33 N70-34545
Thermionic diode switch Patent
[NASA-CASE-NPO-10404] c 03 N71-12255
Hypersonic test facility Patent
[NASA-CASE-XLA-00378] c 11 N71-15925
Method for fiberizing ceramic materials Patent
[NASA-CASE-XNP-00597] c 18 N71-23088
Induction furnace with perforated tungsten foil shielding Patent
[NASA-CASE-XLE-04026] c 14 N71-23267
Method of forming ceramic to metal seal Patent
[NASA-CASE-XNP-01263-2] c 15 N71-26312
Method of making fiber composites
[NASA-CASE-LEW-10424-2-2] c 18 N72-25539
Method of forming superalloys
[NASA-CASE-LEW-10805-1] c 15 N73-13465
High temperature beryllium oxide capacitor
[NASA-CASE-LEW-11938-1] c 33 N76-15373
Low to high temperature energy conversion system
[NASA-CASE-NPO-13510-1] c 44 N77-32581
Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-2] c 35 N79-14346
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[NASA-CASE-LEW-12950-1] c 34 N82-11399
High-temperature, high-pressure optical cell
[NASA-CASE-MFS-26000-1] c 74 N84-16986
Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] c 26 N84-33555
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-5] c 27 N85-21352
Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489
Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721
Thermal-stress-free fasteners
[NASA-CASE-LAR-13325-1-SB] c 37 N86-20805
Flexible diaphragm: Extreme temperature usage
[NASA-CASE-MSC-20797-1] c 37 N86-20806

HIGH TEMPERATURE AIR
Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10612-1] c 12 N73-28144

HIGH TEMPERATURE ENVIRONMENTS
High-speed infrared furnace
[NASA-CASE-XLE-10466] c 17 N69-25147
Nickel-base alloy Patent
[NASA-CASE-XLE-00283] c 17 N70-36616
Strain sensor for high temperatures Patent
[NASA-CASE-XNP-09205] c 14 N71-17657
Trielectrode capacitive pressure transducer
[NASA-CASE-ARC-10711-2] c 33 N76-21390
Integrated structure vacuum tube
[NASA-CASE-ARC-10445-1] c 31 N76-31365
Installing fiber insulation
[NASA-CASE-MSC-16973-1] c 37 N81-14317
Corrosion resistant thermal barrier coating --- protecting gas turbines and other engine parts
[NASA-CASE-LEW-13088-1] c 26 N81-25188
High temperature penetrator assembly with bayonet plug and ramp-activated lock
[NASA-CASE-MSC-18526-1] c 37 N82-24494
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
Heat pipe cooled probe
[NASA-CASE-LAR-12588-1] c 34 N85-21568
Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233

HIGH TEMPERATURE FLUIDS
Self-cycling fluid heater
[NASA-CASE-MSC-15567-1] c 33 N73-16918
High-temperature microphone system --- for measuring pressure fluctuations in gases at high temperature
[NASA-CASE-LAR-12375-1] c 32 N79-24203

HIGH TEMPERATURE GASES
Instrument for the quantitative measurement of radiation at multiple wave lengths Patent
[NASA-CASE-XLE-00011] c 14 N70-41946
Ablative resin Patent
[NASA-CASE-XLE-05913] c 33 N71-14032
Transient heat transfer gauge Patent
[NASA-CASE-XNP-09802] c 33 N71-15641
Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10578-1] c 12 N73-25262
Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c 36 N77-26477
Start up system for hydrogen generator used with an internal combustion engine
[NASA-CASE-NPO-13849-1] c 28 N80-10374
Free-piston regenerative hot gas hydraulic engine
[NASA-CASE-LEW-12274-1] c 37 N80-31790
Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370
Curved film cooling admission tube
[NASA-CASE-LEW-13174-1] c 34 N83-27144

HIGH TEMPERATURE LUBRICANTS
Method of making self lubricating fluoride- metal composite materials Patent
[NASA-CASE-XLE-08511-2] c 18 N71-16105
Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710
Method of making bearing materials --- self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916

HIGH TEMPERATURE PLASMAS
Method and apparatus for producing a plasma Patent
[NASA-CASE-XLA-00147] c 25 N70-34661

HIGH TEMPERATURE PROPELLANTS
Feed system for an ion thruster
[NASA-CASE-NPO-10737] c 28 N72-11709

HIGH TEMPERATURE RESEARCH
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[NASA-CASE-XLE-09475-1] c 33 N71-15568
Light shield and infrared reflector for fatigue testing Patent
[NASA-CASE-XLA-01782] c 14 N71-26136
High temperature oxidation resistant cermet compositions
[NASA-CASE-NPO-13666-1] c 27 N77-13217

HIGH TEMPERATURE TESTS
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[NASA-CASE-XAC-00074] c 15 N70-34817
High temperature testing apparatus Patent
[NASA-CASE-XLE-00335] c 14 N70-35368
Apparatus for positioning and loading a test specimen Patent
[NASA-CASE-XLE-01300] c 15 N70-41993
Containerless high temperature calorimeter apparatus
[NASA-CASE-MFS-23923-1] c 35 N81-19426
Heating and cooling system --- for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221

HIGH VACUUM
Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974
Vacuum evaporator with electromagnetic ion steering Patent
[NASA-CASE-NPO-10331] c 09 N71-26701
Apparatus for absolute pressure measurement
[NASA-CASE-LAR-10000] c 14 N73-30394
Plasma cleaning device --- designed for high vacuum environments
[NASA-CASE-MFS-22906-1] c 75 N78-27913

HIGH VACUUM ORBITAL SIMULATOR
Space environmental work simulator Patent
[NASA-CASE-XMF-07488] c 11 N71-18773

HIGH VOLTAGES
Electrode and insulator with shielded dielectric junction
[NASA-CASE-XLE-03778] c 09 N69-21542
High-voltage cable Patent
[NASA-CASE-XNP-00738] c 09 N70-38201
High voltage pulse generator Patent
[NASA-CASE-MSC-12178-1] c 09 N71-13518
High voltage transistor circuit Patent
[NASA-CASE-XNP-06937] c 09 N71-19516
High voltage divider system Patent
[NASA-CASE-XLE-02008] c 09 N71-21583
High voltage distributor
[NASA-CASE-GSC-11849-1] c 33 N76-16332
Sustained arc ignition system
[NASA-CASE-LEW-12444-1] c 33 N77-28385
High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764
Electronic system for high power load control --- solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126
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[NASA-CASE-LEW-13401-2] c 44 N83-32177
High voltage isolation transformer
[NASA-CASE-GSC-12817-1] c 33 N85-29146
High voltage power supply
[NASA-CASE-GSC-12818-1] c 33 N85-29147

HIGHWAYS
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[NASA-CASE-LAR-12077-1] c 31 N81-25259
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[NASA-CASE-NPO-16038-1] c 37 N86-19605

HISTOGRAMS
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[NASA-CASE-XNP-09785] c 08 N69-21928

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Water cooled contactor for anode in carbon arc mechanism
[NASA-CASE-XMS-03700] c 15 N69-24266

Quick disconnect latch and handle combination Patent
[NASA-CASE-MFS-11132] c 15 N71-17649
Holder for crystal resonators Patent
[NASA-CASE-XNP-03637] c 15 N71-21311
Adjustable force probe
[NASA-CASE-MFS-20760] c 14 N72-33377
Fifth wheel
[NASA-CASE-FRC-10081-1] c 37 N77-14477
Combined docking and grasping device
[NASA-CASE-MFS-23088-1] c 37 N77-23483
Plural output optimetric sample cell and analysis system
[NASA-CASE-NPO-10233-1] c 74 N78-33913
Method and apparatus for holding two separate metal pieces together for welding
[NASA-CASE-GSC-12318-1] c 37 N80-23655
Head for high speed spinner having a vacuum chuck --- holding silicon dioxide chips for etching
[NASA-CASE-NPO-15227-1] c 37 N81-33482
Scriber for silicon wafers
[NASA-CASE-NPO-15539-1] c 37 N82-11469
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[NASA-CASE-MFS-25363-1] c 37 N82-12441
Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492
Compression test apparatus
[NASA-CASE-MSC-18723-1] c 35 N83-21312
Apparatus and method for inspecting a bearing ball --- eddy current inspection technique
[NASA-CASE-MFS-25833-1] c 35 N83-21316
Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491
Hot melt recharge system --- repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12881-1] c 27 N84-14323
Method and apparatus for gripping uniaxial fibrous composite materials
[NASA-CASE-LEW-13758-1] c 24 N84-27829
Apparatus for mounting a field emission cathode
[NASA-CASE-LEW-14108-1] c 33 N85-29149
Laboratory glassware rack for seismic safety
[NASA-CASE-ARC-11422-1] c 35 N86-20751

HOLE DISTRIBUTION (MECHANICS)
Thermocouple installation
[NASA-CASE-NPO-13540-1] c 35 N77-14409

HOLE MOBILITY
Depositing semiconductor films utilizing a thermal gradient
[NASA-CASE-XKS-04614] c 15 N69-21460

HOLLOW
Dual membrane hollow fiber fuel cell and method of operating same
[NASA-CASE-NPO-13732-1] c 44 N79-10513

HOLLOW CATHODES
Hydrogen hollow cathode ion source
[NASA-CASE-LEW-12940-1] c 72 N80-33186
Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] c 33 N85-21491

HOLOGRAPHIC INTERFEROMETRY
Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577
Method of and apparatus for double-exposure holographic interferometry
[NASA-CASE-MFS-25405-1] c 35 N84-22929

HOLOGRAPHY
Focused image holography with extended sources Patent
[NASA-CASE-ERC-10019] c 16 N71-15551
Hybrid holographic system using reflected and transmitted object beams simultaneously Patent
[NASA-CASE-MFS-20074] c 16 N71-15565
Recording and reconstructing focused image holograms Patent
[NASA-CASE-ERC-10017] c 16 N71-15567
Method and means for recording and reconstructing holograms without use of a reference beam Patent
[NASA-CASE-ERC-10020] c 16 N71-26154
Multiple image storing system for high speed projectile holography
[NASA-CASE-MFS-20596] c 14 N72-17324
Holographic thin film analyzer
[NASA-CASE-MFS-20823-1] c 16 N73-30476
Method and apparatus for checking the stability of a setup for making reflection type holograms
[NASA-CASE-MFS-21455-1] c 35 N74-15146
Real time moving scene holographic camera system
[NASA-CASE-MFS-21087-1] c 35 N74-17153
Holography utilizing surface plasmon resonances
[NASA-CASE-MFS-22040-1] c 35 N74-26946
Holographic system for nondestructive testing
[NASA-CASE-MFS-21704-1] c 35 N75-25124
Real time, large volume, moving scene holographic camera system
[NASA-CASE-MFS-22537-1] c 35 N75-27328
Holographic motion picture camera with Doppler shift compensation
[NASA-CASE-MFS-22517-1] c 35 N76-18402
Optical process for producing classification maps from multispectral data
[NASA-CASE-MSC-14472-1] c 43 N77-10584

HOMING DEVICES
Location identification system
[NASA-CASE-ERC-10324] c 07 N72-25173

HONEYCOMB CORES
Method of making inflatable honeycomb Patent
[NASA-CASE-XLA-03492] c 15 N71-22713
Method of forming shapes from planar sheets of thermosetting materials
[NASA-CASE-NPO-11036] c 15 N72-24522
Honeycomb core structures of minimal surface tubule sections
[NASA-CASE-ERC-10363] c 18 N72-25541

HONEYCOMB STRUCTURES
Method for making a heat insulating and ablative structure
[NASA-CASE-XMS-01108] c 15 N69-24322
Inflatable honeycomb Patent
[NASA-CASE-XLA-00204] c 32 N70-36536
Fluid flow control value Patent
[NASA-CASE-XLE-00703] c 15 N71-15967
Method and apparatus for making a heat insulating and ablative structure Patent
[NASA-CASE-XMS-02009] c 33 N71-20834
Honeycomb panel and method of making same Patent
[NASA-CASE-XMF-01402] c 18 N71-21651
Cryogenic thermal insulation Patent
[NASA-CASE-XMF-05046] c 33 N71-28892
Honeycomb panels formed of minimal surface periodic tubule layers
[NASA-CASE-ERC-10364] c 18 N72-25540
Bonding or repairing process
[NASA-CASE-MSC-12357] c 15 N73-12489
Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c 37 N74-25968
Vacuum pressure molding technique
[NASA-CASE-LAR-10073-1] c 37 N76-24575
Honeycomb-laminate composite structure
[NASA-CASE-ARC-10913-1] c 24 N78-15180
Method of making a composite sandwich lattice structure
[NASA-CASE-LAR-11898-2] c 24 N78-17149
Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c 24 N79-16915

HOOKS
Line hook with loop expander
[NASA-CASE-LAR-12875-1] c 37 N83-20156

HORIZON SCANNERS
Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27461
Multi-lobar scan horizon sensor Patent
[NASA-CASE-XGS-00809] c 21 N70-35427
Attitude orientation of spin-stabilized space vehicles Patent
[NASA-CASE-XLA-00281] c 21 N70-36943
Amplifier clamping circuit for horizon scanner Patent
[NASA-CASE-XGS-01784] c 10 N71-20782
Horizon sensor with a plurality of fixedly positioned radiation compensated radiation sensitive detectors Patent
[NASA-CASE-XNP-06957] c 14 N71-21088
Infrared horizon locator
[NASA-CASE-LAR-10726-1] c 14 N73-20475

HORIZONTAL SPACECRAFT LANDING
Variable-geometry winged reentry vehicle Patent
[NASA-CASE-XLA-00241] c 31 N70-37986

HORIZONTAL TAIL SURFACES
Translating horizontal tail Patent
[NASA-CASE-XLA-08801-1] c 02 N71-11043

HORN ANTENNAS
Antenna beam-shaping apparatus Patent
[NASA-CASE-XNP-00611] c 09 N70-35219
Parabolic reflector horn feed with spillover correction Patent
[NASA-CASE-XNP-00540] c 09 N70-35382
Horn feed having overlapping apertures Patent
[NASA-CASE-GSC-10452] c 07 N71-12396
Dual mode horn antenna Patent
[NASA-CASE-XNP-01057] c 07 N71-15907
Multi-purpose antenna employing dish reflector with plural coaxial horn feeds
[NASA-CASE-NPO-11264] c 07 N72-25174
Horn antenna having V-shaped corrugated slots
[NASA-CASE-LAR-11112-1] c 32 N76-15330
Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365
Reflex feed system for dual frequency antenna with frequency cutoff means
[NASA-CASE-NPO-14022-1] c 32 N78-31321
Dual band combiner for horn antenna
[NASA-CASE-NPO-14519-1] c 32 N80-23524
Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c 32 N80-29539
Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-25278

HOSES
Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MSC-20857-1] c 37 N86-20807

HOT CATHODES
Ion thrustor cathode
[NASA-CASE-XLE-07087] c 06 N69-39889

HOT PRESSING
Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729
Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491

HOT WORKING
Method for forming plastic materials Patent
[NASA-CASE-XMS-05516] c 15 N71-17803

HOT-WIRE ANEMOMETERS
Metallic hot wire anemometer --- for high speed wind tunnel tests
[NASA-CASE-ARC-10911-1] c 35 N77-20400
Method for making a hot wire anemometer and product thereof
[NASA-CASE-ARC-10900-1] c 35 N77-24454

HOT-WIRE FLOWMETERS
Hot wire liquid level detector for cryogenic fluids Patent
[NASA-CASE-XLE-00454] c 23 N71-17802
Flow separation detector
[NASA-CASE-ARC-11046-1] c 35 N78-14364
Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470

HOUSINGS
Sealed cabinetry Patent
[NASA-CASE-MSC-12168-1] c 09 N71-18600
Open type urine receptacle
[NASA-CASE-MSC-12324-1] c 05 N72-22093
Universal environment package with sectional component housing
[NASA-CASE-KSC-10031] c 15 N72-22486
Gas flow control device
[NASA-CASE-NPO-11479] c 15 N73-13462
Cryogenic gyroscope housing --- with annular disks for gas spin-up
[NASA-CASE-MFS-21136-1] c 35 N74-18323
Heat transfer device
[NASA-CASE-NPO-11120-1] c 34 N74-18552
Deformable bearing seat
[NASA-CASE-LEW-12527-1] c 37 N77-32500
Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N86-19613

HOVERING
Gravity stabilized flying vehicle Patent
[NASA-CASE-MSC-12111-1] c 02 N71-11039

HUBBLE SPACE TELESCOPE
System for the measurement of ultra-low stray light levels --- determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865

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Self-locking mechanical center joint
[NASA-CASE-LAR-12864-1] c 37 N85-30336

HUGONIOT EQUATION OF STATE
Determining particle density using known material Hugeniot curves
[NASA-CASE-LAR-11059-1] c 76 N75-12810

HULLS (STRUCTURES)
Hydrofoil Patent
[NASA-CASE-XLA-00229] c 12 N70-33305

HUMAN BEINGS
Skeletal stressing method and apparatus Patent
[NASA-CASE-ARC-10100-1] c 05 N71-24738
Emergency escape system Patent
[NASA-CASE-XKS-07814] c 15 N71-27067

HUMAN BODY
Mass measuring system Patent
[NASA-CASE-XMS-03371] c 05 N70-42000
Biomedical electrode arrangement Patent
[NASA-CASE-XFR-10856] c 05 N71-11189
Garments for controlling the temperature of the body Patent
[NASA-CASE-XMS-10269] c 05 N71-24147
Tilting table for ergometer and for other biomedical devices
[NASA-CASE-MFS-21010-1] c 05 N73-30078
Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MSC-14276-1] c 52 N77-14737

HUMAN FACTORS ENGINEERING
Shock absorbing support and restraint means Patent
[NASA-CASE-XMS-01240] c 05 N70-35152
Harness assembly Patent
[NASA-CASE-MFS-14671] c 05 N71-12341
Multiple circuit switch apparatus with improved pivot actuator structure Patent
[NASA-CASE-XAC-03777] c 10 N71-15909
Three-axis finger tip controller for switches Patent
[NASA-CASE-XAC-02405] c 09 N71-16089
Extravehicular tunnel suit system Patent
[NASA-CASE-MSC-12243-1] c 05 N71-24728
EEG sleep analyzer and method of operation Patent
[NASA-CASE-MSC-13282-1] c 05 N71-24729
Spacesuit mobility joints
[NASA-CASE-ARC-11058-1] c 54 N78-31735
Spacesuit torso closure
[NASA-CASE-ARC-11100-1] c 54 N78-31736
Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means
[NASA-CASE-NPO-13910-1] c 52 N79-27836
Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c 52 N81-25661
Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740
Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059
Thermal garment
[NASA-CASE-XMS-03694-1] c 54 N82-29002
Kinesimetric method and apparatus
[NASA-CASE-MSC-18929-1] c 39 N83-20280
Shoulder and hip joint for hard space suits and the like
[NASA-CASE-ARC-11534-1] c 54 N84-33021
Shoulder and hip joint for hard space suits and the like
[NASA-CASE-ARC-11543-1] c 54 N85-21986
Torso sizing ring construction for hard space suit
[NASA-CASE-ARC-11616-1] c 54 N85-21987
HUMAN PERFORMANCE
Color perception tester
[NASA-CASE-KSC-10278] c 05 N72-16015
HUMAN REACTIONS
Reaction tester
[NASA-CASE-MSC-13604-1] c 05 N73-13114
HUMAN WASTES
Reduced gravity fecal collector seat and urinal
[NASA-CASE-MFS-22102-1] c 54 N74-20725
Automatic biowaste sampling
[NASA-CASE-MSC-14640-1] c 54 N76-14804
Absorbent product to absorb fluids --- for collection of human wastes
[NASA-CASE-MSC-18223-1] c 24 N82-29362
Absorbent product and articles made therefrom
[NASA-CASE-MSC-18223-2] c 54 N84-11758
HUMIDITY
Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c 33 N80-23559
Apparatus for supplying conditioned air at a substantially constant temperature and humidity
[NASA-CASE-GSC-12191-1] c 31 N80-32583
HUMIDITY MEASUREMENT
A water-absorbing capacitor system for measuring relative humidity
[NASA-CASE-NPO-16544-1-CU] c 35 N86-20755
HYBRID CIRCUITS
Hermetically sealable package for hybrid solid-state electronic devices and the like
[NASA-CASE-MSC-20181-1] c 33 N82-28549
Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590
Hybrid power semiconductor
[NASA-CASE-LEW-13922-1] c 33 N86-20672
HYBRID COMPUTERS
Adaptive voting computer system
[NASA-CASE-MSC-13932-1] c 62 N74-14920
HYBRID PROPELLANTS
Solid propellant liner Patent
[NASA-CASE-XNP-09744] c 27 N71-16392
HYDRAULIC CONTROL
Shear modulated fluid amplifier Patent
[NASA-CASE-MFS-10412] c 12 N71-17578
Multiple orifice throttle valve Patent
[NASA-CASE-XNP-09698] c 15 N71-18580
Fluidic-thermochromic display device Patent
[NASA-CASE-ERC-10031] c 12 N71-18603
Hydraulic transformer Patent
[NASA-CASE-MFS-20830] c 15 N71-30028
Hydraulic drain means for servo-systems
[NASA-CASE-NPO-10316-1] c 37 N77-22479
HYDRAULIC EQUIPMENT
Support apparatus for dynamic testing Patent
[NASA-CASE-XMF-01772] c 11 N70-41677
Hydraulic support for dynamic testing Patent
[NASA-CASE-XMF-03248] c 11 N71-10604
Hydraulic drive mechanism Patent
[NASA-CASE-XMS-03252] c 15 N71-10658
Anti-backlash circuit for hydraulic drive system Patent
[NASA-CASE-XNP-01020] c 03 N71-12260
Hydraulic grip Patent
[NASA-CASE-XLA-05100] c 15 N71-17696
Shock absorber Patent
[NASA-CASE-XMS-03722] c 15 N71-21530
Hydraulic casting of liquid polymers Patent
[NASA-CASE-XNP-07659] c 06 N71-22975
Energy limiter for hydraulic actuators Patent
[NASA-CASE-ARC-10131-1] c 15 N71-27754
Mechanically limited, electrically operated hydraulic valve system for aircraft controls Patent
[NASA-CASE-XAC-00048] c 02 N71-29128
Hydraulic transformer Patent
[NASA-CASE-MFS-20830] c 15 N71-30028
Mechanically extendible telescoping boom
[NASA-CASE-NPO-11118] c 03 N72-25021
Geysering inhibitor for vertical cryogenic transfer pipe
[NASA-CASE-KSC-10615] c 15 N73-12486
Redundant hydraulic control system for actuators
[NASA-CASE-MFS-20944] c 15 N73-13466
Combined pressure regulator and shutoff valve
[NASA-CASE-NPO-13201-1] c 37 N75-15050
Ultrasonically bonded value assembly
[NASA-CASE-NPO-13360-1] c 37 N75-25185
Filter regeneration systems --- a system for regenerating a system filter in a fluid flow line
[NASA-CASE-MSC-14273-1] c 34 N75-33342
Quick disconnect filter coupling
[NASA-CASE-MFS-22323-1] c 37 N76-14463
Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c 52 N77-14735
Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432
Underground mineral extraction
[NASA-CASE-NPO-14140-1] c 43 N81-26509
Gas-to-hydraulic power converter
[NASA-CASE-MSC-18794-1] c 44 N83-14693
Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N84-28085
Personnel emergency carrier vehicle
[NASA-CASE-KSC-11282-1] c 85 N86-22452
HYDRAULIC FLUIDS
Free-piston regenerative hot gas hydraulic engine
[NASA-CASE-LEW-12274-1] c 37 N80-31790
HYDRAULIC JETS
Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N84-32398
HYDRAZINE ENGINES
Reciprocating engines
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[NASA-CASE-MSC-18255-1] c 74 N80-33210
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[NASA-CASE-XMF-08655] c 06 N71-11239
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[NASA-CASE-NPO-10671] c 15 N72-20443
Cosmic dust or other similar outer space particles impact location detector
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[NASA-CASE-NPO-10231] c 07 N71-26101
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Hypervelocity gun Patent
[NASA-CASE-XAC-05902] c 11 N71-18578

IMPREGNATING
Composite lamination method
[NASA-CASE-LAR-12019-1] c 24 N78-17150
Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187
High temperature silicon carbide impregnated insulating fabrics
[NASA-CASE-MSC-18832-1] c 27 N83-18908

IMPULSE GENERATORS
Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738

IMPURITIES
Method of making impurity-type semiconductor electrical contacts Patent
[NASA-CASE-XMF-01016] c 26 N71-17818
Method of mitigating titanium impurities effects in p-type silicon material for solar cells
[NASA-CASE-NPO-14635-1] c 44 N80-24741
Electromigration process for the purification of molten silicon during crystal growth
[NASA-CASE-NPO-14831-1] c 76 N82-30105
Advanced vapor supply manifold
[NASA-CASE-LAR-13259-1] c 37 N86-20800

IN-FLIGHT MONITORING
System for use in conducting wake investigation for a wing in flight --- differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300

INCIDENCE
Method of and means for testing a glancing-incidence mirror system of an X-ray telescope
[NASA-CASE-MFS-22409-2] c 74 N78-15880

INCIDENT RADIATION
Solar cell assembly --- for use under high intensity illumination
[NASA-CASE-LEW-11549-1] c 44 N77-19571
X-ray imaging mirror system and method of producing the same
[NASA-CASE-NPO-15828-1] c 74 N83-30222

INCLINATION
Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c 05 N77-17029

INCOHERENT SCATTERING
Rapidly pulsed, high intensity, incoherent light source
[NASA-CASE-XLE-2529-3] c 33 N74-20859

INDICATING INSTRUMENTS
Missile stage separation indicator and stage initiator Patent
[NASA-CASE-XLA-00791] c 03 N70-39930
Inductive liquid level detection system Patent
[NASA-CASE-XLE-01609] c 14 N71-10500
Apparatus for the determination of the existance or non-existence of a bonding between two members Patent
[NASA-CASE-MFS-13686] c 15 N71-18132
Hydrogen fire detection system with logic circuit to analyze the spectrum of temporal variations of the optical spectrum
[NASA-CASE-MFS-13130] c 10 N72-17173
Fatigue failure load indicator
[NASA-CASE-LAR-12027-1] c 39 N79-22537
System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075
Film advance indicator
[NASA-CASE-LAR-12474-1] c 35 N82-26628
Adjustable indicating device for load position
[NASA-CASE-MFS-28008-1] c 35 N85-20300
Fluid leak indicator
[NASA-CASE-MSC-20783-1] c 35 N86-20756

INDIUM ALLOYS
Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c 26 N77-29260

Solar cell collector
[NASA-CASE-LEW-12552-1] c 44 N78-25527

INDIUM COMPOUNDS
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826

INDUCTANCE
Current dependent filter inductance
[NASA-CASE-ERC-10139] c 09 N72-17154
Inductance device with vacuum insulation
[NASA-CASE-LEW-10330-1] c 09 N72-27226
Direct reading inductance meter
[NASA-CASE-NPO-13792-1] c 35 N77-32455

INDUCTION HEATING
Induction furnace with perforated tungsten foil shielding Patent
[NASA-CASE-XLE-04026] c 14 N71-23267
Apparatus for use in the production of ribbon-shaped crystals from a silicon melt
[NASA-CASE-NPO-14297-1] c 33 N81-19389
One-step dual purpose joining technique
[NASA-CASE-LAR-12595-1] c 33 N82-26571
Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083

INDUCTION MOTORS
Induction motor control system with voltage controlled oscillator circuit
[NASA-CASE-MFS-21465-1] c 10 N73-32145
Variable frequency inverter for ac induction motors with torque, speed and braking control
[NASA-CASE-MFS-22088-1] c 33 N75-15874
Power factor control system for AC induction motors
[NASA-CASE-MFS-23280-1] c 33 N78-10376
Three phase power factor controller
[NASA-CASE-MFS-25535-1] c 33 N81-12330
Power factor control system for ac induction motors
[NASA-CASE-MFS-23988-1] c 33 N81-27395
Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360
Magnetic field control --- electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569
Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319
Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190
Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] c 33 N84-14424
Three phase power factor controller
[NASA-CASE-MFS-25535-2] c 33 N84-22885
Motor power control circuit for ac induction motors
[NASA-CASE-MFS-25323-1] c 33 N84-22886
Coupling an induction motor type generator to ac power lines --- making windmill generators compatible with public power lines
[NASA-CASE-MFS-25302-2] c 33 N84-33660
Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661
Solar powered actuator with continuously variable auxiliary power control
[NASA-CASE-MFS-25637-1] c 44 N85-21769
Power control for ac motor
[NASA-CASE-MFS-25861-1] c 33 N85-22877

INDUCTORS
Inductive liquid level detection system Patent
[NASA-CASE-XLE-01609] c 14 N71-10500
Vacuum deposition apparatus Patent
[NASA-CASE-XMF-01667] c 15 N71-17647
Constant frequency output two stage induction machine systems Patent
[NASA-CASE-ERC-10065] c 09 N71-27364
Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393

INDUSTRIAL PLANTS
Process for making diamonds
[NASA-CASE-MFS-20698-2] c 15 N73-19457

INDUSTRIAL WASTES
Process of forming catalytic surfaces for wet oxidation reactions
[NASA-CASE-MSC-14831-1] c 25 N78-10225
Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747

INERT ATMOSPHERE
Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432

INERTIA
Bidirectional step torque filter with zero backlash characteristic Patent
[NASA-CASE-XGS-04227] c 15 N71-21744

INERTIAL CONFINEMENT FUSION
Method and apparatus for producing gas-filled hollow spheres --- target pellets for inertial confinement fusion
[NASA-CASE-NPO-14596-3] c 31 N83-31896
Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940

INERTIAL GUIDANCE
Hermetic sealed vibration damper Patent
[NASA-CASE-MSC-10959] c 15 N71-26243

INERTIAL NAVIGATION
Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047

INERTIAL PLATFORMS
Clamping assembly for inertial components Patent
[NASA-CASE-XMS-02184] c 15 N71-20813
Azimuth laying system Patent
[NASA-CASE-XMF-01669] c 21 N71-23289
Temperature compensated digital inertial sensor --- circuit for maintaining inertial element of gyroscope or accelerometer at constant position
[NASA-CASE-NPO-13044-1] c 35 N74-15094
Attitude control system
[NASA-CASE-MFS-22787-1] c 15 N77-10113
Rim inertial measuring system
[NASA-CASE-LAR-12052-1] c 18 N81-29152

INERTIAL REFERENCE SYSTEMS
Attitude control system Patent
[NASA-CASE-XGS-04393] c 21 N71-14159
Inertial reference apparatus Patent
[NASA-CASE-XAC-03107] c 23 N71-16098

INFLATABLE SPACECRAFT
Thermal control of space vehicles Patent
[NASA-CASE-XLA-01291] c 33 N70-36617
Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309
Rotating mandrel for assembly of inflatable devices Patent
[NASA-CASE-XLA-04143] c 15 N71-17687
Method of making an inflatable panel Patent
[NASA-CASE-XLA-03497] c 15 N71-23052
Orbital escape device Patent
[NASA-CASE-XMS-06162] c 31 N71-28851

INFLATABLE STRUCTURES
Aeroflexible structures
[NASA-CASE-XLA-06095] c 01 N69-39981
Life raft Patent
[NASA-CASE-XMS-00863] c 05 N70-34857
Life preserver Patent
[NASA-CASE-XMS-00864] c 05 N70-36493
Inflatable honeycomb Patent
[NASA-CASE-XLA-00204] c 32 N70-36536
Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00893] c 07 N70-40063
Excessive temperature warning system Patent
[NASA-CASE-XLA-01926] c 14 N71-15620
Inflation system for balloon type satellites Patent
[NASA-CASE-XGS-03351] c 31 N71-16081
Aerodynamic protection for space flight vehicles Patent
[NASA-CASE-XNP-02507] c 31 N71-17679
Self supporting space vehicle Patent
[NASA-CASE-XLA-00117] c 31 N71-17680
Conforming polisher for aspheric surface of revolution Patent
[NASA-CASE-XGS-02884] c 15 N71-22705
Method of making inflatable honeycomb Patent
[NASA-CASE-XLA-03492] c 15 N71-22713
Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
Inflatable tether Patent
[NASA-CASE-XMS-10993] c 15 N71-28936
Inflatable transpiration cooled nozzle
[NASA-CASE-MFS-20619] c 28 N72-11708
Modification of one man life raft
[NASA-CASE-LAR-10241-1] c 54 N74-14845
Emergency space-suit helmet
[NASA-CASE-MSC-10954-1] c 54 N78-18761
Pressure control valve --- inflating flexible bladders
[NASA-CASE-ARC-11251-1] c 37 N81-17433
Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718
Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443

INFORMATION RETRIEVAL
Multiple hologram recording and readout system Patent
[NASA-CASE-ERC-10151] c 16 N71-29131

INFRARED DETECTORS
Temperature sensitive capacitor device
[NASA-CASE-XNP-09750] c 14 N69-39937
Sight switch using an infrared source and sensor Patent
[NASA-CASE-XMF-03934] c 09 N71-22985
Infrared detectors
[NASA-CASE-LAR-10728-1] c 14 N73-12445
Doped Josephson tunneling junction for use in a sensitive IR detector
[NASA-CASE-NPO-13348-1] c 33 N75-31332
Multispectral scanner optical system
[NASA-CASE-MSC-18255-1] c 74 N80-33210
Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N83-13360
Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597
Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590

INFRARED INSTRUMENTS
Infrared scanner Patent
[NASA-CASE-XLA-00120] c 21 N70-33181
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373

INFRARED INTERFEROMETERS
Over-under double-pass interferometer
[NASA-CASE-NPO-13999-1] c 35 N78-18395

INFRARED LASERS
Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c 35 N74-11284
Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c 74 N77-26942
Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029

INFRARED RADIATION
High-speed infrared furnace
[NASA-CASE-XLE-10466] c 17 N69-25147
High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c 35 N74-18088
Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N85-30779

INFRARED REFLECTION
Electromagnetic radiation energy arrangement --- coatings for solar energy absorption and infrared reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186

INFRARED SCANNERS
Infrared scanner Patent
[NASA-CASE-XLA-00120] c 21 N70-33181
Infrared horizon locator
[NASA-CASE-LAR-10726-1] c 14 N73-20475

INFRARED SPECTRA
Diatomic infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426

INFRARED SPECTROMETERS
Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699
Cooled echelle grating spectrometer --- for space telescope applications
[NASA-CASE-NPO-14372-1] c 35 N80-26635

INFRARED SPECTROSCOPY
Apparatus for providing a servo drive signal in a high-speed stepping interferometer
[NASA-CASE-NPO-13569-2] c 35 N79-14348

INFRARED TELESCOPES
Optical system with reflective baffles
[NASA-CASE-ARC-11502-1] c 74 N86-20125

INFRASONIC FREQUENCIES
Resonant infrasonic gauging apparatus
[NASA-CASE-MSC-11847-1] c 14 N72-11363

INHIBITORS
Inhibited solid propellant composition containing beryllium hydride
[NASA-CASE-NPO-10866-1] c 28 N79-14228

INITIATORS (EXPLOSIVES)
Missile stage separation indicator and stage initiator Patent
[NASA-CASE-XLA-00791] c 03 N70-39930
Safe-arm initiator Patent
[NASA-CASE-LAR-10372] c 09 N71-18599
Electroexplosive device
[NASA-CASE-NPO-13858-1] c 28 N79-11231

INJECTION
Thickness measuring and injection device Patent
[NASA-CASE-MFS-20261] c 14 N71-27005
High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523

INJECTION LASERS
Arrangement for damping the resonance in a laser diode
[NASA-CASE-NPO-15980-1] c 36 N85-30305

INJECTORS
Rocket propellant injector Patent
[NASA-CASE-XLE-00103] c 28 N70-33241

Rocket engine injector Patent
[NASA-CASE-XLE-00111] c 28 N70-38199
Injector for bipropellant rocket engines Patent
[NASA-CASE-XMF-00148] c 28 N70-38710
Dust particle injector for hypervelocity accelerators Patent
[NASA-CASE-XGS-06628] c 24 N71-16213
Control valve and co-axial variable injector Patent
[NASA-CASE-XNP-09702] c 15 N71-17654
Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736
Bipropellant injector
[NASA-CASE-XNP-09461] c 28 N72-23809
Coaxial injector for reaction motors
[NASA-CASE-NPO-11095] c 15 N72-25455
Injector for use in high voltage isolators for liquid feed lines
[NASA-CASE-NPO-11377] c 15 N73-27406
Rocket injector head
[NASA-CASE-XMF-04592-1] c 20 N79-21125
Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFG-25989-1] c 20 N85-20008

INKS
Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] c 35 N84-22930

INLET FLOW
High pressure four-way valve Patent
[NASA-CASE-XNP-00214] c 15 N70-36908
Gas turbine combustor Patent
[NASA-CASE-LEW-10286-1] c 28 N71-28915
Airflow control system for supersonic inlets
[NASA-CASE-LEW-11188-1] c 02 N74-20646
Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
Shock position sensor for supersonic inlets --- measuring pressure in the throat of a supersonic inlet
[NASA-CASE-LEW-11915-1] c 35 N76-14431
Method for fabricating a mass spectrometer inlet leak
[NASA-CASE-GSC-12077-1] c 35 N77-24455
Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976

INLET NOZZLES
Rocket injector head
[NASA-CASE-XMF-04592-1] c 20 N79-21125

INLET PRESSURE
Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466
Shock position sensor for supersonic inlets --- measuring pressure in the throat of a supersonic inlet
[NASA-CASE-LEW-11915-1] c 35 N76-14431

INOCULATION
Automatic inoculating apparatus --- includes movable carraige, drive motor, and swabbing motor
[NASA-CASE-LAR-11074-1] c 51 N75-13502

INORGANIC COATINGS
Diffuse reflective coating
[NASA-CASE-GSC-11214-1] c 06 N73-13128
Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233

INORGANIC COMPOUNDS
Method of making membranes
[NASA-CASE-XNP-04264] c 03 N69-21337
Inorganic solid film lubricants Patent
[NASA-CASE-XMF-03988] c 15 N71-21403
Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739
Inorganic thermal control coatings
[NASA-CASE-MFS-20011] c 18 N72-22566
Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530
Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910

INORGANIC PEROXIDES
Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229
Process for the preparation of calcium superoxide
[NASA-CASE-ARC-11053-1] c 25 N79-10162

INPUT
Remodulator filter Patent
[NASA-CASE-NPO-10198] c 09 N71-24806
Active RC networks
[NASA-CASE-ARC-10020] c 10 N72-17172
High-speed multiplexing of keyboard data inputs
[NASA-CASE-NPO-14554-1] c 60 N81-27814

INPUT/OUTPUT ROUTINES
Analog to digital converter
[NASA-CASE-NPO-13385-1] c 33 N76-16345

INSERTION
Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means
[NASA-CASE-NPO-13910-1] c 52 N79-27836

INSERTION LOSS
Insertion loss measuring apparatus having transformer means connected across a pair of bolometers Patent
[NASA-CASE-XNP-01193] c 10 N71-16057

INSERTS
Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-20802

INSPECTION
Automatic visual inspection system for microelectronics
[NASA-CASE-NPO-13282] c 38 N78-17396
Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330
Apparatus and method for inspecting a bearing ball --- eddy current inspection technique
[NASA-CASE-MFS-25833-1] c 35 N83-21316

INSTALLING
Device for installing rocket engines
[NASA-CASE-MFS-19220-1] c 20 N76-22296
Thermocouple installation
[NASA-CASE-NPO-13540-1] c 35 N77-14409
A method and technique for installing light-weight fragile, high-temperature fiber insulation
[NASA-CASE-MSC-18934-3] c 24 N82-26387
Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443

INSTRUMENT ERRORS
Radiation direction detector including means for compensating for photocell aging Patent
[NASA-CASE-XLA-00183] c 14 N70-40239

INSTRUMENT FLIGHT RULES
Controlled visibility device for an aircraft Patent
[NASA-CASE-XFR-04147] c 11 N71-10748

INSTRUMENT ORIENTATION
Plurality of photosensitive cells on a pyramidical base for planetary trackers
[NASA-CASE-XNP-04180] c 07 N69-39736
Azimuth laying system Patent
[NASA-CASE-XMF-01669] c 21 N71-23289
Optical machine tool alignment indicator Patent
[NASA-CASE-XAC-09489-1] c 15 N71-26673
Solar energy powered heliotrope
[NASA-CASE-GSC-10945-1] c 21 N72-31637

INSTRUMENT PACKAGES
Apparatus for ejection of an instrument cover
[NASA-CASE-XMF-04132] c 15 N69-27502
Method and apparatus for shock protection Patent
[NASA-CASE-XLA-00482] c 15 N70-36409
Foam generator Patent
[NASA-CASE-XLA-00838] c 03 N70-36778
Velocity package Patent
[NASA-CASE-XLA-01339] c 31 N71-15692
Processing for producing a sterilized instrument Patent
[NASA-CASE-XNP-09763] c 14 N71-20461
Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523

INSTRUMENTS
Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436
Linear differential pressure sensor Patent
[NASA-CASE-XMF-01974] c 14 N71-22752
Precision thrust gage Patent
[NASA-CASE-XGS-02319] c 14 N71-22965
Self-calibrating displacement transducer Patent
[NASA-CASE-XLA-00781] c 09 N71-22999
Sensing probe
[NASA-CASE-LEW-10281-1] c 14 N72-17327
Scientific experiment flexible mount
[NASA-CASE-MSC-12372-1] c 31 N72-25842
Magnetic suspension and pointing system
[NASA-CASE-LAR-11889-2] c 37 N78-27424
Rotary leveling base platform
[NASA-CASE-ARC-10981-1] c 37 N78-27425

INSULATED STRUCTURES
Piping arrangement through a double chamber structure
[NASA-CASE-XNP-08882] c 15 N69-39935

INSULATION
Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193
Foamed in place ceramic refractory insulating material Patent
[NASA-CASE-XGS-02435] c 18 N71-22998
Method of removing insulated material from insulated wires
[NASA-CASE-FRC-10038] c 15 N72-20444
Inductance device with vacuum insulation
[NASA-CASE-LEW-10330-1] c 09 N72-27226
Insulated electrocardiographic electrodes --- without paste electrolyte
[NASA-CASE-MSC-14339-1] c 05 N75-24716
Silica reusable surface insulation
[NASA-CASE-ARC-10721-1] c 27 N76-22376
Two-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-1] c 27 N76-22377
Three-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-2] c 27 N76-23426
Field effect transistor and method of construction thereof
[NASA-CASE-MFS-23312-1] c 33 N78-27326
Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388
Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33807

INSULATORS
Electrostatic thrustor with improved insulators Patent
[NASA-CASE-XLE-01902] c 28 N71-10574
High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-2] c 33 N83-24763

INTAKE SYSTEMS
Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788
The engine air intake system
[NASA-CASE-ARC-10761-1] c 07 N77-18154
Fluid sampling device
[NASA-CASE-GSC-12143-1] c 35 N77-32456
Passive propellant system
[NASA-CASE-MFS-23642-1] c 20 N80-10278
Reciprocating engines
[NASA-CASE-MSC-16239-1] c 37 N81-32510
Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178

INTEGRATED CIRCUITS
Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
Pulse rise time and amplitude detector Patent
[NASA-CASE-XMF-08804] c 09 N71-24717
Method and apparatus for swept-frequency impedance measurements of welds
[NASA-CASE-ARC-10176-1] c 15 N72-21464
Integrated circuit including field effect transistor and cermet resistor
[NASA-CASE-GSC-10835-1] c 09 N72-33205
Derivation of a tangent function using an integrated circuit four-quadrant multiplier
[NASA-CASE-MSC-13907-1] c 10 N73-26230
Coaxial inverted geometry transistor having buried emitter
[NASA-CASE-ARC-10330-1] c 09 N73-32112
Integrated circuit package with lead structure and method of preparing the same
[NASA-CASE-MFS-21374-1] c 33 N74-12951
Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c 33 N74-34638
Four phase logic systems --- including integrated microcircuits
[NASA-CASE-MSC-14240-1] c 33 N75-14957
Integrable power gyrator --- with Z-matrix design using parallel transistors
[NASA-CASE-MFS-22342-1] c 33 N75-30428
Cross correlation anomaly detection system
[NASA-CASE-NPO-13283] c 38 N78-17395
Complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c 33 N79-12321
Method for analyzing radiation sensitivity of integrated circuits
[NASA-CASE-NPO-14350-1] c 33 N80-14332
Solar cell system having alternating current output
[NASA-CASE-LEW-12806-2] c 44 N81-12542
Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348
Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N83-13360
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-256704-1] c 33 N84-22884
Method of examining microcircuit patterns
[NASA-CASE-NPO-16299-1] c 33 N85-20250
Split-cross-bridge resistor for testing for proper fabrication of integrated circuits
[NASA-CASE-NPO-16021-1] c 33 N85-30187
Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N86-20587

INTEGRATORS
Operational integrator Patent
[NASA-CASE-NPO-10230] c 09 N71-12520
Variable duration pulse integrator Patent
[NASA-CASE-XLA-01219] c 10 N71-23084

Variable width pulse integrator Patent
[NASA-CASE-XLA-03356] c 10 N71-23315
Feedback integrator with grounded capacitor Patent
[NASA-CASE-XAC-10607] c 10 N71-23669
High speed phase detector Patent
[NASA-CASE-XNP-01306-2] c 09 N71-24596
Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227

INTERFACES
Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N84-12092
LDV multiplexer interface
[NASA-CASE-ARC-11536-1] c 33 N85-30202

INTERFACIAL TENSION
Passive propellant system
[NASA-CASE-MFS-23642-1] c 20 N80-10278
Sphere forming method and apparatus
[NASA-CASE-NPO-15070-1] c 31 N83-35176

INTERFEROMETERS
Apparatus for controlling the velocity of an electromechanical drive for interferometers and the like Patent
[NASA-CASE-XGS-03532] c 14 N71-17627
Incremental motion drive system Patent
[NASA-CASE-XNP-08897] c 15 N71-17694
Laser grating interferometer Patent
[NASA-CASE-XLA-04295] c 16 N71-24170
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[NASA-CASE-LAR-10204] c 14 N71-27215
Interferometer-polarimeter
[NASA-CASE-NPO-11239] c 14 N73-12446
Interferometric rotation sensor
[NASA-CASE-ARC-10278-1] c 14 N73-25463
High resolution Fourier interferometer-spectrophotopolarimeter
[NASA-CASE-NPO-13604-1] c 35 N76-31490
Apparatus for providing a servo drive signal in a high-speed stepping interferometer
[NASA-CASE-NPO-13569-2] c 35 N79-14348
Velocity servo for continuous scan Fourier interference spectrometer
[NASA-CASE-NPO-14093-1] c 35 N80-20563
Interferometer
[NASA-CASE-NPO-14502-1] c 74 N81-17888
Interferometer --- high resolution
[NASA-CASE-NPO-14448-1] c 74 N81-29963
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[NASA-CASE-NPO-14258-1] c 35 N81-33448
Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N82-33681
Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949
Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577

INTERFEROMETRY
Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391
Interferometric locating system
[NASA-CASE-NPO-14173-1] c 04 N80-32359
Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629

INTERLAYERS
Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235

INTERMEDIATE FREQUENCY AMPLIFIERS
Multichannel logarithmic RF level detector
[NASA-CASE-LAR-11021-1] c 32 N76-14321

INTERMETALLICS
Twisted multifilament superconductor
[NASA-CASE-LEW-11726-1] c 26 N73-26752
Synthesis of superconducting compounds by explosive compaction of powders
[NASA-CASE-MFS-20861-1] c 18 N73-32437
Improved nickel base coating alloy --- oxidation resistant coatings
[NASA-CASE-LEW-13834-1] c 26 N83-24639
Oxidizing seal for a turbine tip gas path
[NASA-CASE-LEW-14053-1] c 37 N85-34402
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267

INTERNAL COMBUSTION ENGINES
Fuel injection pump for internal combustion engines Patent
[NASA-CASE-MSC-12139-1] c 28 N71-14058
Continuous detonation reaction engine Patent
[NASA-CASE-XMF-06926] c 28 N71-22983
System for preconditioning a combustible vapor
[NASA-CASE-NPO-12072] c 28 N72-22772
System for minimizing internal combustion engine pollution emission
[NASA-CASE-NPO-13402-1] c 37 N76-18457
Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c 37 N77-31497
Hydrogen-fueled engine
[NASA-CASE-NPO-13763-1] c 44 N78-33526
Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13828-1] c 37 N79-11405
Indicated mean-effective pressure instrument
[NASA-CASE-LEW-12661-1] c 35 N79-14345
Start up system for hydrogen generator used with an internal combustion engine
[NASA-CASE-NPO-13849-1] c 28 N80-10374
Supercritical fuel injection system
[NASA-CASE-LEW-12990-1] c 07 N81-29129
Automatic compression adjusting mechanism for internal combustion engines
[NASA-CASE-MSC-18807-1] c 37 N83-36483
Real time pressure signal system for a rotary engine
[NASA-CASE-LEW-13622-1] c 07 N84-22559

INTERPLANETARY SPACE
Heat shield Patent
[NASA-CASE-XMS-00486] c 33 N70-33344
RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171

INTERPLANETARY SPACECRAFT
Transpirationally cooled heat ablation system Patent
[NASA-CASE-XMS-02677] c 31 N70-42075

INTERPLANETARY TRAJECTORIES
Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
[NASA-CASE-XNP-00708] c 14 N70-35394

INTRACRANIAL PRESSURE
Induction powered biological radiosonde
[NASA-CASE-ARC-11120-1] c 52 N80-18691

INTRAOCULAR PRESSURE
Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12955-1] c 52 N80-14684
Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12723-1] c 52 N80-18690

INTRAVEHICULAR ACTIVITY
Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012

INTRAVENOUS PROCEDURES
Bio-medical flow sensor --- intrvenous procedures
[NASA-CASE-MSC-18761-1] c 52 N83-27577

INTRUSION
Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c 33 N80-23559

INVENTIONS
Active notch filter network with variable notch depth, width and frequency
[NASA-CASE-FRC-11055-1] c 33 N80-29583
Ion-exchange hollow fibers
[NASA-CASE-NPO-13309-1] c 25 N81-19244

INVERTED CONVERTERS (DC TO AC)
Inverter ratio failure detector
[NASA-CASE-NPO-13160-1] c 35 N74-18090
Variable frequency inverter for ac induction motors with torque, speed and braking control
[NASA-CASE-MFS-22088-1] c 33 N75-15874
Solar cell system having alternating current output
[NASA-CASE-LEW-12806-2] c 44 N81-12542
Power converter
[NASA-CASE-FRC-11014-1] c 33 N82-18494
Ferroresonant regulated power supply
[NASA-CASE-NPO-15977-1-CU] c 33 N86-20673

INVERTERS
Transient-compensated SCR inverter
[NASA-CASE-XLA-08507] c 09 N69-39984
Inverter oscillator with voltage feedback
[NASA-CASE-NPO-10760] c 09 N72-25254
Overload protection system for power inverter
[NASA-CASE-NPO-13872-1] c 33 N76-10377
Module failure isolation circuit for paralleled inverters --- preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254
Base drive for paralleled inverter systems
[NASA-CASE-NPO-14163-1] c 33 N81-14220
Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953
Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227

IODINE
Method of using photovoltaic cell using poly-N-vinylcarbazole complex Patent
[NASA-CASE-NPO-10373] c 03 N71-18698
Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
Iodine generator for reclaimed water purification
[NASA-CASE-MSC-14632-1] c 54 N78-14784

IODINE COMPOUNDS
Perfluoroalkyl polytriazines containing pendent iododifluoromethyl groups
[NASA-CASE-ARC-11241-1] c 25 N81-14016

IODINE ISOTOPES
Production of high purity I-123
[NASA-CASE-LEW-10518-1] c 24 N72-33681
Method of producing I-123 --- by bombardment of cesium causing spallation
[NASA-CASE-LEW-11390-2] c 25 N76-27383
Production of I-123
[NASA-CASE-LEW-11390-3] c 25 N76-29379

ION ACCELERATORS
Process for glass coating an ion accelerator grid Patent
[NASA-CASE-LEW-10278-1] c 15 N71-28582
Ion beam accelerator system
[NASA-CASE-NPO-15547-1] c 72 N84-16959

ION BEAMS
Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173
Dispensing targets for ion beam particle generators
[NASA-CASE-NPO-13112-1] c 73 N74-26767
Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c 20 N74-31269
Method of constructing dished ion thruster grids to *provide hole array spacing compensation*
[NASA-CASE-LEW-11876-1] c 20 N76-21276
Ion beam thruster shield
[NASA-CASE-LEW-12082-1] c 20 N77-10148
Targets for producing high purity I-123
[NASA-CASE-LEW-10518-3] c 25 N78-27226
Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
Ion beam accelerator system
[NASA-CASE-NPO-15547-1] c 72 N84-16959
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565
Improved heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] c 20 N84-32425
Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] c 31 N85-20153
Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267
Generation of intense negative ion beams
[NASA-CASE-NPO-16061-1-CU] c 72 N85-29701
Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N86-20587

ION CHARGE
Quadrupole mass filter with means to generate a noise spectrum exclusive of the resonant frequency of the desired ions to deflect stable ions
[NASA-CASE-XNP-04231] c 14 N73-32325

ION CONCENTRATION
Deposition of alloy films --- on irregulary shaped metal object
[NASA-CASE-LEW-11262-1] c 27 N74-13270

ION CURRENTS
System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518

ION CYCLOTRON RADIATION
Ion and electron detector for use in an ICR spectrometer
[NASA-CASE-NPO-13479-1] c 35 N77-10492

ION DENSITY (CONCENTRATION)
Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994

ION ENGINES
Ion thrustor cathode
[NASA-CASE-XLE-07087] c 06 N69-39889
High-vacuum condenser tank for ion rocket tests Patent
[NASA-CASE-XLE-00168] c 11 N70-33278
Ion thruster cathode Patent Application
[NASA-CASE-LEW-10814-1] c 28 N70-35422
Ion rocket Patent
[NASA-CASE-XLE-00376] c 28 N70-37245
Rocket engine Patent
[NASA-CASE-XLE-00342] c 28 N70-37980
Thrust dynamometer Patent
[NASA-CASE-XLE-00702] c 14 N70-40203
Apparatus for increasing ion engine beam density Patent
[NASA-CASE-XLE-00519] c 28 N70-41576
Double optic system for ion engine Patent
[NASA-CASE-XNP-02839] c 28 N70-41922
Electrostatic ion engine having a permanent magnetic circuit Patent
[NASA-CASE-XLE-01124] c 28 N71-14043

Electrostatic ion rocket engine Patent
[NASA-CASE-XLE-02066] c 28 N71-15661
System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518
Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23081
Electronic cathode having a brush-like structure and a relatively thick oxide emissive coating Patent
[NASA-CASE-XLE-04501] c 09 N71-23190
Ion engine casing construction and method of making same Patent
[NASA-CASE-XNP-06942] c 28 N71-23293
Ion thruster accelerator system Patent
[NASA-CASE-LEW-10106-1] c 28 N71-26642
Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781
High efficiency ionizer assembly Patent
[NASA-CASE-XNP-01954] c 28 N71-28850
Feed system for an ion thruster
[NASA-CASE-NPO-10737] c 28 N72-11709
Ion thruster with a combination keeper electrode and electron baffle
[NASA-CASE-NPO-11880] c 28 N73-24783
Single grid accelerator for an ion thrustor
[NASA-CASE-XLE-10453-2] c 28 N73-27699
Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276
Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N85-20248

ION EXCHANGE MEMBRANE ELECTROLYTES
Method of making membranes
[NASA-CASE-XNP-04264] c 03 N69-21337
Ion-exchange membrane with platinum electrode assembly Patent
[NASA-CASE-XMS-02063] c 03 N71-29044
Formulated plastic separators for soluble electrode cells --- rubber-ion transport membranes
[NASA-CASE-LEW-12358-1] c 44 N79-17313
Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187
Method of making formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-2] c 25 N82-21268
Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680

ION EXCHANGE RESINS
Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530
Dialysis system --- using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687
Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076

ION EXCHANGING
Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076
Ion-exchange hollow fibers
[NASA-CASE-NPO-13309-1] c 25 N81-19244

ION EXTRACTION
Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148
Ion beam accelerator system
[NASA-CASE-NPO-15547-1] c 72 N84-16959

ION IMPLANTATION
Method of making V-MOS field effect transistors utilizing a two-step anisotropic etching and ion implantation
[NASA-CASE-GSC-12515-1] c 33 N81-26360

ION IRRADIATION
Modification of the electrical and optical properties of polymers --- ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437

ION MOTION
Ion mass spectrometer
[NASA-CASE-NPO-15423-1] c 35 N84-28016

ION PLATING
Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524
Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695

ION PROBES
Ion microprobe mass spectrometer for analyzing fluid materials Patent
[NASA-CASE-ERC-10014] c 14 N71-28863

ION PROPULSION
Variable thrust ion engine utilizing thermally decomposable solid fuel Patent
[NASA-CASE-XMF-00923] c 28 N70-36802
Ion rocket Patent
[NASA-CASE-XLE-00376] c 28 N70-37245
Rocket engine Patent
[NASA-CASE-XLE-00342] c 28 N70-37980
Method of producing porous tungsten ionizers for ion rocket engines Patent
[NASA-CASE-XLE-00455] c 28 N70-38197
Double optic system for ion engine Patent
[NASA-CASE-XNP-02839] c 28 N70-41922
Electron bombardment ion engine Patent
[NASA-CASE-XNP-04124] c 28 N71-21822
Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173
Ion thruster accelerator system Patent
[NASA-CASE-LEW-10106-1] c 28 N71-26642
Feed system for an ion thruster
[NASA-CASE-NPO-10737] c 28 N72-11709
Ion thruster
[NASA-CASE-LEW-10770-1] c 28 N72-22770
Ion thruster magnetic field control
[NASA-CASE-LEW-10835-1] c 28 N72-22771
Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
Apparatus for forming dished ion thruster grids
[NASA-CASE-LEW-11694-2] c 37 N76-14461
Anode for ion thruster
[NASA-CASE-LEW-12048-1] c 20 N77-20162
Closed Loop solar array-ion thruster system with power control circuitry
[NASA-CASE-LEW-12780-1] c 20 N79-20179
A dc to dc converter
[NASA-CASE-MFS-25430-1] c 33 N84-16453
Ring-cusp ion thruster with shell anode
[NASA-CASE-LEW-13881-1] c 20 N85-21256

ION PUMPS
Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13663-1] c 35 N77-14406

ION SOURCES
Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618
Multilayer porous ionizer Patent
[NASA-CASE-XNP-04338] c 17 N71-23046
Ion thruster accelerator system Patent
[NASA-CASE-LEW-10106-1] c 28 N71-26642
High efficiency ionizer assembly Patent
[NASA-CASE-XNP-01954] c 28 N71-28850
Apparatus for ionization analysis
[NASA-CASE-ARC-10017-1] c 14 N72-29464
Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c 20 N74-31269
Multitarget sequential sputtering apparatus
[NASA-CASE-NPO-13345-1] c 37 N75-19684
Miniature cyclotron resonance ion source using small permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27163
Hydrogen hollow cathode ion source
[NASA-CASE-LEW-12940-1] c 72 N80-33186

ION TRAPS (INSTRUMENTATION)
Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994

IONIC MOBILITY
Solid electrolyte cell
[NASA-CASE-NPO-15269-1] c 44 N82-29710

IONIZATION CHAMBERS
Baseline stabilization system for ionization detector Patent
[NASA-CASE-XNP-03128] c 10 N70-41991
Electron bombardment ion engine Patent
[NASA-CASE-XNP-04124] c 28 N71-21822
A multichannel photoionization chamber for absorption analysis Patent
[NASA-CASE-ERC-10044-1] c 14 N71-27090
Apparatus for ionization analysis
[NASA-CASE-ARC-10017-1] c 14 N72-29464

IONIZATION GAGES
Ionization vacuum gauge Patent
[NASA-CASE-XNP-00646] c 14 N70-35666
Pressure monitoring with a plurality of ionization gauges controlled at a central location Patent
[NASA-CASE-XLE-00787] c 14 N71-21090
Apparatus for ionization analysis
[NASA-CASE-ARC-10017-1] c 14 N72-29464
Ultrahigh vacuum measuring ionization gauge
[NASA-CASE-XLA-05087] c 14 N73-30391

IONIZATION POTENTIALS
Field ionization electrodes Patent
[NASA-CASE-ERC-10013] c 09 N71-26678
Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374

IONIZED GASES
Probes having ring and primary sensor at same potential to prevent collection of stray wall currents in ionized gases
[NASA-CASE-XLE-00690] c 25 N69-39884
Transient heat transfer gauge Patent
[NASA-CASE-XNP-09802] c 33 N71-15641
Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148
Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] c 33 N85-21491

IONIZERS
Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MSC-10960-1] c 03 N71-24718
Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184

IONIZING RADIATION
High-voltage cable Patent
[NASA-CASE-XNP-00738] c 09 N70-38201
Reinforced polyquinoxaline gasket and method of preparing the same --- resistant to ionizing radiation and liquid hydrogen temperatures
[NASA-CASE-MFS-21364-1] c 37 N74-18126

IONOSPHERE
Ionospheric battery Patent
[NASA-CASE-XGS-01593] c 03 N70-35408

IONOSPHERIC DISTURBANCES
Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846

IONOSPHERIC ELECTRON DENSITY
Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846

IONOSPHERIC SOUNDING
Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846

IONS
Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477

IRIDIUM
Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-2] c 35 N79-14346

IRISES (MECHANICAL APERTURES)
Active microwave irises and windows
[NASA-CASE-LAR-10513-1] c 07 N72-25170
Thin film microwave iris
[NASA-CASE-LAR-10511-1] c 09 N72-29172

IRON
Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721

IRON ALLOYS
Tantalum modified ferritic iron base alloys
[NASA-CASE-LEW-12095-1] c 26 N78-18182
Process for making a high toughness-high strength ion alloy
[NASA-CASE-LEW-12542-2] c 26 N79-22271
High toughness-high strength iron alloy
[NASA-CASE-LEW-12542-3] c 26 N80-32484
Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233

IRON CHLORIDES
Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205

IRON COMPOUNDS
Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246

IRRADIATION
Solar sensor having coarse and fine sensing with matched preirradiated cells and method of selecting cells Patent
[NASA-CASE-XLA-01584] c 14 N71-23269
Apparatus for obtaining isotropic irradiation of a specimen
[NASA-CASE-MFS-20095] c 24 N72-11595
Production of pure metals
[NASA-CASE-LEW-10906-1] c 25 N74-30502
Method for analyzing radiation sensitivity of integrated circuits
[NASA-CASE-NPO-14350-1] c 33 N80-14332

Vitra-violet process for producing flame resistant polyamides and products produced thereby --- protective clothing for high oxygen environments
[NASA-CASE-MSC-16074-1] c 27 N80-26446

IRRIGATION
Solar-powered pump
[NASA-CASE-NPO-13567-1] c 44 N76-29701

ISOLATION
High voltage isolation transformer
[NASA-CASE-GSC-12817-1] c 33 N85-29146

ISOLATORS
Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781
Positive isolation disconnect
[NASA-CASE-MSC-16043-1] c 37 N79-11402
Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350

ISOPROPYL ALCOHOL
Highly fluorinated polymers
[NASA-CASE-MFS-11492] c 06 N73-30102

ISOTHERMAL LAYERS
Isothermal cover with thermal reservoirs Patent
[NASA-CASE-MFS-20355] c 33 N71-25353

ISOTHERMAL PROCESSES
Opto-mechanical subsystem with temperature compensation through isothemal design
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[NASA-CASE-LAR-11141-1] c 07 N74-32418
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[NASA-CASE-LAR-11674-1] c 07 N76-18117
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[NASA-CASE-XNP-10475] c 15 N71-24679
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[NASA-CASE-NPO-10646] c 15 N71-28467
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[NASA-CASE-NPO-14258-1] c 35 N81-33448
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LASER MATERIALS
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LASER OUTPUTS
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[NASA-CASE-ERC-10187] c 16 N69-31343
Laser Doppler system for measuring three dimensional vector velocity Patent
[NASA-CASE-MFS-20386] c 21 N71-19212
Amplitude modulated laser transmitter Patent
[NASA-CASE-XMS-04269] c 16 N71-22895
Laser fluid velocity detector Patent
[NASA-CASE-XAC-10770-1] c 16 N71-24828
Laser calibrator Patent
[NASA-CASE-XLA-03410] c 16 N71-25914
Method and apparatus for optical modulating a light signal Patent
[NASA-CASE-GSC-10216-1] c 23 N71-26722
Laser machining apparatus Patent
[NASA-CASE-HQN-10541-2] c 15 N71-27135
Optical frequency waveguide and transmission system Patent
[NASA-CASE-HQN-10541-4] c 16 N71-27183
Laser communication system for controlling several functions at a location remote to the laser
[NASA-CASE-LAR-10311-1] c 16 N73-16536
Power supply for carbon dioxide lasers
[NASA-CASE-GSC-11222-1] c 16 N73-32391
Thermomagnetic recording and magneto-optic playback system having constant intensity laser beam control
[NASA-CASE-NPO-11317-2] c 36 N74-13205
Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c 36 N74-20009
Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c 28 N74-27425
Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c 36 N75-15028
Dually mode locked Nd:YAG laser
[NASA-CASE-GSC-11746-1] c 36 N75-19654
Laser head for simultaneous optical pumping of several dye lasers --- with single flash lamp
[NASA-CASE-LAR-11341-1] c 36 N75-19655
Acoustically controlled distributed feedback laser
[NASA-CASE-NPO-13175-1] c 36 N75-31427
Optical noise suppression device and method --- laser light exposing film
[NASA-CASE-MSC-12640-1] c 74 N76-31998
Length controlled stabilized mode-lock ND:YAG laser
[NASA-CASE-GSC-11571-1] c 36 N77-25499
Apparatus for photon excited catalysis
[NASA-CASE-NPO-13566-1] c 25 N77-32255
Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510
High power metallic halide laser --- amplifying a copper chloride laser
[NASA-CASE-NPO-14782-1] c 36 N82-28616
Collimated beam manifold with the number of output beams variable at a given output angle
[NASA-CASE-MFS-25312-1] c 74 N83-17305
Method of and apparatus for double-exposure holographic interferometry
[NASA-CASE-MFS-25405-1] c 35 N84-22929
Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] c 36 N84-22944
Projection lens scanning laser velocimeter system
[NASA-CASE-ARC-11547-1] c 36 N85-20320
Magnetically switched power supply systems for lasers
[NASA-CASE-NPO-16402-1] c 36 N85-29265
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
Long gain length solar pumped box laser
[NASA-CASE-LAR-13256-1] c 36 N86-19596
Multiplex electric discharge gas laser system
[NASA-CASE-NPO-16433-1] c 36 N86-20778

LASER PLASMAS
Continuous plasma laser --- method and apparatus for producing intense, coherent, monochromatic light from low temperature plasma
[NASA-CASE-XNP-04167-3] c 36 N77-19416

LASER PUMPING
Laser apparatus
[NASA-CASE-GSC-12237-1] c 36 N80-14384
Large volume multiple-path nuclear pumped laser
[NASA-CASE-LAR-12592-1] c 36 N82-13415
Solar pumped laser
[NASA-CASE-LAR-12870-1] c 36 N84-16542

LASER RANGE FINDERS
Laser measuring system for incremental assemblies --- measuring wire-wrapped frame assemblies in spark chambers
[NASA-CASE-GSC-12321-1] c 36 N82-16396
Optical distance measuring instrument
[US-PATENT-APPL-SN-406820] c 74 N83-13982

LASER RANGER/TRACKER
Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125

LASER SPECTROMETERS
Method and apparatus for enhancing laser absorption sensitivity
[NASA-CASE-NPO-16567-1-CU] c 36 N86-20777

LASER SPECTROSCOPY
Stark effect spectrophone for continuous absorption spectra monitoring --- a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159

LASER WINDOWS
Optical scanner --- laser doppler velocimeters
[NASA-CASE-LAR-11711-1] c 74 N78-17866

LASERS
Laser apparatus for removing material from rotating objects Patent
[NASA-CASE-MFS-11279] c 16 N71-20400
Laser grating interferometer Patent
[NASA-CASE-XLA-04295] c 16 N71-24170
Optical frequency waveguide Patent
[NASA-CASE-HQN-10541-1] c 07 N71-26291
Laser camera and diffusion filter therefore Patent
[NASA-CASE-NPO-10417] c 16 N71-33410
Optical probing of supersonic flows with statistical correlation
[NASA-CASE-MFS-20642] c 14 N72-21407
A technique for breaking ice in the path of a ship
[NASA-CASE-LAR-10815-1] c 16 N72-22520
Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397
Tunable cavity resonator with ramp shaped supports
[NASA-CASE-HQN-10790-1] c 36 N74-11313
Short range laser obstacle detector --- for surface vehicles using laser diode array
[NASA-CASE-NPO-11856-1] c 36 N74-15145
Long range laser traversing system
[NASA-CASE-GSC-11262-1] c 36 N74-21091
Deep trap, laser activated image converting system
[NASA-CASE-NPO-13131-1] c 36 N75-19652
Laser system with an antiresonant optical ring
[NASA-CASE-HQN-10844-1] c 36 N75-19653
Acoustically controlled distributed feedback laser
[NASA-CASE-NPO-13175-1] c 36 N75-31427
Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
[NASA-CASE-NPO-13346-1] c 36 N76-29575
Polarization compensator for optical communications
[NASA-CASE-GSC-11782-1] c 74 N76-30053
Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c 74 N77-26942
Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346
Method and apparatus for splitting a beam of energy --- optical communication
[NASA-CASE-GSC-12083-1] c 73 N78-32848
Shock isolator for operating a diode laser on a closed-cycle refrigerator
[NASA-CASE-GSC-12297-1] c 37 N79-28549
Method of and apparatus for double-exposure holographic interferometry
[NASA-CASE-MFS-25405-1] c 35 N84-22929
Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] c 36 N84-22944
Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] c 36 N84-28065
Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N86-20780

LASING
Long gain length solar pumped box laser
[NASA-CASE-LAR-13256-1] c 36 N86-19596

LATCHES
Despin weight release Patent
[NASA-CASE-XLA-00679] c 15 N70-38601
Helmet assembly and latch means therefor Patent
[NASA-CASE-XMS-04935] c 05 N71-11190
Quick disconnect latch and handle combination Patent
[NASA-CASE-MFS-11132] c 15 N71-17649
Latching mechanism Patent
[NASA-CASE-XMS-03745] c 15 N71-21076
Latch/ejector unit Patent
[NASA-CASE-XLA-03538] c 15 N71-24897
Latching mechanism Patent
[NASA-CASE-MSC-15474-1] c 15 N71-26162
Latch mechanism
[NASA-CASE-MSC-12549-1] c 37 N74-27903
Latching device
[NASA-CASE-MFS-21606-1] c 37 N75-19685
Load regulating latch
[NASA-CASE-MSC-19535-1] c 37 N77-32499
Helmet latching and attaching ring
[NASA-CASE-XMS-04670] c 54 N78-17678
Low temperature latching solenoid
[NASA-CASE-MSC-18106-1] c 33 N82-11357
CAM controlled retractable door latch
[NASA-CASE-MSC-20304-1] c 37 N82-31690
Mechanical end joint system for structural column elements
[NASA-CASE-LAR-12482-1] c 37 N82-32732
Self-indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N84-20860
Latching mechanism for deployable-restowable columns
[NASA-CASE-LAR-13169-1] c 37 N84-25063
Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991
Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N86-19613

LATERAL CONTROL
Three-axis controller Patent
[NASA-CASE-XAC-01404] c 05 N70-41581
Roll attitude star sensor system Patent
[NASA-CASE-XNP-01307] c 21 N70-41856

High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088
Vortex-lift roll-control device
[NASA-CASE-LAR-11868-2] c 08 N79-14108
Leading edge flap system for aircraft control augmentation
[NASA-CASE-LAR-12787-2] c 08 N85-19985

LATERAL STABILITY
Annular wing
[NASA-CASE-FRC-11007-2] c 05 N82-26277

LATEX
Molten salt pyrolysis of latex --- synthetic hydrocarbon fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261
Process for preparation of large-particle-size monodisperse latexes
[NASA-CASE-MFS-25000-1] c 25 N81-19242

LATHES
Apparatus for machining geometric cones Patent
[NASA-CASE-XMS-04292] c 15 N71-22722
Lathe tool bit and holder for machining fiberglass materials
[NASA-CASE-XLA-10470] c 15 N72-21489

LAUNCH ESCAPE SYSTEMS
Emergency escape system Patent
[NASA-CASE-XKS-02342] c 05 N71-11199
Device for separating occupant from an ejection seat Patent
[NASA-CASE-XMS-04625] c 05 N71-20718

LAUNCH VEHICLE CONFIGURATIONS
Rotating launch device for a remotely piloted aircraft
[NASA-CASE-ARC-10979-1] c 09 N77-19076

LAUNCH VEHICLES
A support technique for vertically oriented launch vehicles
[NASA-CASE-XLA-02704] c 11 N69-21540
Method and apparatus for detection and location of microleaks Patent
[NASA-CASE-XMF-02307] c 14 N71-10779
Three stage rocket vehicle with parallel staging
[NASA-CASE-MFS-25878-1] c 18 N84-27787

LAUNCHERS
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469

LAUNCHING PADS
Missile launch release system Patent
[NASA-CASE-XMF-03198] c 30 N70-40353
Remote controlled tubular disconnect Patent
[NASA-CASE-XLA-01396] c 03 N71-12259
Validation device for spacecraft checkout equipment Patent
[NASA-CASE-XKS-10543] c 07 N71-26292

LAY-UP
Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235

LAYERS
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-1] c 28 N78-24365

LEACHING
Process for the leaching of AP from propellant
[NASA-CASE-NPO-14109-1] c 28 N80-23471

LEAD (METAL)
Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664
Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524
Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35338

LEAD SULFIDES
Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N83-13360

LEAD TELLURIDES
Bonding thermoelectric elements to nonmagnetic refractory metal electrodes
[NASA-CASE-XGS-04554] c 15 N69-39786
Segmenting lead telluride-silicon germanium thermoelements Patent
[NASA-CASE-XGS-05718] c 26 N71-16037

LEADING EDGE FLAPS
Leading edge vortex flaps for drag reduction --- during subsonic flight
[NASA-CASE-LAR-12750-1] c 02 N81-19016
Leading edge flap system for aircraft control augmentation
[NASA-CASE-LAR-12787-2] c 08 N85-19985

LEADING EDGES
Reentry vehicle leading edge Patent
[NASA-CASE-XLA-00165] c 31 N70-33242
Leading edge curvature based on convective heating Patent
[NASA-CASE-XLA-01486] c 01 N71-23497
Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c 24 N77-19170
Pumped vortex
[NASA-CASE-LAR-12625-1] c 02 N83-19715
Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N84-12092

LEAKAGE
Rocket chamber leak test fixture
[NASA-CASE-XFR-09479] c 14 N69-27503
Method and apparatus for detection and location of microleaks Patent
[NASA-CASE-XMF-02307] c 14 N71-10779
Leak detector Patent
[NASA-CASE-LAR-10323-1] c 12 N71-17573
Hard space suit Patent
[NASA-CASE-XAC-07043] c 05 N71-23161
Method for leakage testing of tanks Patent
[NASA-CASE-XMF-02392] c 32 N71-24285
Leak detector wherein a probe is monitored with ultraviolet radiation Patent
[NASA-CASE-ERC-10034] c 15 N71-24896
Method for detecting leaks in hermetically sealed containers Patent
[NASA-CASE-ERC-10045] c 15 N71-24910
Method and apparatus for detecting gross leaks Patent
[NASA-CASE-ERC-10033] c 14 N71-26672
Orifice gross leak tester Patent
[NASA-CASE-ERC-10150] c 14 N71-28992
Leak detector
[NASA-CASE-MFS-21761-1] c 35 N75-15931
Vacuum leak detector
[NASA-CASE-LAR-11237-1] c 35 N75-19612
Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21225
Carbon granule probe microphone for leak detection --- recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597
Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N85-21631
Fluid leak indicator
[NASA-CASE-MSC-20783-1] c 35 N86-20756
Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-20802
Self-compensating solenoid valve
[NASA-CASE-ARC-11620-1] c 37 N86-21859

LEG (ANATOMY)
Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c 52 N77-14735
Rotational joint assembly for the prosthetic leg
[NASA-CASE-KSC-11004-1] c 54 N77-30749
Mechanical energy storage device for hip disarticulation
[NASA-CASE-ARC-10916-1] c 52 N78-10686
Drop foot corrective device
[NASA-CASE-LAR-12259-2] c 54 N86-22112

LENS DESIGN
Chromatically corrected virtual image display --- lens design for flight simulators
[NASA-CASE-LAR-12251-1] c 74 N79-14892

LENSES
High temperature lens construction Patent
[NASA-CASE-XNP-04111] c 14 N71-15622
Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03844-1] c 14 N71-26474
Petzval type objective including field shaping lens Patent
[NASA-CASE-GSC-10700] c 23 N71-30027
Method and apparatus for eliminating coherent noise in a coherent energy imaging system without destroying spatial coherence
[NASA-CASE-GSC-11133-1] c 23 N72-11568
Plural beam antenna
[NASA-CASE-GSC-11013-1] c 09 N73-19234
Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c 36 N77-32478
Process for producing a well-adhered durable optical coating on an optical plastic substrate --- abrasion resistant polymethyl methacrylate lenses
[NASA-CASE-ARC-11039-1] c 74 N78-32854
Chromatically corrected virtual image visual display --- reducing eye strain in flight simulators
[NASA-CASE-LAR-12251-1] c 74 N80-27185
Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
Scanning afocal laser velocimeter projection lens system
[NASA-CASE-LAR-12328-1] c 36 N82-32712
Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577

LENTICULAR BODIES
Space and atmospheric reentry vehicle Patent
[NASA-CASE-XGS-00260] c 31 N70-37924

LEVEL (HORIZONTAL)
Hot wire liquid level detector for cryogenic fluids Patent
[NASA-CASE-XLE-00454] c 23 N71-17802
Rotary leveling base platform
[NASA-CASE-ARC-10981-1] c 37 N78-27425

LEVEL (QUANTITY)
Spherical tank gauge Patent
[NASA-CASE-XMS-06236] c 14 N71-21007
Positive dc to positive dc converter Patent
[NASA-CASE-XMF-14301] c 09 N71-23188

LEVELING
Adjustable attitude guide device Patent
[NASA-CASE-XLA-07911] c 15 N71-15571
Electrical switching device Patent
[NASA-CASE-NPO-10037] c 09 N71-19610
Adjustable support
[NASA-CASE-NPO-10721] c 15 N72-27484
Automatically operable self-leveling load table
[NASA-CASE-MFS-22039-1] c 09 N75-12968

LEVITATION
Gas levitator having fixed levitation node for containerless processing
[NASA-CASE-MFS-25509-1] c 35 N83-24828
Closed loop electrostatic levitation system
[NASA-CASE-NPO-15553-1] c 33 N85-29142

LEVITATION MELTING
High temperature acoustic levitator
[NASA-CASE-NPO-16022-1] c 71 N85-22105

LIFE (DURABILITY)
Hollow rolling element bearings
[NASA-CASE-LEW-11087-3] c 37 N74-21064
Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888
Improved heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] c 20 N84-32425
Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-34913
Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-163371-1] c 33 N85-20251

LIFE DETECTORS
Use of the enzyme hexokinase for the reduction of inherent light levels
[NASA-CASE-XGS-05533] c 04 N69-27487
Lyophilized reaction mixtures Patent
[NASA-CASE-XGS-05532] c 06 N71-17705

LIFE RAFTS
Life raft Patent
[NASA-CASE-XMS-00863] c 05 N70-34857
Life raft stabilizer
[NASA-CASE-MSC-12393-1] c 02 N73-26006
Modification of one man life raft
[NASA-CASE-LAR-10241-1] c 54 N74-14845

LIFE SUPPORT SYSTEMS
Shock absorbing support and restraint means Patent
[NASA-CASE-XMS-01240] c 05 N70-35152
Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
Extravehicular tunnel suit system Patent
[NASA-CASE-MSC-12243-1] c 05 N71-24728
Foreshortened convolute section for a pressurized suit Patent
[NASA-CASE-XMS-09637-1] c 05 N71-24730
Orbital escape device Patent
[NASA-CASE-XMS-06162] c 31 N71-28851
Specialized halogen generator for purification of water Patent
[NASA-CASE-XLA-08913] c 14 N71-28933
Life support system
[NASA-CASE-MSC-12411-1] c 05 N72-20096
Air removal device
[NASA-CASE-XLA-8914] c 15 N73-12492
Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012
Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c 25 N74-12813
Helmet feedport
[NASA-CASE-XMS-09653] c 54 N78-17680
Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721
Air removal device --- life support systems
[NASA-CASE-XLA-8914-2] c 25 N82-21269

LIFT
Pumped vortex
[NASA-CASE-LAR-12625-1] c 02 N83-19715

LIFT DEVICES
Device for handling heavy loads
[NASA-CASE-XNP-04969] c 11 N69-27466
Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176

Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c 02 N71-26110
Ferry system
[NASA-CASE-LAR-10574-1] c 11 N73-13257
High lift aircraft --- with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c 05 N75-25914
Device for installing rocket engines
[NASA-CASE-MFS-19220-1] c 20 N76-22296
Vortex-lift roll-control device
[NASA-CASE-LAR-11868-2] c 08 N79-14108

LIFT DRAG RATIO
Ring wing tension vehicle Patent
[NASA-CASE-XLA-04901] c 31 N71-24315
Annular wing
[NASA-CASE-FRC-11007-2] c 05 N82-26277
Slotted variable camber flap
[NASA-CASE-LAR-12541-1] c 05 N84-22551
Over the wing propeller
[NASA-CASE-LAR-13134-1] c 05 N85-19980

LIFTING BODIES
Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176
Lifting body Patent Application
[NASA-CASE-FRC-10063] c 01 N71-12217
Lift balancing device
[NASA-CASE-LAR-10348-1] c 11 N73-12264

LIFTING REENTRY VEHICLES
Space and atmospheric reentry vehicle Patent
[NASA-CASE-XGS-00260] c 31 N70-37924
Variable geometry manned orbital vehicle Patent
[NASA-CASE-XLA-03691] c 31 N71-15674
Flight craft Patent
[NASA-CASE-XAC-02058] c 02 N71-16087

LIGANDS
Carboranylmethylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750

LIGHT (VISIBLE RADIATION)
Anti-glare improvement for optical imaging systems Patent
[NASA-CASE-NPO-10337] c 14 N71-15604
Maksutov spectrograph Patent
[NASA-CASE-XLA-10402] c 14 N71-29041
Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-16484
Optical fiber tactile sensor
[NASA-CASE-NPO-15375-1] c 74 N84-11921
Light transmitting window assembly
[NASA-CASE-MSC-18417-1] c 74 N85-29750

LIGHT AIRCRAFT
Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c 02 N71-26110

LIGHT BEAMS
Spectroscope equipment using a slender cylindrical reflector as a substitute for a slit Patent
[NASA-CASE-XGS-08269] c 23 N71-26206
Optical communications system Patent
[NASA-CASE-XLA-01090] c 16 N71-28963
Multiple hologram recording and readout system Patent
[NASA-CASE-ERC-10151] c 16 N71-29131
Rhomboid prism pair for rotating the plane of parallel light beams
[NASA-CASE-ARC-11311-1] c 74 N83-13978
Collimated beam manifold with the number of output beams variable at a given output angle
[NASA-CASE-MFS-25312-1] c 74 N83-17305
Double window viewing chamber assembly
[NASA-CASE-MFS-28057-1] c 09 N85-28951
Laser Schlieren crystal monitor
[NASA-CASE-MFS-28060-1] c 76 N85-30932
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629

LIGHT EMITTING DIODES
Photoelectric detection system --- manufacturing automation
[NASA-CASE-MFS-23776-1] c 33 N82-28545
Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733
Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139
Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N86-20780

LIGHT GAS GUNS
Hypervelocity gun Patent
[NASA-CASE-XAC-05902] c 11 N71-18578

LIGHT MODULATION
Retrodirective modulator Patent
[NASA-CASE-GSC-10062] c 14 N71-15605
Light intensity modulator controller Patent
[NASA-CASE-XMS-04300] c 09 N71-19479
Method and apparatus for optical modulating a light signal Patent
[NASA-CASE-GSC-10216-1] c 23 N71-26722
Optical communications system Patent
[NASA-CASE-XLA-01090] c 16 N71-28963
Lamp modulator
[NASA-CASE-KSC-10565] c 09 N72-25250
Polarization compensator for optical communications
[NASA-CASE-GSC-11782-1] c 74 N76-30053
Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510
Fluorescent radiation converter
[NASA-CASE-GSC-12528-1] c 74 N81-24900

LIGHT SCATTERING
The 2 deg/90 deg laboratory scattering photometer --- particulate refractivity in hydrosols
[NASA-CASE-GSC-12088-1] c 74 N78-13874

LIGHT SCATTERING METERS
System for the measurement of ultra-low stray light levels --- determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865

LIGHT SOURCES
Light radiation direction indicator with a baffle of two parallel grids
[NASA-CASE-XNP-03930] c 14 N69-24331
High intensity heat and light unit Patent
[NASA-CASE-XLA-00141] c 09 N70-33312
Photosensitive device to detect bearing deviation Patent
[NASA-CASE-XNP-00438] c 21 N70-35089
Light position locating system Patent
[NASA-CASE-XNP-01059] c 23 N71-21821
Optical systems having spatially invariant outputs
[NASA-CASE-ERC-10248] c 14 N72-17323
Ultrastable calibrated light source
[NASA-CASE-MSC-12293-1] c 14 N72-27411
Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214
Interferometric rotation sensor
[NASA-CASE-ARC-10278-1] c 14 N73-25463
Attitude sensor
[NASA-CASE-LAR-10586-1] c 19 N74-15089
Very high intensity light source using a cathode ray tube --- electron beams
[NASA-CASE-XNP-01296] c 33 N75-27250
Electric arc light source having undercut recessed anode
[NASA-CASE-ARC-10266-1] c 33 N75-29318
Uniform variable light source
[NASA-CASE-NPO-11429-1] c 74 N77-21941

LIGHT TRANSMISSION
Hybrid holographic system using reflected and transmitted object beams simultaneously Patent
[NASA-CASE-MFS-20074] c 16 N71-15565
Optical characteristics measuring apparatus Patent
[NASA-CASE-XNP-08840] c 23 N71-16365
Optical monitor panel Patent
[NASA-CASE-XKS-03509] c 14 N71-23175
Solar cell panels with light transmitting plate
[NASA-CASE-NPO-10747] c 03 N72-22042
Optical frequency waveguide and transmission system
[NASA-CASE-HQN-10541-3] c 23 N72-23695
Light regulator
[NASA-CASE-LAR-10836-1] c 26 N72-27784
Transmitting and reflecting diffuser --- for ultraviolet light
[NASA-CASE-LAR-10385-2] c 70 N74-13436
Optical instrument employing reticle having preselected visual response pattern formed thereon
[NASA-CASE-ARC-10976-1] c 74 N77-22950
Transmitting and reflecting diffuser --- using ultraviolet grade fused silica coatings
[NASA-CASE-LAR-10385-3] c 74 N78-15879
Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
Light transmitting window assembly
[NASA-CASE-MSC-18417-1] c 74 N85-29750

LIGHT VALVES
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826
Wind dynamic range video camera
[NASA-CASE-MFS-25750-1] c 32 N86-20647

LIGHTING EQUIPMENT
Internal work light Patent
[NASA-CASE-XKS-05932] c 09 N71-26787
Pressurized lighting system
[NASA-CASE-KSC-10644] c 09 N72-27227
Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315

LIGHTNING
Determining distance to lightning strokes from a single station
[NASA-CASE-KSC-10698] c 07 N73-20175
Lightning tracking system
[NASA-CASE-KSC-10729-1] c 09 N73-32110
Automatic lightning detection and photographic system
[NASA-CASE-KSC-10728-1] c 14 N73-32319
Lightning current measuring systems
[NASA-CASE-KSC-10807-1] c 33 N75-26246
Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c 33 N79-10337
Lightning current detector
[NASA-CASE-KSC-11057-1] c 33 N79-14305
Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779

LIMBS (ANATOMY)
Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772
Apparatus for determining changes in limb volume
[NASA-CASE-MSC-18759-1] c 52 N83-27578

LIMITER CIRCUITS
Variable duration pulse integrator Patent
[NASA-CASE-XLA-01219] c 10 N71-23084
Noise limiter Patent
[NASA-CASE-NPO-10169] c 10 N71-24844
Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895
Low level signal limiter
[NASA-CASE-XLE-04791] c 32 N74-22096
Inrush current limiter
[NASA-CASE-GSC-11789-1] c 33 N77-14333

LINE SPECTRA
Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015
Optical scanner
[NASA-CASE-GSC-12897-1] c 74 N84-25450

LINEAR ACCELERATORS
Linear accelerator frequency control system Patent
[NASA-CASE-XGS-05441] c 10 N71-22962

LINEAR ARRAYS
Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288
Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N86-20780

LINEAR CIRCUITS
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N86-20679

LINEAR INTEGRATED CIRCUITS
Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590

LINEAR POLARIZATION
Wind dynamic range video camera
[NASA-CASE-MFS-25750-1] c 32 N86-20647

LINEAR PROGRAMMING
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N86-20679

LINEAR RECEIVERS
Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c 07 N71-27233

LINEAR SYSTEMS
Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503
A m-ary linear feedback shift register with binary logic
[NASA-CASE-NPO-11868] c 10 N73-20254
Linear magnetic bearings
[NASA-CASE-GSC-12582-2] c 37 N85-20337

LINEARITY
Semi-linear ball bearing Patent
[NASA-CASE-XLA-02809] c 15 N71-22982
Mechanical actuator Patent
[NASA-CASE-XGS-04548] c 15 N71-24045
Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067
Linear motion valve
[NASA-CASE-MSC-20148-1] c 37 N85-29284
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
Universal clamp
[NASA-CASE-MSC-20549-1] c 37 N86-19612
Ferroresonant regulated power supply
[NASA-CASE-NPO-15977-1-CU] c 33 N86-20673
Linearized traveling wave amplifier with hard limiter characteristics
[NASA-CASE-LEW-13981-2] c 33 N86-21742

LININGS
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
Steam cooled rich-burn combustor liner
[NASA-CASE-LEW-13609-1] c 25 N83-17628
Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577

LINKAGES
Collapsible nozzle extension for rocket engines Patent
[NASA-CASE-MFS-11497] c 28 N71-16224
Adjustable force probe
[NASA-CASE-MFS-20760] c 14 N72-33377
Locking redundant link
[NASA-CASE-LAR-11900-1] c 37 N79-14382
Compensating linkage for main rotor control
[NASA-CASE-LAR-11797-1] c 05 N81-19087
Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N86-19613

LIQUEFACTION
Ophthalmic liquifaction pump
[NASA-CASE-LEW-12051-1] c 52 N75-33640

LIQUID ATOMIZATION
Constant-output atomizer --- Inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406

LIQUID BEARINGS
High speed hybrid bearing comprising a fluid bearing and a rolling bearing convected in series
[NASA-CASE-LEW-11152-1] c 15 N73-32359

LIQUID CHROMATOGRAPHY
A spillage detector for liquid chromatography systems
[NASA-CASE-MSC-20206-1] c 25 N83-29325

LIQUID COOLING
Water cooled contactor for anode in carbon arc mechanism
[NASA-CASE-XMS-03700] c 15 N69-24266
External liquid-spray cooling of turbine blades Patent
[NASA-CASE-XLE-00037] c 28 N70-33372
Solenoid construction Patent
[NASA-CASE-XNP-01951] c 09 N70-41929
Laminar flow enhancement Patent
[NASA-CASE-NPO-10122] c 12 N71-17631
Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439
Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114-2] c 09 N71-24807
Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114] c 33 N71-27862
Liquid spray cooling method Patent
[NASA-CASE-XLE-00027] c 33 N71-29152
Automatic control of liquid cooling garment by cutaneous and external auditory meatus temperatures
[NASA-CASE-MSC-13917-1] c 05 N72-15098
Temperature controller for a fluid cooled garment
[NASA-CASE-ARC-10599-1] c 05 N73-26071
Heat exchanger system and method
[NASA-CASE-LAR-10799-2] c 34 N76-17317
Liquid cooled brassiere and method of diagnosing malignant tumors therewith
[NASA-CASE-ARC-11007-1] c 52 N77-14736
Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237
Low gravity exothermic heating/cooling apparatus
[NASA-CASE-MSC-25707-1] c 35 N85-29214

LIQUID CRYSTALS
Angular velocity and acceleration measuring apparatus
[NASA-CASE-ERC-10292] c 14 N72-25410
Electricity measurement devices employing liquid crystalline materials
[NASA-CASE-ERC-10275] c 26 N72-25680
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826

LIQUID FILLED SHELLS
Liquid rocket system Patent
[NASA-CASE-XNP-00610] c 28 N70-36910
Fluid sample collector Patent
[NASA-CASE-XMS-06767-1] c 14 N71-20435
Fluid containers and resealable septum therefor Patent
[NASA-CASE-NPO-10123] c 15 N71-24835
Omnidirectional acceleration device Patent
[NASA-CASE-HQN-10780] c 14 N71-30265

LIQUID FLOW
Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
Liquid junction and method of fabricating the same Patent Application
[NASA-CASE-NPO-10682] c 15 N70-34699
Valve actuator Patent
[NASA-CASE-XHQ-01208] c 15 N70-35409
Fluid coupling Patent
[NASA-CASE-XLE-00397] c 15 N70-36492
Positive displacement flowmeter Patent
[NASA-CASE-XMF-02822] c 14 N70-41994
Liquid flow sight assembly Patent
[NASA-CASE-XLE-02998] c 14 N70-42074
Ablative system
[NASA-CASE-LEW-10359-2] c 33 N73-25952
Zero gravity liquid transfer screen
[NASA-CASE-KSC-10626] c 14 N73-27378
System for measuring Reynolds in a turbulently flowing fluid --- signal processing
[NASA-CASE-ARC-10755-2] c 34 N76-27517
Degassifying and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MSC-18936-1] c 35 N83-29652
Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] c 35 N84-22930

LIQUID HELIUM
Heat operated cryogenic electrical generator
[NASA-CASE-NPO-13303-1] c 20 N75-24837
Helium refrigerator
[NASA-CASE-NPO-13435-1] c 31 N76-14284
Cryostat system for temperatures on the order of 2 deg K or less
[NASA-CASE-NPO-13459-1] c 31 N77-10229
Multistation refrigeration system
[NASA-CASE-NPO-13839-1] c 31 N78-25256
Stabilization of He2(a 3 Sigma u+ molecules in liquid helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13826
Low cost cryostat
[NASA-CASE-NPO-14513-1] c 35 N81-14287
Propulsion apparatus and method using boil-off gas from a cryogenic liquid --- controlling spacecraft attitude and drag
[NASA-CASE-MFS-25946-1] c 20 N84-15183

LIQUID HYDROGEN
Cryogenic thermal insulation Patent
[NASA-CASE-XMF-05046] c 33 N71-28892
Reinforced polyquinoxaline gasket and method of preparing the same --- resistant to ionizing radiation and liquid hydrogen temperatures
[NASA-CASE-MFS-21364-1] c 37 N74-18126
Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-1] c 28 N84-29017
Ten degree Kelvin hydride refrigerator
[NASA-CASE-NPO-16393-1-CU] c 31 N85-29084

LIQUID INJECTION
Thrust vector control apparatus Patent
[NASA-CASE-XLE-00208] c 28 N70-34294
Control system for rocket vehicles Patent
[NASA-CASE-XLA-01163] c 21 N71-15582
Injector assembly for liquid fueled rocket engines Patent
[NASA-CASE-XMF-00968] c 28 N71-15660
Sodium storage and injection system
[NASA-CASE-NPO-14384-1] c 37 N80-10494
Method of producing silicon --- gas phase reactor multiple injector liquid feed system
[NASA-CASE-NPO-14382-1] c 31 N80-18231
Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] c 34 N85-33433

LIQUID LASERS
Method and apparatus for wavelength tuning of liquid lasers
[NASA-CASE-ERC-10187] c 16 N69-31343

LIQUID LEVELS
Inductive liquid level detection system Patent
[NASA-CASE-XLE-01609] c 14 N71-10500
Apparatus for fiber optic liquid level sensing
[NASA-CASE-MSC-18674-1] c 74 N81-24907

LIQUID METALS
Slug flow magnetohydrodynamic generator
[NASA-CASE-XLE-02083] c 03 N69-39983
Two-fluid magnetohydrodynamic system and method for thermal-electric power conversion Patent
[NASA-CASE-XNP-00644] c 03 N70-36803
Analytical test apparatus and method for determining oxide content of alkali metal Patent
[NASA-CASE-XLE-01997] c 06 N71-23527
Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114] c 33 N71-27862
Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747
Shell side liquid metal boiler
[NASA-CASE-NPO-10831] c 33 N72-20915
Method for distillation of liquids
[NASA-CASE-XNP-08124-2] c 06 N73-13129
Electromagnetic flow rate meter --- for liquid metals
[NASA-CASE-LEW-10981-1] c 35 N74-21018
Process for preparing liquid metal electrical contact device
[NASA-CASE-LEW-11978-1] c 33 N77-26385
Solar driven liquid metal MHD power generator
[NASA-CASE-LAR-12495-1] c 44 N83-28573
Arc spray fabrication of metal matrix composite monotape
[NASA-CASE-LEW-13828-1] c 24 N85-30027

LIQUID NITROGEN
Cryogenic feedthrough
[NASA-CASE-LAR-10031] c 15 N72-22484

LIQUID OXYGEN
Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170

LIQUID PHASES
Fluid dispensing apparatus and method Patent
[NASA-CASE-XLE-01182] c 27 N71-15635
Hydraulic casting of liquid polymers Patent
[NASA-CASE-XNP-07659] c 06 N71-22975
Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199
Cryogenic liquid sensor
[NASA-CASE-NPO-10619-1] c 35 N77-21393
Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N86-20721

LIQUID PROPELLANT ROCKET ENGINES
Annular rocket motor and nozzle configuration Patent
[NASA-CASE-XLE-00078] c 28 N70-33284
Attitude and propellant flow control system and method Patent
[NASA-CASE-XMF-00185] c 21 N70-34539
Injector for bipropellant rocket engines Patent
[NASA-CASE-XMF-00148] c 28 N70-38710
Zero gravity starting means for liquid propellant motors Patent
[NASA-CASE-XNP-01390] c 28 N70-41275
Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c 20 N74-13502
Space vehicle
[NASA-CASE-MFS-22734-1] c 18 N75-19329
Fluid thrust control system --- for liquid propellant rocket engines
[NASA-CASE-XMF-05964-1] c 20 N79-21124
Rocket injector head
[NASA-CASE-XMF-04592-1] c 20 N79-21125
Low thrust monopropellant engine
[NASA-CASE-GSC-12194-2] c 20 N82-18314
Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFG-25989-1] c 20 N85-20008

LIQUID ROCKET PROPELLANTS
Rocket propellant injector Patent
[NASA-CASE-XLE-00103] c 28 N70-33241
Liquid rocket system Patent
[NASA-CASE-XNP-00610] c 28 N70-36910
Rocket motor system Patent
[NASA-CASE-XLE-00323] c 28 N70-38505
High temperature spark plug Patent
[NASA-CASE-XLE-00660] c 28 N70-39925
High pressure filter Patent
[NASA-CASE-XNP-00732] c 28 N70-41447
Liquid storage tank venting device for zero gravity environment Patent
[NASA-CASE-XLE-01449] c 15 N70-41646
Tank construction for space vehicles Patent
[NASA-CASE-XMF-01899] c 31 N70-41948
Fluid dispensing apparatus and method Patent
[NASA-CASE-XLE-01182] c 27 N71-15635
Control valve and co-axial variable injector Patent
[NASA-CASE-XNP-09702] c 15 N71-17654
Slosh alleviator Patent
[NASA-CASE-XLA-05749] c 15 N71-19569
Filler valve Patent
[NASA-CASE-XNP-01747] c 15 N71-23024
Propellent mass distribution metering apparatus Patent
[NASA-CASE-NPO-10185] c 10 N71-26339
Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747
Response analyzers for sensors Patent
[NASA-CASE-MFS-11204] c 14 N71-29134
Passive propellant system
[NASA-CASE-MFS-23642-1] c 20 N80-10278
Supercharged topping rocket propellant feed system
[NASA-CASE-XLE-02062-1] c 20 N80-14188
Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-1] c 28 N84-29017

LIQUID SLOSHING
Slosh suppressing device and method Patent
[NASA-CASE-XMF-00658] c 12 N70-38997
Flexible ring slosh damping baffle Patent
[NASA-CASE-LAR-10317-1] c 32 N71-16103
Buoyant anti-slosh system Patent
[NASA-CASE-XLA-04605] c 32 N71-16106
Hot wire liquid level detector for cryogenic fluids Patent
[NASA-CASE-XLE-00454] c 23 N71-17802
Slosh alleviator Patent
[NASA-CASE-XLA-05749] c 15 N71-19569
Instrument for measuring the dynamic behavior of liquids Patent
[NASA-CASE-XLA-05541] c 12 N71-26387

LIQUID SODIUM
Sodium storage and injection system
[NASA-CASE-NPO-14384-1] c 37 N80-10494
LIQUID SURFACES
Liquid thickness gage
[NASA-CASE-LAR-13342-1] c 35 N85-20297
LIQUID-GAS MIXTURES
Liquid-gas separation system Patent
[NASA-CASE-XMS-01624] c 15 N70-40062
Liquid-gas separator for zero gravity environment Patent
[NASA-CASE-XMS-01492] c 05 N70-41297
Liquid storage tank venting device for zero gravity environment Patent
[NASA-CASE-XLE-01449] c 15 N70-41646
Separator Patent
[NASA-CASE-XLA-00415] c 15 N71-16079
Vapor liquid separator Patent
[NASA-CASE-XMF-04042] c 15 N71-23023
Air removal device --- life support systems
[NASA-CASE-XLA-8914-2] c 25 N82-21269
LIQUID-VAPOR INTERFACES
Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968
Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294
Response analyzers for sensors Patent
[NASA-CASE-MFS-11204] c 14 N71-29134
Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781
LIQUIDS
Liquid-gas separation system Patent
[NASA-CASE-XMS-01624] c 15 N70-40062
Electrical switching device Patent
[NASA-CASE-NPO-10037] c 09 N71-19610
Method and apparatus for distillation of liquids Patent
[NASA-CASE-XNP-08124] c 15 N71-27184
Apparatus for detecting the amount of material in a resonant cavity container Patent
[NASA-CASE-XNP-02500] c 18 N71-27397
Resonant infrasonic gauging apparatus
[NASA-CASE-MSC-11847-1] c 14 N72-11363
Ablative system
[NASA-CASE-LEW-10359] c 33 N72-25911
Liquid waste feed system
[NASA-CASE-LAR-10365-1] c 05 N72-27102
Zero gravity liquid mixer
[NASA-CASE-LAR-10195-1] c 15 N73-19458
Bimetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c 35 N74-15126
Method and device for detection of surface discontinuities or defects
[NASA-CASE-MSC-14187-1] c 35 N74-32879
Automatic liquid inventory collecting and dispensing unit
[NASA-CASE-LAR-11071-1] c 35 N75-19611
Thermal energy storage system --- operating on superheating of liquids
[NASA-CASE-MFS-23167-1] c 44 N76-31667
Low gravity phase separator
[NASA-CASE-MSC-14773-1] c 35 N78-12390
Automatic fluid dispenser
[NASA-CASE-ARC-10820-1] c 35 N78-19466
Liquid-immersible electrostatic ultrasonic transducer
[NASA-CASE-LAR-12465-1] c 33 N82-26572
System for monitoring physical characteristics of fluids
[NASA-CASE-NPO-15400-1] c 34 N83-31993
Liquid thickness gage
[NASA-CASE-LAR-13342-1] c 35 N85-20297
LITHIUM
Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N85-20535
LITHIUM COMPOUNDS
Novel polymers and method of preparing same
[NASA-CASE-NPO-10998-1] c 06 N73-32029
LITHIUM SULFUR BATTERIES
Cathode for primary battery
[NASA-CASE-NPO-16397-1-CU] c 33 N86-19517
LOAD DISTRIBUTION (FORCES)
Force measuring instrument Patent
[NASA-CASE-XMF-00456] c 14 N70-34705
Multiple Belleville spring assembly Patent
[NASA-CASE-XNP-00840] c 15 N70-38225
Device for use in loading tension members --- characterized by elongated elastic body
[NASA-CASE-MFS-21488-1] c 14 N75-24794
Pneumatic load compensating or controlling system
[NASA-CASE-ARC-10907-1] c 37 N75-32465
LOAD TESTING MACHINES
Load cell protection device Patent
[NASA-CASE-XMS-06782] c 32 N71-15974
Load relieving device Patent
[NASA-CASE-XMS-06329-1] c 15 N71-20441
Method and apparatus for tensile testing of metal foil
[NASA-CASE-LAR-10208-1] c 35 N76-18400
Fatigue failure load indicator
[NASA-CASE-LAR-12027-1] c 39 N79-22537
Portable 90 degree proof loading device
[NASA-CASE-MSC-20250-1] c 35 N86-19581
Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841
LOAD TESTS
Differential pressure cell Patent
[NASA-CASE-XAC-00042] c 14 N70-34816
LOADING OPERATIONS
Air bearing Patent
[NASA-CASE-XMF-01887] c 15 N71-10617
Shuttle car loading system
[NASA-CASE-NPO-15949-1] c 85 N85-34722
LOADS (FORCES)
Device for handling heavy loads
[NASA-CASE-XNP-04969] c 11 N69-27466
Two-plane balance Patent
[NASA-CASE-XAC-00073] c 14 N70-34813
Method of improving the reliability of a rolling element system Patent
[NASA-CASE-XLE-02999] c 15 N71-16052
Load relieving device Patent
[NASA-CASE-XMS-06329-1] c 15 N71-20441
Dual latching solenoid valve Patent
[NASA-CASE-XMS-05890] c 09 N71-23191
Transverse piezoresistance and pinch effect electromechanical transducers Patent
[NASA-CASE-ERC-10088] c 26 N71-25490
Turn on transient limiter Patent
[NASA-CASE-GSC-10413] c 10 N71-26531
Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10065-1] c 10 N71-27136
Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c 15 N71-27432
Energy absorption device Patent
[NASA-CASE-XNP-01848] c 15 N71-28959
Air bearing
[NASA-CASE-WLP-10002] c 15 N72-17451
Device for measuring bearing preload
[NASA-CASE-MFS-20434] c 11 N72-25288
Variable direction force coupler
[NASA-CASE-MFS-20317] c 15 N73-13463
Ergometer
[NASA-CASE-MFS-21109-1] c 05 N73-27941
Three-axis adjustable loading structure
[NASA-CASE-FRC-10051-1] c 35 N74-13129
G-load measuring and indicator apparatus --- for aircraft
[NASA-CASE-ARC-10806] c 06 N74-27872
Spring operated accelerator and constant force spring mechanism therefor
[NASA-CASE-ARC-10898-1] c 35 N77-18417
Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367
Load regulating latch
[NASA-CASE-MSC-19535-1] c 37 N77-32499
Adjustable indicating device for load position
[NASA-CASE-MFS-28008-1] c 35 N85-20300
Aircraft rotor blade with passive tuned tab
[NASA-CASE-ARC-11444-1] c 05 N85-29947
Tensile testing apparatus
[NASA-CASE-LAR-13243-1] c 35 N85-34375
Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N86-19611
Universal clamp
[NASA-CASE-MSC-20549-1] c 37 N86-19612
LOCATES SYSTEM
Lightning tracking system
[NASA-CASE-KSC-10729-1] c 09 N73-32110
Position determination systems --- using orbital antenna scan of celestial bodies
[NASA-CASE-MSC-12593-1] c 17 N76-21250
LOCKING
Coupling device
[NASA-CASE-XMS-07846-1] c 09 N69-21927
Interlocking wedge joint
[NASA-CASE-LAR-12729-1] c 37 N82-26676
Elbow and knee joint for hard space suits and the like
[NASA-CASE-ARC-11610-1] c 54 N85-20666
Self-locking mechanical center joint
[NASA-CASE-LAR-12864-1] c 37 N85-30336
Variable length strut with longitudinal compliance and locking capability
[NASA-CASE-MFS-25907-1] c 37 N85-34401
Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] c 37 N86-20789
LOCKS (FASTENERS)
Locking device with rolling detents Patent
[NASA-CASE-XMF-01371] c 15 N70-41829
Bearing and gimbal lock mechanism and spiral flex lead module Patent
[NASA-CASE-GSC-10556-1] c 31 N71-26537
Locking device for turbine rotor blades Patent
[NASA-CASE-XNP-00816] c 28 N71-28928
Film feed camera having a detent means Patent
[NASA-CASE-LAR-10686] c 14 N71-28935
Safety-type locking pin
[NASA-CASE-MFS-18495] c 15 N72-11385
Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-1] c 54 N76-22914
Portable appliance security apparatus
[NASA-CASE-GSC-12399-1] c 33 N81-25299
Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c 52 N81-25661
High temperature penetrator assembly with bayonet plug and ramp-activated lock
[NASA-CASE-MSC-18526-1] c 37 N82-24494
Aircraft canopy lock
[NASA-CASE-FRC-11065-1] c 05 N83-19737
LOCOMOTION
Jet shoes
[NASA-CASE-XLA-08491] c 05 N69-21380
Training vehicle for controlling attitude Patent
[NASA-CASE-XMS-02977] c 11 N71-10746
Restraint torso for a pressurized suit
[NASA-CASE-MSC-12397-1] c 05 N72-25119
Kinesimetric method and apparatus
[NASA-CASE-MSC-18929-1] c 39 N83-20280
LOGARITHMIC RECEIVERS
Logarithmic circuit with wide dynamic range
[NASA-CASE-GSC-12145-1] c 33 N78-32339
LOGARITHMS
Logarithmic function generator utilizing an exponentially varying signal in an inverse manner
[NASA-CASE-ERC-10267] c 09 N72-23173
LOGIC CIRCUITS
A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
[NASA-CASE-ERC-10072] c 09 N70-11148
Relay binary circuit Patent
[NASA-CASE-XMF-00421] c 09 N70-34502
Binary to binary-coded-decimal converter Patent
[NASA-CASE-XNP-00432] c 08 N70-35423
Analog-to-digital conversion system Patent
[NASA-CASE-XAC-00404] c 08 N70-40125
Data processor having multiple sections activated at different times by selective power coupling to the sections Patent
[NASA-CASE-XGS-04767] c 08 N71-12494
Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505
AC logic flip-flop circuits Patent
[NASA-CASE-XGS-00823] c 10 N71-15910
Logic AND gate for fluid circuits Patent
[NASA-CASE-XLA-07391] c 12 N71-17579
Ripple add and ripple subtract binary counters Patent
[NASA-CASE-XGS-04766] c 08 N71-18602
Exclusive-Or digital logic module Patent
[NASA-CASE-XLA-07732] c 08 N71-18751
Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772
Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24650
BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890
Current steering switch Patent
[NASA-CASE-XNP-08567] c 09 N71-26000
Parallel generation of the check bits of a PN sequence Patent
[NASA-CASE-XNP-04623] c 10 N71-26103
Adaptive system and method for signal generation Patent
[NASA-CASE-GSC-11367] c 10 N71-26374
Fast response low power drain logic circuits
[NASA-CASE-GSC-10878-1] c 10 N72-22236
Logical function generator
[NASA-CASE-XLA-05099] c 09 N73-13209
A synchronous binary array divider
[NASA-CASE-ERC-10180-1] c 60 N74-20836
Four phase logic systems --- including integrated microcircuits
[NASA-CASE-MSC-14240-1] c 33 N75-14957
Interleaving device
[NASA-CASE-GSC-12111-2] c 33 N81-29342
Logic-controlled occlusive cuff system
[NASA-CASE-MSC-14836-1] c 52 N82-11770
Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345
Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953
Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227
Nanosequencer digital logic controller
[NASA-CASE-NPO-16116-1] c 60 N84-25306
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304

LONGERONS
Latching mechanism for deployable-restowable columns
[NASA-CASE-LAR-13169-1] c 37 N84-25063
LONGITUDINAL CONTROL
Three-axis controller Patent
[NASA-CASE-XAC-01404] c 05 N70-41581
Pitch attitude stabilization system utilizing engine pressure ratio feedback signals
[NASA-CASE-LAR-12562-1] c 08 N81-26152
Remote pivot decoupler pylon: Wing/store suppression
[NASA-CASE-LAR-13173-1] c 05 N85-19981
LONGITUDINAL STABILITY
Annular wing
[NASA-CASE-FRC-11007-2] c 05 N82-26277
LOOK ANGLES (ELECTRONICS)
Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711
LOOP ANTENNAS
Collapsible loop antenna for space vehicle Patent
[NASA-CASE-XMF-00437] c 07 N70-40202
Automatic carrier acquisition system
[NASA-CASE-NPO-11628-1] c 07 N73-30113
LOOPS
Endless tape cartridge Patent
[NASA-CASE-XGS-00769] c 14 N70-41647
Endless tape transport mechanism Patent
[NASA-CASE-XGS-01223] c 07 N71-10609
Filter for third order phase locked loops
[NASA-CASE-NPO-11941-1] c 10 N73-27171
High speed shutter --- electrically actuated ribbon loop for shuttering optical or fluid passageways
[NASA-CASE-ARC-10516-1] c 70 N74-21300
Means for accommodating large overstrain in lead wires --- by storing extra length of wire in stretchable loop
[NASA-CASE-LAR-10168-1] c 33 N74-22865
Closed loop spray cooling apparatus
[NASA-CASE-LEW-11981-2] c 34 N79-20336
Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179
Pulsed phase locked loop strain monitor --- voltage controlled oscillators
[NASA-CASE-LAR-12772-1] c 33 N83-16626
Fluidic momentum controller
[NASA-CASE-MSC-20906-1] c 18 N86-19344
Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N86-20721
LOUVERS
Solar concentrator protective system
[NASA-CASE-NPO-15662-1] c 44 N84-28204
LOW ASPECT RATIO
Landing arrangement for aerial vehicles Patent
[NASA-CASE-XLA-00142] c 02 N70-33286
Landing arrangement for aerial vehicle Patent
[NASA-CASE-XLA-00806] c 02 N70-34858
LOW COST
Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c 44 N76-28635
Process for utilizing low-cost graphite substrates for polycrystalline solar cells
[NASA-CASE-GSC-12022-2] c 44 N78-24609
LOW CURRENTS
Low current linearization of magnetic amplifier for dc transducer
[NASA-CASE-NPO-14617-1] c 33 N81-24338
LOW DENSITY MATERIALS
Method and device for detecting voids in low density material Patent
[NASA-CASE-MFS-20044] c 14 N71-28993
Intumescent composition, foamed product prepared therewith and process for making same
[NASA-CASE-ARC-10304-2] c 27 N74-27037
Mixing insert for foam dispensing apparatus
[NASA-CASE-MFS-20607-1] c 37 N76-19436
Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184
Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c 24 N79-16915
Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
LOW FREQUENCIES
Seismic displacement transducer Patent
[NASA-CASE-XMF-00479] c 14 N70-34794
Low-frequency radio navigation system
[NASA-CASE-NPO-15264-1] c 04 N84-27713
LOW GRAVITY MANUFACTURING
Method for manufacturing mirrors in zero gravity environment
[NASA-CASE-MSC-12611-1] c 12 N76-15189
Gas levitator having fixed levitation node for containerless processing
[NASA-CASE-MFS-25509-1] c 35 N83-24828
Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650
LOW MOLECULAR WEIGHTS
Process for preparation of high-molecular- weight polyaryloxysilanes Patent
[NASA-CASE-XMF-08674] c 06 N71-28807
LOW NOISE
Low phase noise digital frequency divider
[NASA-CASE-NPO-11569] c 10 N73-26229
Reflected-wave maser --- low noise amplifier
[NASA-CASE-NPO-13490-1] c 36 N76-31512
Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] c 33 N84-22887
LOW PASS FILTERS
Filtering technique based on high-frequency plant modeling for high-gain control
[NASA-CASE-LAR-12215-1] c 08 N79-23097
Smoothing filter for digital to analog conversion
[NASA-CASE-FRC-11025-1] c 33 N82-24417
Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539
LOW PRESSURE
Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10022] c 12 N71-26546
Bakeable McLeod gauge
[NASA-CASE-XGS-01293-1] c 35 N79-33450
Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFG-25989-1] c 20 N85-20008
LOW SPEED
Variable geometry manned orbital vehicle Patent
[NASA-CASE-XLA-03691] c 31 N71-15674
RC rate generator for slow speed measurement Patent
[NASA-CASE-XMF-02966] c 10 N71-24863
LOW TEMPERATURE
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103
LOW TEMPERATURE ENVIRONMENTS
Frangible electrochemical cell
[NASA-CASE-XGS-10010] c 03 N72-15986
LOW TEMPERATURE TESTS
Low temperature flexure fatigue cryostat Patent
[NASA-CASE-XMF-02964] c 14 N71-17659
Horizontal cryostat for fatigue testing Patent
[NASA-CASE-XMF-10968] c 14 N71-24234
Heating and cooling system --- for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221
LOW THRUST
Low thrust monopropellant engine
[NASA-CASE-GSC-12194-2] c 20 N82-18314
LOW VACUUM
Vibration damping system Patent
[NASA-CASE-XMS-01620] c 23 N71-15673
LOW VOLTAGE
High speed low level electrical stepping switch Patent
[NASA-CASE-XAC-00060] c 09 N70-39915
Flexible blade antenna Patent
[NASA-CASE-MSC-12101] c 09 N71-18720
Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366
LOWER BODY NEGATIVE PRESSURE
Method and apparatus for simulating gravitational forces on a living organism
[NASA-CASE-MSC-20202-1] c 54 N84-16803
LUBRICANTS
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-01765] c 18 N71-10772
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-10337] c 15 N71-24046
Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098
Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids
[NASA-CASE-MFS-22411-1] c 37 N74-21058
Journal bearings --- for lubricant films
[NASA-CASE-LEW-11076-1] c 37 N74-21061
Method for milling and drilling glass
[NASA-CASE-GSC-12636-1] c 31 N83-27058
LUBRICATING OILS
Foil seal Patent
[NASA-CASE-XLE-05130-2] c 15 N71-19570
LUBRICATION
Production of hollow components for rolling element bearings by diffusion welding
[NASA-CASE-LEW-11026-1] c 15 N73-33383
Variable resistance constant tension and lubrication device --- using oil-saturated leather wiper
[NASA-CASE-KSC-10723-1] c 37 N75-13265
Fluid journal bearings
[NASA-CASE-LEW-11076-4] c 37 N76-15461
LUBRICATION SYSTEMS
Hybrid lubrication system and bearing Patent
[NASA-CASE-XNP-01641] c 15 N71-22997
Fluid lubricant system Patent
[NASA-CASE-XNP-03972] c 15 N71-23048
Journal Bearings
[NASA-CASE-LEW-11076-2] c 37 N74-32921
Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12321-1] c 37 N78-10467
LUMINAIRES
Visual target for retrofire attitude control
[NASA-CASE-XMS-12158-1] c 31 N69-27499
Ultraviolet resonance lamp Patent
[NASA-CASE-ARC-10030] c 09 N71-12521
Lamp modulator
[NASA-CASE-KSC-10565] c 09 N72-25250
Driving lamps by induction
[NASA-CASE-MFS-21214-1] c 09 N73-30181
Uniform variable light source
[NASA-CASE-NPO-11429-1] c 74 N77-21941
Direct current ballast circuit for metal halide lamp
[NASA-CASE-MSC-18407-1] c 33 N82-24427
LUMINANCE
Television camera video level control system
[NASA-CASE-MSC-18578-1] c 32 N85-21427
LUMINOSITY
Measurement of time differences between luminous events Patent
[NASA-CASE-XLA-01987] c 23 N71-23976
LUMINOUS INTENSITY
Motion picture camera for optical pyrometry Patent
[NASA-CASE-XLA-00062] c 14 N70-33254
Radiant energy intensity measurement system Patent
[NASA-CASE-XNP-06510] c 14 N71-23797
Continuous plasma laser --- method and apparatus for producing intense, coherent, monochromatic light from low temperature plasma
[NASA-CASE-XNP-04167-3] c 36 N77-19416
Solar cell assembly --- for use under high intensity illumination
[NASA-CASE-LEW-11549-1] c 44 N77-19571
Compact, high intensity arc lamp with internal magnetic field producing means
[NASA-CASE-NPO-11510-1] c 33 N77-21315
System for the measurement of ultra-low stray light levels --- determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865
Wind dynamic range video camera
[NASA-CASE-MFS-25750-1] c 32 N86-20647
LUMPING
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104
LUNAR BASES
Self-adjusting - multisegment, deployable, natural circulation radiator Patent
[NASA-CASE-XHQ-03673] c 33 N71-29046
LUNAR COMMUNICATION
Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300
Emergency lunar communications system
[NASA-CASE-MFS-21042] c 07 N72-25171
LUNAR COMPOSITION
Lunar penetrometer Patent
[NASA-CASE-XLA-00934] c 14 N71-22765
LUNAR EXPLORATION
Backpack carrier Patent
[NASA-CASE-LAR-10056] c 05 N71-12351
Lunar penetrometer Patent
[NASA-CASE-XLA-00934] c 14 N71-22765
Personal propulsion unit Patent
[NASA-CASE-MFS-20130] c 28 N71-27585
Emergency lunar communications system
[NASA-CASE-MFS-21042] c 07 N72-25171
LUNAR GRAVITATION
Subgravity simulator Patent
[NASA-CASE-XMS-04798] c 11 N71-21474
LUNAR GRAVITY SIMULATOR
Impact simulator Patent
[NASA-CASE-XLA-00493] c 11 N70-34786
LUNAR LANDING
Lunar landing flight research vehicle Patent
[NASA-CASE-XFR-00929] c 31 N70-34966
LUNAR LOGISTICS
Personal propulsion unit Patent
[NASA-CASE-MFS-20130] c 28 N71-27585
LUNAR ROCKS
Sample collecting impact bit Patent
[NASA-CASE-XNP-01412] c 15 N70-42034
LUNAR SOIL
Soil particles separator, collector and viewer Patent
[NASA-CASE-XNP-09770] c 15 N71-20440
Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27036

Self-recording portable soil penetrometer
[NASA-CASE-MFS-20774] c 14 N73-19420
Method for obtaining oxygen from lunar or similar soil
[NASA-CASE-MSC-12408-1] c 46 N74-13011

LUNAR SURFACE VEHICLES
Deformable vehicle wheel Patent
[NASA-CASE-MFS-20400] c 31 N71-18611
Resilient wheel Patent
[NASA-CASE-MFS-13929] c 15 N71-27091

LUNGS
Instrument for use in performing a controlled Valsalva maneuver Patent
[NASA-CASE-XMS-01615] c 05 N70-41329

M

MACH NUMBER
Wind tunnel supplementary Mach number minimum section insert
[NASA-CASE-LAR-12532-1] c 09 N82-11088

MACHINE TOOLS
Rock drill for recovering samples
[NASA-CASE-XNP-07478] c 14 N69-21923
Protective device for machine and metalworking tools Patent
[NASA-CASE-XLE-01092] c 15 N71-22797
Aligning and positioning device Patent
[NASA-CASE-XMS-04178] c 15 N71-22798
Extrusion die for refractory metals Patent
[NASA-CASE-XLE-06773] c 15 N71-23817
Layout tool Patent
[NASA-CASE-FRC-10005] c 15 N71-26145
Optical machine tool alignment indicator Patent
[NASA-CASE-XAC-09489-1] c 15 N71-26673
Caterpillar micro positioner
[NASA-CASE-GSC-10780-1] c 14 N72-16283
Geneva mechanism --- including star wheel and driver
[NASA-CASE-NPO-13281-1] c 37 N75-13266
Zero torque gear head wrench
[NASA-CASE-NPO-13059-1] c 37 N76-20480
Precision alinement apparatus for cutting a workpiece
[NASA-CASE-LAR-11658-1] c 37 N77-14478
Toggle mechanism for pinching metal tubes
[NASA-CASE-GSC-12274-1] c 37 N79-28550
Method and tool for machining a transverse slot about a bore
[NASA-CASE-LAR-11855-1] c 37 N81-14319
Crystal cleaving machine
[NASA-CASE-GSC-12584-1] c 37 N82-32730
Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491

MACHINERY
Stirring apparatus for plural test tubes Patent
[NASA-CASE-XAC-06956] c 15 N71-21177
Precipitation detector Patent
[NASA-CASE-XLA-02619] c 10 N71-26334
Apparatus for forming drive belts
[NASA-CASE-NPO-13205-1] c 31 N74-32917

MACHINING
Laser machining apparatus Patent
[NASA-CASE-HQN-10541-2] c 15 N71-27135
Lathe tool bit and holder for machining fiberglass materials
[NASA-CASE-XLA-10470] c 15 N72-21489
Drilled ball bearing with a one piece anti-tipping cage assembly
[NASA-CASE-LEW-11925-1] c 37 N75-31446

MAGNESIUM
Nondestructive spot test method for magnesium and magnesium alloys
[NASA-CASE-LAR-10953-1] c 17 N73-27446

MAGNESIUM ALLOYS
Method and apparatus for bonding a plastics sleeve onto a metallic body Patent
[NASA-CASE-XLA-01262] c 15 N71-21404
Nondestructive spot test method for magnesium and magnesium alloys
[NASA-CASE-LAR-10953-1] c 17 N73-27446

MAGNESIUM OXIDES
Method for determining presence of OH in magnesium oxide
[NASA-CASE-NPO-10774] c 06 N72-17095

MAGNET COILS
Superconducting alternator
[NASA-CASE-XLE-02824] c 03 N69-39890
Circuit breaker utilizing magnetic latching relays Patent
[NASA-CASE-MSC-11277] c 09 N71-29008

MAGNETIC AMPLIFIERS
Low current linearization of magnetic amplifier for dc transducer
[NASA-CASE-NPO-14617-1] c 33 N81-24338

MAGNETIC BEARINGS
Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067
Linear magnetic bearings
[NASA-CASE-GSC-12582-2] c 37 N85-20337
Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N86-20804

MAGNETIC CHARGE DENSITY
Electrostatic ion engine having a permanent magnetic circuit Patent
[NASA-CASE-XLE-01124] c 28 N71-14043

MAGNETIC CIRCUITS
Electrostatic ion engine having a permanent magnetic circuit Patent
[NASA-CASE-XLE-01124] c 28 N71-14043

MAGNETIC COILS
Time-division multiplexer Patent
[NASA-CASE-XNP-00431] c 09 N70-38998
Linear magnetic brake with two windings Patent
[NASA-CASE-XLE-05079] c 15 N71-17652
Safe-arm initiator Patent
[NASA-CASE-LAR-10372] c 09 N71-18599
Magnifying image intensifier
[NASA-CASE-GSC-12010-1] c 74 N78-18905
Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 15 N85-11122
Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N86-20804

MAGNETIC CONTROL
Fast opening diaphragm Patent
[NASA-CASE-XLA-03660] c 15 N71-21060
Magnetically controlled plasma accelerator Patent
[NASA-CASE-XLA-00327] c 25 N71-29184
Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18459
Magnetic bearing system
[NASA-CASE-GSC-11978-1] c 37 N77-17464
Low temperature latching solenoid
[NASA-CASE-MSC-18106-1] c 33 N82-11357
Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 15 N85-11122

MAGNETIC CORES
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00458] c 09 N70-38604
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00131] c 09 N70-38995
Magnetic counter Patent
[NASA-CASE-XNP-08836] c 09 N71-12515
Pulse-type magnetic core memory element circuit with blocking oscillator feedback Patent
[NASA-CASE-XGS-03303] c 08 N71-18595
Magnetic core current steering commutator Patent
[NASA-CASE-NPO-10201] c 08 N71-18694
Drive circuit utilizing two cores Patent
[NASA-CASE-XNP-01318] c 10 N71-23033
Saturation current protection apparatus for saturable core transformers Patent
[NASA-CASE-ERC-10075] c 09 N71-24800
Magnetic power switch Patent
[NASA-CASE-NPO-10242] c 09 N71-24803
Unsaturating saturable core transformer Patent
[NASA-CASE-ERC-10125] c 09 N71-24893
Thermally cycled magnetometer Patent
[NASA-CASE-XAC-03740] c 14 N71-26135
Digital memory sense amplifying means Patent
[NASA-CASE-XNP-01012] c 08 N71-28925
Method of detecting impending saturation of magnetic cores
[NASA-CASE-ERC-10089] c 23 N72-17747
Current steering commutator
[NASA-CASE-NPO-10743] c 08 N72-21199
Banded transformer cores
[NASA-CASE-NPO-11966-1] c 33 N74-17928

MAGNETIC DIPOLES
Balance torquemeter Patent
[NASA-CASE-XGS-01013] c 14 N71-23725

MAGNETIC DISKS
Disk pack cleaning table Patent Application
[NASA-CASE-LAR-10590-1] c 15 N70-26819

MAGNETIC FIELD CONFIGURATIONS
Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13663-1] c 35 N77-14406
Magnifying image intensifier
[NASA-CASE-GSC-12010-1] c 74 N78-18905

MAGNETIC FIELDS
Electric-arc heater Patent
[NASA-CASE-XLA-00330] c 33 N70-34540
Means for communicating through a layer of ionized gases Patent
[NASA-CASE-XLA-01127] c 07 N70-41372
Liquid storage tank venting device for zero gravity environment Patent
[NASA-CASE-XLE-01449] c 15 N70-41646
Electrostatic ion engine having a permanent magnetic circuit Patent
[NASA-CASE-XLE-01124] c 28 N71-14043
Wide range linear fluxgate magnetometer Patent
[NASA-CASE-XGS-01587] c 14 N71-15962
Position sensing device employing misaligned magnetic field generating and detecting apparatus Patent
[NASA-CASE-XGS-07514] c 23 N71-16099
Nonmagnetic, explosive actuated indexing device Patent
[NASA-CASE-XGS-02422] c 15 N71-21529
Solar cell and circuit array and process for nullifying magnetic fields Patent
[NASA-CASE-XGS-03390] c 03 N71-23187
Balance torquemeter Patent
[NASA-CASE-XGS-01013] c 14 N71-23725
Two axis fluxgate magnetometer Patent
[NASA-CASE-GSC-10441-1] c 14 N71-27325
Segmented superconducting magnet for a broadband traveling wave maser Patent
[NASA-CASE-XGS-10518] c 16 N71-28554
Magnetic position detection method and apparatus
[NASA-CASE-ARC-10179-1] c 21 N72-22619
Ion thruster
[NASA-CASE-LEW-10770-1] c 28 N72-22770
Ion thruster magnetic field control
[NASA-CASE-LEW-10835-1] c 28 N72-22771
Determining distance to lightning strokes from a single station
[NASA-CASE-KSC-10698] c 07 N73-20175
Superconductive magnetic-field-trapping device
[NASA-CASE-XNP-01185] c 26 N73-28710
Electron beam controller --- using magnetic field to refocus spent electron beam in microwave oscillator tube
[NASA-CASE-LEW-11617-1] c 33 N74-10195
Magnetometer using superconducting rotating body
[NASA-CASE-NPO-13388-1] c 35 N76-16390
Compact, high intensity arc lamp with internal magnetic field producing means
[NASA-CASE-NPO-11510-1] c 33 N77-21315
Magnetic heat pumping
[NASA-CASE-LEW-12508-1] c 34 N78-17335
Atomic hydrogen storage --- cryotrapping and magnetic field strength
[NASA-CASE-LEW-12081-2] c 28 N80-20402
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103
Magnetic field control --- electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569
Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132
Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 15 N85-11122
Magentically actuated compressor
[NASA-CASE-GSC-12799-1] c 31 N85-21404
Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082
Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143

MAGNETIC FILMS
Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c 76 N79-16678

MAGNETIC FLUX
Excitation and detection circuitry for a flux responsive magnetic head
[NASA-CASE-XNP-04183] c 09 N69-24329
Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02407] c 14 N69-27423
Flux sensing device using a tubular core with toroidal gating coil and solenoidal output coil wound thereon Patent
[NASA-CASE-XGS-01881] c 09 N70-40123
Hybrid lubrication system and bearing Patent
[NASA-CASE-XNP-01641] c 15 N71-22997
Saturation current protection apparatus for saturable core transformers Patent
[NASA-CASE-ERC-10075] c 09 N71-24800
Continuous magnetic flux pump
[NASA-CASE-XNP-01187] c 15 N73-28516
Magnetic-flux pump
[NASA-CASE-XNP-01188] c 15 N73-32361
Magnetic bearing --- for supplying magnetic fluxes
[NASA-CASE-GSC-11079-1] c 37 N75-18574
Linear magnetic motor/generator --- to generate electric energy using magnetic flux for spacecraft power supply
[NASA-CASE-GSC-12518-1] c 33 N82-24421
Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067
Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083

Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N86-20804

MAGNETIC FORMING
Magnetomotive metal working device Patent
[NASA-CASE-XMF-03793] c 15 N71-24833
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-3] c 15 N71-24865

MAGNETIC INDUCTION
Continuously operating induction plasma accelerator Patent
[NASA-CASE-XLA-01354] c 25 N70-36946
Drive circuit for minimizing power consumption in inductive load Patent
[NASA-CASE-NPO-10716] c 09 N71-24892
Constant frequency output two stage induction machine systems Patent
[NASA-CASE-ERC-10065] c 09 N71-27364
Magnetically actuated tuning method for Gunn oscillators
[NASA-CASE-NPO-12106] c 09 N73-15235
High speed shutter --- electrically actuated ribbon loop for shuttering optical or fluid passageways
[NASA-CASE-ARC-10516-1] c 70 N74-21300

MAGNETIC LENSES
Quadrupole mass filter with means to generate a noise spectrum exclusive of the resonant frequency of the desired ions to deflect stable ions
[NASA-CASE-XNP-04231] c 14 N73-32325

MAGNETIC MATERIALS
Low viscosity magnetic fluid obtained by the colloidal suspension of magnetic particles Patent
[NASA-CASE-XLE-01512] c 12 N70-40124

MAGNETIC MEASUREMENT
Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02407] c 14 N69-27423
Wide range linear fluxgate magnetometer Patent
[NASA-CASE-XGS-01587] c 14 N71-15962
RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171
Magnetometer using superconducting rotating body
[NASA-CASE-NPO-13388-1] c 35 N76-16390

MAGNETIC PERMEABILITY
Linear motion valve
[NASA-CASE-MSC-20148-1] c 37 N85-29284

MAGNETIC POLES
Magnetohydrodynamic induction machine
[NASA-CASE-XNP-07481] c 25 N69-21929
Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13663-1] c 35 N77-14406

MAGNETIC PUMPING
Continuous magnetic flux pump
[NASA-CASE-XNP-01187] c 15 N73-28516
Magnetic-flux pump
[NASA-CASE-XNP-01188] c 15 N73-32361
Magnetocaloric pump --- for cryogenic fluids
[NASA-CASE-LEW-11672-1] c 37 N74-27904
Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625

MAGNETIC RECORDING
Incremental tape recorder and data rate converter Patent
[NASA-CASE-XNP-02778] c 08 N71-22710
Magnetic recording head and method of making same Patent
[NASA-CASE-GSC-10097-1] c 08 N71-27210
Thermomagnetic recording and magnetic-optic playback system
[NASA-CASE-NPO-10872-1] c 35 N79-16246
Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c 76 N79-16678

MAGNETIC SIGNALS
Plural recorder system
[NASA-CASE-XMS-06949] c 09 N69-21467

MAGNETIC STORAGE
Binary magnetic memory device Patent
[NASA-CASE-XGS-00174] c 08 N70-34743
Magnetic matrix memory system Patent
[NASA-CASE-XMF-05835] c 08 N71-12504
Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418
Redundant memory organization Patent
[NASA-CASE-GSC-10564] c 10 N71-29135
Dual purpose momentum wheels for spacecraft with magnetic recording
[NASA-CASE-NPO-11481] c 21 N73-13644
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-1] c 28 N78-24365

MAGNETIC SUSPENSION
Magnetic suspension and pointing system
[NASA-CASE-LAR-11889-2] c 37 N78-27424
Magnetic suspension and pointing system --- on a carrier vehicle
[NASA-CASE-LAR-11889-1] c 35 N79-26372
Stirling cycle cryogenic cooler --- magnetically suspended pistons
[NASA-CASE-GSC-12697-1] c 31 N82-11312
Magnetic bearing and motor
[NASA-CASE-GSC-12726-1] c 37 N83-34323

MAGNETIC SWITCHING
Magnetic power switch Patent
[NASA-CASE-NPO-10242] c 09 N71-24803
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[NASA-CASE-XNP-08567] c 09 N71-26000

MAGNETIC TAPE TRANSPORTS
Reel safety brake
[NASA-CASE-GSC-11960-1] c 37 N77-14479

MAGNETIC TAPES
Endless tape cartridge Patent
[NASA-CASE-XGS-00769] c 14 N70-41647
Endless tape transport mechanism Patent
[NASA-CASE-XGS-01223] c 07 N71-10609
Low friction magnetic recording tape Patent
[NASA-CASE-XGS-00373] c 23 N71-15978
System for recording and reproducing pulse code modulated data Patent
[NASA-CASE-XGS-01021] c 08 N71-21042
Friction measuring apparatus Patent
[NASA-CASE-XNP-08680] c 14 N71-22995
Technique for recovery of voice data from heat damaged magnetic tape
[NASA-CASE-MSC-14219-1] c 32 N74-27612
Automatic character skew and spacing checking network --- of digital tape drive systems
[NASA-CASE-GSC-11925-1] c 33 N76-18353

MAGNETIC TRANSDUCERS
Magnetometer with a miniature transducer and automatic scanning
[NASA-CASE-LAR-11617-2] c 35 N78-32397

MAGNETIZATION
Ion engine casing construction and method of making same Patent
[NASA-CASE-XNP-06942] c 28 N71-23293

MAGNETO-OPTICS
Thermomagnetic recording and magneto-optic playback system having constant intensity laser beam control
[NASA-CASE-NPO-11317-2] c 36 N74-13205

MAGNETOHYDRODYNAMIC FLOW
Magneto-plasma-dynamic arc thruster
[NASA-CASE-LEW-11180-1] c 25 N73-25760

MAGNETOHYDRODYNAMIC GENERATORS
Magnetohydrodynamic induction machine
[NASA-CASE-XNP-07481] c 25 N69-21929
Slug flow magnetohydrodynamic generator
[NASA-CASE-XLE-02083] c 03 N69-39983
Two-fluid magnetohydrodynamic system and method for thermal-electric power conversion Patent
[NASA-CASE-XNP-00644] c 03 N70-36803
Crossed-field MHD plasma generator/ accelerator Patent
[NASA-CASE-XLA-03374] c 25 N71-15562
Solar driven liquid metal MHD power generator
[NASA-CASE-LAR-12495-1] c 44 N83-28573

MAGNETOMETERS
Nonmagnetic thermal motor for a magnetometer
[NASA-CASE-XAR-03786] c 09 N69-21313
Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02407] c 14 N69-27423
Flux sensing device using a tubular core with toroidal gating coil and solenoidal output coil wound thereon Patent
[NASA-CASE-XGS-01881] c 09 N70-40123
Wide range linear fluxgate magnetometer Patent
[NASA-CASE-XGS-01587] c 14 N71-15962
Optically pumped resonance magnetometer for determining vectoral components in a spatial coordinate system Patent
[NASA-CASE-XGS-04879] c 14 N71-20428
Thermally cycled magnetometer Patent
[NASA-CASE-XAC-03740] c 14 N71-26135
Two axis fluxgate magnetometer Patent
[NASA-CASE-GSC-10441-1] c 14 N71-27325
Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c 35 N75-13213
Magnetometer using superconducting rotating body
[NASA-CASE-NPO-13388-1] c 35 N76-16390
Magnetic heading reference
[NASA-CASE-LAR-11387-1] c 04 N76-20114
Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056
Magnetometer with a miniature transducer and automatic scanning
[NASA-CASE-LAR-11617-2] c 35 N78-32397
Low energy electron magnetometer using a monoenergetic electron beam
[NASA-CASE-LAR-12706-1] c 35 N84-12444

MAGNETRON SPUTTERING
Method of producing high T superconducting NbN films
[NASA-CASE-NPO-16681-1-CU] c 76 N86-21401

MAGNETRONS
Tuning arrangement for an electron discharge device or the like Patent
[NASA-CASE-XNP-09771] c 09 N71-24841

MAGNETS
Magnetic electrical connectors for biomedical percutaneous implants
[NASA-CASE-KSC-11030-1] c 52 N77-25772
Miniature cyclotron resonance ion source using small permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27163
Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067
Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017
Linear motion valve
[NASA-CASE-MSC-20148-1] c 37 N85-29284

MAGNIFICATION
Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03844-1] c 14 N71-26474
Magnifying scratch gage force transducer
[NASA-CASE-LAR-10496-1] c 14 N72-22437
Magnifying image intensifier
[NASA-CASE-GSC-12010-1] c 74 N78-18905
Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
Spectral slicing X-ray telescope with variable magnification
[NASA-CASE-MFS-25942-1] c 74 N86-20124

MAGNITUDE
Balance torquemeter Patent
[NASA-CASE-XGS-01013] c 14 N71-23725

MAINTENANCE
Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633
Bonding or repairing process
[NASA-CASE-MSC-12357] c 15 N73-12489
Method of repairing discontinuity in fiberglass structures
[NASA-CASE-LAR-10416-1] c 24 N74-30001
System and method for refurbishing and processing parachutes --- monorial conveyor system
[NASA-CASE-KSC-11042-2] c 02 N81-26073
Computer circuit card puller
[NASA-CASE-FRC-11042-1] c 60 N82-24839
Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330
Method for repair of thin glass coatings --- on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520
Method of repairing surface damage to porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18736-1] c 24 N83-13172
Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-20802

MALEATES
Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043
Maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] c 23 N86-19376

MALFUNCTIONS
Airplane take-off performance indicator Patent
[NASA-CASE-XLA-00100] c 14 N70-36807

MANDRELS
Mandrel for shaping solid propellant rocket fuel into a motor casing Patent
[NASA-CASE-XLA-00304] c 27 N70-34783
Rotating mandrel for assembly of inflatable devices Patent
[NASA-CASE-XLA-04143] c 15 N71-17687
Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779

MANEUVERABILITY
Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479

MANGANESE
Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c 76 N79-16678

MANIFOLDS
Injector for bipropellant rocket engines Patent
[NASA-CASE-XMF-00148] c 28 N70-38710
Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366
Collimated beam manifold with the number of output beams variable at a given output angle
[NASA-CASE-MFS-25312-1] c 74 N83-17305
Advanced vapor supply manifold
[NASA-CASE-LAR-13259-1] c 37 N86-20800

MANIPULATORS
Remote control manipulator for zero gravity environment
[NASA-CASE-MFS-14405] c 15 N72-28495
Orthotic arm joint --- for use in mechanical arms
[NASA-CASE-MFS-21611-1] c 54 N75-12616
Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MSC-14245-1] c 18 N75-27041
Cooperative multiaxis sensor for teleoperation of article manipulating apparatus
[NASA-CASE-NPO-13386-1] c 54 N75-27758
Remotely operable articulated manipulator
[NASA-CASE-MFS-22707-1] c 37 N76-15457
Remote manipulator system
[NASA-CASE-MFS-22022-1] c 37 N76-15460
Anthropomorphic master/slave manipulator system
[NASA-CASE-ARC-10756-1] c 54 N77-32721
Wrist joint assembly
[NASA-CASE-MFS-23311-1] c 54 N78-17676
Terminal guidance sensor system
[NASA-CASE-NPO-14521-1] c 54 N79-20746
Compact artificial hand
[NASA-CASE-NPO-13906-1] c 54 N79-24652
Controller arm for a remotely related slave arm
[NASA-CASE-ARC-11052-1] c 37 N79-28551
Device for coupling a first vehicle to a second vehicle
[NASA-CASE-GSC-12429-1] c 37 N81-14320
Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718
Terminal guidance sensor system --- space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519
Apparatus for sequentially transporting containers
[NASA-CASE-MFS-23846-1] c 37 N82-32731
Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] c 37 N85-29286
Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479
Apparatus for adapting an end effector device remotely controlled manipulator arm
[NASA-CASE-MFS-25949-1] c 37 N86-19603
Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] c 37 N86-20789

MANNED ORBITAL LABORATORIES
Rotating space station simulator Patent
[NASA-CASE-XLA-03127] c 11 N71-10776

MANNED ORBITAL RESEARCH LABORATORIES
Erectable modular space station Patent
[NASA-CASE-XLA-00678] c 31 N70-34296
Radial module space station Patent
[NASA-CASE-XMS-01906] c 31 N70-41373

MANNED SPACE FLIGHT
Transfer valve Patent
[NASA-CASE-XAC-01158] c 15 N71-23051
Air removal device
[NASA-CASE-XLA-8914] c 15 N73-12492

MANNED SPACECRAFT
Space capsule Patent
[NASA-CASE-XLA-00149] c 31 N70-37938
Variable-geometry winged reentry vehicle Patent
[NASA-CASE-XLA-00241] c 31 N70-37986
Vehicle parachute and equipment jettison system Patent
[NASA-CASE-XLA-00195] c 02 N70-38009
Space capsule Patent
[NASA-CASE-XLA-01332] c 31 N71-15664
Artificial gravity spin deployment system Patent
[NASA-CASE-XNP-02595] c 31 N71-21881
Specialized halogen generator for purification of water Patent
[NASA-CASE-XLA-08913] c 14 N71-28933
Collapsible Apollo couch
[NASA-CASE-MSC-13140] c 05 N72-11085
Space vehicle with artificial gravity and earth-like environment
[NASA-CASE-LEW-11101-1] c 31 N73-32750

MANOMETERS
Magnetically centered liquid column float Patent
[NASA-CASE-XAC-00030] c 14 N70-34820
Apparatus for absolute pressure measurement
[NASA-CASE-LAR-10000] c 14 N73-30394

MANUAL CONTROL
Multiple circuit switch apparatus with improved pivot actuator structure Patent
[NASA-CASE-XAC-03777] c 10 N71-15909
Null device for hand controller Patent
[NASA-CASE-XLA-01808] c 15 N71-20740
Manually actuated heat pump
[NASA-CASE-NPO-10677] c 05 N72-11084
Numerical computer peripheral interactive device with manual controls
[NASA-CASE-NPO-11497] c 08 N73-25206
Solid state controller three axes controller
[NASA-CASE-MSC-12394-1] c 08 N74-10942
G-load measuring and indicator apparatus
[NASA-CASE-ARC-10806-1] c 35 N75-29381
Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205

MANUFACTURING
A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
[NASA-CASE-ERC-10072] c 09 N70-11148
Indexed keyed connection Patent
[NASA-CASE-XMS-02532] c 15 N70-41808
Method of making screen by casting Patent
[NASA-CASE-XLE-00953] c 15 N71-15966
Space manufacturing machine Patent
[NASA-CASE-MFS-20410] c 15 N71-19214
Fluid containers and resealable septum therefor Patent
[NASA-CASE-NPO-10123] c 15 N71-24835
Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779
Method of making shielded flat cable Patent
[NASA-CASE-MFS-13687] c 09 N71-28691
Fabrication of controlled-porosity metals Patent
[NASA-CASE-XNP-04339] c 17 N71-29137
Method of making porous conductive supports for electrodes --- by electroforming and stacking nickel foils
[NASA-CASE-GSC-11367-1] c 44 N74-19692
Apparatus for forming drive belts
[NASA-CASE-NPO-13205-1] c 31 N74-32917
Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260
Process for fabricating SiC semiconductor devices
[NASA-CASE-LEW-12094-1] c 76 N76-25049
Solar hydrogen generator
[NASA-CASE-LAR-11361-1] c 44 N77-22607
Method of forming shrink-fit compression seal
[NASA-CASE-LAR-11563-1] c 37 N77-23482
Method for making a hot wire anemometer and product thereof
[NASA-CASE-ARC-10900-1] c 35 N77-24454
Aluminium or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-3] c 44 N80-16452
Polymeric compositions and their method of manufacture --- forming filled polymer systems using cryogenics
[NASA-CASE-NPO-10424-1] c 27 N81-24258
Inorganic spark chamber frame and method of making the same
[NASA-CASE-GSC-12354-1] c 35 N82-24471
Photoelectric detection system --- manufacturing automation
[NASA-CASE-MFS-23776-1] c 33 N82-28545
Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] c 27 N84-33589
The 1-(diorganooxphosphonyl)methyl-2, 4- and -2, 6-dinitro and diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N86-20499

MAPPING
Random function tracer Patent
[NASA-CASE-XLA-01401] c 15 N71-21179
Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118
Seismic vibration source
[NASA-CASE-NPO-14112-1] c 46 N79-22679
Dual aperture multispectral Schmidt objective
[NASA-CASE-GSC-12756-1] c 74 N84-23248
Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711

MAPS
Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c 19 N74-21015
Optical process for producing classification maps from multispectral data
[NASA-CASE-MSC-14472-1] c 43 N77-10584

MASERS
Segmented superconducting magnet for a broadband traveling wave maser Patent
[NASA-CASE-XGS-10518] c 16 N71-28554
Maser for frequencies in the 7-20 GHz range
[NASA-CASE-NPO-11437] c 16 N72-28521
Reflected-wave maser --- low noise amplifier
[NASA-CASE-NPO-13490-1] c 36 N76-31512
Multistation refrigeration system
[NASA-CASE-NPO-13839-1] c 31 N78-25256
External bulb variable volume maser
[NASA-CASE-GSC-12334-1] c 36 N79-14362
Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures
[NASA-CASE-NPO-14254-1] c 36 N80-18372
Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186
Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350
Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143

MASKING
Masking device Patent
[NASA-CASE-XNP-02092] c 15 N70-42033
High resolution developing of photosensitive resists Patent
[NASA-CASE-XGS-04993] c 14 N71-17574
Low defect, high purity crystalline layers grown by selective deposition
[NASA-CASE-NPO-15813-1] c 76 N85-30922

MASKS
Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N86-20587

MASS
Mass measuring system Patent
[NASA-CASE-XMS-03371] c 05 N70-42000
Dynamic vibration absorber Patent
[NASA-CASE-LAR-10083-1] c 15 N71-27006
Fluid mass sensor for a zero gravity environment
[NASA-CASE-MSC-14653-1] c 35 N77-19385

MASS BALANCE
Two-plane balance Patent
[NASA-CASE-XAC-00073] c 14 N70-34813
Apparatus for testing a pressure responsive instrument Patent
[NASA-CASE-XMF-04134] c 14 N71-23755

MASS DISTRIBUTION
Propellent mass distribution metering apparatus Patent
[NASA-CASE-NPO-10185] c 10 N71-26339

MASS FLOW
Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736
Nuclear mass flowmeter
[NASA-CASE-MFS-20485] c 14 N72-11365
Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10578-1] c 12 N73-25262

MASS SPECTROMETERS
Analytical photoionization mass spectrometer with an argon gas filter between the light source and monochrometer Patent
[NASA-CASE-LAR-10180-1] c 06 N71-13461
Time of flight mass spectrometer with feedback means from the detector to the low source and a specific counter Patent
[NASA-CASE-XNP-01056] c 14 N71-23041
Ion microprobe mass spectrometer for analyzing fluid materials Patent
[NASA-CASE-ERC-10014] c 14 N71-28863
Orifice gross leak tester Patent
[NASA-CASE-ERC-10150] c 14 N71-28992
Method and apparatus for determining the contents of contained gas samples
[NASA-CASE-GSC-10903-1] c 14 N73-12444
Quadrupole mass filter with means to generate a noise spectrum exclusive of the resonant frequency of the desired ions to deflect stable ions
[NASA-CASE-XNP-04231] c 14 N73-32325
Fast scan control for deflection type mass spectrometers
[NASA-CASE-LAR-11428-1] c 35 N74-34857
Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13663-1] c 35 N77-14406
Method for fabricating a mass spectrometer inlet leak
[NASA-CASE-GSC-12077-1] c 35 N77-24455
Dual acting slit control mechanism
[NASA-CASE-LAR-11370-1] c 35 N80-28686
Ion mass spectrometer
[NASA-CASE-NPO-15423-1] c 35 N84-28016

MASS SPECTROSCOPY
Moving particle composition analyzer
[NASA-CASE-GSC-11889-1] c 35 N76-16393
Fluid sampling device
[NASA-CASE-GSC-12143-1] c 35 N77-32456
Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184

MATERIAL ABSORPTION
Sorption vacuum trap Patent
[NASA-CASE-XER-09519] c 14 N71-18483

MATERIALS
Low gravity exothermic heating/cooling apparatus
[NASA-CASE-MSC-25707-1] c 35 N85-29214

MATERIALS HANDLING
Fluid coupling Patent
[NASA-CASE-XLE-00397] c 15 N70-36492
Catalyst bed removing tool Patent
[NASA-CASE-XFR-00811] c 15 N70-36901
Air bearing Patent
[NASA-CASE-XMF-01887] c 15 N71-10617
Quick attach and release fluid coupling assembly Patent
[NASA-CASE-XKS-01985] c 15 N71-10782
Method and apparatus for cryogenic wire stripping Patent
[NASA-CASE-MFS-10340] c 15 N71-17628
Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089
Method of making foamed materials in zero gravity
[NASA-CASE-XMF-09902] c 15 N72-11387
Mechanically extendible telescoping boom
[NASA-CASE-NPO-11118] c 03 N72-25021
Apparatus for recovering matter adhered to a host surface
[NASA-CASE-NPO-11213] c 15 N73-20514
Apparatus and method for skin packaging articles
[NASA-CASE-MFS-20855] c 15 N73-27405
Apparatus for inserting and removing specimens from high temperature vacuum furnaces
[NASA-CASE-LAR-10841-1] c 31 N74-27900
Deployable flexible tunnel
[NASA-CASE-MFS-22636-1] c 37 N76-22540
Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441
Acoustic system for material transport
[NASA-CASE-NPO-15453-1] c 71 N83-32515

MATERIALS RECOVERY
Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c 25 N76-18245
Process for the leaching of AP from propellant
[NASA-CASE-NPO-14109-1] c 28 N80-23471
Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119

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Flammability test chamber Patent
[NASA-CASE-KSC-10126] c 11 N71-24985
Apparatus and method for measuring the Seebeck coefficient and resistivity of materials
[NASA-CASE-NPO-11749] c 14 N73-28486

MATERIALS TESTS
Thermal shock apparatus Patent
[NASA-CASE-XLE-02024] c 14 N71-22964
Multiple environment materials test chamber having a multiple port X-ray tube for irradiating a plurality of samples Patent
[NASA-CASE-XMS-02930] c 11 N71-23042
Resilience testing device Patent
[NASA-CASE-XLA-08254] c 14 N71-26161
Tube sealing device Patent
[NASA-CASE-NPO-10431] c 15 N71-29132
Burn rate testing apparatus
[NASA-CASE-XMS-09690] c 33 N72-25913
Multi axes vibration fixtures
[NASA-CASE-MFS-20242] c 14 N73-19421
Material fatigue testing system
[NASA-CASE-MFS-20673] c 14 N73-20476

MATHEMATICAL LOGIC
Logical function generator
[NASA-CASE-XLA-05099] c 09 N73-13209

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Solar cell submodule Patent
[NASA-CASE-XNP-05821] c 03 N71-11056
Magnetic matrix memory system Patent
[NASA-CASE-XMF-05835] c 08 N71-12504
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[NASA-CASE-NPO-10821] c 03 N71-19545
Drive circuit utilizing two cores Patent
[NASA-CASE-XNP-01318] c 10 N71-23033
Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24650
Solid state matrices
[NASA-CASE-NPO-10591] c 03 N72-22041

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Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-3] c 27 N85-21350
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[NASA-CASE-LEW-13770-4] c 27 N85-21351
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-6] c 25 N85-30039

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Automatic recording McLeod gauge Patent
[NASA-CASE-XLE-03280] c 14 N71-23093
Bakeable McLeod gauge
[NASA-CASE-XGS-01293-1] c 35 N79-33450

MEASURING INSTRUMENTS
Device for determining the accuracy of the flare on a flared tube
[NASA-CASE-XKS-03495] c 14 N69-39785
Angular measurement system Patent
[NASA-CASE-XMF-00447] c 14 N70-33179
Two-plane balance Patent
[NASA-CASE-XAC-00073] c 14 N70-34813
Parallel motion suspension device Patent
[NASA-CASE-XNP-01567] c 15 N70-41310
Vibrating structure displacement measuring instrument Patent
[NASA-CASE-XLA-03135] c 32 N71-16428
Inspection gage for boss Patent
[NASA-CASE-XMF-04966] c 14 N71-17658
Vapor pressure measuring system and method Patent
[NASA-CASE-XMS-01618] c 14 N71-20741
Spherical tank gauge Patent
[NASA-CASE-XMS-06236] c 14 N71-21007
Energy absorbing device Patent
[NASA-CASE-XMF-10040] c 15 N71-22877
Ablation sensor Patent
[NASA-CASE-XLA-01791] c 14 N71-22991
Moment of inertia test fixture Patent
[NASA-CASE-XGS-01023] c 14 N71-22992
Electron beam instrument for measuring electric fields Patent
[NASA-CASE-XMF-10289] c 14 N71-23699
Floating two force component measuring device Patent
[NASA-CASE-XAC-04885] c 14 N71-23790
Internal flare angle gauge Patent
[NASA-CASE-XMF-04415] c 14 N71-24693
RC rate generator for slow speed measurement Patent
[NASA-CASE-XMF-02966] c 10 N71-24863
Transverse piezoresistance and pinch effect electromechanical transducers Patent
[NASA-CASE-ERC-10088] c 26 N71-25490
Layout tool Patent
[NASA-CASE-FRC-10005] c 15 N71-26145
Method and apparatus for detecting gross leaks Patent
[NASA-CASE-ERC-10033] c 14 N71-26672
Arbitrarily shaped model survey system Patent
[NASA-CASE-LAR-10098] c 32 N71-26681
Thickness measuring and injection device Patent
[NASA-CASE-MFS-20261] c 14 N71-27005
Resonant infrasonic gauging apparatus
[NASA-CASE-MSC-11847-1] c 14 N72-11363
Roll alignment detector
[NASA-CASE-GSC-10514-1] c 14 N72-20379
Cosmic dust sensor
[NASA-CASE-GSC-10503-1] c 14 N72-20381
Firefly pump-metering system
[NASA-CASE-GSC-10218-1] c 15 N72-21465
Capacitive tank gaging apparatus being independent of liquid distribution
[NASA-CASE-MFS-21629] c 14 N72-22442
Spherical measurement device
[NASA-CASE-XLA-06683] c 14 N72-28436
Altitude measuring system
[NASA-CASE-ERC-10412-1] c 09 N73-12211
Flow velocity and directional instrument
[NASA-CASE-LAR-10855-1] c 14 N73-13415
Multi axes vibration fixtures
[NASA-CASE-MFS-20242] c 14 N73-19421
Material fatigue testing system
[NASA-CASE-MFS-20673] c 14 N73-20476
Droplet monitoring probe
[NASA-CASE-NPO-10985] c 14 N73-20478
Apparatus and method for measuring the Seebeck coefficient and resistivity of materials
[NASA-CASE-NPO-11749] c 14 N73-28486
RF-source resistance meters
[NASA-CASE-NPO-11291-1] c 14 N73-30388
Apparatus for absolute pressure measurement
[NASA-CASE-LAR-10000] c 14 N73-30394
Holographic thin film analyzer
[NASA-CASE-MFS-20823-1] c 16 N73-30476
Three-axis adjustable loading structure
[NASA-CASE-FRC-10051-1] c 35 N74-13129
Thin film gauge --- for measuring convective heat transfer rates along test surfaces in wind tunnels
[NASA-CASE-NPO-10617-1] c 35 N74-22095
Apparatus and method for processing Korotkov sounds --- for blood pressure measurement
[NASA-CASE-MSC-13999-1] c 52 N74-26626
Electric field measuring and display system --- for cloud formations
[NASA-CASE-KSC-10731-1] c 33 N74-27862
Device for measuring tensile forces
[NASA-CASE-MFS-21728-1] c 35 N74-27865
Measuring probe position recorder
[NASA-CASE-LAR-10806-1] c 35 N74-32877
Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-MFS-22189-1] c 35 N75-19615
Thrust measurement
[NASA-CASE-XMS-05731] c 35 N75-29382
Method and apparatus for measuring web material wound on a reel
[NASA-CASE-GSC-11902-1] c 38 N77-17495
Optical instrument employing reticle having preselected visual response pattern formed thereon
[NASA-CASE-ARC-10976-1] c 74 N77-22950
Direct reading inductance meter
[NASA-CASE-NPO-13792-1] c 35 N77-32455
Ruler for making navigational computations
[NASA-CASE-XNP-01458] c 04 N78-17031
Apparatus for handling micron size range particulate material
[NASA-CASE-NPO-10151] c 37 N78-17386
Apparatus for measuring a sorbate dispersed in a fluid stream
[NASA-CASE-ARC-10896-1] c 35 N78-19465
Condition sensor system and method
[NASA-CASE-MSC-14805-1] c 54 N78-32720
Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c 33 N79-10337
Time domain phase measuring apparatus
[NASA-CASE-GSC-12228-1] c 33 N79-10338
Fluid velocity measuring device
[NASA-CASE-LAR-11729-1] c 34 N79-12359
Method and apparatus for measuring minority carrier lifetimes and bulk diffusion length in P-N junction solar cells
[NASA-CASE-NPO-14100-1] c 44 N79-12541
Lightning current detector
[NASA-CASE-KSC-11057-1] c 33 N79-14305
Contour measurement system
[NASA-CASE-MFS-23726-1] c 43 N79-26439
Borehole geological assessment
[NASA-CASE-NPO-14231-1] c 46 N80-10709
Displacement probes with self-contained exciting medium
[NASA-CASE-LAR-11690-1] c 35 N80-14371
Viscosity measuring instrument
[NASA-CASE-NPO-14501-1] c 35 N80-18357
Geological assessment probe
[NASA-CASE-NPO-14558-1] c 46 N80-24906
Method and automated apparatus for detecting coliform organisms
[NASA-CASE-MSC-16777-1] c 51 N80-27067
Skin friction measuring device for aircraft
[NASA-CASE-FRC-11029-1] c 06 N81-17057
Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381
Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779
Temperature averaging thermal probe
[NASA-CASE-GSC-12795-1] c 35 N83-20085
Flow resistivity instrument
[NASA-CASE-LAR-13053-1] c 43 N83-29783
Non-invasive method and apparatus for measuring pressure within a pliable vessel
[NASA-CASE-ARC-11264-2] c 52 N83-29991
Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-1] c 09 N84-12193
Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] c 35 N84-22934
Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] c 72 N84-28575
Liquid thickness gage
[NASA-CASE-LAR-13342-1] c 35 N85-20297
Self-charging metering and dispensing device for fluids
[NASA-CASE-MSC-20275-1] c 35 N85-21595
Oscillating pressure device for dynamic calibration of pressure transducers
[NASA-CASE-LAR-13094-1] c 35 N85-29217
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
Temperature averaging thermal probe
[NASA-CASE-GSC-12795-1] c 35 N86-19580

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[NASA-CASE-XNP-00614] c 14 N70-36907
Load cell protection device Patent
[NASA-CASE-XMS-06782] c 32 N71-15974
Satellite despin device Patent
[NASA-CASE-XMF-08523] c 31 N71-20396
Two force component measuring device Patent
[NASA-CASE-XAC-04886-1] c 14 N71-20439
Latching mechanism Patent
[NASA-CASE-XMS-03745] c 15 N71-21076
Stirring apparatus for plural test tubes Patent
[NASA-CASE-XAC-06956] c 15 N71-21177

Random function tracer Patent
[NASA-CASE-XLA-01401] c 15 N71-21179
Canister closing device Patent
[NASA-CASE-XLA-01446] c 15 N71-21528
Nonmagnetic, explosive actuated indexing device Patent
[NASA-CASE-XGS-02422] c 15 N71-21529
Central spar and module joint Patent
[NASA-CASE-XNP-02341] c 15 N71-21531
Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255
Alloys for bearings Patent
[NASA-CASE-XLE-05033] c 15 N71-23810
Mechanical actuator Patent
[NASA-CASE-XGS-04548] c 15 N71-24045
Winch having cable position and load indicators Patent
[NASA-CASE-MSC-12052-1] c 15 N71-24599
Redundant actuating mechanism Patent
[NASA-CASE-XGS-08718] c 15 N71-24600
Shock tube powder dispersing apparatus Patent
[NASA-CASE-XLE-04946] c 17 N71-24911
Self-lubricating gears and other mechanical parts Patent
[NASA-CASE-MFS-14971] c 15 N71-24984
Layout tool Patent
[NASA-CASE-FRC-10005] c 15 N71-26145
Thermostatic actuator
[NASA-CASE-NPO-10637] c 15 N72-12409
Ball screw linear actuator
[NASA-CASE-NPO-11222] c 15 N72-25456
Spherical measurement device
[NASA-CASE-XLA-06683] c 14 N72-28436
Thermal compensating structural member
[NASA-CASE-MFS-20433] c 15 N72-28496
Spiral groove seal
[NASA-CASE-XLE-10326-2] c 15 N72-29488
Solar energy powered heliotrope
[NASA-CASE-GSC-10945-1] c 21 N72-31637
Adjustable force probe
[NASA-CASE-MFS-20760] c 14 N72-33377
Rotary actuator
[NASA-CASE-NPO-10680] c 31 N73-14855
Collapsible structure for an antenna reflector
[NASA-CASE-NPO-11751] c 07 N73-24176
Foot pedal operated fluid type exercising device
[NASA-CASE-MSC-11561-1] c 05 N73-32014
Exposure interlock for oscilloscope cameras
[NASA-CASE-LAR-10319-1] c 14 N73-32322
Reefing system
[NASA-CASE-LAR-10129-2] c 37 N74-20063
Sprag solenoid brake --- development and operations of electrically controlled brake
[NASA-CASE-MFS-21846-1] c 37 N74-26976
Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c 44 N74-33379
Automatic inoculating apparatus --- includes movable carraige, drive motor, and swabbing motor
[NASA-CASE-LAR-11074-1] c 51 N75-13502
Clock setter
[NASA-CASE-LAR-11458-1] c 35 N76-16392
Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11465-1] c 37 N76-21554
Reel safety brake
[NASA-CASE-GSC-11960-1] c 37 N77-14479
Mechanical sequencer
[NASA-CASE-MSC-19536-1] c 37 N77-22482
Combined docking and grasping device
[NASA-CASE-MFS-23088-1] c 37 N77-23483
Wrist joint assembly
[NASA-CASE-MFS-23311-1] c 54 N78-17676
Tetherline system for orbiting satellites
[NASA-CASE-MFS-23564-1] c 15 N78-25119
Actuator mechanism
[NASA-CASE-GSC-11883-2] c 37 N78-31426
Quartz ball value
[NASA-CASE-NPO-14473-1] c 37 N80-23654
Method and apparatus for holding two separate metal pieces together for welding
[NASA-CASE-GSC-12318-1] c 37 N80-23655
Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492
Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137
Device for coupling a first vehicle to a second vehicle
[NASA-CASE-GSC-12429-1] c 37 N81-14320
Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c 52 N81-25661
Reusable captive blind fastener
[NASA-CASE-MSC-18742-1] c 37 N82-26673
Mechanical end joint system for structural column elements
[NASA-CASE-LAR-12482-1] c 37 N82-32732
Compression test apparatus
[NASA-CASE-MSC-18723-1] c 35 N83-21312
Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482
Clamp-mount device
[NASA-CASE-MFS-25510-1] c 37 N84-16560
Self-indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N84-20860
Method and apparatus for gripping uniaxial fibrous composite materials
[NASA-CASE-LEW-13758-1] c 24 N84-27829
Extended moment arm anti-spin device
[NASA-CASE-LAR-12979-1] c 05 N85-21147
Connection system --- insuring against loss of a tool component without using multiple tethers
[NASA-CASE-MSC-20319-1] c 37 N85-21649
Apparatus for mounting a field emission cathode
[NASA-CASE-LEW-14108-1] c 33 N85-29149
Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MSC-20857-1] c 37 N86-20807

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Hydraulic drive mechanism Patent
[NASA-CASE-XMS-03252] c 15 N71-10658
Anti-backlash circuit for hydraulic drive system Patent
[NASA-CASE-XNP-01020] c 03 N71-12260
Precision stepping drive Patent
[NASA-CASE-MFS-14772] c 15 N71-17692
Incremental motion drive system Patent
[NASA-CASE-XNP-08897] c 15 N71-17694
Ratchet mechanism Patent
[NASA-CASE-MFS-12805] c 15 N71-17805
Welding skate with computerized control Patent
[NASA-CASE-XMF-07069] c 15 N71-23815
Reversible motion drive system Patent
[NASA-CASE-NPO-10173] c 15 N71-24696
Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10065-1] c 10 N71-27136
Energy absorption device Patent
[NASA-CASE-XNP-01848] c 15 N71-28959
Boring bar drive mechanism Patent
[NASA-CASE-XLA-03661] c 15 N71-33518
Rotary actuator
[NASA-CASE-NPO-10244] c 15 N72-26371
Rotary actuator
[NASA-CASE-NPO-10680] c 31 N73-14855
Optically actuated two position mechanical mover
[NASA-CASE-NPO-13105-1] c 37 N74-21060
Two speed drive system --- mechanical device for changing speed on rotating vehicle wheel
[NASA-CASE-MFS-20645-1] c 37 N74-23070
Concentric differential gearing arrangement
[NASA-CASE-ARC-10462-1] c 37 N74-27901
Geneva mechanism --- including star wheel and driver
[NASA-CASE-NPO-13281-1] c 37 N75-13266
Mechanical thermal motor
[NASA-CASE-MFS-23062-1] c 37 N77-12402
Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c 35 N77-20401
Hydraulic drain means for servo-systems
[NASA-CASE-NPO-10316-1] c 37 N77-22479
Mechanical sequencer
[NASA-CASE-MSC-19536-1] c 37 N77-22482
Gas turbine engine with convertible accessories
[NASA-CASE-LEW-12390-1] c 07 N78-17056
Wabble gear drive mechanism --- for aerospace environments
[NASA-CASE-WOO-00625] c 37 N78-17385
Toggle mechanism for pinching metal tubes
[NASA-CASE-GSC-12274-1] c 37 N79-28550
Antenna deployment mechanism for use with a spacecraft --- extensible and retractable telescopic antenna mast
[NASA-CASE-GSC-12331-1] c 18 N80-14183
Redundant motor drive system
[NASA-CASE-MFS-23777-1] c 37 N80-32716
Belt for transmitting power from a cogged driving member to a cogged driven member
[NASA-CASE-GSC-12289-1] c 37 N80-32717
Base drive for paralleled inverter systems
[NASA-CASE-NPO-14163-1] c 33 N81-14220
Speed control device for a heavy duty shaft --- solar sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364
Clutchless multiple drive source for output shaft
[NASA-CASE-ARC-11325-1] c 37 N82-22496
Electrical rotary joint apparatus for large space structures
[NASA-CASE-MFS-23981-1] c 07 N83-20944
Variable speed drive
[NASA-CASE-GSC-12643-1] c 37 N83-26078
Remotely operable peristaltic pump
[NASA-CASE-MFS-28059-1] c 37 N85-29288
Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N86-19611
Mobile remote manipulator vehicle system
[NASA-CASE-LAR-13393-1] c 54 N86-21147

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Manual actuator --- for spacecraft exercising machines
[NASA-CASE-MFS-21481-1] c 37 N74-18127
Shaft seal assembly for high speed and high pressure applications
[NASA-CASE-LEW-11873-1] c 37 N79-22475

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Strain gage Patent Application
[NASA-CASE-FRC-10053] c 14 N70-35587
Apparatus for absorbing and measuring power Patent
[NASA-CASE-XLE-00720] c 14 N70-40201
Strain sensor for high temperatures Patent
[NASA-CASE-XNP-09205] c 14 N71-17657
Extensometer Patent
[NASA-CASE-XMF-04680] c 15 N71-19489
Hall effect transducer
[NASA-CASE-LAR-10620-1] c 09 N72-25255
Strain gage mounting assembly
[NASA-CASE-NPO-13170-1] c 35 N76-14430
Photomechanical transducer
[NASA-CASE-NPO-14363-1] c 39 N81-25400
Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875

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High temperature testing apparatus Patent
[NASA-CASE-XLE-00335] c 14 N70-35368
Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] c 24 N84-11213
Process for improving mechanical properties of epoxy resins by addition of cobalt ions
[NASA-CASE-LAR-13230-1] c 24 N84-34571
Elastomer toughened polyimide adhesives --- bonding metal and composite material structures for aircraft and spacecraft
[NASA-CASE-LAR-12775-2] c 27 N85-21349
Containerless high purity pulling process and apparatus for glass fiber
[NASA-CASE-MFS-25905-2] c 31 N86-21718

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Gravity stabilized flying vehicle Patent
[NASA-CASE-MSC-12111-1] c 02 N71-11039

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Machine for use in monitoring fatigue life for a plurality of elastomeric specimens
[NASA-CASE-NPO-13731-1] c 39 N78-10493

MEDICAL ELECTRONICS

Circuit for detecting initial systole and dicrotic notch --- for monitoring arterial pressure
[NASA-CASE-LEW-11581-1] c 54 N75-13531
Pocket ECG electrode
[NASA-CASE-ARC-11258-1] c 52 N80-33081
Subcutaneous electrode structure
[NASA-CASE-ARC-11117-1] c 52 N81-14612

MEDICAL EQUIPMENT

Biomedical electrode arrangement Patent
[NASA-CASE-XFR-10856] c 05 N71-11189
Method and system for respiration analysis Patent
[NASA-CASE-XFR-08403] c 05 N71-11202
Laser machining apparatus Patent
[NASA-CASE-HQN-10541-2] c 15 N71-27135
Telemetry actuated switch
[NASA-CASE-ARC-10105] c 09 N72-17153
Tilting table for ergometer and for other biomedical devices
[NASA-CASE-MFS-21010-1] c 05 N73-30078
Automatic instrument for chemical processing to detect microorganism in biological samples by measuring light reactions
[NASA-CASE-GSC-11169-2] c 05 N73-32011
Servo-controlled intravital microscope system
[NASA-CASE-NPO-13214-1] c 35 N75-25123
Heat sterilizable patient ventilator
[NASA-CASE-NPO-13313-1] c 54 N75-27761
Medical subject monitoring systems --- multichannel monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757
Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-1] c 54 N76-22914
Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525
Corneal seal device
[NASA-CASE-LEW-12258-1] c 52 N77-28716
Snap-in compressible biomedical electrode
[NASA-CASE-MSC-14623-1] c 52 N77-28717
Tissue macerating instrument
[NASA-CASE-LEW-12668-1] c 52 N78-14773
Flow compensating pressure regulator
[NASA-CASE-LEW-12718-1] c 34 N78-25351

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[NASA-CASE-XNP-08837] c 18 N71-16210
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[NASA-CASE-MSC-12116-1] c 15 N71-17648
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[NASA-CASE-MFS-13686] c 15 N71-18132
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[NASA-CASE-XNP-03459] c 15 N71-21078
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[NASA-CASE-XGS-02631] c 03 N71-23006
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[NASA-CASE-LEW-12441-1] c 34 N79-13289
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[NASA-CASE-LAR-10941-2] c 37 N79-13364
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[NASA-CASE-GSC-12318-1] c 37 N80-23655
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[NASA-CASE-LEW-12441-2] c 34 N80-24573
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[NASA-CASE-XNP-03459] c 15 N71-21078
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[NASA-CASE-XNP-04023] c 06 N71-28808
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[NASA-CASE-LEW-10965-1] c 15 N72-25452
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[NASA-CASE-LEW-13324-1] c 26 N82-26431
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[NASA-CASE-NPO-15161-1] c 33 N84-16456
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Method and tool for machining a transverse slot about a bore
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Method for alleviating thermal stress damage in laminates
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[NASA-CASE-MSC-12662-1] c 33 N79-12331
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[NASA-CASE-XNP-00595] c 15 N70-34967
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-01765] c 18 N71-10772
Bismuth-lead coatings for gas bearings used in atmospheric environments and vacuum chambers Patent
[NASA-CASE-XGS-02011] c 15 N71-20739
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-10337] c 15 N71-24046
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Light regulator
[NASA-CASE-LAR-10836-1] c 26 N72-27784
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[NASA-CASE-LEW-12083-1] c 37 N78-13436
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[NASA-CASE-XLE-03432] c 33 N71-24145
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[NASA-CASE-LAR-12321-1] c 35 N82-24470
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[NASA-CASE-LEW-11860-1] c 37 N76-18458
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[NASA-CASE-NPO-14782-1] c 36 N82-28616
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[NASA-CASE-HQN-10364] c 06 N71-27363
Aluminum ion-containing polyimide adhesives
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Process for improving mechanical properties of epoxy resins by addition of cobalt ions
[NASA-CASE-LAR-13230-1] c 24 N84-34571
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[NASA-CASE-LEW-12941-1] c 26 N83-10170
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[NASA-CASE-LEW-12441-1] c 34 N79-13289
Preparation of monotectic alloys having a controlled microstructure by directional solidification under dopant-induced interface breakdown
[NASA-CASE-MFS-23816-1] c 26 N80-23419
Heat exchanger and method of making --- rocket lining
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[NASA-CASE-MFS-21433] c 09 N73-20232
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[NASA-CASE-GSC-11425-1] c 76 N74-20329
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[NASA-CASE-MFS-22343-1] c 33 N74-34638
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential
[NASA-CASE-GSC-11425-2] c 76 N75-25730
Solar cell collector
[NASA-CASE-LEW-12552-1] c 44 N78-25527
Multilevel metallization method for fabricating a metal oxide semiconductor device
[NASA-CASE-MFS-23541-1] c 76 N79-14906
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[NASA-CASE-GSC-12515-1] c 33 N81-26360
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[NASA-CASE-GSC-12782-1] c 33 N83-13360
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GaAs Schottky barrier photo-responsive device and method of fabrication
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Process for producing dispersion strengthened nickel with aluminum Patent
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Photoetching of metal-oxide layers
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[NASA-CASE-XLE-06461] c 17 N72-22530
Method for obtaining oxygen from lunar or similar soil
[NASA-CASE-MSC-12408-1] c 46 N74-13011
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[NASA-CASE-NPO-15640-1] c 27 N84-22748
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[NASA-CASE-XLE-02083] c 03 N69-39983
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[NASA-CASE-LEW-10219-1] c 18 N71-28729
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[NASA-CASE-NPO-11975-1] c 28 N74-33209
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[NASA-CASE-XLE-00209] c 22 N73-32528
Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c 27 N76-14264
Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492
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[NASA-CASE-LEW-13598-1] c 35 N84-22930
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[NASA-CASE-LEW-10393-1] c 17 N71-15468
Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
Shock tube powder dispersing apparatus Patent
[NASA-CASE-XLE-04946] c 17 N71-24911
Preparation of high purity copper fluoride
[NASA-CASE-LEW-10794-1] c 06 N72-17093
Production of metal powders
[NASA-CASE-XLE-06461] c 17 N72-22530
Apparatus for producing metal powders
[NASA-CASE-XLE-06461-2] c 17 N72-28535
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[NASA-CASE-GSC-11163-1] c 15 N73-32360
Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] c 33 N84-16456
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Light shield and infrared reflector for fatigue testing Patent
[NASA-CASE-XLA-01782] c 14 N71-26136
Method of making pressure tight seal for super alloy
[NASA-CASE-LAR-10170-1] c 37 N74-11301
Method of making an explosively welded scarf joint
[NASA-CASE-LAR-11211-1] c 37 N75-12326
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[NASA-CASE-GSC-10984-1] c 37 N75-26371
Apparatus for welding sheet material --- butt joints
[NASA-CASE-XMS-01330] c 37 N75-27376
Method of bonding plasticized elastomer to metal and articles produced thereby
[NASA-CASE-MFS-25181-1] c 27 N82-24340
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[NASA-CASE-XMF-01083] c 15 N71-22723
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Method of coating a substrate with a rapidly solidified metal
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Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00164] c 15 N70-36411
Interconnection of solar cells Patent
[NASA-CASE-XGS-01475] c 03 N71-11058
Method of making tubes Patent
[NASA-CASE-XGS-04175] c 15 N71-18579
High speed shutter --- electrically actuated ribbon loop for shuttering optical or fluid passageways
[NASA-CASE-ARC-10516-1] c 70 N74-21300
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Condenser - Separator
[NASA-CASE-XLA-08645] c 15 N69-21465
Plating nickel on aluminum castings Patent
[NASA-CASE-XNP-04148] c 17 N71-24830
Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875
Process for reducing secondary electron emission Patent
[NASA-CASE-XNP-09469] c 24 N71-25555
Method of forming ceramic to metal seal Patent
[NASA-CASE-XNP-01263-2] c 15 N71-26312
Temperature reducing coating for metals subject to flame exposure Patent
[NASA-CASE-XLE-00035] c 33 N71-29151
Thin film gauge --- for measuring convective heat transfer rates along test surfaces in wind tunnels
[NASA-CASE-NPO-10617-1] c 35 N74-22095
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[NASA-CASE-MSC-12631-3] c 27 N81-14077
Improved refractory coatings --- sputtered coatings on substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209

Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
Corrosion resistant thermal barrier coating --- protecting gas turbines and other engine parts
[NASA-CASE-LEW-13088-1] c 26 N81-25188
Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] c 26 N84-27855
Method for forming hermetic seals
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METAL VAPOR LASERS
High power metallic halide laser --- amplifying a copper chloride laser
[NASA-CASE-NPO-14782-1] c 36 N82-28616
Method and apparatus for convection control of metallic halide vapor density in a metallic halide laser
[NASA-CASE-NPO-15021-1] c 36 N83-10417

METAL VAPORS
Slug flow magnetohydrodynamic generator
[NASA-CASE-XLE-02083] c 03 N69-39983
Apparatus for making a metal slurry product Patent
[NASA-CASE-XLE-00010] c 15 N70-33382
Inert gas metallic vapor laser
[NASA-CASE-NPO-13449-1] c 36 N75-32441
Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c 36 N77-26477

METAL WORKING
Electric arc welding Patent
[NASA-CASE-XMF-00392] c 15 N70-34814
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114] c 15 N71-17650
Protective device for machine and metalworking tools Patent
[NASA-CASE-XLE-01092] c 15 N71-22797
Portable milling tool Patent
[NASA-CASE-XMF-03511] c 15 N71-22799
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[NASA-CASE-XLE-06773] c 15 N71-23817
Magnetomotive metal working device Patent
[NASA-CASE-XMF-03793] c 15 N71-24833
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-3] c 15 N71-24865
Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c 37 N74-25968
Apparatus for forming dished ion thruster grids
[NASA-CASE-LEW-11694-2] c 37 N76-14461
Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491

METAL-METAL BONDING
Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443
Honeycomb panel and method of making same Patent
[NASA-CASE-XMF-01402] c 18 N71-21651
Capillary flow weld-bonding
[NASA-CASE-LAR-11726-1] c 37 N76-27568
Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170
Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35338

METALLIC GLASSES
Glass compositions with a high modulus of elasticity --- nontoxic glass fibers
[NASA-CASE-HQN-10274-1] c 27 N82-29451
High modulus invert analog glass compositions containing beryllia
[NASA-CASE-HQN-10931-2] c 27 N82-29452

METALLIZING
Multilevel metallization method for fabricating a metal oxide semiconductor device
[NASA-CASE-MFS-23541-1] c 76 N79-14906
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N84-20670
Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] c 26 N84-33555
A process to produce fine line metallic collection patterns on semiconductors devices
[NASA-CASE-NPO-16413-1] c 26 N85-21325

METALLOGRAPHY
Method for etching copper Patent
[NASA-CASE-XGS-06306] c 17 N71-16044

METALLOSILOXANE POLYMER
Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids
[NASA-CASE-MFS-22411-1] c 37 N74-21058

METALLURGY
Induction furnace with perforated tungsten foil shielding Patent
[NASA-CASE-XLE-04026] c 14 N71-23267
Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229

METALS
Transpiration cooled turbine blade manufactured from wires Patent
[NASA-CASE-XLE-00020] c 15 N70-33226
Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710
Convoluting device for forming convolutions and the like Patent
[NASA-CASE-XNP-05297] c 15 N71-23811
Forming tool for ribbon or wire
[NASA-CASE-XLA-05966] c 15 N72-12408
Peen plating
[NASA-CASE-GSC-11163-1] c 15 N73-32360
Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c 37 N74-21063
Scanning nozzle plating system --- for etching or plating metals on substrates without masking
[NASA-CASE-NPO-11758-1] c 31 N74-23065
Production of pure metals
[NASA-CASE-LEW-10906-1] c 25 N74-30502
Thermocouple tape --- developed from thermoelectrically different metals
[NASA-CASE-LEW-11072-2] c 35 N76-15434
Method of forming shrink-fit compression seal
[NASA-CASE-LAR-11563-1] c 37 N77-23482
Solar cells having integral collector grids
[NASA-CASE-LEW-12819-1] c 44 N79-11467
Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] c 27 N84-27884
Insulation bonding test system
[NASA-CASE-MFS-25862-1] c 27 N85-20126
Device and method for frictionally testing materials for ignitability
[NASA-CASE-MSC-20622-1] c 25 N86-19413
Metal phthalocyanine intermediates for the preparation of polymers
[NASA-CASE-ARC-11405-2] c 27 N86-19455
Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680

METASTABLE STATE
Stabilization of He2(a 3 Sigma u+ molecules in liquid helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13826
Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374

METEORITE COLLISIONS
Pressurized panel
[NASA-CASE-XLA-08916-2] c 14 N73-28487
Method of and device for determining the characteristics and flux distribution of micrometeorites --- scanning puncture holes in sheet material with photoelectric cell
[NASA-CASE-NPO-12127-1] c 91 N74-13130

METEORITES
Method of making pressurized panel Patent
[NASA-CASE-XLA-08916] c 15 N71-29018

METEORITIC DAMAGE
Meteoroid sensing apparatus having a coincidence network connected to a pair of capacitors Patent
[NASA-CASE-XLE-01246] c 14 N71-10797

METEOROID HAZARDS
Meteoroid impact position locator aid for manned space station
[NASA-CASE-LAR-10629-1] c 35 N75-33367

METEOROID PROTECTION
Aerodynamic protection for space flight vehicles Patent
[NASA-CASE-XNP-02507] c 31 N71-17679

METEOROIDS
Apparatus for photographing meteors
[NASA-CASE-LAR-10226-1] c 14 N73-19419
Meteoroid capture cell construction
[NASA-CASE-MSC-12423-1] c 91 N76-30131

METEOROLOGICAL BALLOONS
Meteorological balloon Patent
[NASA-CASE-XMF-04163] c 02 N71-23007

METHANE
Gas lubricant compositions Patent
[NASA-CASE-XLE-00353] c 18 N70-39897
Amine terminated bisaspartimides, process for preparation thereof, and polymers thereof
[NASA-CASE-ARC-11421-1] c 27 N84-16340
Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N85-21631

METHYL ALCOHOLS
Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] c 23 N84-16255

METHYL COMPOUNDS
Process for producing tris s(n-methylamino) methylsilane
[NASA-CASE-MFS-25721-1] c 25 N85-21280

METHYLENE
Carboranylmethylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750

MICHELSON INTERFEROMETERS
Interferometer direction sensor Patent
[NASA-CASE-NPO-10320] c 14 N71-17655
Interferometer servo system Patent
[NASA-CASE-NPO-10300] c 14 N71-17662
Multispectral imaging system
[NASA-CASE-MSC-12404-1] c 23 N73-13661
Interferometer mirror tilt correcting system
[NASA-CASE-NPO-13687-1] c 35 N78-18391
Method and means for generation of tunable laser sidebands in the far-infrared region
[NASA-CASE-NPO-16497-1-CU] c 36 N86-20779

MICROANALYSIS
Plural output optimetric sample cell and analysis system
[NASA-CASE-NPO-10233-1] c 74 N78-33913

MICROBALANCES
Null-type vacuum microbalance Patent
[NASA-CASE-XAC-00472] c 15 N70-40180
Microbalance --- for measuring particle mass
[NASA-CASE-MSC-11242] c 35 N78-17358

MICROBALLOONS
Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442

MICROBIOLOGY
Variable angle tube holder
[NASA-CASE-LAR-10507-1] c 11 N72-25284
Apparatus for microbiological sampling --- including automatic swabbing
[NASA-CASE-LAR-11069-1] c 35 N75-12272
Automatic inoculating apparatus --- includes movable carraige, drive motor, and swabbing motor
[NASA-CASE-LAR-11074-1] c 51 N75-13502
Automatic microbial transfer device
[NASA-CASE-LAR-11354-1] c 35 N75-27330
Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22794
Electrochemical detection device --- for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073
Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698
Flow through bacteria detection system
[NASA-CASE-LAR-12871-1] c 35 N85-29218

MICROCHANNELS
Low intensity X-ray and gamma-ray spectrometer
[NASA-CASE-GSC-12587-1] c 35 N82-32659

MICROCRACKS
System for detecting substructure microfractures and method therefore
[NASA-CASE-NPO-14192-1] c 39 N80-10507
Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996

MICROELECTRONICS
Apparatus and method for separating a semiconductor wafer Patent
[NASA-CASE-ERC-10138] c 26 N71-14354
Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234
Microelectronic module package Patent
[NASA-CASE-XMS-02182] c 10 N71-28783
Method of coating through-holes Patent
[NASA-CASE-XMF-05999] c 15 N71-29032
Microcircuit negative cutter
[NASA-CASE-XLA-09843] c 15 N72-27485
Screened circuit capacitors
[NASA-CASE-LAR-10294-1] c 26 N72-28762
Active tuned circuit
[NASA-CASE-GSC-11340-1] c 10 N72-33230
Automatic visual inspection system for microelectronics
[NASA-CASE-NPO-13282] c 38 N78-17396
Method and apparatus for fabricating improved solar cell modules
[NASA-CASE-NPO-14416-1] c 44 N81-14389
Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-15670-1] c 33 N82-33634
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-256704-1] c 33 N84-22884

MICROFIBERS
Small conductive particle sensor --- microfiber size determination
[NASA-CASE-LAR-12552-1] c 35 N82-11431

MICROFILMS
Apparatus for inspecting microfilm Patent
[NASA-CASE-MFS-20240] c 14 N71-26788
MICROINSTRUMENTATION
Apparatus for handling micron size range particulate material
[NASA-CASE-NPO-10151] c 37 N78-17386
MICROMETEORITES
Method of and device for determining the characteristics and flux distribution of micrometeorites --- scanning puncture holes in sheet material with photoelectric cell
[NASA-CASE-NPO-12127-1] c 91 N74-13130
Micrometeoroid velocity and trajectory analyzer
[NASA-CASE-GSC-11892-1] c 35 N76-15433
MICROMETEOROIDS
Micrometeoroid velocity measuring device Patent
[NASA-CASE-XLA-00495] c 14 N70-41332
Force transducer Patent
[NASA-CASE-XAC-01101] c 14 N70-41957
Pressurized cell micrometeoroid detector Patent
[NASA-CASE-XLA-00936] c 14 N71-14996
Detector panels-micrometeoroid impact Patent
[NASA-CASE-XLA-05906] c 31 N71-16221
Rotary bead dropper and selector for testing micrometeorite detectors Patent
[NASA-CASE-XGS-03304] c 09 N71-22988
Micrometeoroid penetration measuring device Patent
[NASA-CASE-XLA-00941] c 14 N71-23240
Fabric for micrometeoroid protection garment Patent
[NASA-CASE-MSC-12109] c 18 N71-26285
Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477
Meteoroid detector
[NASA-CASE-LAR-10483-1] c 14 N73-32327
Deployable pressurized cell structure for a micrometeoroid detector
[NASA-CASE-LAR-10295-1] c 35 N74-21062
Semiconductor projectile impact detector
[NASA-CASE-MFS-23008-1] c 35 N78-18390
MICROMETERS
Apparatus for handling micron size range particulate material
[NASA-CASE-NPO-10151] c 37 N78-17386
MICROMINIATURIZATION
Compensating radiometer
[NASA-CASE-XLA-04556] c 14 N69-27484
MICROORGANISMS
Bacteriostatic conformal coating and methods of application Patent
[NASA-CASE-GSC-10007] c 18 N71-16046
Vacuum probe surface sampler
[NASA-CASE-LAR-10623-1] c 14 N73-30395
Measurement of gas production of microorganisms --- using pressure sensors
[NASA-CASE-LAR-11326-1] c 35 N75-33368
Biocontamination and particulate detection system
[NASA-CASE-NPO-13953-1] c 35 N79-28527
Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698
Apparatus and process for microbial detection and enumeration
[NASA-CASE-LAR-12709-1] c 35 N82-28604
Flow through bacteria detection system
[NASA-CASE-LAR-12871-1] c 35 N85-29218
Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227
MICROPARTICLES
Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N69-39936
Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] c 37 N84-16561
MICROPHONES
Audio signal processor Patent
[NASA-CASE-MSC-12223-1] c 07 N71-26181
Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234
Wind tunnel microphone structure Patent
[NASA-CASE-XNP-00250] c 11 N71-28779
High-temperature microphone system --- for measuring pressure fluctuations in gases at high temperature
[NASA-CASE-LAR-12375-1] c 32 N79-24203
Adapter for mounting a microphone flush with the external surface of the skin of a pressurized aircraft
[NASA-CASE-FRC-11072-1] c 05 N83-27975
Carbon granule probe microphone for leak detection --- recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597
MICROPROCESSORS
Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411
Automatic multi-banking of memory for microprocessors
[NASA-CASE-NPO-15295-1] c 60 N85-21992
MICROSCOPES
Absolute focus lock for microscopes
[NASA-CASE-LAR-10184] c 14 N72-22445
Hand-held photomicroscope
[NASA-CASE-ARC-10468-1] c 14 N73-33361
Method of examining microcircuit patterns
[NASA-CASE-NPO-16299-1] c 33 N85-20250
MICROSTRIP TRANSMISSION LINES
Thin conformal antenna array for microwave power conversions
[NASA-CASE-NPO-13886-1] c 32 N78-24391
Multiple band circularly polarized microstrip antenna
[NASA-CASE-MSC-18334-1] c 32 N80-32604
Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MSC-18606-1] c 32 N82-11336
MICROSTRUCTURE
Method of producing refractory composites containing tantalum carbide, hafnium carbide, and hafnium boride Patent
[NASA-CASE-XLE-03940] c 18 N71-26153
Refractory metal base alloy composites
[NASA-CASE-XLE-03940-2] c 17 N72-28536
Diffusion welding --- heat treatment of nickel alloys following single step vacuum welding process
[NASA-CASE-LEW-11388-2] c 37 N74-21055
Method of determining bond quality of power transistors attached to substrates --- X ray inspection of junction microstructure
[NASA-CASE-MFS-21931-1] c 37 N75-26372
Preparation of monotectic alloys having a controlled microstructure by directional solidification under dopant-induced interface breakdown
[NASA-CASE-MFS-23816-1] c 26 N80-23419
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N86-20587
MICROTHRUST
Annular slit colloid thrustor Patent
[NASA-CASE-GSC-10709-1] c 28 N71-25213
Heated porous plug microthrustor
[NASA-CASE-GSC-10640-1] c 28 N72-18766
MICROWAVE AMPLIFIERS
Temperature-compensating means for cavity resonator of amplifier Patent
[NASA-CASE-XNP-00449] c 14 N70-35220
Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350
MICROWAVE ANTENNAS
Microwave power receiving antenna Patent
[NASA-CASE-MFS-20333] c 09 N71-13486
Low noise single aperture multimode monopulse antenna feed system Patent
[NASA-CASE-XNP-01735] c 07 N71-22750
Omnidirectional microwave spacecraft antenna Patent
[NASA-CASE-XLA-03114] c 09 N71-22888
Validation device for spacecraft checkout equipment Patent
[NASA-CASE-XKS-10543] c 07 N71-26292
Multi-purpose antenna employing dish reflector with plural coaxial horn feeds
[NASA-CASE-NPO-11264] c 07 N72-25174
Omnidirectional slot antenna for mounting on cylindrical space vehicle
[NASA-CASE-LAR-10163-1] c 09 N72-25247
Multiple reflection conical microwave antenna
[NASA-CASE-NPO-11661] c 07 N73-14130
Thin conformal antenna array for microwave power conversions
[NASA-CASE-NPO-13886-1] c 32 N78-24391
Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MSC-18606-1] c 32 N82-11336
MICROWAVE CIRCUITS
Quasi-optical microwave component Patent
[NASA-CASE-ERC-10011] c 07 N71-29065
Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348
Laser activated MTOS microwave device
[NASA-CASE-NPO-16112-1] c 33 N86-19516
MICROWAVE COUPLING
Indexing microwave switch Patent
[NASA-CASE-XNP-06507] c 09 N71-23548
Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143
MICROWAVE EQUIPMENT
Array phasing device Patent
[NASA-CASE-ERC-10046] c 10 N71-18722
Broadband microwave waveguide window Patent
[NASA-CASE-XNP-08880] c 09 N71-24808
Dual frequency microwave reflex feed
[NASA-CASE-NPO-13091-1] c 09 N73-12214
Resonant waveguide stark cell --- using microwave spectrometers
[NASA-CASE-LAR-11352-1] c 33 N75-26245
Refrigerated coaxial coupling --- for microwave equipment
[NASA-CASE-NPO-13504-1] c 33 N75-30430
Microwave dichroic plate
[NASA-CASE-GSC-12171-1] c 33 N79-28416
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
MICROWAVE FILTERS
High power microwave power divider Patent
[NASA-CASE-NPO-11031] c 07 N71-33606
High-Q bandpass resonators utilizing bandstop resonator pairs
[NASA-CASE-GSC-10990-1] c 09 N73-26195
MICROWAVE FREQUENCIES
Varactor high level mixer
[NASA-CASE-XGS-02171] c 09 N69-24324
Voltage tunable Gunn-type microwave generator Patent
[NASA-CASE-XER-07894] c 09 N71-18721
Composite antenna feed
[NASA-CASE-GSC-11046-1] c 07 N73-28013
MICROWAVE OSCILLATORS
Magnetically actuated tuning method for Gunn oscillators
[NASA-CASE-NPO-12106] c 09 N73-15235
Electron beam controller --- using magnetic field to refocus spent electron beam in microwave oscillator tube
[NASA-CASE-LEW-11617-1] c 33 N74-10195
MICROWAVE RADIOMETERS
Method and means for providing an absolute power measurement capability Patent
[NASA-CASE-ERC-11020] c 14 N71-26774
Electromagnetic power absorber
[NASA-CASE-NPO-13830-1] c 32 N80-14281
Microwave limb sounder --- measuring trace gases in the upper atmosphere
[NASA-CASE-NPO-14544-1] c 46 N82-12685
CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443
MICROWAVE REFLECTOMETERS
Reflectometer for receiver input impedance match measurement Patent
[NASA-CASE-XNP-10843] c 07 N71-11267
Microwave flaw detector Patent
[NASA-CASE-ARC-10009-1] c 15 N71-17822
MICROWAVE RESONANCE
Dual resonant cavity absorption cell Patent
[NASA-CASE-LAR-10305] c 14 N71-26137
MICROWAVE SWITCHING
Gyrator type circuit Patent
[NASA-CASE-XAC-10608-1] c 09 N71-12517
Microwave switching power divider --- antenna feeds
[NASA-CASE-GSC-12420-1] c 33 N82-16340
MICROWAVE TRANSMISSION
Frequency translating phase conjugation circuit for active retrodirective antenna array --- microwave transmission
[NASA-CASE-NPO-14536-1] c 32 N81-14185
Waveguide cooling system
[NASA-CASE-NPO-15401-1] c 32 N83-27085
MICROWAVE TUBES
Electrostatic collector for charged particles
[NASA-CASE-LEW-11192-1] c 09 N73-13208
MICROWAVES
Parametric microwave noise generator Patent
[NASA-CASE-XER-11019] c 09 N71-23598
Method and apparatus for optical modulating a light signal Patent
[NASA-CASE-GSC-10216-1] c 23 N71-26722
Waveguide mixer
[NASA-CASE-ERC-10179] c 07 N72-20141
Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver
[NASA-CASE-MFS-21470-1] c 44 N74-19870
Wide power range microwave feedback controller
[NASA-CASE-GSC-12146-1] c 33 N78-32340
Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287
Doppler radar having phase modulation of both transmitted and reflected return signals
[NASA-CASE-MSC-18675-1] c 32 N84-22820
Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N85-20248
Beam forming network
[NASA-CASE-NPO-15743-1] c 32 N85-29118
MIDAIR COLLISIONS
Apparatus for aiding a pilot in avoiding a midair collision between aircraft
[NASA-CASE-LAR-10717-1] c 21 N73-30641

MILLIMETER WAVES
Millimeter wave antenna system Patent Application
[NASA-CASE-GSC-10949-1] c 07 N71-28965
Millimeter wave pumped parametric amplifier
[NASA-CASE-GSC-11617-1] c 33 N74-32660
MILLING (MACHINING)
Apparatus for machining geometric cones Patent
[NASA-CASE-XMS-04292] c 15 N71-22722
Method and tool for machining a transverse slot about a bore
[NASA-CASE-LAR-11855-1] c 37 N81-14319
Method for milling and drilling glass
[NASA-CASE-GSC-12636-1] c 31 N83-27058
MILLING MACHINES
Electro-optical alignment control system Patent
[NASA-CASE-XMF-00908] c 14 N70-40238
Portable milling tool Patent
[NASA-CASE-XMF-03511] c 15 N71-22799
Grinding arrangement for ball nose milling cutters
[NASA-CASE-LAR-10450-1] c 37 N74-27905
MINERAL DEPOSITS
Underground mineral extraction
[NASA-CASE-NPO-14140-1] c 31 N78-24387
Underground mineral extraction
[NASA-CASE-NPO-14140-1] c 43 N81-26509
MINERAL METABOLISM
Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MSC-14276-1] c 52 N77-14737
MINIATURE ELECTRONIC EQUIPMENT
Miniature stress transducer Patent
[NASA-CASE-XNP-02983] c 14 N71-21091
Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597
Solid state television camera system Patent
[NASA-CASE-XMF-06092] c 07 N71-24612
Miniature ingestible telemeter devices to measure deep-body temperature
[NASA-CASE-ARC-10583-1] c 52 N76-29894
Miniature biaxial strain transducer
[NASA-CASE-LAR-11648-1] c 35 N77-14407
Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295
MINIATURIZATION
Miniature vibration isolator Patent
[NASA-CASE-XLA-01019] c 15 N70-40156
Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
Miniature carbon dioxide sensor and methods
[NASA-CASE-MSC-13332-1] c 14 N72-21408
Magnetometer with a miniature transducer and automatic scanning
[NASA-CASE-LAR-11617-2] c 35 N78-32397
Miniature cyclotron resonance ion source using small permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27163
Thumb actuated two axis controller
[NASA-CASE-ARC-11372-1] c 08 N83-12098
MINING
Underground mineral extraction
[NASA-CASE-NPO-14140-1] c 31 N78-24387
Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423
Coal-shale interface detector
[NASA-CASE-MFS-23720-1] c 43 N80-23711
Underground mineral extraction
[NASA-CASE-NPO-14140-1] c 43 N81-26509
Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 35 N84-33768
Shuttle car loading system
[NASA-CASE-NPO-15949-1] c 85 N85-34722
MINORITY CARRIERS
Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888
MIRRORS
Pneumatic mirror support system
[NASA-CASE-XLA-03271] c 11 N69-24321
Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27461
Interferometer servo system Patent
[NASA-CASE-NPO-10300] c 14 N71-17662
Method and apparatus for stabilizing a gaseous optical maser Patent
[NASA-CASE-XGS-03644] c 16 N71-18614
Optical mirror apparatus Patent
[NASA-CASE-ERC-10001] c 23 N71-24868
Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-08907] c 23 N71-29123
Optical range finder having nonoverlapping complete images
[NASA-CASE-MSC-12105-1] c 14 N72-21409
Optical system support apparatus
[NASA-CASE-XER-07896-2] c 23 N72-22673
Strain gauge ambiguity sensor for segmented mirror active optical system
[NASA-CASE-MFS-20506-1] c 35 N75-12273
Method for manufacturing mirrors in zero gravity environment
[NASA-CASE-MSC-12611-1] c 12 N76-15189
Method of and means for testing a glancing-incidence mirror system of an X-ray telescope
[NASA-CASE-MFS-22409-2] c 74 N78-15880
Interferometer mirror tilt correcting system
[NASA-CASE-NPO-13687-1] c 35 N78-18391
Anastigmatic three-mirror telescope
[NASA-CASE-MFS-23675-1] c 89 N79-10969
X-ray imaging mirror system and method of producing the same
[NASA-CASE-NPO-15828-1] c 74 N83-30222
Dual aperture multispectral Schmidt objective
[NASA-CASE-GSC-12756-1] c 74 N84-23248
Wide-angle flat field telescope
[NASA-CASE-GSC-12825-1] c 74 N85-20868
Spectral slicing X-ray telescope with variable magnification
[NASA-CASE-MFS-25942-1] c 74 N86-20124
MIS (SEMICONDUCTORS)
Photocapacitive image converter
[NASA-CASE-LAR-12513-1] c 44 N82-32841
MISSILE CONTROL
Turnstile slot antenna
[NASA-CASE-GSC-11428-1] c 32 N74-20864
MISSILE LAUNCHERS
Missile launch release system Patent
[NASA-CASE-XMF-03198] c 30 N70-40353
Optical monitor panel Patent
[NASA-CASE-XKS-03509] c 14 N71-23175
Controlled release device Patent
[NASA-CASE-XKS-03338] c 15 N71-24043
MISSILE STRUCTURES
Missile rolling tail brake torque system --- simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231
MISSILES
Hypersonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168
Fire protection covering for small diameter missiles
[NASA-CASE-ARC-11104-1] c 15 N79-26100
MITOSIS
Process for control of cell division
[NASA-CASE-LAR-10773-3] c 51 N77-25769
MIXERS
Variable mixer propulsion cycle
[NASA-CASE-LEW-12917-1] c 07 N78-18067
MIXING CIRCUITS
Varactor high level mixer
[NASA-CASE-XGS-02171] c 09 N69-24324
Waveguide mixer
[NASA-CASE-ERC-10179] c 07 N72-20141
MIXTURES
Low gravity phase separator
[NASA-CASE-MSC-14773-1] c 35 N78-12390
Process for producing tris s(n-methylamino) methylsilane
[NASA-CASE-MFS-25721-1] c 25 N85-21280
High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1-SB] c 24 N85-30033
MOBILITY
Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HQN-10069] c 33 N75-27251
Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217
Mobile remote manipulator vehicle system
[NASA-CASE-LAR-13393-1] c 54 N86-21147
MODE TRANSFORMERS
Transient-compensated SCR inverter
[NASA-CASE-XLA-08507] c 09 N69-39984
Dual waveguide mode source having control means for adjusting the relative amplitude of two modes Patent
[NASA-CASE-XNP-03134] c 07 N71-10676
Direct current transformer
[NASA-CASE-MFS-23659-1] c 33 N79-17133
MODEMS
Charge storage diode modulators and demodulators
[NASA-CASE-NPO-10189-1] c 33 N77-21314
MODES (STANDING WAVES)
Acoustic levitation methods and apparatus
[NASA-CASE-NPO-15562-1] c 71 N82-27086
MODULATION
Demodulator for carrier transducers
[NASA-CASE-NUC-10107-1] c 33 N74-17930
Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381
Air modulation apparatus
[NASA-CASE-LEW-13524-1] c 07 N84-33410
Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374
MODULATORS
Retrodirective optical system
[NASA-CASE-XGS-04480] c 16 N69-27491
Retrodirective modulator Patent
[NASA-CASE-GSC-10062] c 14 N71-15605
Laser calibrator Patent
[NASA-CASE-XLA-03410] c 16 N71-25914
Full wave modulator-demodulator amplifier apparatus --- for generating rectified output signal
[NASA-CASE-FRC-10072-1] c 33 N74-14939
Charge storage diode modulators and demodulators
[NASA-CASE-NPO-10189-1] c 33 N77-21314
Coherently pulsed laser source
[NASA-CASE-NPO-15111-1] c 36 N82-29589
Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546
Solar energy modulator
[NASA-CASE-NPO-15388-1] c 44 N84-28203
MODULES
Modular encoder
[NASA-CASE-NPO-10629] c 08 N72-18184
Solar cell module assembly jig
[NASA-CASE-XGS-00829-1] c 44 N79-19447
Method of fabricating a photovoltaic module of a substantially transparent construction
[NASA-CASE-NPO-14303-1] c 44 N80-18550
MODULUS OF ELASTICITY
Glass compositions with a high modulus of elasticity --- nontoxic glass fibers
[NASA-CASE-HQN-10274-1] c 27 N82-29451
High modulus invert analog glass compositions containing beryllia
[NASA-CASE-HQN-10931-2] c 27 N82-29452
Non-toxic invert analog glass compositions of high modulus
[NASA-CASE-HQN-10328-2] c 27 N82-29454
High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455
High resistance and raised modulus carbon fibers
[NASA-TM-76884] c 24 N85-25436
MOISTURE
Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080
Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212
MOISTURE CONTENT
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484
Moisture content and gas sampling device
[NASA-CASE-MSC-18866-1] c 35 N85-29213
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
MOISTURE METERS
Method of evaluating moisture barrier properties of encapsulating materials Patent
[NASA-CASE-NPO-10051] c 18 N71-24934
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
MOISTURE RESISTANCE
Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] c 27 N85-34282
MOLDING MATERIALS
Method for molding compounds Patent
[NASA-CASE-XLA-01091] c 15 N71-10672
Method of making a molded connector Patent
[NASA-CASE-XMF-03498] c 15 N71-15986
Hydraulic casting of liquid polymers Patent
[NASA-CASE-XNP-07659] c 06 N71-22975
Hydroforming techniques using epoxy molds Patent
[NASA-CASE-XLE-05641-1] c 15 N71-26346
Molding process for imidazopyrrolone polymers
[NASA-CASE-LAR-10547-1] c 31 N74-13177
Evacuated displacement compression molding
[NASA-CASE-LAR-10782-1] c 31 N74-14133
Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275
Method of making a rocket nozzle
[NASA-CASE-XMF-06884-1] c 20 N79-21123
MOLDS
Apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917-2] c 15 N71-24836
Technique of duplicating fragile core
[NASA-CASE-XLA-07829] c 15 N72-16329
Evacuated displacement compression molding
[NASA-CASE-LAR-10782-1] c 31 N74-14133

Molding apparatus --- for thermosetting plastic compositions
[NASA-CASE-LAR-10489-2] c 31 N74-32920
Evacuated, displacement compression mold --- of tubular bodies from thermosetting plastics
[NASA-CASE-LAR-10782-2] c 31 N75-13111
Method of making an apertured casting --- using duplicate mold
[NASA-CASE-LEW-11169-1] c 37 N76-23570

MOLECULAR BEAMS
Molecular beam velocity selector Patent
[NASA-CASE-XLE-01533] c 11 N71-10777
Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c 20 N74-31269

MOLECULAR CHAINS
Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104

MOLECULAR GASES
Compact hydrogenator
[NASA-CASE-NPO-11682-1] c 35 N74-15127

MOLECULAR PUMPS
Omni-directional anisotropic molecular trap Patent
[NASA-CASE-XGS-00783] c 30 N71-17788
Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294

MOLECULAR RELAXATION
Double-beam optical method and apparatus for measuring thermal diffusivity and other molecular dynamic processes in utilizing the transient thermal lens effect
[NASA-CASE-NPO-14657-1] c 74 N81-17887

MOLECULAR ROTATION
Diatomic infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426

MOLECULAR SPECTRA
Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] c 35 N84-34705

MOLECULAR SPECTROSCOPY
Dual resonant cavity absorption cell Patent
[NASA-CASE-LAR-10305] c 14 N71-26137

MOLECULAR WEIGHT
Structural pressure sensitive silicone adhesives
[NASA-CASE-LAR-13270-1] c 27 N84-32532
Process of end-capping a polyimide system
[NASA-CASE-LAR-13135-1] c 27 N86-19456

MOLECULES
Stabilization of He2(a 3 Sigma u+ molecules in liquid helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13826

MOLTEN SALT ELECTROLYTES
Combined electrolysis device and fuel cell and method of operation Patent
[NASA-CASE-XLE-01645] c 03 N71-20904
Zinc-halide battery with molten electrolyte
[NASA-CASE-NPO-11961-1] c 44 N76-18643

MOLTEN SALTS
Molten salt pyrolysis of latex --- synthetic hydrocarbon fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261

MOLYBDENUM
Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-2] c 35 N79-14346

MOLYBDENUM CARBIDES
Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00302] c 15 N71-16077

MOLYBDENUM DISULFIDES
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103

MOMENTS OF INERTIA
Moment of inertia test fixture Patent
[NASA-CASE-XGS-01023] c 14 N71-22992

MOMENTUM
Attitude control and damping system for spacecraft Patent
[NASA-CASE-XLA-02551] c 21 N71-21708
Particle detection apparatus including a ballistic pendulum Patent
[NASA-CASE-XMS-04201] c 14 N71-22990

MONATOMIC GASES
Atomic hydrogen storage --- cryotrapping and magnetic field strength
[NASA-CASE-LEW-12081-2] c 28 N80-20402

MONITORS
Leak detector Patent
[NASA-CASE-LAR-10323-1] c 12 N71-17573
Reduced bandwidth video communication system utilizing sampling techniques Patent
[NASA-CASE-XNP-02791] c 07 N71-23026
Optical monitor panel Patent
[NASA-CASE-XKS-03509] c 14 N71-23175
Peak polarity selector Patent
[NASA-CASE-FRC-10010] c 10 N71-24862
Ripple indicator
[NASA-CASE-KSC-10162] c 09 N72-11225
Droplet monitoring probe
[NASA-CASE-NPO-10985] c 14 N73-20478
Automatic lightning detection and photographic system
[NASA-CASE-KSC-10728-1] c 14 N73-32319
Method and apparatus for optically monitoring the angular position of a rotating mirror
[NASA-CASE-GSC-11353-1] c 74 N74-21304
Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315
Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18193
Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698
Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272
Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139
Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117
Laser Schlieren crystal monitor
[NASA-CASE-MFS-28060-1] c 76 N85-30932

MONOCHROMATIC RADIATION
Continuous plasma light source
[NASA-CASE-XNP-04167-2] c 25 N72-24753
Laser extensometer
[NASA-CASE-MFS-19259-1] c 36 N78-14380
Multiprism collimator
[NASA-CASE-GSC-12608-1] c 74 N83-10900

MONOCHROMATORS
Analytical photoionization mass spectrometer with an argon gas filter between the light source and monochrometer Patent
[NASA-CASE-LAR-10180-1] c 06 N71-13461
Color television system
[NASA-CASE-MSC-12146-1] c 07 N72-17109

MONOMERS
Pressure transducer --- using a monomeric charge transfer complex sensor
[NASA-CASE-NPO-11150] c 35 N78-17359
Bifunctional monomers having terminal oxime and cyano or amidine groups
[NASA-CASE-ARC-11253-3] c 27 N81-24256
Cross-linked polyvinyl alcohol and method of making same
[NASA-CASE-LEW-13101-2] c 23 N81-29160
Preparation of crosslinked 1,2,4-oxadiazole polymer
[NASA-CASE-ARC-11253-2] c 27 N82-24338
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-1] c 27 N84-27885
Process for preparing highly optically transparent-colorless armomatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N85-21360

MONOPOLE ANTENNAS
Antenna system using parasitic elements and two driven elements at 90 deg angle fed 180 deg out of phase Patent
[NASA-CASE-XLA-00414] c 07 N70-38200
Flexible blade antenna Patent
[NASA-CASE-MSC-12101] c 09 N71-18720

MONOPROPELLANTS
Ignition system for monopropellant combustion devices Patent
[NASA-CASE-XNP-00249] c 28 N70-38249
Ignition means for monopropellant Patent
[NASA-CASE-XNP-00876] c 28 N70-41311
Low thrust monopropellant engine
[NASA-CASE-GSC-12194-2] c 20 N82-18314

MONOPULSE ANTENNAS
Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460
Low noise single aperture multimode monopulse antenna feed system Patent
[NASA-CASE-XNP-01735] c 07 N71-22750
Electronic scanning of 2-channel monopulse patterns Patent
[NASA-CASE-GSC-10299-1] c 09 N71-24804
Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472

MONOPULSE RADAR
Polarization diversity monopulse tracking receiver Patent
[NASA-CASE-XGS-03501] c 09 N71-20864
Monopulse tracking system Patent
[NASA-CASE-XGS-01155] c 10 N71-21483

MONOSTABLE MULTIVIBRATORS
Resettable monostable pulse generator Patent
[NASA-CASE-GSC-11139] c 09 N71-27016
Monostable multivibrator with complementary NOR gates Patent
[NASA-CASE-MSC-13492-1] c 10 N71-28860

MORPHOLOGY
Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800

MOSSBAUER EFFECT
Mossbauer spectrometer radiation detector
[NASA-CASE-LAR-11155-1] c 35 N74-15091
Method and apparatus for vibration analysis utilizing the Mossbauer effect
[NASA-CASE-XMF-05882] c 35 N75-27329

MOTION
Quick attach mechanism Patent
[NASA-CASE-XFR-05421] c 15 N71-22994

MOTION PICTURES
Real time moving scene holographic camera system
[NASA-CASE-MFS-21087-1] c 35 N74-17153
Real time, large volume, moving scene holographic camera system
[NASA-CASE-MFS-22537-1] c 35 N75-27328

MOTION SIMULATORS
Kinesthetic control simulator --- for pilot training
[NASA-CASE-LAR-10276-1] c 09 N75-15662
Helmet weight simulator
[NASA-CASE-LAR-12320-1] c 54 N81-27806

MOTION STABILITY
Hydraulic drive mechanism Patent
[NASA-CASE-XMS-03252] c 15 N71-10658

MOTORS
Nonmagnetic thermal motor for a magnetometer
[NASA-CASE-XAR-03786] c 09 N69-21313
System for maintaining a motor at a predetermined speed utilizing digital feedback means Patent
[NASA-CASE-XMF-06892] c 09 N71-24805
Mechanical thermal motor
[NASA-CASE-MFS-23062-1] c 37 N77-12402
Redundant motor drive system
[NASA-CASE-MFS-23777-1] c 37 N80-32716

MOUNTING
Thermobulb mount Patent
[NASA-CASE-NPO-10158] c 33 N71-16356
Mount for thermal control system Patent
[NASA-CASE-NPO-10138] c 33 N71-16357
Clamping assembly for inertial components Patent
[NASA-CASE-XMS-02184] c 15 N71-20813
Circuit board package with wedge shaped covers
[NASA-CASE-MFS-21919-1] c 10 N73-25243
Lubricated journal bearing
[NASA-CASE-LEW-11076-3] c 37 N75-30562
Translatory shock absorber for attitude sensors
[NASA-CASE-MFS-22905-1] c 19 N76-22284
Deformable bearing seat
[NASA-CASE-LEW-12527-1] c 37 N77-32500
Impact absorbing blade mounts for variable pitch blades
[NASA-CASE-LEW-12313-1] c 37 N78-10468
Attaching of strain gages to substrates
[NASA-CASE-FRC-10093-1] c 35 N80-20560
Adapter for mounting a microphone flush with the external surface of the skin of a pressurized aircraft
[NASA-CASE-FRC-11072-1] c 05 N83-27975
Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443
Clamp-mount device
[NASA-CASE-MFS-25510-1] c 37 N84-16560
Model mount system for testing flutter
[NASA-CASE-LAR-12950-1] c 09 N84-34448

MOVING TARGET INDICATORS
Automatic vehicle location system
[NASA-CASE-NPO-11850-1] c 32 N74-12912
Interferometric locating system
[NASA-CASE-NPO-14173-1] c 04 N80-32359

MULTIBEAM ANTENNAS
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918

MULTICHANNEL COMMUNICATION
Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420
Phase quadrature-plural channel data transmission system Patent
[NASA-CASE-XAC-06302] c 08 N71-19763
Receiver with an improved phase lock loop in a multichannel telemetry system with suppressed carrier
[NASA-CASE-NPO-11593-1] c 07 N73-28012
Miniature multichannel biotelemeter system
[NASA-CASE-NPO-13065-1] c 52 N74-26625
Medical subject monitoring systems --- multichannel monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757

Multi-channel rotating optical interface for data transmission
[NASA-CASE-NPO-14066-1] c 74 N79-34011
MULTILAYER INSULATION
Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
Panelized high performance multilayer insulation Patent
[NASA-CASE-MFS-14023] c 33 N71-25351
Electrical apparatus for detection of thermal decomposition of insulation Patent
[NASA-CASE-XMF-03968] c 14 N71-27186
Method of making an insulation foil
[NASA-CASE-LEW-11484-1] c 24 N75-33181
Multiwall thermal protection system
[NASA-CASE-LAR-12620-1] c 24 N82-32417
MULTIPACTOR DISCHARGES
High power RF coaxial switch
[NASA-CASE-NPO-14229-1] c 33 N80-18285
MULTIPATH TRANSMISSION
Anti-multipath digital signal detector
[NASA-CASE-LAR-11827-1] c 32 N77-10392
Large volume multiple-path nuclear pumped laser
[NASA-CASE-LAR-12592-1] c 36 N82-13415
MULTIPLE BEAM INTERVAL SCANNERS
Tracking antenna system Patent
[NASA-CASE-GSC-10553-1] c 07 N71-19854
Variable beamwidth antenna --- with multiple beam, variable feed system
[NASA-CASE-GSC-11862-1] c 32 N76-18295
MULTIPLE DOCKING ADAPTERS
Expanding center probe and drogue Patent
[NASA-CASE-XMS-03613] c 31 N71-16346
MULTIPLE OUTPUT PROGRAMS
Multi-computer multiple data path hardware exchange system
[NASA-CASE-NPO-13422-1] c 60 N76-14818
MULTIPLEXING
Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978
Elimination of frequency shift in a multiplex communication system Patent
[NASA-CASE-XNP-01306] c 07 N71-20814
Satellite interlace synchronization system
[NASA-CASE-GSC-10390-1] c 07 N72-11149
Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171
Data multiplexer using tree switching configuration
[NASA-CASE-NPO-11333] c 08 N72-22162
Television multiplexing system
[NASA-CASE-KSC-10654-1] c 07 N73-30115
Asynchronous, multiplexing, single line transmission and recovery data system --- for satellite use
[NASA-CASE-NPO-13321-1] c 32 N75-26195
Correlation type phase detector --- with time correlation integrator for frequency multiplexed signals
[NASA-CASE-GSC-11744-1] c 33 N75-26243
System for producing chroma signals
[NASA-CASE-MSC-14683-1] c 74 N77-18893
Fiber optic multiplex optical transmission system
[NASA-CASE-KSC-11047-1] c 74 N78-14889
System for a displaying at a remote station data generated at a central station and for powering the remote station from the central station
[NASA-CASE-GSC-12411-1] c 33 N81-14221
Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-25278
High-speed multiplexing of keyboard data inputs
[NASA-CASE-NPO-14554-1] c 60 N81-27814
Multi-channel temperature measurement amplification system --- solar heating systems
[NASA-CASE-MFS-23775-1] c 44 N82-16474
Apparatus and method for tracking the fundamental frequency of an analog input signal
[NASA-CASE-ARC-11367-1] c 33 N83-21238
Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590
Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] c 35 N84-34705
LDV multiplexer interface
[NASA-CASE-ARC-11536-1] c 33 N85-30202
MULTIPLIERS
Pulse-width modulation multiplier Patent
[NASA-CASE-XER-09213] c 07 N71-12390
Variable pulse width multiplier Patent
[NASA-CASE-XLA-02850] c 09 N71-20447
Capacitance multiplier and filter synthesizing network
[NASA-CASE-NPO-11948-1] c 33 N74-32712
Regulated high efficiency, lightweight capacitor-diode multiplier dc to dc converter
[NASA-CASE-LEW-12791-1] c 33 N78-32341
MULTISPECTRAL BAND SCANNERS
Optical process for producing classification maps from multispectral data
[NASA-CASE-MSC-14472-1] c 43 N77-10584
Interactive color display for multispectral imagery using correlation clustering
[NASA-CASE-MSC-16253-1] c 32 N79-20297
Multispectral scanner optical system
[NASA-CASE-MSC-18255-1] c 74 N80-33210
Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin
[NASA-CASE-NPO-14402-1] c 52 N81-27783
Dual aperture multispectral Schmidt objective
[NASA-CASE-GSC-12756-1] c 74 N84-23248
MULTISPECTRAL LINEAR ARRAYS
Time delay and integration detectors using charge transfer devices
[NASA-CASE-GSC-12324-1] c 33 N81-33403
Multispectral linear array multiband selection device
[NASA-CASE-GSC-12911-1] c 35 N84-25016
MULTISPECTRAL PHOTOGRAPHY
Multispectral imaging system
[NASA-CASE-MSC-12404-1] c 23 N73-13661
Optical process for producing classification maps from multispectral data
[NASA-CASE-MSC-14472-1] c 43 N77-10584
Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288
Interactive color display for multispectral imagery using correlation clustering
[NASA-CASE-MSC-16253-1] c 32 N79-20297
MULTISPECTRAL TRACKING TELESCOPES
Multispectral glancing incidence X-ray telescope
[NASA-CASE-MFS-28013-1] c 89 N86-22459
MULTISTAGE ROCKET VEHICLES
Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176
Steerable solid propellant rocket motor Patent
[NASA-CASE-XNP-00234] c 28 N70-38645
Multi-mission module Patent
[NASA-CASE-XMF-01543] c 31 N71-17730
Single action separation mechanism Patent
[NASA-CASE-XLA-00188] c 15 N71-22874
Lateral displacement system for separated rocket stages Patent
[NASA-CASE-XLA-04804] c 31 N71-23008
Frangible link
[NASA-CASE-MSC-11849-1] c 15 N72-22488
Three stage rocket vehicle with parallel staging
[NASA-CASE-MFS-25878-1] c 18 N84-27787
MULTIVIBRATORS
Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00381] c 09 N70-34819
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00458] c 09 N70-38604
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00131] c 09 N70-38995
High efficiency multivibrator Patent
[NASA-CASE-XAC-00942] c 10 N71-16042
A dc-coupled noninverting one-shot Patent
[NASA-CASE-XNP-09450] c 10 N71-18723
Multivibrator circuit with means to prevent false triggering from supply voltage fluctuations Patent
[NASA-CASE-ARC-10137-1] c 09 N71-28468
Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570
MUSCLES
Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329
Multifunctional transducer
[NASA-CASE-NPO-14329-1] c 52 N81-20703
MUSCULAR FUNCTION
Miniature muscle displacement transducer
[NASA-CASE-NPO-13519-1] c 33 N76-19338
Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072
MUSCULOSKELETAL SYSTEM
Skeletal stressing method and apparatus Patent
[NASA-CASE-ARC-10100-1] c 05 N71-24738
MYOCARDIUM
Myocardium wall thickness transducer and measuring method
[NASA-CASE-NPO-13644-1] c 52 N76-29895
Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072
MYOPIA
Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-1] c 09 N84-12193

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N-TYPE SEMICONDUCTORS
Complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c 33 N79-12321
NACELLES
Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788
Nacelle afterbody for jet engines Patent
[NASA-CASE-XLA-10450] c 28 N71-21493
Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-2] c 07 N78-18066
Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-3] c 07 N79-14096
Over the wing propeller
[NASA-CASE-LAR-13134-1] c 05 N85-19980
NASA PROGRAMS
Retractable environmental seal
[NASA-CASE-MFS-23646-1] c 37 N79-22474
NAVIGATION
Thumb actuated two axis controller
[NASA-CASE-ARC-11372-1] c 08 N83-12098
NAVIGATION AIDS
Magnetic heading reference
[NASA-CASE-LAR-11387-1] c 04 N76-20114
Ruler for making navigational computations
[NASA-CASE-XNP-01458] c 04 N78-17031
System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075
Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132
Low-frequency radio navigation system
[NASA-CASE-NPO-15264-1] c 04 N84-27713
NAVIGATION INSTRUMENTS
Sun angle calculator
[NASA-CASE-MSC-12617-1] c 35 N76-29552
NAVIGATION SATELLITES
Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c 21 N71-24948
NEAR INFRARED RADIATION
Collimator of multiple plates with axially aligned identical random arrays of apertures
[NASA-CASE-MFS-20546-2] c 14 N73-30389
NEGATIVE FEEDBACK
Complementary regenerative switch Patent
[NASA-CASE-XGS-02751] c 09 N71-23015
Solid-state current transformer
[NASA-CASE-MFS-22560-1] c 33 N77-14335
NEGATIVE IONS
Generation of intense negative ion beams
[NASA-CASE-NPO-16061-1-CU] c 72 N85-29701
NEODYMIUM LASERS
Length controlled stabilized mode-lock ND:YAG laser
[NASA-CASE-GSC-11571-1] c 36 N77-25499
NERVES
Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863
NETWORK SYNTHESIS
Electromagnetic polarization systems and methods Patent
[NASA-CASE-GSC-10021-1] c 09 N71-24595
High speed phase detector Patent
[NASA-CASE-XNP-01306-2] c 09 N71-24596
Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421
NEUROGLIA
Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738
NEUROLOGY
Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863
NEUTRALIZERS
Method and apparatus for neutralizing potentials induced on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c 33 N77-10429
Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039
NEUTRON EMISSION
Deuterium pass through target --- neutron emitting target
[NASA-CASE-LEW-11866-1] c 72 N76-15860
NICKEL
Process for producing dispersion strengthened nickel with aluminum Patent
[NASA-CASE-XLE-06969] c 17 N71-24142
Selective nickel deposition
[NASA-CASE-LEW-10965-1] c 15 N72-25452
Brazing alloy composition
[NASA-CASE-XMF-06053] c 26 N75-27126
Method of making reinforced composite structure
[NASA-CASE-LEW-12619-1] c 24 N77-19171

Directionally solidified eutectic gamma-gamma nickel-base superalloys
[NASA-CASE-LEW-12905-1] c 26 N78-18183
Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734
Metal (2) 4,4',4',4'' phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267

NICKEL ALLOYS
High temperature nickel-base alloy Patent
[NASA-CASE-XLE-00151] c 17 N70-33283
Nickel-base alloy Patent
[NASA-CASE-XLE-00283] c 17 N70-36616
Nickel-base alloy containing Mo-W-Al-Cr- Ta-Zr-C-Nb-B Patent
[NASA-CASE-XLE-02082] c 17 N71-16026
Nickel bas alloy
[NASA-CASE-LEW-10874-1] c 17 N72-22535
Diffusion welding --- heat treatment of nickel alloys following single step vacuum welding process
[NASA-CASE-LEW-11388-2] c 37 N74-21055
Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c 26 N75-29236
Zirconium modified nickel-copper alloy
[NASA-CASE-LEW-12245-1] c 26 N77-20201
Directionally solidified eutectic gamma plus beta nickel-base superalloys
[NASA-CASE-LEW-12906-1] c 26 N77-32279
Nickel base alloy --- for gas turbine engine stator vanes
[NASA-CASE-LEW-12270-1] c 26 N77-32280
Nicral ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505
Improved nickel base coating alloy --- oxidation resistant coatings
[NASA-CASE-LEW-13834-1] c 26 N83-24639

NICKEL CADMIUM BATTERIES
Heat flow calorimeter --- measures output of Ni-Cd batteries
[NASA-CASE-GSC-11434-1] c 34 N74-27859
Method and apparatus for conditioning of nickel-cadmium batteries
[NASA-CASE-MFS-23270-1] c 44 N78-25531

NICKEL COATINGS
Nickel aluminide coated low alloy stainless steel
[NASA-CASE-LEW-11267-1] c 17 N73-32414
Selective coating for solar panels --- using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c 44 N78-19599

NICKEL COMPOUNDS
Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10608
Brazing alloy
[NASA-CASE-XNP-03878] c 26 N75-27127

NICKEL HYDROGEN BATTERIES
Oxygen recombination in individual pressure vessel nickel-hydrogen batteries
[NASA-CASE-LEW-13822-1] c 33 N84-29084

NICKEL PLATE
Plating nickel on aluminum castings Patent
[NASA-CASE-XNP-04148] c 17 N71-24830

NICKEL ZINC BATTERIES
Additive for zinc electrodes --- electric automobiles
[NASA-CASE-LEW-13286-1] c 33 N84-14422

NIOBIUM
Trialkyl-dihalotantalum and niobium compounds Patent
[NASA-CASE-XNP-04023] c 06 N71-28808

NIOBIUM COMPOUNDS
Method of producing high T superconducting NbN films
[NASA-CASE-NPO-16681-1-CU] c 76 N86-21401

NITRAMINE PROPELLANTS
Nitramine propellants --- gun propellant burning rate
[NASA-CASE-NPO-14103-1] c 28 N78-31255

NITRATES
Method of forming dynamic membrane on stainless steel support
[NASA-CASE-MSC-18172-1] c 26 N80-19237

NITRIC OXIDE
Reduction of nitric oxide emissions from a combustor
[NASA-CASE-ARC-10814-2] c 07 N80-26298

NITRIDES
Refractory coatings and method of producing the same
[NASA-CASE-LEW-13169-1] c 26 N82-29415
Method of producing high T superconducting NbN films
[NASA-CASE-NPO-16681-1-CU] c 76 N86-21401

NITRILES
Intumescent paint containing nitrile rubber
[NASA-CASE-ARC-10196-1] c 18 N73-13562
Trimerization of aromatic nitriles
[NASA-CASE-LEW-12053-1] c 27 N78-15276
Process for preparing phthalocyanine polymers
[NASA-CASE-ARC-11511-1] c 23 N84-16259
Process for preparing phthalocyanine polymers
[NASA-CASE-ARC-11511-2] c 27 N86-19461

NITRO COMPOUNDS
Intumescent coatings containing 4,4'-dinitrosulfanilide
[NASA-CASE-ARC-11042-1] c 24 N78-14096
The 1 - (dialkoxyphosphonyl)methyl -2,4- and -2,6- dinitro- and diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-1] c 23 N83-28076

NITROAMINES
Intumescent paints Patent
[NASA-CASE-ARC-10099-1] c 18 N71-15469
Polymeric vehicles as carriers for sulfonic acid salt of nitrosubstituted aromatic amines
[NASA-CASE-ARC-10325] c 06 N72-25147

NITROGEN
III-V photocathode with nitrogen doping for increased quantum efficiency
[NASA-CASE-NPO-12134-1] c 33 N76-31409

NITROGEN COMPOUNDS
Method for preparing addition type polyimide prepregs
[NASA-CASE-LAR-12054-2] c 27 N81-14078

NITROGEN OXIDES
Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c 37 N77-31497
Combuster --- low nitrogen oxide formation
[NASA-CASE-NPO-13958-1] c 25 N79-11151

NITROGEN TETROXIDE
Procedure and apparatus for determination of water in nitrogen tetroxide
[NASA-CASE-NPO-10234] c 06 N72-17094

NITROGUANIDINE
Hydrazinium nitroformate propellant stabilized with nitroguanidine
[NASA-CASE-NPO-12000] c 27 N72-25699

NOBLE METALS
GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150

NODES (STANDING WAVES)
System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516

NOISE GENERATORS
Pseudo-noise test set for communication system evaluation --- test signals
[NASA-CASE-MFS-22671-1] c 35 N75-21582
Method of and means for testing a tape record/playback system
[NASA-CASE-MFS-22671-2] c 35 N77-17426

NOISE METERS
Instrumentation for measurement of aircraft noise and sonic boom
[NASA-CASE-LAR-11173-1] c 35 N75-19614
Differential sound level meter
[NASA-CASE-LAR-12106-1] c 71 N78-14867
Ride quality meter
[NASA-CASE-LAR-12882-1] c 35 N84-12445

NOISE REDUCTION
Jet aircraft configuration Patent
[NASA-CASE-XLA-00087] c 02 N70-33332
Cassegrainian antenna subflector flange for suppressing ground noise Patent
[NASA-CASE-XNP-00683] c 09 N70-35425
Device for suppressing sound and heat produced by high-velocity exhaust jets Patent
[NASA-CASE-XMF-01813] c 28 N70-41582
Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964
Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001
Audio signal processor Patent
[NASA-CASE-MSC-12223-1] c 07 N71-26181
Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266
Method and apparatus for eliminating coherent noise in a coherent energy imaging system without destroying spatial coherence
[NASA-CASE-GSC-11133-1] c 23 N72-11568
Audio system with means for reducing noise effects
[NASA-CASE-NPO-11631] c 10 N73-12244
Gas turbine exhaust nozzle --- for noise reduction
[NASA-CASE-LEW-11569-1] c 07 N74-15453
Totally confined explosive welding --- apparatus to reduce noise level and protect personnel during explosive bonding
[NASA-CASE-LAR-10941-1] c 37 N74-21057
Jet exhaust noise suppressor
[NASA-CASE-LEW-11286-1] c 07 N74-27490
Supersonic fan blading --- noise reduction in turbofan engines
[NASA-CASE-LEW-11402-1] c 07 N74-28226
Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c 07 N74-32418
Abating exhaust noises in jet engines
[NASA-CASE-ARC-10712-1] c 07 N74-33218
Television noise reduction device
[NASA-CASE-MSC-12607-1] c 32 N75-21485
Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c 07 N76-18117
Apparatus for reducing aerodynamic noise in a wind tunnel
[NASA-CASE-MFS-23099-1] c 09 N76-23273
Optical noise suppression device and method --- laser light exposing film
[NASA-CASE-MSC-12640-1] c 74 N76-31998
Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055
Magneto-optic detection system with noise cancellation
[NASA-CASE-NPO-11954-1] c 35 N78-29421
Totally confined explosive welding
[NASA-CASE-LAR-10941-2] c 37 N79-13364
Sound-suppressing structure with thermal relief
[NASA-CASE-LEW-12658-1] c 71 N79-14871
Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107
Support assembly for cryogenically coolable low-noise choke waveguide
[NASA-CASE-NPO-14253-1] c 32 N80-32605
Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999
Multiple pure tone elimination strut assembly --- air breathing engines
[NASA-CASE-FRC-11062-1] c 71 N82-16800
Sound shield
[NASA-CASE-LAR-12883-1] c 71 N83-17235
Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884
Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873
Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] c 35 N84-33769
Comparator with noise suppression
[NASA-CASE-LAR-13151-1] c 33 N85-20247

NOISE TEMPERATURE
Method and means for providing an absolute power measurement capability Patent
[NASA-CASE-ERC-11020] c 14 N71-26774

NOISE THRESHOLD
Frequency modulation demodulator threshold extension device Patent
[NASA-CASE-MSC-12165-1] c 07 N71-33696

NONADIABATIC CONDITIONS
Direct heating surface combustor
[NASA-CASE-LEW-11877-1] c 34 N78-27357

NONDESTRUCTIVE TESTS
Determination of spot weld quality Patent
[NASA-CASE-XNP-02588] c 15 N71-18613
Space simulator Patent
[NASA-CASE-NPO-10141] c 11 N71-24964
Apparatus for inspecting microfilm Patent
[NASA-CASE-MFS-20240] c 14 N71-26788
Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170
Method and device for detecting voids in low density material Patent
[NASA-CASE-MFS-20044] c 14 N71-28993
Holographic system for nondestructive testing
[NASA-CASE-MFS-21704-1] c 35 N75-25124
Method and apparatus for nondestructive testing of pressure vessels
[NASA-CASE-NPO-12142-1] c 38 N76-28563
Non-destructive method for applying and removing instrumentation on helicopter rotor blades
[NASA-CASE-LAR-11201-1] c 35 N78-24515
Hybrid holographic non-destructive test system
[NASA-CASE-MFS-23114-1] c 38 N78-32447
Insulation bonding test system
[NASA-CASE-MFS-25862-1] c 27 N85-20126
Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-163371-1] c 33 N85-20251
Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279
Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276

NONEQUILIBRIUM CONDITIONS
Condition sensor system and method
[NASA-CASE-MSC-14805-1] c 54 N78-32720
NONEQUILIBRIUM PLASMAS
Probes having ring and primary sensor at same potential to prevent collection of stray wall currents in ionized gases
[NASA-CASE-XLE-00690] c 25 N69-39884
NONEQUILIBRIUM RADIATION
Non-equilibrium radiation nuclear reactor
[NASA-CASE-HQN-10841-1] c 73 N78-19920
NONFLAMMABLE MATERIALS
Intumescent paint containing nitrile rubber
[NASA-CASE-ARC-10196-1] c 18 N73-13562
Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
[NASA-CASE-MSC-14331-1] c 27 N76-24405
High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1-SB] c 24 N85-30033
NONLINEAR FEEDBACK
Coherent receiver employing nonlinear coherence detection for carrier tracking
[NASA-CASE-NPO-11921-1] c 32 N74-30523
Nonlinear nonsingular feedback shift registers
[NASA-CASE-NPO-13451-1] c 33 N76-14373
NONLINEAR FILTERS
Apparatus for damping operator induced oscillations of a controlled system --- flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493
NONLINEAR SYSTEMS
Phase detector assembly Patent
[NASA-CASE-XMF-00701] c 09 N70-40272
Nonlinear analog-to-digital converter Patent
[NASA-CASE-XAC-04031] c 08 N71-18594
Split range transducer
[NASA-CASE-XLA-11189] c 10 N72-20222
Contour measurement system
[NASA-CASE-MFS-23726-1] c 43 N79-26439
NORMAL DENSITY FUNCTIONS
Ultrasonic transducer with Gaussian radial pressure distribution
[NASA-CASE-LAR-12967-1] c 35 N84-22932
NOSE CONES
Automatically deploying nozzle exit cone extension Patent
[NASA-CASE-XLE-01640] c 31 N71-15637
Nose cone mounted heat resistant antenna Patent
[NASA-CASE-XMS-04312] c 07 N71-22984
NOSE WHEELS
Nose gear steering system for vehicle with main skids Patent
[NASA-CASE-XLA-01804] c 02 N70-34160
NOTCH STRENGTH
Active notch filter network with variable notch depth, width and frequency
[NASA-CASE-FRC-11055-1] c 33 N80-29583
NOTCH TESTS
Vee-notching device --- with adjustable carriage
[NASA-CASE-MFS-20730-1] c 39 N74-13131
Notch filter
[NASA-CASE-MFS-23303-1] c 32 N77-18307
NOTCHES
Notch filter
[NASA-CASE-MFS-23303-1] c 32 N77-18307
NOZZLE DESIGN
Annular rocket motor and nozzle configuration Patent
[NASA-CASE-XLE-00078] c 28 N70-33284
Penshape exhaust nozzle for supersonic engine Patent
[NASA-CASE-XLE-00057] c 28 N70-38711
Telescoping-spike supersonic inlet for aircraft engines Patent
[NASA-CASE-XLE-00005] c 28 N70-39899
Automatically deploying nozzle exit cone extension Patent
[NASA-CASE-XLE-01640] c 31 N71-15637
Injector assembly for liquid fueled rocket engines Patent
[NASA-CASE-XMF-00968] c 28 N71-15660
Collapsible nozzle extension for rocket engines Patent
[NASA-CASE-MFS-11497] c 28 N71-16224
Gas turbine combustion apparatus Patent
[NASA-CASE-XLE-103477-1] c 28 N71-20330
Prestressed refractory structure Patent
[NASA-CASE-XNP-02888] c 18 N71-21068
Scanning nozzle plating system --- for etching or plating metals on substrates without masking
[NASA-CASE-NPO-11758-1] c 31 N74-23065
Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055
Variable area exhaust nozzle
[NASA-CASE-LEW-12378-1] c 07 N79-14097
Aircraft engine nozzle
[NASA-CASE-ARC-10977-1] c 07 N80-32392
Sandblasting nozzle
[NASA-CASE-NPO-13823-1] c 37 N81-25371
Controlled overspray spray nozzle
[NASA-CASE-MFS-25139-1] c 34 N82-13376
NOZZLE FLOW
Control system for rocket vehicles Patent
[NASA-CASE-XLA-01163] c 21 N71-15582
Aerodynamic spike nozzle Patent
[NASA-CASE-XGS-01143] c 31 N71-15647
Propellent mass distribution metering apparatus Patent
[NASA-CASE-NPO-10185] c 10 N71-26339
Tertiary flow injection thrust vectoring system Patent
[NASA-CASE-MFS-20831] c 28 N71-29153
Multi-purpose wind tunnel reaction control model block
[NASA-CASE-MSC-19706-1] c 09 N78-31129
NOZZLE GEOMETRY
Method of making a rocket nozzle
[NASA-CASE-XMF-06884-1] c 20 N79-21123
NOZZLE INSERTS
Self-sealing, unbonded, rocket motor nozzle closure *Patent*
[NASA-CASE-XLA-02651] c 28 N70-41967
Wind tunnel supplementary Mach number minimum section insert
[NASA-CASE-LAR-12532-1] c 09 N82-11088
NUCLEAR EXPLOSION EFFECT
Method and construction for protecting heat sensitive bodies from thermal radiation and convective heat Patent
[NASA-CASE-XNP-01310] c 33 N71-28852
NUCLEAR FUEL ELEMENTS
Nuclear fuel elements
[NASA-CASE-XLE-00209] c 22 N73-32528
NUCLEAR MAGNETIC RESONANCE
Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266
NUCLEAR POWER PLANTS
Self-adjusting multisegment, deployable, natural circulation radiator Patent
[NASA-CASE-XHQ-03673] c 33 N71-29046
NUCLEAR PUMPED LASERS
Volumetric direct nuclear pumped laser
[NASA-CASE-LAR-12183-1] c 36 N79-18307
NUCLEAR PUMPING
Large volume multiple-path nuclear pumped laser
[NASA-CASE-LAR-12592-1] c 36 N82-13415
NUCLEAR REACTOR CONTROL
Gaseous control system for nuclear reactors
[NASA-CASE-XLE-04599] c 22 N72-20597
Control for nuclear thermionic power source
[NASA-CASE-NPO-13114-2] c 73 N78-28913
NUCLEAR REACTORS
Nuclear thermionic converter --- tungsten-thorium oxide rods
[NASA-CASE-NPO-13121-1] c 73 N77-18891
High thermal power density heat transfer apparatus providing electrical isolation at high temperature using heat pipes
[NASA-CASE-LEW-12950-2] c 34 N85-29179
Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182
NUCLEATE BOILING
Method of improving heat transfer characteristics in a nucleate boiling process Patent
[NASA-CASE-XMS-04268] c 33 N71-16277
NULL ZONES
Null device for hand controller Patent
[NASA-CASE-XLA-01808] c 15 N71-20740
NUMBER THEORY
Binary concatenated coding system
[NASA-CASE-MSC-14082-1] c 60 N76-23850
NUMERICAL ANALYSIS
Method of and apparatus for generating an interstitial point in a data stream having an even number of data points
[NASA-CASE-MFS-25319-1] c 60 N85-33701
NUMERICAL CONTROL
Fringe counter for interferometers Patent
[NASA-CASE-LAR-10204] c 14 N71-27215
Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349
Controller for computer control of brushless dc motors --- automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352
Reconfiguring redundancy management
[NASA-CASE-MSC-18498-1] c 60 N82-29013
Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681
NUMERICAL INTEGRATION
Apparatus for computing square roots Patent
[NASA-CASE-XGS-04768] c 08 N71-19437
NUTATION
Method and means for damping nutation in a satellite Patent
[NASA-CASE-XMF-00442] c 31 N71-10747
Nutation damper
[NASA-CASE-GSC-11205-1] c 15 N73-25513
NUTATION DAMPERS
Active nutation controller
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[NASA-CASE-MSC-12640-1] c 74 N76-31998
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[NASA-CASE-GSC-12911-1] c 35 N84-25016
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[NASA-CASE-NPO-13556-1] c 35 N84-33766
A method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N86-20128
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[NASA-CASE-XMF-14032] c 20 N71-16340
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[NASA-CASE-XGS-05291] c 23 N71-16341
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[NASA-CASE-NPO-11932-1] c 35 N74-23040
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[NASA-CASE-XAC-09489-1] c 15 N71-26673
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[NASA-CASE-MFS-20642] c 14 N72-21407
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[NASA-CASE-MSC-13601-2] c 54 N75-27759
Noncontacting method for measuring angular deflection
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[NASA-CASE-NPO-14502-1] c 74 N81-17888
Optical crystal temperature gauge with fiber optic connections
[NASA-CASE-MSC-18627-1] c 74 N82-30071
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[NASA-CASE-XLE-00503] c 14 N70-34818
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[NASA-CASE-ERC-10011] c 07 N71-29065
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[NASA-CASE-LAR-11341-1] c 36 N75-19655
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[NASA-CASE-NPO-13993-1] c 72 N79-13826
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[NASA-CASE-GSC-12566-1] c 33 N83-34189
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[NASA-CASE-XLA-00062] c 14 N70-33254

OPTICAL RADAR
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[NASA-CASE-MFS-20125] c 16 N72-13437

OPTICAL RANGE FINDERS
Altitude sensing device
[NASA-CASE-XMS-01994-1] c 14 N72-17326
Optical range finder having nonoverlapping complete images
[NASA-CASE-MSC-12105-1] c 14 N72-21409

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Hybrid holographic system using reflected and transmitted object beams simultaneously Patent
[NASA-CASE-MFS-20074] c 16 N71-15565
Method for generating ultra-precise angles Patent
[NASA-CASE-XGS-04173] c 19 N71-26674
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[NASA-CASE-HQN-10781] c 23 N71-30292
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Apparatus for and method of compensating dynamic unbalance
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Optical inspection apparatus Patent
[NASA-CASE-XMF-00462] c 14 N70-34298
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[NASA-CASE-NPO-11106] c 14 N70-34697
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[NASA-CASE-XGS-00809] c 21 N70-35427
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[NASA-CASE-GSC-10890-1] c 21 N73-30640
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[NASA-CASE-MFS-22631-1] c 66 N76-19888
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[NASA-CASE-LAR-11711-1] c 74 N78-17866
Device for measuring the contour of a surface
[NASA-CASE-LAR-11869-1] c 74 N78-27904
Velocity servo for continuous scan Fourier interference spectrometer
[NASA-CASE-NPO-14093-1] c 35 N80-20563
Method of growing a ribbon crystal particularly suited for facilitating automated control of ribbon width
[NASA-CASE-NPO-14295-1] c 76 N80-32245
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[NASA-CASE-LAR-12328-1] c 36 N82-32712
Optical scanner
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[NASA-CASE-XGS-01159] c 21 N71-10678
Optical tracker having overlapping reticles on parallel axes Patent
[NASA-CASE-XGS-05715] c 23 N71-16100
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[NASA-CASE-MFS-14017] c 14 N71-26627
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[NASA-CASE-MFS-23999-1] c 44 N81-24520
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[NASA-CASE-MSC-12391] c 30 N73-12884

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[NASA-CASE-MFS-25211-2] c 33 N84-14423
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[NASA-CASE-MSC-20543-1] c 18 N84-22610
Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 15 N85-11122
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Radial module space station Patent
[NASA-CASE-XMS-01906] c 31 N70-41373
Serpentuator Patent
[NASA-CASE-XMF-05344] c 31 N71-16345
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[NASA-CASE-MFS-20410] c 15 N71-19214

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Process for interfacial polymerization of pyromellitic dianhydride and 1,2,4, 5-tetraamino-benzene Patent
[NASA-CASE-XLA-03104] c 06 N71-11235
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[NASA-CASE-NPO-12130-1] c 25 N75-14844

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[NASA-CASE-XMF-06409] c 06 N71-23230
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[NASA-CASE-XNP-03250] c 06 N71-23500
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[NASA-CASE-NPO-10701] c 06 N71-28620
Diffuse reflective coating
[NASA-CASE-GSC-11214-1] c 06 N73-13128
Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c 25 N76-18245
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[NASA-CASE-MSC-14428-1] c 23 N77-17161
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[NASA-CASE-MSC-16497-1] c 25 N82-12166
Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-2] c 27 N84-22746
The 1-(diorganooxphosphonyl)methyl-2, 4- and -2, 6-dinitro and diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N86-20499

ORGANIC PHOSPHORUS COMPOUNDS
Fire resistant polymers based on 1-((dialkoxyphosphonyl)methyl)-2,4- and -2,6-diaminobenzenes
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Oxygen post-treatment of plastic surface coated with plasma polymerized silicon-containing monomers
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ORGANIC SULFUR COMPOUNDS
Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246

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Ammonium perchlorate composite propellant containing an organic transitional metal chelate catalytic additive Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090
Trialkyl-dihalotantalum and niobium compounds Patent
[NASA-CASE-XNP-04023] c 06 N71-28808
Carboranylmethylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750
Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N86-19610

ORGANOMETALLIC POLYMERS
Metal containing polymers from cyclic tetrameric phenylphosphonitrilamides Patent
[NASA-CASE-HQN-10364] c 06 N71-27363
Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids
[NASA-CASE-MFS-22411-1] c 37 N74-21058

ORIFICE FLOW
Relief valve
[NASA-CASE-XMS-05894-1] c 15 N69-21924

ORIFICES
Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736

ORTHO HYDROGEN
Cooling by conversion of para to ortho-hydrogen
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ORTHO PARA CONVERSION
Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324

ORTHOGONAL FUNCTIONS
Discharge cell for optogalvanic spectroscopy having orthogonal relationship between the probe laser and discharge axis
[NASA-CASE-NPO-16271-1] c 36 N84-15537

ORTHOGONAL MULTIPLEXING THEORY
Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917

ORTHOGONALITY
Floating two force component measuring device Patent
[NASA-CASE-XAC-04885] c 14 N71-23790
Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N84-12092

ORTHOPEDICS
Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-1] c 54 N76-22914
Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c 52 N81-25661
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[NASA-CASE-XLA-02079] c 12 N71-16894
Stabilization of gravity oriented satellites Patent
[NASA-CASE-XAC-01591] c 31 N71-17729
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[NASA-CASE-LAR-10193-1] c 15 N71-27146
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[NASA-CASE-XLA-09480] c 11 N71-33612
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[NASA-CASE-FRC-11041-1] c 33 N82-18493
Method of damping nutation motion with minimum spin axis attitude disturbance
[NASA-CASE-GSC-12551-1] c 18 N83-28064
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[NASA-CASE-LEW-13717-1] c 37 N85-30333
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[NASA-CASE-XLA-03724] c 14 N69-27461
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[NASA-CASE-GSC-10041-1] c 10 N71-19418
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[NASA-CASE-XGS-05289] c 09 N71-19470
Signal ratio system utilizing voltage controlled oscillators Patent
[NASA-CASE-XMF-04367] c 09 N71-23545
Pneumatic oscillator Patent
[NASA-CASE-LEW-10345-1] c 10 N71-25899
Wideband VCO with high phase stability Patent
[NASA-CASE-XLA-03893] c 10 N71-27271
Variable frequency oscillator with temperature compensation Patent
[NASA-CASE-XNP-03916] c 09 N71-28810
Inverter oscillator with voltage feedback
[NASA-CASE-NPO-10760] c 09 N72-25254
Controlled oscillator system with a time dependent output frequency
[NASA-CASE-NPO-11962-1] c 33 N74-10194
Ultra-stable oscillator with complementary transistors
[NASA-CASE-GSC-11513-1] c 33 N74-20862
LC-oscillator with automatic stabilized amplitude via bias current control --- power supply circuit for transducers
[NASA-CASE-MFS-21698-1] c 33 N74-26732
Frequency modulated oscillator
[NASA-CASE-MFS-23181-1] c 33 N77-17351
Distributed feedback acoustic surface wave oscillator
[NASA-CASE-NPO-13673-1] c 71 N77-26919
Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349
Laser Resonator
[NASA-CASE-GSC-12565-1] c 36 N84-14509
Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] c 33 N84-16452
Dielectric based submillimeter backward wave oscillator circuit
[NASA-CASE-LEW-13736-1] c 33 N84-27974
Temperature sensitive oscillator
[NASA-CASE-GSC-12958-1] c 33 N85-30201
JFET reflection socillator
[NASA-CASE-GSC-12555-1] c 33 N86-19515
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N86-20679
A water-absorbing capacitor system for measuring relative humidity
[NASA-CASE-NPO-16544-1-CU] c 35 N86-20755
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[NASA-CASE-NPO-10251] c 10 N71-27365
Method and apparatus for mapping the sensitivity of the face of a photodetector specifically a PMT
[NASA-CASE-LAR-10320-1] c 09 N72-23172
Exposure interlock for oscilloscope cameras
[NASA-CASE-LAR-10319-1] c 14 N73-32322
X-Y alphanumeric character generator for oscilloscopes
[NASA-CASE-GSC-11582-1] c 33 N75-19517
OUTER PLANETS EXPLORERS
Spectrometer integrated with a facsimile camera
[NASA-CASE-LAR-11207-1] c 35 N75-19613
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Optical characteristics measuring apparatus Patent
[NASA-CASE-XNP-08840] c 23 N71-16365
Process for glass coating an ion accelerator grid Patent
[NASA-CASE-LEW-10278-1] c 15 N71-28582
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[NASA-CASE-GSC-11358-1] c 06 N73-26100
OUTLET FLOW
Amplified wind turbine apparatus
[NASA-CASE-MFS-23830-1] c 44 N82-24639
Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178
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Nonlinear nonsingular feedback shift registers
[NASA-CASE-NPO-13451-1] c 33 N76-14373
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N86-20679
OVENS
Heat shield oven
[NASA-CASE-XMS-04318] c 15 N69-27871
Thermocouple, multiple junction reference oven
[NASA-CASE-FRC-10112-1] c 35 N81-26431
OVERPRESSURE
Method and apparatus for suppressing ignition overpressure in solid rocket propulsion systems
[NASA-CASE-MFS-25843-1] c 20 N83-17588
OVERVOLTAGE
Protective circuit of the spark gap type
[NASA-CASE-XAC-08981] c 09 N69-39897
Power responsive overload sensing circuit Patent
[NASA-CASE-GSC-10667-1] c 10 N71-33129
Overvoltage protection network
[NASA-CASE-ARC-10197-1] c 33 N74-17929
Overload protection system for power inverter
[NASA-CASE-NPO-13872-1] c 33 N78-10377
OXAZOLE
Preparation of heterocyclic block copolymer omega-diamidoximes
[NASA-CASE-ARC-11060-1] c 27 N79-22300
The 1,2,4-oxadiazole elastomers --- heat resistant polymers
[NASA-CASE-ARC-11253-1] c 27 N81-17262
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[NASA-CASE-ARC-11267-2] c 23 N82-28353
OXIDATION
Silicide coatings for refractory metals Patent
[NASA-CASE-XLE-10910] c 18 N71-29040
Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c 25 N75-12086
Hydrogen rich gas generator
[NASA-CASE-NPO-13464-2] c 44 N76-29704
Process of forming catalytic surfaces for wet oxidation reactions
[NASA-CASE-MSC-14831-1] c 25 N78-10225
Compound oxidized styrylphosphine --- flame resistant vinyl polymers
[NASA-CASE-MSC-14903-2] c 27 N80-10358
Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] c 26 N84-33555
Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-1] c 27 N86-19458
OXIDATION RESISTANCE
Nickel-base alloy containing Mo-W-Al-Cr- Ta-Zr-C-Nb-B Patent
[NASA-CASE-XLE-02082] c 17 N71-16026
Method of protecting the surface of a substrate --- by applying aluminide coating
[NASA-CASE-LEW-11696-1] c 37 N75-13261
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[NASA-CASE-LEW-11696-2] c 26 N75-19408
High temperature oxidation resistant cermet compositions
[NASA-CASE-NPO-13666-1] c 27 N77-13217
High temperature resistant cermet and ceramic compositions
[NASA-CASE-NPO-13690-2] c 27 N79-14213
Method of making bearing materials --- self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916
Improved thermal barrier coating system
[NASA-CASE-LEW-13324-1] c 26 N82-26431
Nicral ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505
Improved nickel base coating alloy --- oxidation resistant coatings
[NASA-CASE-LEW-13834-1] c 26 N83-24639
Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233
High temperature resistant polyimide from tetra ester, diamine, diester and N-arylnadimide
[NASA-CASE-LEW-13864-1] c 27 N86-19457
Oxidation protecting coatings for polymers
[NASA-CASE-LEW-14072-2] c 27 N86-19463
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[NASA-CASE-LEW-13150-1] c 44 N79-26474
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[NASA-CASE-LEW-13148-1] c 33 N80-20487
Method of making formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-2] c 25 N82-21268
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Method of forming oxide coatings --- for solar collector heating panels
[NASA-CASE-LEW-13132-1] c 27 N83-29388
Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233
Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-1] c 27 N86-19458
Oxidation protecting coatings for polymers
[NASA-CASE-LEW-14072-2] c 27 N86-19463
OXIDES
Novel polymers and method of preparing same
[NASA-CASE-NPO-10998-1] c 06 N73-32029
OXIDIZERS
Electrolytically regenerative hydrogen-oxygen fuel cell Patent
[NASA-CASE-XLE-04526] c 03 N71-11052
Injection head for delivering liquid fuel and oxidizers
[NASA-CASE-NPO-10046] c 28 N72-17843
Device and method for frictionally testing materials for ignitability
[NASA-CASE-MSC-20622-1] c 25 N86-19413
OXIMETRY
Method and apparatus for continuously monitoring blood oxygenation, blood pressure, pulse rate and the pressure pulse curve utilizing an ear oximeter as transducer Patent
[NASA-CASE-XAC-05422] c 04 N71-23185
OXYGEN
Analytical test apparatus and method for determining oxide content of alkali metal Patent
[NASA-CASE-XLE-01997] c 06 N71-23527
Method for removing oxygen impurities from cesium Patent
[NASA-CASE-XNP-04262-2] c 17 N71-26773
Method of detecting oxygen in a gas
[NASA-CASE-LAR-10668-1] c 06 N73-16106
Method for obtaining oxygen from lunar or similar soil
[NASA-CASE-MSC-12408-1] c 46 N74-13011
Nonflammable coating compositions --- for use in high oxygen environments
[NASA-CASE-MFS-20486-2] c 27 N74-17283
A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] c 25 N84-32447
Technique for measuring gas conversion factors
[NASA-CASE-LAR-13220-1] c 34 N86-12547
OXYGEN CONSUMPTION
Method and system for respiration analysis Patent
[NASA-CASE-XFR-08403] c 05 N71-11202
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Utilization of oxygen difluoride for syntheses of fluoropolymers
[NASA-CASE-NPO-12061-1] c 27 N76-16228
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Metabolic analyzer --- for measuring metabolic rate and breathing dynamics of human beings
[NASA-CASE-MFS-21415-1] c 52 N74-20728
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[NASA-CASE-ARC-10915-2] c 27 N79-18052
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[NASA-CASE-LEW-13822-1] c 33 N84-29084
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Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664
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[NASA-CASE-MSC-14733-1] c 54 N76-24900
Slow opening valve --- valve design for shuttle portable oxygen system
[NASA-CASE-MSC-20112-1] c 37 N85-20338
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Ozonation of cooling tower waters
[NASA-CASE-NPO-14340-1] c 45 N80-14579
Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same
[NASA-CASE-NPO-13137-1] c 27 N80-32514

P

P-I-N JUNCTIONS
High voltage v-groove solar cell
[NASA-CASE-LEW-13401-2] c 44 N83-32177
P-N JUNCTIONS
Thin window, drifted silicon, charged particle detector
[NASA-CASE-XLE-10529] c 14 N69-23191
Semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980] c 09 N69-27422
Radiation resistant silicon semiconductor devices Patent
[NASA-CASE-XGS-07801] c 09 N71-12513
Biomedical radiation detecting probe Patent
[NASA-CASE-XMS-01177] c 05 N71-19440
Method of making electrical contact on silicon solar cell and resultant product Patent
[NASA-CASE-XLE-04787] c 03 N71-20492
Method of changing the conductivity of vapor deposited gallium arsenide by the introduction of water into the vapor deposition atmosphere Patent
[NASA-CASE-XNP-01961] c 26 N71-29156
Method of making semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980-2] c 14 N72-28438
Semiconductor surface protection material
[NASA-CASE-ERC-10339-1] c 18 N73-30532
Method and apparatus for measuring minority carrier lifetimes and bulk diffusion length in P-N junction solar cells
[NASA-CASE-NPO-14100-1] c 44 N79-12541
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[NASA-CASE-LEW-12236-2] c 44 N79-14528
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Semiconductor material and method of making same Patent
[NASA-CASE-XLE-02798] c 26 N71-23654
Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c 33 N74-34638
Method of Fabricating Schottky Barrier solar cell
[NASA-CASE-NPO-13689-4] c 44 N82-28780
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Impact testing machine Patent
[NASA-CASE-XNP-04817] c 14 N71-23225
One hand backpack harness
[NASA-CASE-LAR-10102-1] c 05 N72-23085
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Folding apparatus Patent
[NASA-CASE-XLA-00137] c 15 N70-33180
Reflector space satellite Patent
[NASA-CASE-XLA-00138] c 31 N70-37981
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[NASA-CASE-MFS-20855] c 15 N73-27405
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[NASA-CASE-NPO-14199-1] c 44 N79-25482
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[NASA-CASE-LAR-12875-1] c 37 N83-20156
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[NASA-CASE-NPO-15433-1] c 32 N85-21428
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[NASA-CASE-XNP-04816] c 06 N69-39936
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Fluid seal for rotating shafts
[NASA-CASE-LEW-11676-1] c 37 N76-22541
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Lubricated journal bearing
[NASA-CASE-LEW-11076-3] c 37 N75-30562
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Intumescent paints Patent
[NASA-CASE-ARC-10099-1] c 18 N71-15469
Alkali metal silicate protective coating Patent
[NASA-CASE-XGS-04799] c 18 N71-24183
Inorganic thermal control pigment Patent
[NASA-CASE-XNP-02139] c 18 N71-24184
Diffusely reflecting paints including polytetrafluoroethylene and method of manufacture
[NASA-CASE-GSC-12883-1] c 27 N85-29044
PALLADIUM
Electrically conductive palladium containing polyimide films
[NASA-CASE-LAR-12705-1] c 25 N82-26396
PALLADIUM COMPOUNDS
Prevention of pressure build-up in electrochemical cells Patent
[NASA-CASE-XGS-01419] c 03 N70-41864
Process for separation of dissolved hydrogen from water by use of palladium and process for coating palladium with palladium black
[NASA-CASE-MSC-13335-1] c 06 N72-31140
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All-directional fastener Patent
[NASA-CASE-XLA-01807] c 15 N71-10799
Panelized high performance multilayer insulation Patent
[NASA-CASE-MFS-14023] c 33 N71-25351
Solar panel fabrication Patent
[NASA-CASE-XNP-03413] c 03 N71-26726
Method of making pressurized panel Patent
[NASA-CASE-XLA-08916] c 15 N71-29018
Honeycomb panels formed of minimal surface periodic tubule layers
[NASA-CASE-ERC-10364] c 18 N72-25540
Pressurized panel
[NASA-CASE-XLA-08916-2] c 14 N73-28487
Ultrasonic scanner for radial and flat panels
[NASA-CASE-MFS-20335-1] c 35 N74-10415
Folding structure fabricated of rigid panels
[NASA-CASE-XHQ-02146] c 18 N75-27040
Method of making a composite sandwich lattice structure
[NASA-CASE-LAR-11898-2] c 24 N78-17149
Selective coating for solar panels --- using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c 44 N78-19599
Hexagon solar power panel
[NASA-CASE-NPO-12148-1] c 44 N78-27515
Aluminium or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23516-3] c 44 N80-16452
Structural wood panels with improved fire resistance
[NASA-CASE-ARC-11174-1] c 24 N81-13999
Method of forming oxide coatings --- for solar collector heating panels
[NASA-CASE-LEW-13132-1] c 27 N83-29388
Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
Saltless solar pond
[NASA-CASE-NPO-15808-1] c 44 N84-34792
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Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747
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Guide for a typewriter
[NASA-CASE-MFS-15218-1] c 37 N77-19457
PARA HYDROGEN
Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324
PARABOLIC ANTENNAS
Antenna beam-shaping apparatus Patent
[NASA-CASE-XNP-00611] c 09 N70-35219
Reversible motion drive system Patent
[NASA-CASE-NPO-10173] c 15 N71-24696
Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472
Telescoping columns --- parabolic antenna support
[NASA-CASE-LAR-12195-1] c 31 N81-27324
Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355
PARABOLIC REFLECTORS
Parabolic reflector horn feed with spillover correction Patent
[NASA-CASE-XNP-00540] c 09 N70-35382
Foldable solar concentrator Patent
[NASA-CASE-XLA-04622] c 03 N70-41580
Collapsible reflector Patent
[NASA-CASE-XMS-03454] c 09 N71-20658
Plural beam antenna
[NASA-CASE-GSC-11013-1] c 09 N73-19234
Composite antenna feed
[NASA-CASE-GSC-11046-1] c 07 N73-28013
Single frequency, two feed dish antenna having switchable beamwidth
[NASA-CASE-GSC-11968-1] c 32 N76-15329
Sun tracking solar energy collector
[NASA-CASE-NPO-13921-1] c 44 N79-14526
Horizontally mounted solar collector
[NASA-CASE-MFS-23349-1] c 44 N79-23481
Solar concentrator
[NASA-CASE-MFS-23727-1] c 44 N80-14473
Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082
PARABOLOID MIRRORS
Optical data processing using paraboloidal mirror segments
[NASA-CASE-GSC-11296-1] c 23 N73-30666
Three mirror glancing incidence system for X-ray telescope
[NASA-CASE-MFS-21372-1] c 74 N74-27866
PARACHUTE DESCENT
Parachute glider Patent
[NASA-CASE-XLA-00898] c 02 N70-36804
Vehicle parachute and equipment jettison system Patent
[NASA-CASE-XLA-00195] c 02 N70-38009
Line cutter Patent
[NASA-CASE-XMS-04072] c 15 N70-42017
Vortex breech high pressure gas generator
[NASA-CASE-LAR-10549-1] c 31 N73-13898
PARACHUTE FABRICS
Lightweight, variable solidity knitted parachute fabric --- for aerodynamic decelerators
[NASA-CASE-LAR-10776-1] c 02 N74-10034
Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330
PARACHUTES
System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008
Deploy/release system --- model aircraft flight control
[NASA-CASE-LAR-11575-1] c 02 N76-16014
System and method for refurbishing and processing parachutes --- monorial conveyor system
[NASA-CASE-KSC-11042-2] c 02 N81-26073
Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330
Line hook with loop expander
[NASA-CASE-LAR-12875-1] c 37 N83-20156
Dual towline spin-recovery device
[NASA-CASE-LAR-13076-1] c 08 N85-35200
PARAGLIDERS
Parachute glider Patent
[NASA-CASE-XLA-00898] c 02 N70-36804
PARALLAX
Projection system for display of parallax and perspective
[NASA-CASE-MFS-23194-1] c 35 N78-17357
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
PARALLEL PLATES
Parallel plate viscometer Patent
[NASA-CASE-XNP-09462] c 14 N71-17584
Dynamic capacitor having a peripherally driven element and system incorporating the same
[NASA-CASE-XNP-02899-1] c 33 N79-21265
Multiple plate hydrostatic viscous damper
[NASA-CASE-LEW-12445-1] c 37 N81-22360
PARALLEL PROCESSING (COMPUTERS)
Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751
Massively parallel processor computer
[NASA-CASE-GSC-12223-1] c 60 N83-25378
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491
PARAMETRIC AMPLIFIERS
Parametric amplifiers with idler circuit feedback
[NASA-CASE-LAR-10253-1] c 09 N72-25258
Millimeter wave pumped parametric amplifier
[NASA-CASE-GSC-11617-1] c 33 N74-32660
PARAMETRIC FREQUENCY CONVERTERS
Method and apparatus for quadriphase-shift-key and linear phase modulation
[NASA-CASE-NPO-14444-1] c 33 N81-15192
PARAWINGS
Wing deployment method and apparatus Patent
[NASA-CASE-XMS-00907] c 02 N70-41630
PARKING
Automated multi-level vehicle parking system
[NASA-CASE-NPO-13058-1] c 37 N77-22480
PARTIAL PRESSURE
Vapor pressure measuring system and method Patent
[NASA-CASE-XMS-01618] c 14 N71-20741
PARTICLE ACCELERATION
Molecular beam velocity selector Patent
[NASA-CASE-XLE-01533] c 11 N71-10777
Dust particle injector for hypervelocity accelerators Patent
[NASA-CASE-XGS-06628] c 24 N71-16213
PARTICLE ACCELERATOR TARGETS
Dispensing targets for ion beam particle generators
[NASA-CASE-NPO-13112-1] c 73 N74-26767
Deuterium pass through target --- neutron emitting target
[NASA-CASE-LEW-11866-1] c 72 N76-15860
Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237
PARTICLE BEAMS
Particle beam measurement apparatus using beam kinetic energy to change the heat sensitive resistance of the detection probe Patent
[NASA-CASE-XLE-00243] c 14 N70-38602
Doppler shift system --- system for measuring velocities of radiating particles
[NASA-CASE-HQN-10740-1] c 72 N74-19310
Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] c 72 N84-28575
PARTICLE COLLISIONS
Particle detection apparatus including a ballistic pendulum Patent
[NASA-CASE-XMS-04201] c 14 N71-22990

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[NASA-CASE-XLA-00495] c 14 N70-41332
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PARTICLE ENERGY
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[NASA-CASE-XLA-00135] c 14 N70-33322
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[NASA-CASE-LAR-11434-1] c 35 N76-22509
PARTICLE MASS
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[NASA-CASE-MSC-13802-2] c 35 N76-15431
Microbalance --- for measuring particle mass
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PARTICLE MOTION
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[NASA-CASE-GSC-11889-1] c 35 N76-16393
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[NASA-CASE-XNP-04816] c 06 N69-39936
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[NASA-CASE-XLE-00010] c 15 N70-33382
Method of producing refractory composites containing tantalum carbide, hafnium carbide, and hafnium boride Patent
[NASA-CASE-XLE-03940] c 18 N71-26153
Grain refinement control in TIG arc welding
[NASA-CASE-MSC-19095-1] c 37 N75-19683
Apparatus for handling micron size range particulate material
[NASA-CASE-NPO-10151] c 37 N78-17386
Frequency-scanning particle size spectrometer
[NASA-CASE-NPO-13606-2] c 35 N80-18364
Process for preparation of large-particle-size monodisperse latexes
[NASA-CASE-MFS-25000-1] c 25 N81-19242
Polyvinyl alcohol battery separator containing inert filler --- alkaline batteries
[NASA-CASE-LEW-13556-1] c 44 N81-27615
Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] c 37 N84-16561
PARTICLE TRAJECTORIES
Micrometeoroid velocity and trajectory analyzer
[NASA-CASE-GSC-11892-1] c 35 N76-15433
Direction sensitive laser velocimeter --- determining the direction of particles using a helium-neon laser
[NASA-CASE-LAR-12177-1] c 36 N81-24422
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Soil particles separator, collector and viewer Patent
[NASA-CASE-XNP-09770] c 15 N71-20440
Apparatus for producing metal powders
[NASA-CASE-XLE-06461-2] c 17 N72-28535
Particle parameter analyzing system --- x-y plotter circuits and display
[NASA-CASE-XLE-06094] c 33 N78-17293
Surfactant-assisted liquefaction of particulate carbonaceous substances
[NASA-CASE-NPO-13904-1] c 25 N79-11152
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[NASA-CASE-NPO-155559-1] c 71 N85-30765
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Apparatus for sampling particulates in gases
[NASA-CASE-HQN-10037-1] c 14 N73-27376
Electrophoretic sample insertion --- device for uniformly distributing samples in flow path
[NASA-CASE-MFS-21395-1] c 25 N74-26948
Sampler of gas borne particles
[NASA-CASE-NPO-13396-1] c 35 N76-18401
Fine particulate capture device
[NASA-CASE-LEW-11583-1] c 35 N79-17192
Biocontamination and particulate detection system
[NASA-CASE-NPO-13953-1] c 35 N79-28527
Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184
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[NASA-CASE-XMS-10993] c 15 N71-28936
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[NASA-CASE-LAR-12882-1] c 35 N84-12445
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Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309
Method and apparatus for determining electromagnetic characteristics of large surface area passive reflectors Patent
[NASA-CASE-XGS-02608] c 07 N70-41678
Method of making an inflatable panel Patent
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[NASA-CASE-NPO-14813-1] c 74 N82-24072
Method for depositing an oxide coating
[NASA-CASE-LEW-13131-1] c 44 N83-10494
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[NASA-CASE-GSC-12646-1] c 33 N83-34191
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[NASA-CASE-XLA-00203] c 14 N70-34161
Auditory display for the blind
[NASA-CASE-HQN-10832-1] c 71 N74-21014
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Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469
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Simulator method and apparatus for practicing the mating of an observer-controlled object with a target
[NASA-CASE-MFS-23052-2] c 74 N79-13855
Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303
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Foam generator Patent
[NASA-CASE-XLA-00838] c 03 N70-36778
Spacecraft separation system for spinning vehicles *and/or payloads* Patent
[NASA-CASE-XLA-02132] c 31 N71-10582
Payload/burned-out motor case separation system Patent
[NASA-CASE-XLA-05369] c 31 N71-15687
Velocity package Patent
[NASA-CASE-XLA-01339] c 31 N71-15692
Omnidirectional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c 31 N71-16085
Zero gravity apparatus Patent
[NASA-CASE-XMF-06515] c 14 N71-23227
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609
PCM TELEMETRY
Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964
Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255
High speed direct binary-to-binary coded decimal converter
[NASA-CASE-KSC-10326] c 08 N72-21197
PEELING
Wire stripper
[NASA-CASE-FRC-10111-1] c 37 N79-10419
PEENING
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N84-20670
PELLETS
Support structure for irradiated elements Patent
[NASA-CASE-XNP-06031] c 15 N71-15606
Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940
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Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146
Memory metal actuator
[NASA-CASE-NPO-15960-1] c 37 N86-19604
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Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170
PENETRATION
Method and device for detection of surface discontinuities or defects
[NASA-CASE-MSC-14187-1] c 35 N74-32879
Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137
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Lunar penetrometer Patent
[NASA-CASE-XLA-00934] c 14 N71-22765
Self-recording portable soil penetrometer
[NASA-CASE-MFS-20774] c 14 N73-19420
Soil penetrometer
[NASA-CASE-XNP-05530] c 14 N73-32321
Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367
Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443
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Method for measuring cutaneous sensory perception
[NASA-CASE-MSC-13609-1] c 05 N72-25122
PERFLUORO COMPOUNDS
Hydroxy terminated perfluoro ethers Patent
[NASA-CASE-NPO-10768] c 06 N71-27254
Perfluoro polyether acyl fluorides
[NASA-CASE-NPO-10765] c 06 N72-20121
Reaction of fluorine with polyperfluoropolyenes
[NASA-CASE-NPO-10862] c 06 N72-22107
Silphenylenesiloxane polymers having in-chain perfluoroalkyl groups
[NASA-CASE-MFS-20979] c 06 N72-25151
Polymers of perfluorobutadiene and method of *manufacture*
[NASA-CASE-NPO-10863-2] c 06 N72-25152
Polyurethane resins from hydroxy terminated perfluoro ethers
[NASA-CASE-NPO-10768-2] c 06 N72-27144
Polymerizable disilanols having in-chain perfluoroalkyl groups
[NASA-CASE-MFS-20979-2] c 06 N73-32030
Perfluoro alkylene dioxy-bis-(4-phthalic anhydrides and oxy-bis-(perfluoroalkyleneoxyphathalic anhydrides
[NASA-CASE-MFS-22356-1] c 23 N75-30256
Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353
High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523
Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] c 24 N84-11213
Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744
Perfluoro (Imidoylamidine) diamidines
[NASA-CASE-ARC-11402-3] c 23 N86-21582
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Preparation of heterocyclic block copolymer omega-diamidoximes
[NASA-CASE-ARC-11060-1] c 27 N79-22300
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Process for glass coating an ion accelerator grid Patent
[NASA-CASE-LEW-10278-1] c 15 N71-28582
PERFORATED SHELLS
Method of fabricating an article with cavities --- with thin bottom walls
[NASA-CASE-LAR-10318-1] c 31 N74-18089
PERFORMANCE PREDICTION
Failure detection and control means for improved drift performance of a gimballed platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175
PERFORMANCE TESTS
Frangible electrochemical cell
[NASA-CASE-XGS-10010] c 03 N72-15986
Solar cell assembly test method
[NASA-CASE-NPO-10401] c 03 N72-20033
Linear explosive comparison
[NASA-CASE-LAR-10800-1] c 33 N72-27959
Split-cross-bridge resistor for testing for proper fabrication of integrated circuits
[NASA-CASE-NPO-16021-1] c 33 N85-30187
PERIODIC VARIATIONS
Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c 35 N77-20401
PERIPHERAL EQUIPMENT (COMPUTERS)
Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] c 60 N84-28492
PERMEABILITY
Ionene membrane separator
[NASA-CASE-NPO-11091] c 18 N72-22567
System for detecting substructure microfractures and method therefore
[NASA-CASE-NPO-14192-1] c 39 N80-10507
Dialysis system --- using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687
Geological assessment probe
[NASA-CASE-NPO-14558-1] c 46 N80-24906
PEROXIDES
Method of polymerizing perfluorobutadiene Patent application
[NASA-CASE-NPO-10447] c.06 N70-11252
PERSPIRATION
Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MSC-90153-2] c 05 N72-25120
Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763

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Gaseous control system for nuclear reactors
[NASA-CASE-XLE-04599] c 22 N72-20597
PERTURBATION THEORY
Dual wavelength scanning Doppler velocimeter --- without perturbation of flow fields
[NASA-CASE-ARC-10637-1] c 35 N75-16783
PH FACTOR
Method for determining the point of zero zeta potential of semiconductor
[NASA-CASE-LAR-12893-1] c 76 N85-30923
PHASE COHERENCE
Signal phase estimator
[NASA-CASE-NPO-11203] c 10 N72-20224
Coherent receiver employing nonlinear coherence detection for carrier tracking
[NASA-CASE-NPO-11921-1] c 32 N74-30523
PHASE CONTRAST
Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037
PHASE CONTROL
Rapid sync acquisition system Patent
[NASA-CASE-NPO-10214] c 10 N71-26577
Wideband VCO with high phase stability Patent
[NASA-CASE-XLA-03893] c 10 N71-27271
Induction motor control system with voltage controlled oscillator circuit
[NASA-CASE-MFS-21465-1] c 10 N73-32145
System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c 33 N75-19519
Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349
Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345
System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516
Method and apparatus for self-calibration and phasing of array antenna
[NASA-CASE-NPO-15920-1] c 33 N85-21493
PHASE DEMODULATORS
Phase demodulation system with two phase locked loops Patent
[NASA-CASE-XNP-00777] c 10 N71-19469
Linear phase demodulator including a phase locked loop with auxiliary feedback loop
[NASA-CASE-GSC-12018-1] c 33 N77-14334
PHASE DETECTORS
Phase detector assembly Patent
[NASA-CASE-XMF-00701] c 09 N70-40272
Bi-polar phase detector and corrector for split phase PCM data signals Patent
[NASA-CASE-XGS-01590] c 07 N71-12392
High speed phase detector Patent
[NASA-CASE-XNP-01306-2] c 09 N71-24596
Phase protection system for ac power lines
[NASA-CASE-MSC-17832-1] c 33 N74-14956
Low distortion automatic phase control circuit --- voltage controlled phase shifter
[NASA-CASE-MFS-21671-1] c 33 N74-22885
Correlation type phase detector --- with time correlation integrator for frequency multiplexed signals
[NASA-CASE-GSC-11744-1] c 33 N75-26243
Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c 35 N75-27331
Frequency discriminator and phase detector circuit
[NASA-CASE-NPO-11515-1] c 33 N77-13315
Phase substitution of spare converter for a failed one of parallel phase staggered converters
[NASA-CASE-NPO-13812-1] c 33 N77-30365
Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c 33 N79-11313
High stability buffered phase comparator
[NASA-CASE-GSC-12645-1] c 33 N84-16454
Three phase power factor controller
[NASA-CASE-MFS-25535-2] c 33 N84-22885
Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] c 32 N84-27952
Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N84-27975
Double reference pulsed phase locked loop (DRP-2L-2)
[NASA-CASE-LAR-13310-1] c 32 N85-21441
Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143
PHASE DEVIATION
System for stabilizing cable phase delay utilizing a coaxial cable under pressure
[NASA-CASE-NPO-13138-1] c 33 N74-17927
PHASE LOCK DEMODULATORS
Compensating bandwidth switching transients in an amplifier circuit Patent
[NASA-CASE-XNP-01107] c 10 N71-28859
PHASE LOCKED SYSTEMS
Automatic acquisition system for phase-lock loop
[NASA-CASE-XGS-04994] c 09 N69-21543
Phase-locked loop with sideband rejecting properties Patent
[NASA-CASE-XNP-02723] c 07 N70-41680
Automatic frequency discriminators and control for a phase-lock loop providing frequency preset capabilities Patent
[NASA-CASE-XMF-08665] c 10 N71-19467
Burst synchronization detection system Patent
[NASA-CASE-XMS-05605-1] c 10 N71-19468
Phase demodulation system with two phase locked loops Patent
[NASA-CASE-XNP-00777] c 10 N71-19469
Diversity receiving system with diversity phase lock Patent
[NASA-CASE-XGS-01222] c 10 N71-20841
Phase locked phase modulator including a voltage controlled oscillator Patent
[NASA-CASE-XNP-05382] c 10 N71-23544
Video sync processor Patent
[NASA-CASE-KSC-10002] c 10 N71-25865
Transition tracking bit synchronization system
[NASA-CASE-NPO-10844] c 07 N72-20140
Data-aided carrier tracking loops
[NASA-CASE-NPO-11282] c 10 N73-16205
Filter for third order phase locked loops
[NASA-CASE-NPO-11941-1] c 10 N73-27171
Receiver with an improved phase lock loop in a multichannel telemetry system with suppressed carrier
[NASA-CASE-NPO-11593-1] c 07 N73-28012
Automatic carrier acquisition system
[NASA-CASE-NPO-11628-1] c 07 N73-30113
Digital second-order phase-locked loop
[NASA-CASE-NPO-11905-1] c 33 N74-12887
Phase-locked servo system --- for synchronizing the rotation of slip ring assembly
[NASA-CASE-MFS-22073-1] c 33 N75-13139
Low speed phaselock speed control system --- for brushless dc motor
[NASA-CASE-GSC-11127-1] c 09 N75-24758
Digital phase-locked loop
[NASA-CASE-GSC-11623-1] c 33 N75-25040
Telemetry synchronizer
[NASA-CASE-GSC-11868-1] c 17 N76-22245
Linear phase demodulator including a phase locked loop with auxiliary feedback loop
[NASA-CASE-GSC-12018-1] c 33 N77-14334
Frequency translating phase conjugation circuit for active retrodirective antenna array --- microwave transmission
[NASA-CASE-NPO-14536-1] c 32 N81-14185
PN lock indicator for dithered PN code tracking loop
[NASA-CASE-NPO-14435-1] c 33 N81-33405
Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539
Pulsed phase locked loop strain monitor --- voltage controlled oscillators
[NASA-CASE-LAR-12772-1] c 33 N83-16626
Apparatus and method for tracking the fundamental frequency of an analog input signal
[NASA-CASE-ARC-11367-1] c 33 N83-21238
Processing circuit with asymmetry corrector and convolutional encoder for digital data
[NASA-CASE-MSC-20187-1] c 33 N85-20249
Double reference pulsed phase locked loop (DRP-2L-2)
[NASA-CASE-LAR-13310-1] c 32 N85-21441
Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N86-20780
PHASE MODULATION
Phase quadrature-plural channel data transmission system Patent
[NASA-CASE-XAC-06302] c 08 N71-19763
Adaptive tracking notch filter system Patent
[NASA-CASE-XMF-01892] c 10 N71-22986
Phase locked phase modulator including a voltage controlled oscillator Patent
[NASA-CASE-XNP-05382] c 10 N71-23544
Phase multiplying electronic scanning system Patent
[NASA-CASE-NPO-10302] c 10 N71-26142
Phase modulator Patent
[NASA-CASE-MSC-13201-1] c 07 N71-28429
Two carrier communication system with single transmitter
[NASA-CASE-NPO-11548] c 07 N73-26118
Decision feedback loop for tracking a polyphase modulated carrier
[NASA-CASE-NPO-13103-1] c 32 N74-20811
Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c 32 N75-24981
Phase modulating with odd and even finite power series of a modulating signal
[NASA-CASE-LAR-11607-1] c 32 N77-14292
Swept group delay measurement
[NASA-CASE-NPO-13909-1] c 33 N78-25319
Quadraphase demodulation
[NASA-CASE-GSC-12137-1] c 33 N78-32338
Closed Loop solar array-ion thruster system with power control circuitry
[NASA-CASE-LEW-12780-1] c 20 N79-20179
Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29308
Doppler radar having phase modulation of both transmitted and reflected return signals
[NASA-CASE-MSC-18675-1] c 32 N84-22820
Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] c 32 N84-27952
Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590
PHASE SHIFT
Bi-polar phase detector and corrector for split phase PCM data signals Patent
[NASA-CASE-XGS-01590] c 07 N71-12392
Electromagnetic polarization systems and methods Patent
[NASA-CASE-GSC-10021-1] c 09 N71-24595
Method and apparatus for frequency-division multiplex communications by digital phase shift of carrier
[NASA-CASE-NPO-11338] c 08 N72-25208
Time domain phase measuring apparatus
[NASA-CASE-GSC-12228-1] c 33 N79-10338
Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432
Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-163371-1] c 33 N85-20251
Double reference pulsed phase locked loop (DRP-2L-2)
[NASA-CASE-LAR-13310-1] c 32 N85-21441
JFET reflection socillator
[NASA-CASE-GSC-12555-1] c 33 N86-19515
PHASE SHIFT CIRCUITS
Gyrator type circuit Patent
[NASA-CASE-XAC-10608-1] c 09 N71-12517
Phase shift circuit apparatus
[NASA-CASE-ARC-10269-1] c 10 N72-16172
Continuously variable voltage controlled phase shifter
[NASA-CASE-NPO-11129] c 09 N72-33204
Induction motor control system with voltage controlled oscillator circuit
[NASA-CASE-MFS-21465-1] c 10 N73-32145
Low distortion automatic phase control circuit --- voltage controlled phase shifter
[NASA-CASE-MFS-21671-1] c 33 N74-22885
Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179
Fiber optic transmission line stabilization apparatus and method
[NASA-CASE-NPO-15036-1] c 74 N82-19029
PHASE SHIFT KEYING
Decision feedback loop for tracking a polyphase modulated carrier
[NASA-CASE-NPO-13103-1] c 32 N74-20811
Differential phase shift keyed communication system
[NASA-CASE-MSC-14065-1] c 32 N74-26654
Differential phase shift keyed signal resolver
[NASA-CASE-MSC-14066-1] c 33 N74-27705
Unbalanced quadriphase demodulator
[NASA-CASE-MSC-14840-1] c 32 N77-24331
Method and apparatus for quadriphase-shift-key and linear phase modulation
[NASA-CASE-NPO-14444-1] c 33 N81-15192
Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570
PHASE SWITCHING INTERFEROMETERS
Radar antenna system for acquisition and tracking Patent
[NASA-CASE-XMS-09610] c 07 N71-24625
PHASE TRANSFORMATIONS
Slug flow magnetohydrodynamic generator
[NASA-CASE-XLE-02083] c 03 N69-39983
Fluid dispensing apparatus and method Patent
[NASA-CASE-XLE-01182] c 27 N71-15635
Ten degree Kelvin hydride refrigerator
[NASA-CASE-NPO-16393-1-CU] c 31 N85-29084
PHASE VELOCITY
Ultrasonic calibration device --- for producing changes in acoustic attenuation and phase velocity
[NASA-CASE-LAR-11435-1] c 35 N76-15432
PHASED ARRAYS
Phase control circuits using frequency multiplications for phased array antennas
[NASA-CASE-ERC-10285] c 10 N73-16206

Phased array antenna control
[NASA-CASE-MSC-14939-1] c 32 N79-11264
Phase conjugation method and apparatus for an active retrodirective antenna array
[NASA-CASE-NPO-13641-1] c 32 N79-24210
Coaxial phased array antenna
[NASA-CASE-MSC-16800-1] c 32 N81-14187
Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558
Method and apparatus for self-calibration and phasing of array antenna
[NASA-CASE-NPO-15920-1] c 33 N85-21493

PHENOLIC RESINS
Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260

PHENOLS
Novel polymers and method of preparing same
[NASA-CASE-NPO-10998-1] c 06 N73-32029
Method and device for the detection of phenol and related compounds --- in an electrochemical cell
[NASA-CASE-LEW-12513-1] c 25 N79-22235

PHENYLS
The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312

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[NASA-CASE-XKS-10804] c 05 N71-24606
Vibrophonocardiograph Patent
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PHOSPHATES
Thermal control coating Patent
[NASA-CASE-XLA-01995] c 18 N71-23047

PHOSPHAZENE
Process for the preparation of polycarboranylphosphazenes --- thermal insulation
[NASA-CASE-ARC-11176-2] c 27 N81-27271
Carboranylcyclotriphosphazenes and their polymers --- thermal insulation
[NASA-CASE-ARC-11176-1] c 27 N82-18389
Carboranylmethylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750
Maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] c 23 N86-19376

PHOSPHINES
Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-1] c 27 N78-32256
Compound oxidized styrylphosphine --- flame resistant vinyl polymers
[NASA-CASE-MSC-14903-2] c 27 N80-10358
Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-3] c 27 N80-24438
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854
Elastomer-modified phosphorus-containing imide resins
[NASA-CASE-ARC-11400-1] c 27 N84-14322
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-2] c 27 N85-21347

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Metal containing polymers from cyclic tetrameric phenylphosphonitrilamides Patent
[NASA-CASE-HQN-10364] c 06 N71-27363

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[NASA-CASE-ERC-10468] c 09 N72-20206
Thin wire pointing method
[NASA-CASE-NPO-15789-1] c 31 N83-19947

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Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019
Fire-resistant phosphorus containing polyimides and copolyimides
[NASA-CASE-ARC-11522-2] c 27 N85-34280

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Phosphorus-containing bisimide resins
[NASA-CASE-ARC-11321-1] c 27 N81-27272
The 1-(diorganooxphosphonyl)methyl-2, 4- and -2, 6-dinitro and diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N86-20499

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[NASA-CASE-ARC-11176-2] c 27 N81-27271
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[NASA-CASE-ARC-11176-1] c 27 N82-18389
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[NASA-CASE-ARC-11368-2] c 27 N85-21347

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[NASA-CASE-NPO-14363-1] c 39 N81-25400

PHOTOCATHODES
Photoelectric energy spectrometer Patent
[NASA-CASE-XNP-04161] c 14 N71-15599
III-V photocathode with nitrogen doping for increased quantum efficiency
[NASA-CASE-NPO-12134-1] c 33 N76-31409

PHOTOCHEMICAL REACTIONS
Apparatus for photon excited catalysis
[NASA-CASE-NPO-13566-1] c 25 N77-32255
Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148
Vitra-violet process for producing flame resistant polyamides and products produced thereby --- protective clothing for high oxygen environments
[NASA-CASE-MSC-16074-1] c 27 N80-26446

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Two-dimensional radiant energy array computers and computing devices
[NASA-CASE-GSC-11839-1] c 60 N77-14751
Plural output optimetric sample cell and analysis system
[NASA-CASE-NPO-10233-1] c 74 N78-33913
Photocapacitive image converter
[NASA-CASE-LAR-12513-1] c 44 N82-32841

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Photoetching of metal-oxide layers
[NASA-CASE-ERC-10108] c 06 N72-21094

PHOTOCONDUCTORS
Electronic divider and multiplier using photocells Patent
[NASA-CASE-XFR-05637] c 09 N71-19480

PHOTODIODES
Shock isolator for operating a diode laser on a closed-cycle refrigerator
[NASA-CASE-GSC-12297-1] c 37 N79-28549
Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139

PHOTODISSOCIATION
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[NASA-CASE-LEW-12465-1] c 25 N78-25148

PHOTOELECTRIC CELLS
Sun tracker with rotatable plane-parallel plate and two photocells Patent
[NASA-CASE-XGS-01159] c 21 N71-10678
Method of and device for determining the characteristics and flux distribution of micrometeorites --- scanning puncture holes in sheet material with photoelectric cell
[NASA-CASE-NPO-12127-1] c 91 N74-13130
Noncontacting method for measuring angular deflection
[NASA-CASE-LAR-12178-1] c 74 N80-21138
Photoelectric detection system --- manufacturing automation
[NASA-CASE-MFS-23776-1] c 33 N82-28545

PHOTOELECTRIC EFFECT
Photoelectric energy spectrometer Patent
[NASA-CASE-XNP-04161] c 14 N71-15599

PHOTOELECTRIC EMISSION
High resolution threshold photoelectron spectroscopy by electron attachment
[NASA-CASE-NPO-14078-1] c 72 N80-14877

PHOTOELECTRIC MATERIALS
Light radiation direction indicator with a baffle of two parallel grids
[NASA-CASE-XNP-03930] c 14 N69-24331
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[NASA-CASE-NPO-11432-2] c 35 N74-15090
Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019
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[NASA-CASE-NPO-16155-1] c 44 N85-30475

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[NASA-CASE-LAR-12958-1] c 44 N84-23019

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[NASA-CASE-NPO-15458-1] c 25 N84-12262
Method for determining the point of zero zeta potential of semiconductor
[NASA-CASE-LAR-12893-1] c 76 N85-30923

PHOTOELECTRON SPECTROSCOPY
Photoelectron spectrometer with means for stabilizing sample surface potential
[NASA-CASE-NPO-13772-1] c 35 N78-10429
High resolution threshold photoelectron spectroscopy by electron attachment
[NASA-CASE-NPO-14078-1] c 72 N80-14877
Low intensity X-ray and gamma-ray spectrometer
[NASA-CASE-GSC-12587-1] c 35 N82-32659

PHOTOGRAPHIC EMULSIONS
Method for applying photographic resists to otherwise incompatible substrates
[NASA-CASE-MSC-18107-1] c 27 N81-25209
Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432

PHOTOGRAPHIC EQUIPMENT
Apparatus and method for protecting a photographic device Patent
[NASA-CASE-NPO-10174] c 14 N71-18465
Method of treating the surface of a glass member
[NASA-CASE-GSC-12110-1] c 27 N77-32308
System for forming a quadrified image comprising angularly related fields of view of a three dimensional object
[NASA-CASE-NPO-14219-1] c 74 N81-17886

PHOTOGRAPHIC FILM
Film feed camera having a detent means Patent
[NASA-CASE-LAR-10686] c 14 N71-28935
Exposure interlock for oscilloscope cameras
[NASA-CASE-LAR-10319-1] c 14 N73-32322
Optical noise suppression device and method --- laser light exposing film
[NASA-CASE-MSC-12640-1] c 74 N76-31998
Selective image area control of X-ray film exposure density
[NASA-CASE-NPO-13808-1] c 35 N78-15461
Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432
A method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N86-20128

PHOTOGRAPHIC MEASUREMENT
Means and method of measuring viscoelastic strain Patent
[NASA-CASE-XNP-01153] c 32 N71-17645
Impact measuring technique
[NASA-CASE-LAR-10913] c 14 N72-16282
TV fatigue crack monitoring system
[NASA-CASE-LAR-11490-1] c 39 N78-16387

PHOTOGRAPHIC PROCESSING
Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c 74 N77-28932
Method of obtaining intensified image from developed photographic films and plates
[NASA-CASE-MFS-23461-1] c 35 N79-10389

PHOTOGRAPHIC PROCESSING EQUIPMENT
Drying apparatus for photographic sheet material
[NASA-CASE-GSC-11074-1] c 14 N73-28489

PHOTOGRAPHIC RECORDING
Method of obtaining permanent record of surface flow phenomena Patent
[NASA-CASE-XLA-01353] c 14 N70-41366
Focused image holography with extended sources Patent
[NASA-CASE-ERC-10019] c 16 N71-15551
Recording and reconstructing focused image holograms Patent
[NASA-CASE-ERC-10017] c 16 N71-15567
Method and means for recording and reconstructing holograms without use of a reference beam Patent
[NASA-CASE-ERC-10020] c 16 N71-26154
Multiple image storing system for high speed projectile holography
[NASA-CASE-MFS-20596] c 14 N72-17324
Phototropic composition of matter
[NASA-CASE-XGS-03736] c 14 N72-22443
Method for determining thermo-physical properties of specimens --- photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c 25 N74-18551

PHOTOGRAPHY
System for forming a quadrified image comprising angularly related fields of view of a three dimensional object
[NASA-CASE-NPO-14219-1] c 74 N81-17886
Photorefractor ocular screening system
[NASA-CASE-MFS-26011-1SB] c 52 N85-20639

PHOTOIONIZATION
A multichannel photoionization chamber for absorption analysis Patent
[NASA-CASE-ERC-10044-1] c 14 N71-27090

PHOTOLYSIS
Solar photolysis of water
[NASA-CASE-NPO-13675-1] c 44 N77-32580
Solar photolysis of water
[NASA-CASE-NPO-14126-1] c 44 N79-11470

PHOTOMAPPING
Window defect planar mapping technique
[NASA-CASE-MSC-19442-1] c 74 N77-10899

PHOTOMASKS
Method for applying photographic resists to otherwise incompatible substrates
[NASA-CASE-MSC-18107-1] c 27 N81-25209
PHOTOMECHANICAL EFFECT
Photomechanical transducer
[NASA-CASE-NPO-14363-1] c 39 N81-25400
PHOTOMETERS
Interferometer direction sensor Patent
[NASA-CASE-NPO-10320] c 14 N71-17655
Method and device for determining battery state of charge Patent
[NASA-CASE-NPO-10194] c 03 N71-20407
Light position locating system Patent
[NASA-CASE-XNP-01059] c 23 N71-21821
Fluid flow meter with comparator reference means Patent
[NASA-CASE-XGS-01331] c 14 N71-22996
Two color horizon sensor
[NASA-CASE-ERC-10174] c 14 N72-25409
Infrared detectors
[NASA-CASE-LAR-10728-1] c 14 N73-12445
Chromato-fluorographic drug detector --- device for detecting and recording fluorescent properties of materials
[NASA-CASE-ARC-10633-1] c 25 N74-26947
The 2 deg/90 deg laboratory scattering photometer --- particulate refractivity in hydrosols
[NASA-CASE-GSC-12088-1] c 74 N78-13874
Magneto-optic detection system with noise cancellation
[NASA-CASE-NPO-11954-1] c 35 N78-29421
PHOTOMICROGRAPHY
Stereo photomicrography system
[NASA-CASE-LAR-10176-1] c 14 N72-20380
Hand-held photomicroscope
[NASA-CASE-ARC-10468-1] c 14 N73-33361
Method of examining microcircuit patterns
[NASA-CASE-NPO-16299-1] c 33 N85-20250
PHOTOMULTIPLIER TUBES
Canopus detector including automotive gain control of photomultiplier tube Patent
[NASA-CASE-XNP-03914] c 21 N71-10771
Electronic divider and multiplier using photocells Patent
[NASA-CASE-XFR-05637] c 09 N71-19480
Coincidence apparatus for detecting particles
[NASA-CASE-XLA-07813] c 14 N72-17328
Method and apparatus for mapping the sensitivity of the face of a photodetector specifically a PMT
[NASA-CASE-LAR-10320-1] c 09 N72-23172
Light direction sensor
[NASA-CASE-NPO-11201] c 14 N72-27409
Photomultiplier circuit including means for rapidly reducing the sensitivity thereof --- and protection from radiation damage
[NASA-CASE-ARC-10593-1] c 33 N74-27682
PHOTON BEAMS
Apparatus for photon excited catalysis
[NASA-CASE-NPO-13566-1] c 25 N77-32255
PHOTON-ELECTRON INTERACTION
Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] c 35 N84-33767
PHOTONS
Solar cell collector
[NASA-CASE-LEW-12552-1] c 44 N78-25527
Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] c 35 N84-33767
Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N85-30779
PHOTOSENSITIVITY
Photosensitive device to detect bearing deviation Patent
[NASA-CASE-XNP-00438] c 21 N70-35089
Solar optical telescope dome control system Patent
[NASA-CASE-MSC-10966] c 14 N71-19568
Method and apparatus for mapping the sensitivity of the face of a photodetector specifically a PMT
[NASA-CASE-LAR-10320-1] c 09 N72-23172
Holography utilizing surface plasmon resonances
[NASA-CASE-MFS-22040-1] c 35 N74-26946
Apparatus for calibrating an image dissector tube
[NASA-CASE-MFS-22208-1] c 33 N75-26244
Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826
PHOTOTRANSISTORS
Phototransistor imaging system
[NASA-CASE-MFS-20809] c 23 N73-13660
Phototransistor
[NASA-CASE-MFS-20407] c 09 N73-19235
PHOTOTROPISM
Phototropic composition of matter
[NASA-CASE-XGS-03736] c 14 N72-22443
PHOTOVISCOELASTICITY
Means and method of measuring viscoelastic strain Patent
[NASA-CASE-XNP-01153] c 32 N71-17645
PHOTOVOLTAIC CELLS
Plurality of photosensitive cells on a pyramidical base for planetary trackers
[NASA-CASE-XNP-04180] c 07 N69-39736
Light sensitive digital aspect sensor Patent
[NASA-CASE-XGS-00359] c 14 N70-34158
Method of using photovoltaic cell using poly-N-vinylcarbazole complex Patent
[NASA-CASE-NPO-10373] c 03 N71-18698
Use of thin film light detector
[NASA-CASE-NPO-11432-2] c 35 N74-15090
Photovoltaic cell array
[NASA-CASE-MFS-22458-1] c 44 N77-10635
Solar cells having integral collector grids
[NASA-CASE-LEW-12819-1] c 44 N79-11467
Double-sided solar cell package
[NASA-CASE-NPO-14199-1] c 44 N79-25482
Method of construction of a multi-cell solar array
[NASA-CASE-MFS-23540-1] c 44 N79-26475
Solar cell with improved N-region contact and method of forming the same
[NASA-CASE-NPO-14205-1] c 44 N79-31752
Method of fabricating a photovoltaic module of a substantially transparent construction
[NASA-CASE-NPO-14303-1] c 44 N80-18550
Copper doped polycrystalline silicon solar cell
[NASA-CASE-NPO-14670-1] c 44 N81-19558
Efficiency of silicon solar cells containing chromium
[NASA-CASE-NPO-15179-1] c 44 N82-26777
Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764
Heat transparent high intensity high efficiency solar cell
[NASA-CASE-LEW-12892-1] c 44 N83-14692
Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311
Method of making macrocrystalline or single crystal semiconductive material and products produced thereby --- epitaxial substrates using low melting materials for photovoltaic cells
[NASA-CASE-NPO-15904-1] c 76 N83-21993
Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232
Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] c 76 N84-35113
Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] c 44 N85-30475
Thermionic photovoltaic energy converter
[NASA-CASE-LEW-14077-1] c 44 N85-34441
GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150
PHOTOVOLTAIC CONVERSION
Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019
PHOTOVOLTAIC EFFECT
System for improving signal-to-noise ratio of a communication signal Patent Application
[NASA-CASE-MSC-12259-1] c 07 N70-12616
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[NASA-CASE-NPO-11432-2] c 35 N74-15090
Thermionic photovoltaic energy converter
[NASA-CASE-LEW-14077-1] c 44 N85-34441
PHTHALATES
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[NASA-CASE-NPO-16103-1] c 27 N85-29043
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Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] c 27 N84-27884
Phthalocyanine polymers
[NASA-CASE-ARC-11413-1] c 27 N85-21348
Metal (2) 4,4',4',4'' phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281
Metal phthalocyanine intermediates for the preparation of polymers
[NASA-CASE-ARC-11405-2] c 27 N86-19455
Process for preparing phthalocyanine polymers
[NASA-CASE-ARC-11511-2] c 27 N86-19461
PHYSICAL EXERCISE
Restraint system for ergometer
[NASA-CASE-MFS-21046-1] c 14 N73-27377
Tilting table for ergometer and for other biomedical devices
[NASA-CASE-MFS-21010-1] c 05 N73-30078
Manual actuator --- for spacecraft exercising machines
[NASA-CASE-MFS-21481-1] c 37 N74-18127
Therapeutic hand exerciser
[NASA-CASE-LAR-11667-1] c 52 N76-19785
PHYSICAL PROPERTIES
Polyurethanes of fluorine containing polycarbonates
[NASA-CASE-MFS-10512] c 06 N73-30099
System for monitoring physical characteristics of fluids
[NASA-CASE-NPO-15400-1] c 34 N83-31993
PHYSIOLOGICAL EFFECTS
Restraint torso for a pressurized suit
[NASA-CASE-MSC-12397-1] c 05 N72-25119
PHYSIOLOGICAL TESTS
Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234
Medical subject monitoring systems --- multichannel monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757
PHYSIOLOGY
Phonocardiograph transducer Patent
[NASA-CASE-XMS-05365] c 14 N71-22993
Method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c 51 N76-29891
PIERCING
Pressurized cell micrometeoroid detector Patent
[NASA-CASE-XLA-00936] c 14 N71-14996
PIEZOELECTRIC CRYSTALS
Miniature stress transducer Patent
[NASA-CASE-XNP-02983] c 14 N71-21091
Ultra-stable oscillator with complementary transistors
[NASA-CASE-GSC-11513-1] c 33 N74-20862
CDS solid state phase insensitive ultrasonic transducer --- annealing dadmium sulfide crystals
[NASA-CASE-LAR-12304-1] c 35 N80-20559
PIEZOELECTRIC TRANSDUCERS
Force transducer Patent
[NASA-CASE-XAC-01101] c 14 N70-41957
Microbalance including crystal oscillators for measuring contaminates in a gas system Patent
[NASA-CASE-NPO-10144] c 14 N71-17701
Phonocardiograph transducer Patent
[NASA-CASE-XMS-05365] c 14 N71-22993
Semiconductor transducer device
[NASA-CASE-ERC-10087-2] c 14 N72-31446
Length mode piezoelectric ultrasonic transducer for inspection of solid objects
[NASA-CASE-MSC-19672-1] c 38 N79-14398
Piezoelectric deicing device
[NASA-CASE-LEW-13773-2] c 33 N86-20671
PIEZOELECTRICITY
Missile stage separation indicator and stage initiator Patent
[NASA-CASE-XLA-00791] c 03 N70-39930
Piezoelectric pump Patent
[NASA-CASE-XNP-05429] c 26 N71-21824
Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334
Piezoelectric composite materials
[NASA-CASE-LEW-12582-1] c 76 N83-34796
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Miniature stress transducer Patent
[NASA-CASE-XNP-02983] c 14 N71-21091
Transverse piezoresistance and pinch effect electromechanical transducers Patent
[NASA-CASE-ERC-10088] c 26 N71-25490
PIGMENTS
Stabilized zinc oxide coating compositions Patent
[NASA-CASE-XMF-07770-2] c 18 N71-26772
PILOT TRAINING
Controlled visibility device for an aircraft Patent
[NASA-CASE-XFR-04147] c 11 N71-10748
Kinesthetic control simulator --- for pilot training
[NASA-CASE-LAR-10276-1] c 09 N75-15662
PILOTS (PERSONNEL)
System for indicating direction of intruder aircraft
[NASA-CASE-ERC-10226-1] c 14 N73-16483
PINCH EFFECT
Toggle mechanism for pinching metal tubes
[NASA-CASE-GSC-12274-1] c 37 N79-28550
PINHOLE CAMERAS
Three-dimensional and tomographic imaging device for X-ray and gamma-ray emitting objects
[NASA-CASE-GSC-12851-1] c 35 N85-30281
PINS
Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c 15 N69-27505
Turbo-machine blade vibration damper Patent
[NASA-CASE-XLE-00155] c 28 N71-29154
Safety-type locking pin
[NASA-CASE-MFS-18495] c 15 N72-11385
Self-locking double retention redundant full pin release
[NASA-CASE-NPO-16233-1] c 37 N86-20801
PINTLES
Metal valve pintle with encapsulated elastomeric body Patent
[NASA-CASE-MSC-12116-1] c 15 N71-17648

PIPE FLOW
Flat-plate heat pipe
[NASA-CASE-GSC-11998-1] c 34 N77-32413
Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] c 34 N85-29180
Fluidic momentum controller
[NASA-CASE-MSC-20906-1] c 18 N86-19344
PIPELINES
Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937
Advanced vapor supply manifold
[NASA-CASE-LAR-13259-1] c 37 N86-20800
PIPELINING (COMPUTERS)
Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651
PIPES (TUBES)
Device for determining the accuracy of the flare on a flared tube
[NASA-CASE-XKS-03495] c 14 N69-39785
Piping arrangement through a double chamber structure
[NASA-CASE-XNP-08882] c 15 N69-39935
Foldable conduit Patent
[NASA-CASE-XLE-00620] c 32 N70-41579
Thermobulb mount Patent
[NASA-CASE-NPO-10158] c 33 N71-16356
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114] c 15 N71-17650
Sealed separable connection Patent
[NASA-CASE-NPO-10064] c 15 N71-17693
Electrical switching device Patent
[NASA-CASE-NPO-10037] c 09 N71-19610
Tube dimpling tool Patent
[NASA-CASE-XMS-06876] c 15 N71-21536
Plasma device feed system Patent
[NASA-CASE-XLE-02902] c 25 N71-21694
Spin forming tubular elbows Patent
[NASA-CASE-XMF-01083] c 15 N71-22723
Portable milling tool Patent
[NASA-CASE-XMF-03511] c 15 N71-22799
Internal flare angle gauge Patent
[NASA-CASE-XMF-04415] c 14 N71-24693
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-3] c 15 N71-24865
Weld preparation machine Patent
[NASA-CASE-XKS-07953] c 15 N71-26134
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-2] c 15 N71-26148
Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
Tube fabricating process
[NASA-CASE-LAR-10203-1] c 15 N72-16330
Torsional disconnect unit
[NASA-CASE-NPO-10704] c 15 N72-20445
Open type urine receptacle
[NASA-CASE-MSC-12324-1] c 05 N72-22093
Method for measuring cutaneous sensory perception
[NASA-CASE-MSC-13609-1] c 05 N72-25122
Low mass truss structure
[NASA-CASE-LAR-10546-1] c 11 N72-25287
Honeycomb panels formed of minimal surface periodic tubule layers
[NASA-CASE-ERC-10364] c 18 N72-25540
Honeycomb core structures of minimal surface tubule sections
[NASA-CASE-ERC-10363] c 18 N72-25541
Method for distillation of liquids
[NASA-CASE-XNP-08124-2] c 06 N73-13129
Cable restraint
[NASA-CASE-LAR-10129-1] c 15 N73-25512
Method of fabricating a twisted composite superconductor
[NASA-CASE-LEW-11015] c 26 N73-32571
Open tube guideway for high speed air cushioned vehicles
[NASA-CASE-LAR-10256-1] c 85 N74-34672
Method for fabricating a mass spectrometer inlet leak
[NASA-CASE-GSC-12077-1] c 35 N77-24455
Precision heat forming of tetrafluoroethylene tubing
[NASA-CASE-MSC-18430-1] c 37 N82-24491
Open ended tubing cutters
[NASA-CASE-MSC-18538-1] c 37 N82-26672
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N84-28085
Improved fluid flow meter for measuring the rate of fluid flow in a conduit
[NASA-CASE-MFS-28030-1] c 35 N85-30286
Fluid leak indicator
[NASA-CASE-MSC-20783-1] c 35 N86-20756
Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-20802
Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MSC-20857-1] c 37 N86-20807
PISTON ENGINES
Stirling cycle engine and refrigeration systems
[NASA-CASE-NPO-13613-1] c 37 N76-29590
Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370
Solar engine
[NASA-CASE-LAR-12148-1] c 44 N82-24640
Stirling cycle cryogenic cooler
[US-PATENT-4,389,849] c 44 N83-28574
PISTONS
Automatic pump Patent
[NASA-CASE-XNP-04731] c 15 N71-24042
Firefly pump-metering system
[NASA-CASE-GSC-10218-1] c 15 N72-21465
Collapsible pistons
[NASA-CASE-MSC-13789-1] c 11 N73-32152
Airflow control system for supersonic inlets
[NASA-CASE-LEW-11188-1] c 02 N74-20646
Free-piston regenerative hot gas hydraulic engine
[NASA-CASE-LEW-12274-1] c 37 N80-31790
Power control for hot gas engines
[NASA-CASE-NPO-14220-1] c 37 N81-14318
Multiple plate hydrostatic viscous damper
[NASA-CASE-LEW-12445-1] c 37 N81-22360
Stirling cycle cryogenic cooler --- magnetically suspended pistons
[NASA-CASE-GSC-12697-1] c 31 N82-11312
Gas-to-hydraulic power converter
[NASA-CASE-MSC-18794-1] c 44 N83-14693
Centrifugal-reciprocating compressor
[NASA-CASE-NPO-14597-2] c 37 N84-28081
Lightweight piston
[NASA-CASE-LAR-13150-1] c 24 N85-28975
PITCH (INCLINATION)
Reverse pitch fan with divided splitter
[NASA-CASE-LEW-12760-1] c 07 N77-17059
Velocity vector control system augmented with direct lift control
[NASA-CASE-LAR-12268-1] c 08 N81-24106
Pitch attitude stabilization system utilizing engine pressure ratio feedback signals
[NASA-CASE-LAR-12562-1] c 08 N81-26152
PIVOTS
Tension measurement device Patent
[NASA-CASE-XMS-04545] c 15 N71-22878
Thumb actuated two axis controller
[NASA-CASE-ARC-11372-1] c 08 N83-12098
Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] c 37 N84-12492
Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605
PLANAR STRUCTURES
Window defect planar mapping technique
[NASA-CASE-MSC-19442-1] c 74 N77-10899
Method and apparatus for preparing multiconductor cable with flat conductors
[NASA-CASE-MFS-10946-1] c 31 N79-21226
High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764
PLANE WAVES
Multiple reflection conical microwave antenna
[NASA-CASE-NPO-11661] c 07 N73-14130
PLANETARY ATMOSPHERES
Method of planetary atmospheric investigation using a split-trajectory dual flyby mode Patent
[NASA-CASE-XAC-08494] c 30 N71-15990
Flow field simulation Patent
[NASA-CASE-LAR-11138] c 12 N71-20436
Ablation sensor Patent
[NASA-CASE-XLA-01791] c 14 N71-22991
PLANETARY GRAVITATION
Impact simulator Patent
[NASA-CASE-XLA-00493] c 11 N70-34786
Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
[NASA-CASE-XNP-00708] c 14 N70-35394
PLANETARY LANDING
Parachute glider Patent
[NASA-CASE-XLA-00898] c 02 N70-36804
Omnidirectional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c 31 N71-16085
PLANETARY ORBITS
Flexible foam erectable space structures Patent
[NASA-CASE-XLA-00686] c 31 N70-34135
Erectable modular space station Patent
[NASA-CASE-XLA-00678] c 31 N70-34296
PLANETARY RADIATION
Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c 21 N71-22880
PLANETARY SURFACES
Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118
PLANTS (BOTANY)
Rotary plant growth accelerating apparatus --- weightlessness
[NASA-CASE-ARC-10722-1] c 51 N75-25503
Molten salt pyrolysis of latex --- synthetic hydrocarbon fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261
Enhancement of in vitro guayule propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045
PLASMA ACCELERATION
Apparatus for increasing ion engine beam density Patent
[NASA-CASE-XLE-00519] c 28 N70-41576
Coaxial high density, hypervelocity plasma generator and accelerator with ionizable metal disc
[NASA-CASE-MFS-20589] c 25 N72-32688
PLASMA ACCELERATORS
Plasma accelerator Patent
[NASA-CASE-XLA-00675] c 25 N70-33267
Continuously operating induction plasma accelerator Patent
[NASA-CASE-XLA-01354] c 25 N70-36946
Crossed-field MHD plasma generator/ accelerator Patent
[NASA-CASE-XLA-03374] c 25 N71-15562
Self-repeating plasma generator having communicating annular and linear arc discharge passages Patent
[NASA-CASE-XLA-03103] c 25 N71-21693
Magnetically controlled plasma accelerator Patent
[NASA-CASE-XLA-00327] c 25 N71-29184
Two stage light gas-plasma projectile accelerator
[NASA-CASE-MFS-22287-1] c 75 N76-14931
PLASMA CONTROL
Superconductive magnetic-field-trapping device
[NASA-CASE-XNP-01185] c 26 N73-28710
Self-energized plasma compressor --- for compressing plasma discharged from coaxial plasma generator
[NASA-CASE-MFS-22145-1] c 75 N75-13625
PLASMA CYLINDERS
Plasma fluidic hybrid display Patent
[NASA-CASE-ERC-10100] c 09 N71-33519
PLASMA DENSITY
Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618
Measurement of plasma temperature and density using radiation absorption
[NASA-CASE-ARC-10598-1] c 75 N74-30156
Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] c 33 N85-21491
PLASMA DIAGNOSTICS
Probes having ring and primary sensor at same potential to prevent collection of stray wall currents in ionized gases
[NASA-CASE-XLE-00690] c 25 N69-39884
Apparatus for measuring conductivity and velocity of plasma utilizing a plurality of sensing coils positioned in the plasma Patent
[NASA-CASE-XAC-05695] c 25 N71-16073
Measurement of plasma temperature and density using radiation absorption
[NASA-CASE-ARC-10598-1] c 75 N74-30156
PLASMA DYNAMICS
Apparatus for measuring conductivity and velocity of plasma utilizing a plurality of sensing coils positioned in the plasma Patent
[NASA-CASE-XAC-05695] c 25 N71-16073
Self-energized plasma compressor --- for compressing plasma discharged from coaxial plasma generator
[NASA-CASE-MFS-22145-1] c 75 N75-13625
PLASMA ENGINES
Plasma device feed system Patent
[NASA-CASE-XLE-02902] c 25 N71-21694
PLASMA GENERATORS
Method and apparatus for producing a plasma Patent
[NASA-CASE-XLA-00147] c 25 N70-34661
Crossed-field MHD plasma generator/ accelerator Patent
[NASA-CASE-XLA-03374] c 25 N71-15562
Coaxial high density, hypervelocity plasma generator and accelerator with ionizable metal disc
[NASA-CASE-MFS-20589] c 25 N72-32688
Self-energized plasma compressor --- for compressing plasma discharged from coaxial plasma generator
[NASA-CASE-MFS-22145-1] c 75 N75-13625
Self-energized plasma compressor
[NASA-CASE-MFS-22145-2] c 75 N76-17951
Continuous plasma laser --- method and apparatus for producing intense, coherent, monochromatic light from low *temperature plasma*
[NASA-CASE-XNP-04167-3] c 36 N77-19416

PLASMA GUNS
Method of making a diffusion bonded refractory coating Patent
[NASA-CASE-XLE-01604-2] c 15 N71-15610
PLASMA JETS
Method of preparing water purification membranes --- polymerization of allyl amine as thin films in plasma discharge
[NASA-CASE-ARC-10643-1] c 25 N75-12087
Combination automatic-starting electrical plasma torch and gas shutoff valve --- for satellite attitude control
[NASA-CASE-XLE-10717] c 37 N75-29426
Plasma cleaning device --- designed for high vacuum environments
[NASA-CASE-MFS-22906-1] c 75 N78-27913
PLASMA LAYERS
Electrostatic plasma modulator for space vehicle re-entry communication Patent
[NASA-CASE-XLA-01400] c 07 N70-41331
Means for communicating through a layer of ionized gases Patent
[NASA-CASE-XLA-01127] c 07 N70-41372
Reentry communication by material addition Patent
[NASA-CASE-XLA-01552] c 07 N71-11284
PLASMA POTENTIALS
Method and apparatus for neutralizing potentials induced on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c 33 N77-10429
PLASMA PROBES
Probes having ring and primary sensor at same potential to prevent collection of stray wall currents in ionized gases
[NASA-CASE-XLE-00690] c 25 N69-39884
Small plasma probe Patent
[NASA-CASE-XLE-02578] c 25 N71-20747
PLASMA PROPULSION
Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
Ring-cusp ion thruster with shell anode
[NASA-CASE-LEW-13881-1] c 20 N85-21256
PLASMA RADIATION
Means for measuring the electron density gradients of the plasma sheath formed around a space vehicle Patent
[NASA-CASE-XLA-06232] c 25 N71-20563
Continuous plasma light source
[NASA-CASE-XNP-04167-2] c 25 N72-24753
PLASMA SHEATHS
Apparatus for measuring electric field strength on the surface of a model vehicle Patent
[NASA-CASE-XLE-02038] c 09 N71-16086
Means for measuring the electron density gradients of the plasma sheath formed around a space vehicle Patent
[NASA-CASE-XLA-06232] c 25 N71-20563
PLASMA SPRAYING
Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00302] c 15 N71-16077
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-2] c 37 N82-26674
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233
PLASMA TEMPERATURE
Measurement of plasma temperature and density using radiation absorption
[NASA-CASE-ARC-10598-1] c 75 N74-30156
PLASMA-ELECTROMAGNETIC INTERACTION
Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13828-1] c 37 N79-11405
PLASMAS (PHYSICS)
Apparatus for measuring conductivity and velocity of plasma utilizing a plurality of sensing coils positioned in the plasma Patent
[NASA-CASE-XAC-05695] c 25 N71-16073
Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] c 33 N85-21491
PLASMONS
Inelastic tunnel diodes
[NASA-CASE-LEW-13833-1] c 33 N85-21492
Solar energy converter using surface plasma waves
[NASA-CASE-LEW-13827-1] c 44 N85-21768
PLASTIC COATINGS
Coating process
[NASA-CASE-XNP-06508] c 18 N69-39895
Apparatus and method for skin packaging articles
[NASA-CASE-MFS-20855] c 15 N73-27405
Silicon nitride coated, plastic covered solar cell
[NASA-CASE-LEW-11496-1] c 44 N77-14580
Oxygen post-treatment of plastic surface coated with plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c 27 N79-18052
Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708
Process for preparing highly optically transparent-colorless armomatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N85-21360
PLASTIC DEFORMATION
Light intensity strain analysis
[NASA-CASE-LAR-10765-1] c 32 N73-20740
Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170
PLASTIC TAPES
Thermocouple tape
[NASA-CASE-LEW-11072-1] c 14 N73-24472
PLASTICIZERS
Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530
Tackifier for addition polyimides containing monoethylphthalate
[NASA-CASE-LAR-12642-1] c 27 N81-29229
Method of bonding plasticized elastomer to metal and articles produced thereby
[NASA-CASE-MFS-25181-1] c 27 N82-24340
Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708
PLASTICS
Method for forming plastic materials Patent
[NASA-CASE-XMS-05516] c 15 N71-17803
Method of making inflatable honeycomb Patent
[NASA-CASE-XLA-03492] c 15 N71-22713
Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
Dielectric molding apparatus Patent
[NASA-CASE-LAR-10121-1] c 15 N71-26721
Radar calibration sphere
[NASA-CASE-XLA-11154] c 07 N72-21117
Molding apparatus --- for thermosetting plastic compositions
[NASA-CASE-LAR-10489-2] c 31 N74-32920
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315
PLATENS
Compression test apparatus
[NASA-CASE-MSC-18723-1] c 35 N83-21312
PLATES (STRUCTURAL MEMBERS)
Foil seal
[NASA-CASE-XLE-05130] c 15 N69-21362
Fifth wheel
[NASA-CASE-FRC-10081-1] c 37 N77-14477
Microwave dichroic plate
[NASA-CASE-GSC-12171-1] c 33 N79-28416
Floating nut retention system
[NASA-CASE-MSC-16938-1] c 37 N80-23653
Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N84-20859
A method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N86-20128
PLATING
Selective plating of etched circuits without removing previous plating Patent
[NASA-CASE-XGS-03120] c 15 N71-24047
Peen plating
[NASA-CASE-GSC-11163-1] c 15 N73-32360
Scanning nozzle plating system --- for etching or plating metals on substrates without masking
[NASA-CASE-NPO-11758-1] c 31 N74-23065
Method for depositing an oxide coating
[NASA-CASE-LEW-13131-1] c 44 N83-10494
PLATINUM
Electrolytic cell structure
[NASA-CASE-LAR-11042-1] c 33 N75-27252
Platinum resistance thermometer circuit
[NASA-CASE-MSC-12327-1] c 35 N77-27368
PLATINUM ALLOYS
Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35338
PLAYBACKS
Method of and means for testing a tape record/playback system
[NASA-CASE-MFS-22671-2] c 35 N77-17426
Thermomagnetic recording and magnetic-optic playback system
[NASA-CASE-NPO-10872-1] c 35 N79-16246
PLENUM CHAMBERS
Air cushion lift pad Patent
[NASA-CASE-MFS-14685] c 31 N71-15689
Gas filter mounting structure
[NASA-CASE-MSC-12297] c 14 N72-23457
Micro-fluid exchange coupling apparatus
[NASA-CASE-ARC-11114-1] c 51 N81-14605
Sonic levitation apparatus
[NASA-CASE-MFS-25828-1] c 71 N84-28568
PLETHYSMOGRAPHY
Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525
Apparatus for determining changes in limb volume
[NASA-CASE-MSC-18759-1] c 52 N83-27578
PLOTTERS
Automated equipotential plotter
[NASA-CASE-NPO-11134] c 09 N72-21246
Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341
PLOTTING
Instrument for measuring potentials on two dimensional electric field plots Patent
[NASA-CASE-XLA-08493] c 10 N71-19421
PLUG NOZZLES
Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c 07 N76-18117
Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873
PLUGS
Rocket chamber leak test fixture
[NASA-CASE-XFR-09479] c 14 N69-27503
Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c 15 N69-27505
Gas regulator Patent
[NASA-CASE-NPO-10298] c 12 N71-17661
Heated porous plug microthrustor
[NASA-CASE-GSC-10640-1] c 28 N72-18766
High temperature penetrator assembly with bayonet plug and ramp-activated lock
[NASA-CASE-MSC-18526-1] c 37 N82-24494
PNEUMATIC CONTROL
Pneumatic system for controlling and actuating pneumatic cyclic devices
[NASA-CASE-XMS-04843] c 03 N69-21469
Pneumatic mirror support system
[NASA-CASE-XLA-03271] c 11 N69-24321
Valve actuator Patent
[NASA-CASE-XHQ-01208] c 15 N70-35409
Quick release hook tape Patent
[NASA-CASE-XMS-10660-1] c 15 N71-25975
Foot pedal operated fluid type exercising device
[NASA-CASE-MSC-11561-1] c 05 N73-32014
Pneumatic load compensating or controlling system
[NASA-CASE-ARC-10907-1] c 37 N75-32465
PNEUMATIC EQUIPMENT
High pressure air valve Patent
[NASA-CASE-MSC-11010] c 15 N71-19485
Inflatable support structure Patent
[NASA-CASE-XLA-01731] c 32 N71-21045
Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089
Zero gravity apparatus Patent
[NASA-CASE-XMF-06515] c 14 N71-23227
Pneumatic amplifier Patent
[NASA-CASE-MSC-12121-1] c 15 N71-27147
Life raft stabilizer
[NASA-CASE-MSC-12393-1] c 02 N73-26006
Airlock
[NASA-CASE-MFS-20922-1] c 18 N74-22136
Pneumatic load compensating or controlling system
[NASA-CASE-ARC-10907-1] c 37 N75-32465
Improved tire/wheel concept --- pneumatic aircraft tire
[NASA-CASE-LAR-11695-2] c 37 N80-18402
Gas-to-hydraulic power converter
[NASA-CASE-MSC-18794-1] c 44 N83-14693
System and method for moving a probe to follow movements of tissue
[NASA-CASE-NPO-15197-1] c 52 N83-25346
Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029
Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443
Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469
POINT SOURCES
Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980
X-ray reflection collimator adapted to focus X-radiation directly on a detector Patent
[NASA-CASE-XHQ-04106] c 14 N70-40240
Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341

POINTING CONTROL SYSTEMS
Rotable accurate reflector system for telscopes Patent
[NASA-CASE-NPO-10468] c 23 N71-33229
All sky pointing attitude control system
[NASA-CASE-ARC-10716-1] c 35 N77-20399
Magnetic suspension and pointing system
[NASA-CASE-LAR-11889-2] c 37 N78-27424
Magnetic suspension and pointing system --- on a carrier vehicle
[NASA-CASE-LAR-11889-1] c 35 N79-26372
Solar tracking system
[NASA-CASE-MFS-23999-1] c 44 N81-24520
POINTS (MATHEMATICS)
Method of and apparatus for generating an interstitial point in a data stream having an even number of data points
[NASA-CASE-MFS-25319-1] c 60 N85-33701
POLAR ORBITS
Cartwheel satellite synchronization system Patent
[NASA-CASE-XGS-05579] c 31 N71-15676
POLARIMETERS
Polarimeter for transient measurement Patent
[NASA-CASE-XNP-08883] c 23 N71-16101
Interferometer-polarimeter
[NASA-CASE-NPO-11239] c 14 N73-12446
POLARITY
Positive dc to negative dc converter Patent
[NASA-CASE-XMF-08217] c 03 N71-23239
Peak polarity selector Patent
[NASA-CASE-FRC-10010] c 10 N71-24862
Precision rectifier with FET switching means Patent
[NASA-CASE-ARC-10101-1] c 09 N71-33109
POLARIZATION (WAVES)
System for interference signal nulling by polarization adjustment
[NASA-CASE-NPO-13140-1] c 32 N75-24982
Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-25278
Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381
POLARIZED ELECTROMAGNETIC RADIATION
Antenna beam-shaping apparatus Patent
[NASA-CASE-XNP-00611] c 09 N70-35219
Parabolic reflector horn feed with spillover correction Patent
[NASA-CASE-XNP-00540] c 09 N70-35382
Antenna feed system for receiving circular polarization and transmitting linear polarization
[NASA-CASE-NPO-14362-1] c 32 N80-16261
Coaxial phased array antenna
[NASA-CASE-MSC-16800-1] c 32 N81-14187
POLARIZED LIGHT
Polarization compensator for optical communications
[NASA-CASE-GSC-11782-1] c 74 N76-30053
Visible and infrared polarization ratio spectroreflectometer
[NASA-CASE-LAR-12285-1] c 35 N80-28687
POLARIZED RADIATION
Microwave limb sounder --- measuring trace gases in the upper atmosphere
[NASA-CASE-NPO-14544-1] c 46 N82-12685
POLARIZERS
Partial polarizer filter
[NASA-CASE-GSC-12225-1] c 74 N79-14891
Wind dynamic range video camera
[NASA-CASE-MFS-25750-1] c 32 N86-20647
POLES
Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N86-20804
POLISHING
Conforming polisher for aspheric surface of revolution Patent
[NASA-CASE-XGS-02884] c 15 N71-22705
Method of forming a sharp edge on an optical device
[NASA-CASE-GSC-12348-1] c 74 N80-24149
POLLUTION CONTROL
System for minimizing internal combustion engine pollution emission
[NASA-CASE-NPO-13402-1] c 37 N76-18457
Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c 37 N77-31497
Supercritical fuel injection system
[NASA-CASE-LEW-12990-1] c 07 N81-29129
Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] c 35 N84-17555
POLLUTION MONITORING
Fluorescence detector for monitoring atmospheric pollutants
[NASA-CASE-NPO-13231-1] c 45 N75-27585
Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656
Indicator providing continuous indication of the presence of a specific pollutant in air
[NASA-CASE-NPO-13474-1] c 45 N76-21742
Method for detecting pollutants --- through chemical reactions and heat treatment
[NASA-CASE-LAR-11405-1] c 45 N76-31714
Automated syringe sampler --- remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407
Solid sorbent air sampler
[NASA-CASE-MSC-20653-1] c 35 N85-20301
POLYAMIDE RESINS
Vitra-violet process for producing flame resistant polyamides and products produced thereby --- protective clothing for high oxygen environments
[NASA-CASE-MSC-16074-1] c 27 N80-26446
Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-2] c 27 N84-22746
Heat resistant protective hand covering
[NASA-CASE-MSC-20261-1] c 54 N84-28484
Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-1] c 27 N85-20123
Process for preparing highly optically transparent-colorless armomatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N85-21360
Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl)methyl-2,4- and 2,6-diaminobenzenes
[NASA-CASE-ARC-11533-1] c 27 N85-21364
POLYBENZIMIDAZOLE
Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c 27 N78-31232
POLYBUTADIENE
New polymers of perfluorobutadiene and method of manufacture Patent application
[NASA-CASE-NPO-10863] c 06 N70-11251
Method of polymerizing perfluorobutadiene Patent application
[NASA-CASE-NPO-10447] c 06 N70-11252
Inhibited solid propellant composition containing beryllium hydride
[NASA-CASE-NPO-10866-1] c 28 N79-14228
POLYCARBONATES
Helmet assembly and latch means therefor Patent
[NASA-CASE-XMS-04935] c 05 N71-11190
POLYCRYSTALS
Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c 44 N76-28635
Process for utilizing low-cost graphite substrates for polycrystalline solar cells
[NASA-CASE-GSC-12022-2] c 44 N78-24609
Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910
Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28090-1] c 27 N86-21684
POLYESTERS
Novel polycarboxylic prepolymeric materials and polymers thereof Patent
[NASA-CASE-NPO-10596] c 06 N71-25929
Apparatus for forming drive belts
[NASA-CASE-NPO-13205-1] c 31 N74-32917
Sulfone-ester polymers containing pendent ethynyl groups
[NASA-CASE-LAR-13316-1] c 27 N84-28987
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[NASA-CASE-NPO-16103-1] c 27 N85-29043
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[NASA-CASE-NPO-10768] c 06 N71-27254
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[NASA-CASE-XLA-03661] c 15 N71-33518
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System for enhancing tool-exchange capabilities of a portable wrench
[NASA-CASE-MFS-22283-1] c 37 N75-33395
Method of peening and portable peening gun
[NASA-CASE-MFS-23047-1] c 37 N76-18454
Portable electrophoresis apparatus using minimum electrolyte
[NASA-CASE-NPO-13274-1] c 25 N79-10163
Portable heatable container
[NASA-CASE-NPO-14237-1] c 44 N80-20808
Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599
Portable appliance security apparatus
[NASA-CASE-GSC-12399-1] c 33 N81-25299
Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949
Two-dimensional scanner apparatus --- flaw detector in small flat plates
[NASA-CASE-MFS-25687-1] c 35 N84-22928
Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] c 35 N84-33766
Portable pallet weighing apparatus
[NASA-CASE-GSC-12789-1] c 35 N85-20294
Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N85-21631
Portable 90 degree proof loading device
[NASA-CASE-MSC-20250-1] c 35 N86-19581
Acoustic guide for noise transmission testing of aircraft
[NASA-CASE-LAR-13111-1-CU] c 71 N86-20086

PORTABLE LIFE SUPPORT SYSTEMS
Portable breathing system --- a breathing apparatus using a rebreathing system of heat exchangers for carbon dioxide removal
[NASA-CASE-MSC-16182-1] c 54 N80-10799

PORTS (OPENINGS)
Evacuation port seal Patent
[NASA-CASE-XMF-03290] c 15 N71-23256
Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343
Advanced vapor supply manifold
[NASA-CASE-LAR-13259-1] c 37 N86-20800

POSITION (LOCATION)
Position location system and method Patent
[NASA-CASE-GSC-10087-2] c 21 N71-13958
Position location and data collection system and method Patent
[NASA-CASE-GSC-10083-1] c 30 N71-16090
Emergency escape system Patent
[NASA-CASE-XKS-07814] c 15 N71-27067
Position location system and method
[NASA-CASE-GSC-10087-3] c 07 N72-12080
Location identification system
[NASA-CASE-ERC-10324] c 07 N72-25173
Cosmic dust or other similar outer space particles impact location detector
[NASA-CASE-GSC-11291-1] c 25 N72-33696
Collimator of multiple plates with axially aligned identical random arrays of apertures
[NASA-CASE-MFS-20546-2] c 14 N73-30389
Measuring probe position recorder
[NASA-CASE-LAR-10806-1] c 35 N74-32877
Vehicle locating system utilizing AM broadcasting station carriers
[NASA-CASE-NPO-13217-1] c 32 N75-26194
Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c 35 N75-27331
Aircraft-mounted crash-activated transmitter device
[NASA-CASE-MFS-16609-3] c 03 N76-32140
Twin-capacitive shaft angle encoder with analog output signal
[NASA-CASE-ARC-10897-1] c 33 N77-31404
X-ray position detector
[NASA-CASE-NPO-12087-1] c 74 N81-19898
Adjustable indicating device for load position
[NASA-CASE-MFS-28008-1] c 35 N85-20300

POSITION INDICATORS
Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432
Angular measurement system Patent
[NASA-CASE-XMF-00447] c 14 N70-33179
Position sensing device employing misaligned magnetic field generating and detecting apparatus Patent
[NASA-CASE-XGS-07514] c 23 N71-16099

Angular position and velocity sensing apparatus Patent
[NASA-CASE-XGS-05680] c 14 N71-17585
Extended area semiconductor radiation detectors and a novel readout arrangement Patent
[NASA-CASE-XGS-03230] c 14 N71-23401
Doppler compensation by shifting transmitted object frequency within limits
[NASA-CASE-GSC-10087-4] c 07 N73-20174
Meteoroid impact position locator aid for manned space station
[NASA-CASE-LAR-10629-1] c 35 N75-33367
Position determination systems --- using orbital antenna scan of celestial bodies
[NASA-CASE-MSC-12593-1] c 17 N76-21250
Solar cell angular position transducer
[NASA-CASE-LAR-11999-1] c 44 N80-18552
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N84-20522
Synchronization tracking in pulse position modulation receiver
[NASA-CASE-NPO-16256-1] c 32 N84-32620
Improved legislated emergency locating transmitters and emergency position indicating radio beacons
[NASA-CASE-GSC-12892-1] c 32 N85-20226

POSITION SENSING
Position sensing device employing misaligned magnetic field generating and detecting apparatus Patent
[NASA-CASE-XGS-07514] c 23 N71-16099

POSITIONING
Instrument support with precise lateral adjustment Patent
[NASA-CASE-XMF-00480] c 14 N70-39898
Portable alignment tool Patent
[NASA-CASE-XMF-01452] c 15 N70-41371
Optical alignment system Patent
[NASA-CASE-XNP-02029] c 14 N70-41955
Null device for hand controller Patent
[NASA-CASE-XLA-01808] c 15 N71-20740
Rotating raster generator
[NASA-CASE-FRC-10071-1] c 32 N74-20813
Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N82-33681

POSITIONING DEVICES (MACHINERY)
Swivel support for gas bearings Patent
[NASA-CASE-XMF-07808] c 15 N71-23812
Caterpillar micro positioner
[NASA-CASE-GSC-10780-1] c 14 N72-16283
Positioning mechanism
[NASA-CASE-NPO-10679] c 15 N72-21462
Test stand system for vacuum chambers
[NASA-CASE-MFS-21362] c 11 N73-20267
Method and apparatus for optically monitoring the angular position of a rotating mirror
[NASA-CASE-GSC-11353-1] c 74 N74-21304
Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
Reference apparatus for medical ultrasonic transducer
[NASA-CASE-ARC-10753-1] c 54 N75-27760
Controlled caging and uncaging mechanism
[NASA-CASE-GSC-11063-1] c 37 N77-27400
Workpiece positioning vise
[NASA-CASE-GSC-12762-1] c 37 N84-28083

POSITIVE FEEDBACK
Complementary regenerative switch Patent
[NASA-CASE-XGS-02751] c 09 N71-23015

POTABLE WATER
Recovery of potable water from human wastes in below-G conditions Patent
[NASA-CASE-XLA-03213] c 05 N71-11207
Compact solar still Patent
[NASA-CASE-XMS-04533] c 15 N71-23086
Specialized halogen generator for purification of water Patent
[NASA-CASE-XLA-08913] c 14 N71-28933
Potable water dispenser
[NASA-CASE-MFS-21115-1] c 54 N74-12779
Metering gun for dispensing precisely measured charges of fluid
[NASA-CASE-MFS-21163-1] c 54 N74-17853
Iodine generator for reclaimed water purification
[NASA-CASE-MSC-14632-1] c 54 N78-14784
Degassifying and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MSC-18936-1] c 35 N83-29652

POTASSIUM SILICATES
Fire resistant coating composition Patent
[NASA-CASE-GSC-10072] c 18 N71-14014

POTENTIOMETERS
Angle detector
[NASA-CASE-ARC-11036-1] c 35 N78-32395

POTENTIOMETERS (INSTRUMENTS)
Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073
Control device Patent
[NASA-CASE-XAC-10019] c 15 N71-23809
Line following servosystem Patent
[NASA-CASE-XAC-00001] c 15 N71-28952
Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698

POTTING COMPOUNDS
Method and apparatus for shock protection Patent
[NASA-CASE-XLA-00482] c 15 N70-36409
Flexible, repairable, pottable material for electrical connectors Patent
[NASA-CASE-XGS-05180] c 18 N71-25881
Thermally conductive polymers
[NASA-CASE-GSC-11304-1] c 06 N72-21105

POWDER (PARTICLES)
Method for forming pyrrone molding powders and products of said method
[NASA-CASE-LAR-10423-1] c 23 N82-29358
Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] c 37 N84-16561

POWDER METALLURGY
Process of casting heavy slips Patent
[NASA-CASE-XLE-00106] c 15 N71-16076
Fabrication of controlled-porosity metals Patent
[NASA-CASE-XNP-04339] c 17 N71-29137
Method of making dry electrodes
[NASA-CASE-FRC-10029-2] c 05 N72-25121
Method for producing dispersion strengthened alloys by converting metal to a halide, comminuting, reducing the metal halide to the metal and sintering
[NASA-CASE-LEW-10450-1] c 15 N72-25448
Method of forming superalloys
[NASA-CASE-LEW-10805-1] c 15 N73-13465
Method of heat treating a formed powder product material
[NASA-CASE-LEW-10805-3] c 26 N74-10521
Method of forming articles of manufacture from superalloy powders
[NASA-CASE-LEW-10805-2] c 37 N74-13179
Cermet composition and method of fabrication --- heat resistant alloys and powders
[NASA-CASE-NPO-13120-1] c 27 N76-15311
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N84-20670
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267

POWDERED ALUMINUM
Aluminum ion-containing polyimide adhesives
[NASA-CASE-LAR-12640-1] c 27 N82-11206

POWER AMPLIFIERS
Ac power amplifier Patent Application
[NASA-CASE-LAR-10218-1] c 09 N70-34559
Power supply Patent
[NASA-CASE-XMS-02159] c 10 N71-22961
Broadband stable power multiplier Patent
[NASA-CASE-XNP-10854] c 10 N71-26331
Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430
Isolated output system for a class D switching-mode amplifier
[NASA-CASE-MFS-21616-1] c 33 N75-30429

POWER CONDITIONING
Module failure isolation circuit for paralleled inverters --- preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254
Self-reconfiguring solar cell system
[NASA-CASE-LEW-12586-1] c 44 N80-14472
Inelastic tunnel diodes
[NASA-CASE-LEW-13833-1] c 33 N85-21492

POWER CONVERTERS
Gas-to-hydraulic power converter
[NASA-CASE-MSC-18794-1] c 44 N83-14693

POWER EFFICIENCY
Low power drain semi-conductor circuit
[NASA-CASE-XGS-04999] c 09 N69-24317
Excitation and detection circuitry for a flux responsive magnetic head
[NASA-CASE-XNP-04183] c 09 N69-24329
Apparatus for increasing ion engine beam density Patent
[NASA-CASE-XLE-00519] c 28 N70-41576
Gaseous control system for nuclear reactors
[NASA-CASE-XLE-04599] c 22 N72-20597
Remote platform power conserving system
[NASA-CASE-GSC-11182-1] c 15 N75-13007
Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136
Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] c 44 N85-30475
Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 07 N85-35194
Linearized traveling wave amplifier with hard limiter characteristics
[NASA-CASE-LEW-13981-2] c 33 N86-21742

POWER FACTOR CONTROLLERS
Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190
Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] c 33 N84-14424
Motor power control circuit for ac induction motors
[NASA-CASE-MFS-25323-1] c 33 N84-22886
Solar powered actuator with continuously variable auxiliary power control
[NASA-CASE-MFS-25637-1] c 44 N85-21769
Power control for ac motor
[NASA-CASE-MFS-25861-1] c 33 N85-22877

POWER GAIN
Serrodyne frequency converter re-entrant amplifier system Patent
[NASA-CASE-XGS-01022] c 07 N71-16088
CRT blanking and brightness control circuit
[NASA-CASE-KSC-10647-1] c 10 N72-31273

POWER LIMITERS
Monostable multivibrator
[NASA-CASE-GSC-10082-1] c 10 N72-20221

POWER LINES
Electrical connector for flat cables Patent
[NASA-CASE-XMF-00324] c 09 N70-34596
Motor run-up system --- power lines
[NASA-CASE-NPO-13374-1] c 33 N75-19524
Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18193
Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c 33 N81-27397
Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319
Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669

POWER SERIES
Computing apparatus Patent
[NASA-CASE-XGS-04765] c 08 N71-18693
Phase modulating with odd and even finite power series of a modulating signal
[NASA-CASE-LAR-11607-1] c 32 N77-14292

POWER SPECTRA
Method and apparatus for high resolution spectral analysis
[NASA-CASE-NPO-10748] c 08 N72-20177
Instrument for determining coincidence and elapse time between independent sources of random sequential events
[NASA-CASE-LAR-12531-1] c 35 N83-29651

POWER SUPPLIES
Tape recorder Patent
[NASA-CASE-XGS-08259] c 14 N71-23698
Current dependent filter inductance
[NASA-CASE-ERC-10139] c 09 N72-17154
Power supply for carbon dioxide lasers
[NASA-CASE-GSC-11222-1] c 16 N73-32391
High voltage distributor
[NASA-CASE-GSC-11849-1] c 33 N76-16332
Method and apparatus for precision control of radiometer
[NASA-CASE-NPO-15398-1] c 35 N84-22931

POWER SUPPLY CIRCUITS
Regulated dc to dc converter
[NASA-CASE-XGS-03429] c 03 N69-21330
Power control circuit
[NASA-CASE-XNP-02713] c 10 N69-39888
Electronic amplifier with power supply switching Patent
[NASA-CASE-XMS-00945] c 09 N71-10798
Heat pipe thermionic diode power system Patent
[NASA-CASE-XMF-05843] c 03 N71-11055
Pulsed energy power system Patent
[NASA-CASE-MSC-13112] c 03 N71-11057
Data processor having multiple sections activated at different times by selective power coupling to the sections Patent
[NASA-CASE-XGS-04767] c 08 N71-12494
Microwave power receiving antenna Patent
[NASA-CASE-MFS-20333] c 09 N71-13486
Regulated power supply Patent
[NASA-CASE-XMS-01991] c 09 N71-21449
Power supply Patent
[NASA-CASE-XMS-02159] c 10 N71-22961
Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271
Power supply circuit Patent
[NASA-CASE-XMS-00913] c 10 N71-23543
Drive circuit for minimizing power consumption in inductive load Patent
[NASA-CASE-NPO-10716] c 09 N71-24892
Unsaturating saturable core transformer Patent
[NASA-CASE-ERC-10125] c 09 N71-24893

Voltage dropout sensor Patent
[NASA-CASE-KSC-10020] c 10 N71-27338
Maximum power point tracker Patent
[NASA-CASE-GSC-10376-1] c 14 N71-27407
High power microwave power divider Patent
[NASA-CASE-NPO-11031] c 07 N71-33606
Ripple indicator
[NASA-CASE-KSC-10162] c 09 N72-11225
A dc to ac to dc converter having transistor synchronous rectifiers
[NASA-CASE-GSC-11126-1] c 09 N72-25253
LC-oscillator with automatic stabilized amplitude via bias current control --- power supply circuit for transducers
[NASA-CASE-MFS-21698-1] c 33 N74-26732
Integrable power gyrator --- with Z-matrix design using parallel transistors
[NASA-CASE-MFS-22342-1] c 33 N75-30428
The dc-to-dc converters employing staggered-phase power switches with two-loop control
[NASA-CASE-NPO-13512-1] c 33 N77-10428
Control for nuclear thermionic power source
[NASA-CASE-NPO-13114-2] c 73 N78-28913
Closed Loop solar array-ion thruster system with power control circuitry
[NASA-CASE-LEW-12780-1] c 20 N79-20179
Three phase power factor controller
[NASA-CASE-MFS-25535-1] c 33 N81-12330
Power factor control system for ac induction motors
[NASA-CASE-MFS-23988-1] c 33 N81-27395
Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190

PRECESSION
Dynamic precession damper for spin stabilized vehicles Patent
[NASA-CASE-XLA-01989] c 21 N70-34295

PRECIPITATION (CHEMISTRY)
Production of pure metals
[NASA-CASE-LEW-10906-1] c 25 N74-30502

PRECIPITATORS
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104

PRECISION
Precision stepping drive Patent
[NASA-CASE-MFS-14772] c 15 N71-17692
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-2] c 15 N71-26148

PREFLIGHT OPERATIONS
Automatic balancing device Patent
[NASA-CASE-LAR-10774] c 10 N71-13545

PRELAUNCH TESTS
Parasitic probe antenna Patent
[NASA-CASE-XKS-09348] c 09 N71-13521
Electronic checkout system for space vehicles Patent
[NASA-CASE-XKS-08012-2] c 31 N71-15566

PREPOLYMERS
Novel polycarboxylic prepolymeric materials and polymers thereof Patent
[NASA-CASE-NPO-10596] c 06 N71-25929
Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same
[NASA-CASE-NPO-13137-1] c 27 N80-32514
Prepolymer dianhydrides
[NASA-CASE-NPO-13899-1] c 27 N80-32515
Structural wood panels with improved fire resistance
[NASA-CASE-ARC-11174-1] c 24 N81-13999
Method for forming pyrrone molding powders and products of said method
[NASA-CASE-LAR-10423-1] c 23 N82-29358
Elastomer toughened polyimide adhesives
[NASA-CASE-LAR-12775-1] c 27 N83-28240
Polyphenylquinoxalines containing pendant phenylethynyl and ethynyl groups --- for thermoplastic resins
[NASA-CASE-LAR-12838-1] c 27 N83-34040

PREPREGS
Tackifier for addition polyimides containing monoethylphthalate
[NASA-CASE-LAR-12642-1] c 27 N81-29229
Vinyl styrylpyridines and their copolymerization with bismaleimide resins
[NASA-CASE-ARC-11429-1-CU] c 27 N84-16341

PRESSURE
Strain gage mounting assembly
[NASA-CASE-NPO-13170-1] c 35 N76-14430
Oscillating pressure device for dynamic calibration of pressure transducers
[NASA-CASE-LAR-13094-1] c 35 N85-29217

PRESSURE CHAMBERS
Electric arc driven wind tunnel Patent
[NASA-CASE-XMF-00411] c 11 N70-36913
Whole body measurement systems --- for weightlessness simulation
[NASA-CASE-MSC-13972-1] c 52 N74-10975
Accumulator
[NASA-CASE-MFS-19287-1] c 34 N77-30399
Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343

PRESSURE DISTRIBUTION
Instrument for use in performing a controlled Valsalva maneuver Patent
[NASA-CASE-XMS-01615] c 05 N70-41329
Prevention of pressure build-up in electrochemical cells Patent
[NASA-CASE-XGS-01419] c 03 N70-41864
Accumulator
[NASA-CASE-MFS-19287-1] c 34 N77-30399
Thermal barrier pressure seal --- shielding junctions between spacecraft control surfaces and structures
[NASA-CASE-MSC-18134-1] c 37 N81-15363
Continuous self-locking spiral wound seal --- for maintaining pressure between chambers in cryogenic wind tunnels
[NASA-CASE-LAR-12315-1] c 37 N82-24490
Ultrasonic transducer with Gaussian radial pressure distribution
[NASA-CASE-LAR-12967-1] c 35 N84-22932

PRESSURE DROP
Leak detector
[NASA-CASE-MFS-21761-1] c 35 N75-15931

PRESSURE EFFECTS
System for stabilizing cable phase delay utilizing a coaxial cable under pressure
[NASA-CASE-NPO-13138-1] c 33 N74-17927
Evacuated, displacement compression mold --- of tubular bodies from thermosetting plastics
[NASA-CASE-LAR-10782-2] c 31 N75-13111
Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c 37 N75-19686
Fluid pressure balanced seal
[NASA-CASE-XGS-01286-1] c 37 N79-33469
Real time pressure signal system for a rotary engine
[NASA-CASE-LEW-13622-1] c 07 N84-22559
Structural pressure sensitive silicone adhesives
[NASA-CASE-LAR-13270-1] c 27 N84-32532
Thermoplastics/thermosetting adhesive specimen bonding
[NASA-CASE-LAR-13066-1] c 27 N86-20564

PRESSURE GAGES
Differential pressure cell Patent
[NASA-CASE-XAC-00042] c 14 N70-34816
Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
[NASA-CASE-XMS-06061] c 05 N71-23317
Apparatus for testing a pressure responsive instrument Patent
[NASA-CASE-XMF-04134] c 14 N71-23755
Device for measuring pressure Patent
[NASA-CASE-XAC-04458] c 14 N71-24232
Ultrahigh vacuum gauge having two collector electrodes
[NASA-CASE-LAR-02743] c 14 N73-32324
Gas ion laser construction for electrically isolating the pressure gauge thereof
[NASA-CASE-MFS-22597] c 36 N78-17366

PRESSURE GRADIENTS
Positive displacement flowmeter Patent
[NASA-CASE-XMF-02822] c 14 N70-41994
Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680

PRESSURE HEADS
Head for high speed spinner having a vacuum chuck --- holding silicon dioxide chips for etching
[NASA-CASE-NPO-15227-1] c 37 N81-33482

PRESSURE MEASUREMENT
Inertia diaphragm pressure transducer Patent
[NASA-CASE-XAC-02981] c 14 N71-21072
Linear differential pressure sensor Patent
[NASA-CASE-XMF-01974] c 14 N71-22752
Device for measuring pressure Patent
[NASA-CASE-XAC-04458] c 14 N71-24232
Device for measuring light scattering wherein the measuring beam is successively reflected between a pair of parallel reflectors Patent
[NASA-CASE-XER-11203] c 14 N71-28994
Sensing probe
[NASA-CASE-LEW-10281-1] c 14 N72-17327
Gauge calibration by diffusion
[NASA-CASE-XGS-07752] c 14 N73-30390
Apparatus for absolute pressure measurement
[NASA-CASE-LAR-10000] c 14 N73-30394
Wind tunnel model and method
[NASA-CASE-LAR-10812-1] c 09 N74-17955
Indicated mean-effective pressure instrument
[NASA-CASE-LEW-12661-1] c 35 N79-14345
High-temperature microphone system --- for measuring pressure fluctuations in gases at high temperature
[NASA-CASE-LAR-12375-1] c 32 N79-24203
Static pressure orifice system testing method and apparatus
[NASA-CASE-LAR-12269-1] c 35 N80-18358
Detection of the transitional layer between laminar and turbulent flow areas on a wing surface --- using an accelerometer to measure pressure levels during wind tunnel tests
[NASA-CASE-LAR-12261-1] c 02 N80-20224
Non-invasive method and apparatus for measuring pressure within a pliable vessel
[NASA-CASE-ARC-11264-2] c 52 N83-29991
Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] c 35 N84-22934
Method of and apparatus for measuring temperature and pressure --- atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639

PRESSURE REDUCTION
Relief valve
[NASA-CASE-XMS-05894-1] c 15 N69-21924
Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051
Depressurization of arc lamps
[NASA-CASE-NPO-10790-1] c 33 N77-21316
Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229
Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] c 44 N84-14583
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFG-25989-1] c 20 N85-20008
Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800

PRESSURE REGULATORS
Pressure regulating system Patent
[NASA-CASE-XNP-00450] c 15 N70-38603
Resuscitation apparatus Patent
[NASA-CASE-XMS-01115] c 05 N70-39922
High pressure regulator valve Patent
[NASA-CASE-XNP-00710] c 15 N71-10778
Space suit pressure stabilizer Patent
[NASA-CASE-XLA-05332] c 05 N71-11194
Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
Anti-backlash circuit for hydraulic drive system Patent
[NASA-CASE-XNP-01020] c 03 N71-12260
High impact pressure regulator Patent
[NASA-CASE-NPO-10175] c 14 N71-18625
Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332] c 05 N72-20097
Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332-2] c 05 N73-25125
Combined pressure regulator and shutoff valve
[NASA-CASE-NPO-13201-1] c 37 N75-15050
Pressure modulating value
[NASA-CASE-MSC-14905-1] c 37 N77-28487
Flow compensating pressure regulator
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Method of coating solar cell with borosilicate glass and resultant product
[NASA-CASE-GSC-11514-1] c 03 N72-24037
Semiconductor surface protection material
[NASA-CASE-ERC-10339-1] c 18 N73-30532
Nonflammable coating compositions --- for use in high oxygen environments
[NASA-CASE-MFS-20486-2] c 27 N74-17283
Fused silicide coatings containing discrete particles for protecting niobium alloys --- used in space shuttle thermal protection systems and turbine engine components
[NASA-CASE-LEW-11179-1] c 27 N76-16229
High temperature oxidation resistant cermet compositions
[NASA-CASE-NPO-13666-1] c 27 N77-13217
Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c 24 N77-19170
Intumescent coatings containing 4,4'-dinitrosulfanilide
[NASA-CASE-ARC-11042-1] c 24 N78-14096
Sprayable low density ablator and application process
[NASA-CASE-MFS-23506-1] c 24 N78-24290
Reaction cured glass and glass coatings
[NASA-CASE-ARC-11051-1] c 27 N78-32260
Infusible silazane polymer and process for producing same --- protective coatings
[NASA-CASE-XMF-02526-1] c 27 N79-21190
Fire protection covering for small diameter missiles
[NASA-CASE-ARC-11104-1] c 15 N79-26100
Improved refractory coatings --- sputtered coatings on substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209
Corrosion resistant thermal barrier coating --- protecting gas turbines and other engine parts
[NASA-CASE-LEW-13088-1] c 26 N81-25188
Heat sealable, flame and abrasion resistant coated fabric --- clothing and containers for space exploration
[NASA-CASE-MSC-18382-1] c 27 N82-16238
Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441
Improved nickel base coating alloy --- oxidation resistant coatings
[NASA-CASE-LEW-13834-1] c 26 N83-24639
Curved film cooling admission tube
[NASA-CASE-LEW-13174-1] c 34 N83-27144
Silicon-slurry/aluminide coating --- protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795
Covering solid, film cooled surfaces with a duplex thermal barrier coating
[NASA-CASE-LEW-13450-1] c 31 N83-35177
Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] c 27 N84-14324
Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] c 36 N84-22944
Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] c 26 N84-27855
Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] c 26 N84-33555
Process for preparing essentially colorless polyimide film containing phenoxy-linked diamines
[NASA-CASE-LAR-13353-1] c 27 N85-20128
Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005
Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283
Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-1] c 27 N86-19458
Oxidation protecting coatings for polymers
[NASA-CASE-LEW-14072-2] c 27 N86-19463

PROTECTORS
Load cell protection device Patent
[NASA-CASE-XMS-06782] c 32 N71-15974
Omnidirectional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c 31 N71-16085
Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N84-25164

PROTEINS
Protein sterilization method of firefly luciferase using reduced pressure and molecular sieves
[NASA-CASE-GSC-10225-1] c 06 N73-27086

PROTOCOL (COMPUTERS)
Multicomputer communication system
[NASA-CASE-NPO-15433-1] c 32 N85-21428

PROTON FLUX DENSITY
Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c 19 N74-29410

PROXIMITY
Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139

PSEUDONOISE
Rapid sync acquisition system Patent
[NASA-CASE-NPO-10214] c 10 N71-26577
Pseudonoise sequence generators with three tap linear feedback shift registers
[NASA-CASE-NPO-11406] c 08 N73-12175
Two carrier communication system with single transmitter
[NASA-CASE-NPO-11548] c 07 N73-26118
Pseudo-noise test set for communication system evaluation --- test signals
[NASA-CASE-MFS-22671-1] c 35 N75-21582
Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179

PULLEYS
Tension measurement device Patent
[NASA-CASE-XMS-04545] c 15 N71-22878
Tensile strength testing device Patent
[NASA-CASE-XNP-05634] c 15 N71-24834

PULLING
Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N86-19611
Universal clamp
[NASA-CASE-MSC-20549-1] c 37 N86-19612

PULMONARY CIRCULATION
Resuscitation apparatus Patent
[NASA-CASE-XMS-01115] c 05 N70-39922

PULMONARY FUNCTIONS
Instrument for use in performing a controlled Valsalva maneuver Patent
[NASA-CASE-XMS-01615] c 05 N70-41329

PULSE AMPLITUDE
System for monitoring signal amplitude ranges
[NASA-CASE-XMS-04061-1] c 09 N69-39885
Analog to digital converter Patent
[NASA-CASE-XLA-00670] c 08 N71-12501
Pulse amplitude and width detector Patent
[NASA-CASE-XMF-06519] c 09 N71-12519
Analog-to-digital converter
[NASA-CASE-XNP-00477] c 08 N73-28045
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-11389-1] c 33 N77-26387
Speech analyzer
[NASA-CASE-GSC-11898-1] c 32 N77-30309
Power factor control system for ac induction motors
[NASA-CASE-MFS-23988-1] c 33 N81-27395
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304

PULSE AMPLITUDE MODULATION
Signal ratio system utilizing voltage controlled oscillators Patent
[NASA-CASE-XMF-04367] c 09 N71-23545
Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418

PULSE CODE MODULATION
Adaptive compression of communication signals Patent
[NASA-CASE-XLA-03076] c 07 N71-11266
Bi-polar phase detector and corrector for split phase PCM data signals Patent
[NASA-CASE-XGS-01590] c 07 N71-12392
System for recording and reproducing pulse code modulated data Patent
[NASA-CASE-XGS-01021] c 08 N71-21042
Frequency shift keying apparatus Patent
[NASA-CASE-XGS-01537] c 07 N71-23405
Data compression system
[NASA-CASE-NPO-11243] c 07 N72-20154
Method and apparatus for frequency-division multiplex communications by digital phase shift of carrier
[NASA-CASE-NPO-11338] c 08 N72-25208
Apparatus for deriving synchronizing pulses from pulses in a single channel PCM communications system
[NASA-CASE-NPO-11302-1] c 07 N73-13149
Method and apparatus for a single channel digital communications system --- synchronization of received PCM signal by digital correlation with reference signal
[NASA-CASE-NPO-11302-2] c 32 N74-10132
Multifunction audio digitizer --- producing direct delta and pulse code modulation
[NASA-CASE-MSC-13855-1] c 35 N74-17885
Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12462-1] c 32 N74-20809
Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12494-1] c 32 N74-20810
Digital transmitter for data bus communications system
[NASA-CASE-MSC-14558-1] c 32 N75-21486
Compact-bi-phase pulse coded modulation decoder
[NASA-CASE-KSC-10834-1] c 33 N76-14371
Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c 32 N76-16249
Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c 32 N77-12239
Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570
A method and apparatus for operating on companded PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N85-29120

PULSE COMMUNICATION
Phase-shift data transmission system having a pseudo-noise SYNC code modulated with the data in a single channel Patent
[NASA-CASE-XNP-00911] c 08 N70-41961
Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c 32 N77-12239
Memory-based frame synchronizer --- for digital communication systems
[NASA-CASE-GSC-12430-1] c 60 N82-16747
A method and apparatus for operating on companded PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N85-29120

PULSE DURATION
Frequency to analog converter Patent
[NASA-CASE-XNP-07040] c 08 N71-12500
Pulse amplitude and width detector Patent
[NASA-CASE-XMF-06519] c 09 N71-12519
Variable pulse width multiplier Patent
[NASA-CASE-XLA-02850] c 09 N71-20447
Pulse width inverter Patent
[NASA-CASE-MFS-10068] c 10 N71-25139
Multivibrator circuit with means to prevent false triggering from supply voltage fluctuations Patent
[NASA-CASE-ARC-10137-1] c 09 N71-28468
Pulse stretcher for narrow pulses
[NASA-CASE-MSC-14130-1] c 33 N74-32711

PULSE DURATION MODULATION
Pulse-width modulation multiplier Patent
[NASA-CASE-XER-09213] c 07 N71-12390
Variable duration pulse integrator Patent
[NASA-CASE-XLA-01219] c 10 N71-23084
Transistor servo system including a unique differential amplifier circuit Patent
[NASA-CASE-XMF-05195] c 10 N71-24861
Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418
Monostable multivibrator with complementary NOR gates Patent
[NASA-CASE-MSC-13492-1] c 10 N71-28860
Load current sensor for a series pulse width modulated power supply
[NASA-CASE-GSC-10656-1] c 09 N72-25249
Buck/boost regulator
[NASA-CASE-GSC-12360-1] c 33 N81-19392

PULSE FREQUENCY MODULATION
Apparatus for measuring current flow Patent
[NASA-CASE-XGS-02439] c 14 N71-19431
Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525
Noninterruptable digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891
Frequency modulation demodulator threshold extension device Patent
[NASA-CASE-MSC-12165-1] c 07 N71-33696
Versatile LDV burst simulator
[NASA-CASE-LAR-11859-1] c 35 N79-14349

PULSE GENERATORS
High voltage pulse generator Patent
[NASA-CASE-MSC-12178-1] c 09 N71-13518
Flipflop interrogator and bi-polar current driver Patent
[NASA-CASE-XGS-03058] c 10 N71-19547
Pulse modulator providing fast rise and fall times Patent
[NASA-CASE-XMS-04919] c 09 N71-23270
Passive synchronized spike generator with high input impedance and low output impedance and capacitor power supply Patent
[NASA-CASE-XGS-03632] c 09 N71-23311
Resettable monostable pulse generator Patent
[NASA-CASE-GSC-11139] c 09 N71-27016
Pulse generating circuit employing switch means on ends of delay line for alternately charging and discharging same Patent
[NASA-CASE-XNP-00745] c 10 N71-28960
Pulse coupling circuit
[NASA-CASE-LEW-10433-1] c 09 N72-22197
Method and apparatus for nondestructive testing --- using high frequency arc discharges
[NASA-CASE-MFS-21233-1] c 38 N74-15395
Random pulse generator
[NASA-CASE-MSC-14131-1] c 33 N75-19515
Active lamp pulse driver circuit --- optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189
Synchronization tracking in pulse position modulation receiver
[NASA-CASE-NPO-16256-1] c 32 N84-32620

PULSE HEATING
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484
PULSE MODULATION
Synchronization tracking in pulse position modulation receiver
[NASA-CASE-NPO-16256-1] c 32 N84-32620
PULSE RATE
Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137
Peak holding circuit for extremely narrow pulses
[NASA-CASE-MSC-14129-1] c 33 N75-18479
Pulse transducer with artifact signal attenuator --- heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969
PULSED LASERS
Repetitively pulsed, wavelength selective laser Patent
[NASA-CASE-ERC-10178] c 16 N71-24832
Dually mode locked Nd:YAG laser
[NASA-CASE-GSC-11746-1] c 36 N75-19654
Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c 36 N77-26477
Double-beam optical method and apparatus for measuring thermal diffusivity and other molecular dynamic processes in utilizing the transient thermal lens effect
[NASA-CASE-NPO-14657-1] c 74 N81-17887
Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418
Coherently pulsed laser source
[NASA-CASE-NPO-15111-1] c 36 N82-29589
Active lamp pulse driver circuit --- optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
PULSED RADIATION
Cyclically operable optical shutter
[NASA-CASE-NPO-10758] c 14 N73-14427
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
Acoustic radiation stress measurement
[NASA-CASE-LAR-13440-1] c 71 N86-22307
PULSES
High pulse rate high resolution optical radar system
[NASA-CASE-NPO-11426] c 07 N73-26119
PUMP SEALS
Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747
Spiral groove seal --- for hydraulic rotating shaft
[NASA-CASE-LEW-10326-3] c 37 N74-10474
PUMPS
Piezoelectric pump Patent
[NASA-CASE-XNP-05429] c 26 N71-21824
Vapor liquid separator Patent
[NASA-CASE-XMF-04042] c 15 N71-23023
Automatic pump Patent
[NASA-CASE-XNP-04731] c 15 N71-24042
Hydraulic transformer Patent
[NASA-CASE-MFS-20830] c 15 N71-30028
Firefly pump-metering system
[NASA-CASE-GSC-10218-1] c 15 N72-21465
Magnetocaloric pump --- for cryogenic fluids
[NASA-CASE-LEW-11672-1] c 37 N74-27904
Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154
Gas-to-hydraulic power converter
[NASA-CASE-MSC-18794-1] c 44 N83-14693
Fluid driven sump pump
[NASA-CASE-ARC-11414-1] c 37 N83-20152
Variable speed drive
[NASA-CASE-GSC-12643-1] c 37 N83-26078
Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082
Fluidic angular velocity sensor
[NASA-CASE-NPO-16479-1-CU] c 35 N85-29219
Remotely operable peristaltic pump
[NASA-CASE-MFS-28059-1] c 37 N85-29288
Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N86-20721
PUNCHED CARDS
File card marker Patent
[NASA-CASE-XLA-02705] c 08 N71-15908
Device for handling printed circuit cards Patent
[NASA-CASE-MFS-20453] c 15 N71-29133
PUNCHES
Convoluting device for forming convolutions and the like Patent
[NASA-CASE-XNP-05297] c 15 N71-23811
PURGING
Techniques for insulating cryogenic fuel containers Patent
[NASA-CASE-XLA-01967] c 31 N70-42015
High pressure gas filter system Patent
[NASA-CASE-MFS-12806] c 14 N71-17588
Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089
Purge device for thrust engines Patent
[NASA-CASE-XMS-04826] c 28 N71-28849
Purging means and method for Xenon arc lamps
[NASA-CASE-NPO-11978] c 31 N78-17238
PURIFICATION
High pressure helium purifier Patent
[NASA-CASE-XMF-06888] c 15 N71-24044
Method and apparatus for distillation of liquids Patent
[NASA-CASE-XNP-08124] c 15 N71-27184
Targets for producing high purity I-123
[NASA-CASE-LEW-10518-3] c 25 N78-27226
Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747
Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229
Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076
Electromigration process for the purification of molten silicon during crystal growth
[NASA-CASE-NPO-14831-1] c 76 N82-30105
PURITY
Process for preparation of dianilinosilanes Patent
[NASA-CASE-XMF-06409] c 06 N71-23230
Low defect, high purity crystalline layers grown by selective deposition
[NASA-CASE-NPO-15813-1] c 76 N85-30922
Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28090-1] c 27 N86-21684
PUSH-PULL AMPLIFIERS
Frequency modulated oscillator
[NASA-CASE-MFS-23181-1] c 33 N77-17351
Low current linearization of magnetic amplifier for dc transducer
[NASA-CASE-NPO-14617-1] c 33 N81-24338
Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404
PUSHING
Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N86-19611
Universal clamp
[NASA-CASE-MSC-20549-1] c 37 N86-19612
PYLONS
Decoupler pylon: wing/store flutter suppressor
[NASA-CASE-LAR-12468-1] c 08 N82-32373
PYRIDINES
Nuclear alkylated pyridine aldehyde polymers and conductive compositions thereof
[NASA-CASE-NPO-10557] c 27 N78-17214
Vinyl styrylpyridines and their copolymerization with bismaleimide resins
[NASA-CASE-ARC-11429-1-CU] c 27 N84-16341
Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560
PYROELECTRICITY
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-2] c 33 N83-24763
PYROGEN
Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275
PYROLYSIS
Molten salt pyrolysis of latex --- synthetic hydrocarbon fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261
Thermal reactor --- liquid silicon production from silane gas
[NASA-CASE-NPO-14369-1] c 44 N83-10501
Solar-heated oil shale retort
[NASA-CASE-NPO-16392-1] c 44 N84-32912
PYROLYTIC GRAPHITE
Multislot film cooled pyrolytic graphite rocket nozzle Patent
[NASA-CASE-XNP-04389] c 28 N71-20942
Ion sputter textured graphite --- anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117
Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565
PYROLYTIC MATERIALS
Ablation structures Patent
[NASA-CASE-XMS-01816] c 33 N71-15623
PYROMETERS
Ablation sensor
[NASA-CASE-XLA-01781] c 14 N69-39975
PYROTECHNICS
Disconnect unit
[NASA-CASE-NPO-11330] c 33 N73-26958
Fully redundant mechanical release actuator
[NASA-CASE-LAR-13198-1] c 37 N85-29287
PYRRONES (TRADEMARK)
Method for forming pyrrone molding powders and products of said method
[NASA-CASE-LAR-10423-1] c 23 N82-29358

Q

Q SWITCHED LASERS
Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c 28 N74-27425
Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c 36 N77-32478
Laser Resonator
[NASA-CASE-GSC-12565-1] c 36 N84-14509
Q VALUES
Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256
QUADRATIC PROGRAMMING
Quadraphase demodulation
[NASA-CASE-GSC-12137-1] c 33 N78-32338
QUADRATURES
Automatic quadrature control and measuring system --- using optical coupling circuitry
[NASA-CASE-MFS-21660-1] c 35 N74-21017
QUALITATIVE ANALYSIS
Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428
Analysis of volatile organic compounds --- trace amounts of organic volatiles in gas samples
[NASA-CASE-MSC-14428-1] c 23 N77-17161
Fluid sample collection and distribution system --- qualitative analysis of aqueous samples from several points
[NASA-CASE-MSC-16841-1] c 34 N79-24285
QUANTITATIVE ANALYSIS
Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199
Apparatus for detecting the amount of material in a resonant cavity container Patent
[NASA-CASE-XNP-02500] c 18 N71-27397
Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428
Nondispersive gas analyzing method and apparatus wherein radiation is serially passed through a reference and unknown gas
[NASA-CASE-ARC-10308-1] c 06 N72-31141
Analysis of volatile organic compounds --- trace amounts of organic volatiles in gas samples
[NASA-CASE-MSC-14428-1] c 23 N77-17161
Electrophotolysis oxidation system for measurement of organic concentration in water
[NASA-CASE-MSC-16497-1] c 25 N82-12166
Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849
QUANTUM THEORY
III-V photocathode with nitrogen doping for increased quantum efficiency
[NASA-CASE-NPO-12134-1] c 33 N76-31409
QUARTZ
Ultraviolet filter
[NASA-CASE-XNP-02340] c 23 N69-24332
Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c 26 N77-29260
Quartz ball value
[NASA-CASE-NPO-14473-1] c 37 N80-23654
Ampoule sealing apparatus and process --- for housing a semiconductor growth charge under vacuum
[NASA-CASE-LAR-12847-1] c 33 N83-16633
QUARTZ LAMPS
High intensity heat and light unit Patent
[NASA-CASE-XLA-00141] c 09 N70-33312
Light shield and cooling apparatus --- high intensity ultraviolet lamp
[NASA-CASE-LAR-10089-1] c 34 N74-23066
QUINOXALINES
Polyphenylquinoxalines containing pendant phenylethynyl and ethynyl groups --- for thermoplastic resins
[NASA-CASE-LAR-12838-1] c 27 N83-34040

R

RACKS (FRAMES)
Test stand system for vacuum chambers
[NASA-CASE-MFS-21362] c 11 N73-20267
Thrust-isolating mounting --- characteristics of support for loads mounted in spacecraft
[NASA-CASE-MFS-21680-1] c 18 N74-27397
Automated syringe sampler --- remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407
Laboratory glassware rack for seismic safety
[NASA-CASE-ARC-11422-1] c 35 N84-20808
Laboratory glassware rack for seismic safety
[NASA-CASE-ARC-11422-1] c 35 N86-20751

RADAR ANTENNAS
Radar antenna system for acquisition and tracking Patent
[NASA-CASE-XMS-09610] c 07 N71-24625
Variable beamwidth antenna --- with multiple beam, variable feed system
[NASA-CASE-GSC-11862-1] c 32 N76-18295
Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365
Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29308

RADAR ATTENUATION
FM/CW radar system
[NASA-CASE-MFS-22234-1] c 32 N79-10264

RADAR BEACONS
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304

RADAR DATA
Charge-coupled device data processor for an airborne imaging radar system
[NASA-CASE-NPO-13587-1] c 32 N77-32342

RADAR ECHOES
Charge-coupled device data processor for an airborne imaging radar system
[NASA-CASE-NPO-13587-1] c 32 N77-32342

RADAR EQUIPMENT
Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118
FM/CW radar system
[NASA-CASE-MFS-22234-1] c 32 N79-10264

RADAR IMAGERY
Method of locating persons in distress --- by using radar imagery from radar reflectors
[NASA-CASE-LAR-11390-1] c 32 N77-21267
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-1] c 32 N79-19195
Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498
Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297
Clutter free synthetic aperture radar correlator
[NASA-CASE-NPO-14035-1] c 32 N83-19968
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918
Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711

RADAR MEASUREMENT
Thickness measurement system
[NASA-CASE-MFS-23721-1] c 31 N79-28370

RADAR RANGE
Radar ranging receiver Patent
[NASA-CASE-XNP-00748] c 07 N70-36911

RADAR RECEIVERS
Polarization diversity monopulse tracking receiver Patent
[NASA-CASE-XGS-03501] c 09 N71-20864

RADAR RECEPTION
Radar ranging receiver Patent
[NASA-CASE-XNP-00748] c 07 N70-36911

RADAR REFLECTORS
Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00893] c 07 N70-40063
Method of locating persons in distress --- by using radar imagery from radar reflectors
[NASA-CASE-LAR-11390-1] c 32 N77-21267

RADAR TARGETS
Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498
Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] c 32 N84-27951

RADAR TRACKING
Tracking antenna system Patent
[NASA-CASE-GSC-10553-1] c 07 N71-19854
Polarization diversity monopulse tracking receiver Patent
[NASA-CASE-XGS-03501] c 09 N71-20864
Monopulse tracking system Patent
[NASA-CASE-XGS-01155] c 10 N71-21483
Radar calibration sphere
[NASA-CASE-XLA-11154] c 07 N72-21117
Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376

RADAR TRANSMITTERS
High pulse rate high resolution optical radar system
[NASA-CASE-NPO-11426] c 07 N73-26119

RADIAL DISTRIBUTION
Ultrasonic transducer with Gaussian radial pressure distribution
[NASA-CASE-LAR-12967-1] c 35 N84-22932

RADIAL FLOW
Radial heat flux transformer
[NASA-CASE-NPO-10828] c 33 N72-17948
Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18459

RADIANCE
Shock-layer radiation measurement
[NASA-CASE-XAC-02970] c 14 N69-39896
Optical multiple sample vacuum integrating sphere
[NASA-CASE-GSC-12849-1] c 74 N84-15960

RADIANT COOLING
Direct radiation cooling of the collector of linear beam tubes
[NASA-CASE-XNP-09227] c 15 N69-24319
Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875
Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c 26 N77-29260
Radiative cooler --- spacecraft radiators
[NASA-CASE-NPO-15465-1] c 34 N84-22903

RADIANT FLUX DENSITY
High intensity radiant energy pulse source having means for opening shutter when light flux has reached a desired level
[NASA-CASE-ARC-10178-1] c 09 N72-17152
Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287

RADIANT HEATING
High intensity heat and light unit Patent
[NASA-CASE-XLA-00141] c 09 N70-33312
High temperature heat source Patent
[NASA-CASE-XLE-00490] c 33 N70-34545
Radiant heater having formed filaments Patent
[NASA-CASE-XLE-00387] c 33 N70-34812
Ceramic insulation for radiant heating environments and method of preparing the same Patent
[NASA-CASE-MFS-14253] c 33 N71-24858
Portable linear-focused solar thermal energy collecting system
[NASA-CASE-NPO-13734-1] c 44 N78-10554
High thermal power density heat transfer --- thermionic converters
[NASA-CASE-LEW-12950-1] c 34 N82-11399

RADIATION
Two color horizon sensor
[NASA-CASE-ERC-10174] c 14 N72-25409
Irradiance measuring device
[NASA-CASE-NPO-11493] c 14 N73-12447
Analog to digital converter for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-3] c 60 N77-32731
Memory device for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-2] c 60 N78-10709

RADIATION ABSORPTION
NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
[NASA-CASE-ARC-10802-1] c 35 N75-30502
Method for making an aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-1] c 44 N79-11469
Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597

RADIATION COUNTERS
Particle detection apparatus Patent
[NASA-CASE-XLA-00135] c 14 N70-33322
Method and apparatus for determining satellite orientation utilizing spatial energy sources Patent
[NASA-CASE-XGS-00466] c 21 N70-34297
Particle beam measurement apparatus using beam kinetic energy to change the heat sensitive resistance of the detection probe Patent
[NASA-CASE-XLE-00243] c 14 N70-38602
Baseline stabilization system for ionization detector Patent
[NASA-CASE-XNP-03128] c 10 N70-41991
Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560
Dosimeter for high levels of absorbed radiation Patent
[NASA-CASE-XLA-03645] c 14 N71-20430
Coincidence apparatus for detecting particles
[NASA-CASE-XLA-07813] c 14 N72-17328
Radiation and particle detector and amplifier
[NASA-CASE-NPO-12128-1] c 14 N73-32317
Coaxial anode wire for gas radiation counters
[NASA-CASE-GSC-11492-1] c 35 N74-26949
Particle parameter analyzing system --- x-y plotter circuits and display
[NASA-CASE-XLE-06094] c 33 N78-17293
Method and means for helium/hydrogen ratio measurement by alpha scattering
[NASA-CASE-NPO-14079-1] c 25 N80-20334
Ion mass spectrometer
[NASA-CASE-NPO-15423-1] c 35 N84-28016
Radionuclide counting technique for measuring wind velocity and direction
[NASA-CASE-LAR-12971-1] c 47 N84-28292

RADIATION DAMAGE
Semiconductor material and method of making same Patent
[NASA-CASE-XLE-02798] c 26 N71-23654
Recovery of radiation damaged solar cells through thermal annealing
[NASA-CASE-XGS-04047-2] c 03 N72-11062
Photomultiplier circuit including means for rapidly reducing the sensitivity thereof --- and protection from radiation damage
[NASA-CASE-ARC-10593-1] c 33 N74-27682
Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N85-20535

RADIATION DETECTORS
Penetrating radiation system for detecting the amount of liquid in a tank Patent
[NASA-CASE-MSC-12280] c 27 N71-16348
Light detection instrument Patent
[NASA-CASE-XGS-05534] c 23 N71-16355
Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c 21 N71-22880
Extended area semiconductor radiation detectors and a novel readout arrangement Patent
[NASA-CASE-XGS-03230] c 14 N71-23401
Nondispersive gas analyzing method and apparatus wherein radiation is serially passed through a reference and unknown gas
[NASA-CASE-ARC-10308-1] c 06 N72-31141
Radiant source tracker independent of nonconstant irradiance
[NASA-CASE-NPO-11686] c 14 N73-25462
Radiation and particle detector and amplifier
[NASA-CASE-NPO-12128-1] c 14 N73-32317
Mossbauer spectrometer radiation detector
[NASA-CASE-LAR-11155-1] c 35 N74-15091
High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c 35 N74-18088
Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c 19 N74-29410
Wide angle sun sensor --- consisting of cylinder, insulation and pair of detectors
[NASA-CASE-NPO-13327-1] c 35 N75-23910
Detector absorptivity measuring method and apparatus
[NASA-CASE-LAR-10907-1] c 35 N76-29551
Wedge immersed thermistor bolometers
[NASA-CASE-XGS-01245-1] c 35 N79-33449
X-ray position detector
[NASA-CASE-NPO-12087-1] c 74 N81-19898
Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597
Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311
Method and apparatus for precision control of radiometer
[NASA-CASE-NPO-15398-1] c 35 N84-22931
Improved fluid flow meter for measuring the rate of fluid flow in a conduit
[NASA-CASE-MFS-28030-1] c 35 N85-30286
Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N85-30779

RADIATION DISTRIBUTION
Space simulator Patent
[NASA-CASE-XNP-00459] c 11 N70-38675

RADIATION DOSAGE
Dosimeter for high levels of absorbed radiation Patent
[NASA-CASE-XLA-03645] c 14 N71-20430
Method for analyzing radiation sensitivity of integrated circuits
[NASA-CASE-NPO-14350-1] c 33 N80-14332
Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311

RADIATION EFFECTS
Method of temperature compensating semiconductor strain gages Patent
[NASA-CASE-XLA-04555-1] c 14 N71-25892
RADIATION HARDENING
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential of field effect device
[NASA-CASE-GSC-11425-1] c 76 N74-20329
RADIATION HAZARDS
Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311
RADIATION MEASUREMENT
Irradiance measuring device
[NASA-CASE-NPO-11493] c 14 N73-12447
RADIATION MEASURING INSTRUMENTS
Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432
Infrared scanner Patent
[NASA-CASE-XLA-00120] c 21 N70-33181
Instrument for the quantitative measurement of radiation at multiple wave lengths Patent
[NASA-CASE-XLE-00011] c 14 N70-41946
Method for improving the signal-to-noise ratio of the Wheatstone bridge type bolometer Patent
[NASA-CASE-XLA-02810] c 14 N71-25901
Irradiance measuring device
[NASA-CASE-NPO-11493] c 14 N73-12447
Phototransistor
[NASA-CASE-MFS-20407] c 09 N73-19235
Method and apparatus for measuring electromagnetic radiation
[NASA-CASE-LEW-11159-1] c 14 N73-28488
Compton scatter attenuation gamma ray spectrometer
[NASA-CASE-MFS-21441-1] c 14 N73-30392
Coaxial anode wire for gas radiation counters
[NASA-CASE-GSC-11492-1] c 35 N74-26949
Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232
RADIATION MEDICINE
Method of producing I-123 --- by bombardment of cesium causing spallation
[NASA-CASE-LEW-11390-2] c 25 *N76-27383*
RADIATION PROTECTION
Method and construction for protecting heat sensitive bodies from thermal radiation and convective heat Patent
[NASA-CASE-XNP-01310] c 33 N71-28852
Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440
Photomultiplier circuit including means for rapidly reducing the sensitivity thereof --- and protection from radiation damage
[NASA-CASE-ARC-10593-1] c 33 N74-27682
Sun shield
[NASA-CASE-MSC-20162-1] c 37 N86-20803
RADIATION SHIELDING
Ion thruster cathode Patent Application
[NASA-CASE-LEW-10814-1] c 28 N70-35422
Ionization vacuum gauge with all but the end of the ion collector shielded Patent
[NASA-CASE-XLA-07424] c 14 N71-18482
Sealed cabinetry Patent
[NASA-CASE-MSC-12168-1] c 09 N71-18600
Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781
Zero gravity shadow shield aligner
[NASA-CASE-KSC-10622-1] c 31 N72-21893
Light shield and cooling apparatus --- high intensity ultraviolet lamp
[NASA-CASE-LAR-10089-1] c 34 N74-23066
RADIATION SOURCES
Sight switch using an infrared source and sensor Patent
[NASA-CASE-XMF-03934] c 09 N71-22985
Apparatus for obtaining isotropic irradiation of a specimen
[NASA-CASE-MFS-20095] c 24 N72-11595
Radiant source tracker independent of nonconstant irradiance
[NASA-CASE-NPO-11686] c 14 N73-25462
High powered arc electrodes --- producing solar simulator radiation
[NASA-CASE-LEW-11162-1] c 33 N74-12913
Electric arc light source having undercut recessed anode
[NASA-CASE-ARC-10266-1] c 33 N75-29318
RADIATION SPECTRA
Maksutov spectrograph Patent
[NASA-CASE-XLA-10402] c 14 N71-29041
RADIATION THERAPY
Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875
RADIATION TOLERANCE
Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979
Method of making a silicon semiconductor device Patent
[NASA-CASE-XLE-02792] c 26 N71-10607
Radiation resistant silicon semiconductor devices Patent
[NASA-CASE-XGS-07801] c 09 N71-12513
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential
[NASA-CASE-GSC-11425-2] c 76 N75-25730
Method for analyzing radiation sensitivity of integrated circuits
[NASA-CASE-NPO-14350-1] c 33 N80-14332
Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N85-20535
RADIATIVE HEAT TRANSFER
Heat flux sensor assembly
[NASA-CASE-XMS-05909-1] c 14 N69-27459
Capillary radiator Patent
[NASA-CASE-XLE-03307] c 33 N71-14035
Transient heat transfer gauge Patent
[NASA-CASE-XNP-09802] c 33 N71-15641
Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23081
Apparatus and method for heating a material in a transparent ampoule --- crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220
RADIATORS
Self-adjusting multisegment, deployable, natural circulation radiator Patent
[NASA-CASE-XHQ-03673] c 33 N71-29046
RADIO ANTENNAS
Parasitic probe antenna Patent
[NASA-CASE-XKS-09348] c 09 N71-13521
VHF/UHF parasitic probe antenna Patent
[NASA-CASE-XKS-09340] c 07 N71-24614
Unfurlable structure including coiled strips thrust launched upon tension release Patent
[NASA-CASE-HQN-00937] c 07 N71-28979
Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 *N76-21365*
RADIO ASTRONOMY
Millimeter wave radiometer for radio astronomy Patent
[NASA-CASE-XNP-09832] c 30 N71-23723
RADIO BEACONS
RF beam center location method and apparatus for power transmission system
[NASA-CASE-NPO-13821-1] c 44 N78-28594
Improved legislated emergency locating transmitters and emergency position indicating radio beacons
[NASA-CASE-GSC-12892-1] c 32 N85-20226
RADIO COMMUNICATION
System for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c 32 N79-20296
Tone calibrated digital radio communication system
[NASA-CASE-NPO-16414-1-CU] c 32 N85-29121
RADIO CONTROL
RF controlled solid state switch
[NASA-CASE-ARC-10136-1] c 09 N72-22202
RADIO EQUIPMENT
System for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c 32 N79-20296
RADIO FREQUENCIES
Helical coaxial resonator RF filter
[NASA-CASE-XGS-02816] c 07 N69-24323
Automatic gain control system
[NASA-CASE-XMS-05307] c 09 N69-24330
Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436
Automatic frequency discriminators and control for a phase-lock loop providing frequency preset capabilities Patent
[NASA-CASE-XMF-08665] c 10 N71-19467
Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174
Radio frequency coaxial high pass filter Patent
[NASA-CASE-XGS-01418] c 09 N71-23573
Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266
Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430
Method and apparatus for sputtering utilizing an apertured electrode and a pulsed substrate bias
[NASA-CASE-LEW-10920-1] c 17 N73-24569
RF-source resistance meters
[NASA-CASE-NPO-11291-1] c 14 N73-30388
Multichannel logarithmic RF level detector
[NASA-CASE-LAR-11021-1] c 32 N76-14321
Ion and electron detector for use in an ICR spectrometer
[NASA-CASE-NPO-13479-1] c 35 N77-10492
Radio frequency arraying method for receivers
[NASA-CASE-NPO-14328-1] c 32 N80-18253
Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186
Hyperthermia heating apparatus --- cancer therapy
[NASA-CASE-NPO-14549-2] c 52 N82-33996
High stability buffered phase comparator
[NASA-CASE-GSC-12645-1] c 33 N84-16454
Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N85-20248
Tone calibrated digital radio communication system
[NASA-CASE-NPO-16414-1-CU] c 32 N85-29121
Linearized traveling wave amplifier with hard limiter characteristics
[NASA-CASE-LEW-13981-2] c 33 N86-21742
RADIO FREQUENCY DISCHARGE
Electric discharge for treatment of trace contaminants
[NASA-CASE-ARC-10975-1] c 33 N79-15245
RADIO FREQUENCY HEATING
Gyrotron transmitting tube
[NASA-CASE-LEW-13429-1] c 33 N83-31952
RADIO FREQUENCY INTERFERENCE
Parametric microwave noise generator Patent
[NASA-CASE-XER-11019] c 09 N71-23598
System for interference signal nulling by polarization adjustment
[NASA-CASE-NPO-13140-1] c 32 N75-24982
Systems and methods for determining radio frequency interference
[NASA-CASE-GSC-12150-1] c 32 N79-11265
Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341
RADIO FREQUENCY SHIELDING
Shielded cathode mode bulk effect devices
[NASA-CASE-ERC-10119] c 26 N72-21701
Process for making RF shielded cable connector assemblies and the products formed thereby
[NASA-CASE-GSC-11215-1] c 09 *N73-28083*
RADIO INTERFEROMETERS
System for real-time crustal deformation monitoring
[NASA-CASE-NPO-14124-1] c 46 N80-14603
RADIO PROBING
Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846
RADIO RECEIVERS
Multiple input radio receiver Patent
[NASA-CASE-XLA-00901] c 07 N71-10775
Optimum predetection diversity receiving system Patent
[NASA-CASE-XGS-00740] c 07 N71-23098
Radio frequency arraying method for receivers
[NASA-CASE-NPO-14328-1] c 32 N80-18253
Interferometric locating system
[NASA-CASE-NPO-14173-1] c 04 N80-32359
RADIO RELAY SYSTEMS
Satellite communication system Patent
[NASA-CASE-XNP-02389] c 07 N71-28900
Systems and methods for determining radio frequency interference
[NASA-CASE-GSC-12150-1] c 32 N79-11265
RADIO SIGNALS
Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309
Millimeter wave radiometer for radio astronomy Patent
[NASA-CASE-XNP-09832] c 30 N71-23723
RADIO SOURCES (ASTRONOMY)
Conical scan tracking system employing a large antenna
[NASA-CASE-NPO-14009-1] c 32 N79-13214
RADIO STARS
Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174
RADIO TELEMETRY
Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001
RADIO TELESCOPES
Antenna grout replacement system
[NASA-CASE-NPO-15202-1] c 27 N83-34043
RADIO TRANSMITTERS
Vehicle locating system utilizing AM broadcasting station carriers
[NASA-CASE-NPO-13217-1] c 32 N75-26194
Aircraft-mounted crash-activated transmitter device
[NASA-CASE-MFS-16609-3] c 03 N76-32140
Low-frequency radio navigation system
[NASA-CASE-NPO-15264-1] c 04 N84-27713
Tone calibrated digital radio communication system
[NASA-CASE-NPO-16414-1-CU] c 32 N85-29121

RADIO WAVES
Shielded cathode mode bulk effect devices
[NASA-CASE-ERC-10119] c 26 N72-21701
RADIOACTIVE ISOTOPES
Thermally cascaded thermoelectric generator
[NASA-CASE-NPO-10753] c 03 N72-26031
Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c 73 N75-30876
Radionuclide counting technique for measuring wind velocity and direction
[NASA-CASE-LAR-12971-1] c 47 N84-28292
RADIOBIOLOGY
Production of high purity I-123
[NASA-CASE-LEW-10518-1] c 24 N72-33681
RADIOGRAPHY
Determination of spot weld quality Patent
[NASA-CASE-XNP-02588] c 15 N71-18613
Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MSC-14276-1] c 52 N77-14737
Medical clip
[NASA-CASE-LAR-12650-1] c 52 N84-28388
Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28389
X-ray determination of parts alignment
[NASA-CASE-MSC-20418-1] c 74 N86-20126
RADIOLOGY
Hyperthermia heating apparatus --- cancer therapy
[NASA-CASE-NPO-14549-2] c 52 N82-33996
RADIOLYSIS
Process for making anhydrous metal halides
[NASA-CASE-LEW-11860-1] c 37 N76-18458
RADIOMETERS
Compensating radiometer
[NASA-CASE-XLA-04556] c 14 N69-27484
Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475
Black body cavity radiometer Patent
[NASA-CASE-NPO-10810] c 14 N71-27323
Thermodielectric radiometer utilizing polymer film
[NASA-CASE-ARC-10138-1] c 14 N72-24477
Two color horizon sensor
[NASA-CASE-ERC-10174] c 14 N72-25409
Clear air turbulence detector
[NASA-CASE-ERC-10081] c 14 N72-28437
Method and apparatus for measuring solar activity and atmospheric radiation effects
[NASA-CASE-ERC-10276] c 14 N73-26432
Steady state thermal radiometers
[NASA-CASE-MFS-21108-1] c 34 N74-27861
Method and apparatus for precision control of radiometer
[NASA-CASE-NPO-15398-1] c 35 N84-22931
RADIOSONDES
Induction powered biological radiosonde
[NASA-CASE-ARC-11120-1] c 52 N80-18691
RAIN
Precipitation detector Patent
[NASA-CASE-XLA-02619] c 10 N71-26334
Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212
RAMJET ENGINES
Telescoping-spike supersonic inlet for aircraft engines Patent
[NASA-CASE-XLE-00005] c 28 N70-39899
Hypersonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168
RAMPS (STRUCTURES)
Automated multi-level vehicle parking system
[NASA-CASE-NPO-13058-1] c 37 N77-22480
RANDOM ACCESS MEMORY
Memory-based frame synchronizer --- for digital communication systems
[NASA-CASE-GSC-12430-1] c 60 N82-16747
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491
RANDOM LOADS
Fatigue testing device Patent
[NASA-CASE-XLA-02131] c 32 N70-42003
RANDOM NOISE
Noise limiter Patent
[NASA-CASE-NPO-10169] c 10 N71-24844
Digital servo control of random sound test excitation --- in reverberant acoustic chamber
[NASA-CASE-NPO-11623-1] c 71 N74-31148
Random pulse generator
[NASA-CASE-MSC-14131-1] c 33 N75-19515
Pseudo noise code and data transmission method and apparatus
[NASA-CASE-GSC-12017-1] c 32 N77-30308
RANGE (EXTREMES)
Logarithmic circuit with wide dynamic range
[NASA-CASE-GSC-12145-1] c 33 N78-32339
RANGE FINDERS
Closed loop ranging system Patent
[NASA-CASE-XNP-01501] c 21 N70-41930
Digital demodulator-correlator
[NASA-CASE-NPO-13982-1] c 32 N79-14267
Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
RANGEFINDING
Dynamic Doppler simulator Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391
Ranging system Patent
[NASA-CASE-NPO-10066] c 09 N71-18598
Binary coded sequential acquisition ranging system
[NASA-CASE-NPO-11194] c 08 N72-25209
Code regenerative clean-up loop transponder for a mu-type ranging system
[NASA-CASE-NPO-11707] c 07 N73-25161
Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c 19 N74-21015
Optical distance measuring instrument
[US-PATENT-APPL-SN-406820] c 74 N83-13982
RARE EARTH COMPOUNDS
Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10608
High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455
RARE GASES
Inert gas metallic vapor laser
[NASA-CASE-NPO-13449-1] c 36 N75-32441
Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N82-33681
Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253
RAREFIED GASES
Magnetically controlled plasma accelerator Patent
[NASA-CASE-XLA-00327] c 25 N71-29184
RATES (PER TIME)
Rate data encoder
[NASA-CASE-LAR-10128-1] c 08 N73-20217
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
RC CIRCUITS
Pulse counting circuit which simultaneously indicates the occurrence of the nth pulse Patent
[NASA-CASE-XMF-00906] c 09 N70-41655
RC rate generator for slow speed measurement Patent
[NASA-CASE-XMF-02966] c 10 N71-24863
Transient augmentation circuit for pulse amplifiers Patent
[NASA-CASE-XNP-01068] c 10 N71-28739
Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256
RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171
Active RC networks
[NASA-CASE-ARC-10020] c 10 N72-17172
Multiloop RC active filter apparatus having low parameter sensitivity with low amplifier gain
[NASA-CASE-ARC-10192] c 09 N72-21245
Temperature control system with a pulse width modulated bridge
[NASA-CASE-NPO-11304] c 14 N73-26430
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c 33 N75-19520
REACTION CONTROL
Voice operated controller Patent
[NASA-CASE-XLA-04063] c 31 N71-33160
REACTION KINETICS
Synthesis of polyformals
[NASA-CASE-ARC-11244-1] c 23 N82-16174
REACTION TIME
Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179
REACTION WHEELS
Reaction wheel scanner Patent
[NASA-CASE-XGS-02629] c 14 N71-21082
Gravity gradient attitude control system Patent
[NASA-CASE-GSC-10555-1] c 21 N71-27324
Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N85-20299
REACTIVITY
Gaseous control system for nuclear reactors
[NASA-CASE-XLE-04599] c 22 N72-20597
REACTOR CORES
Uninsulated in-core thermionic diode
[NASA-CASE-NPO-10542] c 09 N72-27228
REACTOR DESIGN
Non-equilibrium radiation nuclear reactor
[NASA-CASE-HQN-10841-1] c 73 N78-19920
Thermal reactor --- liquid silicon production from silane gas
[NASA-CASE-NPO-14369-1] c 44 N83-10501
REACTOR MATERIALS
Zirconium modified nickel-copper alloy
[NASA-CASE-LEW-12245-1] c 26 N77-20201
REACTOR PHYSICS
Non-equilibrium radiation nuclear reactor
[NASA-CASE-HQN-10841-1] c 73 N78-19920
READ-ONLY MEMORY DEVICES
Nanosequencer digital logic controller
[NASA-CASE-NPO-16116-1] c 60 N84-25306
A method and apparatus for operating on companded PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N85-29120
READOUT
Flow angle sensor and read out system Patent
[NASA-CASE-XLE-04503] c 14 N71-24864
Plural position switch status and operativeness checker Patent
[NASA-CASE-XLA-08799] c 10 N71-27272
Magneto-optic detection system with noise cancellation
[NASA-CASE-NPO-11954-1] c 35 N78-29421
REAL TIME OPERATION
Respiratory analysis system and method
[NASA-CASE-MSC-13436-1] c 05 N73-32015
Real time moving scene holographic camera system
[NASA-CASE-MFS-21087-1] c 35 N74-17153
Real time, large volume, moving scene holographic camera system
[NASA-CASE-MFS-22537-1] c 35 N75-27328
Carbon monoxide monitor --- using real time operation
[NASA-CASE-MFS-22060-1] c 35 N75-29380
Real time analysis of voiced sounds
[NASA-CASE-NPO-13465-1] c 32 N76-31372
Real time reflectometer --- measurement of specular reflectance
[NASA-CASE-MFS-23118-1] c 35 N77-31465
Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c 52 N79-10724
Azimuth correlator for real-time synthetic aperture radar image processing
[NASA-CASE-NPO-14019-1] c 32 N79-14268
System for real-time crustal deformation monitoring
[NASA-CASE-NPO-14124-1] c 46 N80-14603
X-ray position detector
[NASA-CASE-NPO-12087-1] c 74 N81-19898
Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297
Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651
Optical stereo video signal processor
[NASA-CASE-MFS-25752-1] c 74 N86-21348
REBREATHING
Portable breathing system --- a breathing apparatus using a rebreathing system of heat exchangers for carbon dioxide removal
[NASA-CASE-MSC-16182-1] c 54 N80-10799
RECEIVERS
System for improving signal-to-noise ratio of a communication signal Patent Application
[NASA-CASE-MSC-12259-1] c 07 N70-12616
Receiver with an improved phase lock loop in a multichannel telemetry system with suppressed carrier
[NASA-CASE-NPO-11593-1] c 07 N73-28012
Automatic carrier acquisition system
[NASA-CASE-NPO-11628-1] c 07 N73-30113
Coherent receiver employing nonlinear coherence detection for carrier tracking
[NASA-CASE-NPO-11921-1] c 32 N74-30523
Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c 32 N76-16249
Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346
Self-calibrating threshold detector
[NASA-CASE-MSC-16370-1] c 35 N81-19427
High dynamic global positioning system receiver
[NASA-CASE-NPO-16171-1-CU] c 04 N84-12151
Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] c 32 N84-27952

Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723

RECIPROCATION
Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082

RECONSTRUCTION
Method and means for recording and reconstructing holograms without use of a reference beam Patent
[NASA-CASE-ERC-10020] c 16 N71-26154

RECORDING HEADS
Electromagnetic transducer recording head having a laminated core section and tapered gap
[NASA-CASE-NPO-10711-1] c 35 N77-21392

RECORDING INSTRUMENTS
Automatic force measuring system Patent
[NASA-CASE-XLA-02605] c 14 N71-10773
Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
[NASA-CASE-XMS-06061] c 05 N71-23317
Helical recorder arrangement for multiple channel recording on both sides of the tape
[NASA-CASE-GSC-10614-1] c 09 N72-11224
Thermomagnetic recording and magneto-optic playback system having constant intensity laser beam control
[NASA-CASE-NPO-11317-2] c 36 N74-13205
Holography utilizing surface plasmon resonances
[NASA-CASE-MFS-22040-1] c 35 N74-26946
Measuring probe position recorder
[NASA-CASE-LAR-10806-1] c 35 N74-32877

RECOVERABILITY
Ejectable underwater sound source recovery assembly
[NASA-CASE-LAR-10595-1] c 35 N74-16135

RECOVERABLE LAUNCH VEHICLES
Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176
Oribter/launch system
[NASA-CASE-LAR-12250-1] c 14 N81-26161

RECOVERABLE SPACECRAFT
Space capsule ejection assembly Patent
[NASA-CASE-XMF-03169] c 31 N71-15675

RECOVERY PARACHUTES
Vehicle parachute and equipment jettison system Patent
[NASA-CASE-XLA-00195] c 02 N70-38009
Vortex breech high pressure gas generator
[NASA-CASE-LAR-10549-1] c 31 N73-13898

RECTANGULAR PANELS
Stacked solar cell arrays
[NASA-CASE-NPO-11771] c 03 N73-20040
Composite sandwich lattice structure
[NASA-CASE-LAR-11898-1] c 24 N78-10214

RECTIFIERS
Thin window, drifted silicon, charged particle detector
[NASA-CASE-XLE-10529] c 14 N69-23191
Power control circuit
[NASA-CASE-XNP-02713] c 10 N69-39888
Precision rectifier with FET switching means Patent
[NASA-CASE-ARC-10101-1] c 09 N71-33109
SCR lamp driver
[NASA-CASE-GSC-10221-1] c 09 N72-23171
A dc to ac to dc converter having transistor synchronous rectifiers
[NASA-CASE-GSC-11126-1] c 09 N72-25253
Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393

RECTUM
Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875

REDOX CELLS
Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524
Zirconium carbide as an electrocatalyst for the chromous-chromic redox couple
[NASA-CASE-LEW-13246-1] c 44 N83-27344
Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205
Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721
Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680

REDUCED GRAVITY
Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
Mass measuring system Patent
[NASA-CASE-XMS-03371] c 05 N70-42000
Reduced gravity simulator Patent
[NASA-CASE-XLA-01787] c 11 N71-16028
Restraint system for ergometer
[NASA-CASE-MFS-21046-1] c 14 N73-27377
Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442
Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283

REDUCTION (CHEMISTRY)
Production of metal powders
[NASA-CASE-XLE-06461] c 17 N72-22530
Process for making anhydrous metal halides
[NASA-CASE-LEW-11860-1] c 37 N76-18458
Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same
[NASA-CASE-NPO-13137-1] c 27 N80-32514
Hydrodesulfurization of chlorinized coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743

REDUNDANCY
Reconfiguring redundancy management
[NASA-CASE-MSC-18498-1] c 60 N82-29013

REDUNDANT COMPONENTS
Redundant memory organization Patent
[NASA-CASE-GSC-10564] c 10 N71-29135
Redundant disc
[NASA-CASE-LEW-12496-1] c 07 N78-33101
Redundant motor drive system
[NASA-CASE-MFS-23777-1] c 37 N80-32716
Redundant operation of counter modules
[NASA-CASE-NPO-14162-1] c 60 N81-15706

REELS
Method and apparatus for measuring web material wound on a reel
[NASA-CASE-GSC-11902-1] c 38 N77-17495
Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669

REENTRY COMMUNICATION
Electrostatic plasma modulator for space vehicle re-entry communication Patent
[NASA-CASE-XLA-01400] c 07 N70-41331
Means for communicating through a layer of ionized gases Patent
[NASA-CASE-XLA-01127] c 07 N70-41372
Reentry communication by material addition Patent
[NASA-CASE-XLA-01552] c 07 N71-11284

REENTRY SHIELDING
Transpirationally cooled heat ablation system Patent
[NASA-CASE-XMS-02677] c 31 N70-42075
Method and apparatus for making a heat insulating and ablative structure Patent
[NASA-CASE-XMS-02009] c 33 N71-20834
Stand-off type ablative heat shield
[NASA-CASE-MSC-12143-1] c 33 N72-17947
Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c 73 N75-30876
Fibrous refractory composite insulation --- shielding reusable spacecraft
[NASA-CASE-ARC-11169-1] c 24 N79-24062
Adjustable high emittance gap filler --- reentry shielding for space shuttle vehicles
[NASA-CASE-ARC-11310-1] c 27 N82-24339
Method for repair of thin glass coatings --- on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520

REENTRY TRAJECTORIES
Hypersonic reentry vehicle Patent
[NASA-CASE-XMS-04142] c 31 N70-41631

REENTRY VEHICLES
Reentry vehicle leading edge Patent
[NASA-CASE-XLA-00165] c 31 N70-33242
Variable-geometry winged reentry vehicle Patent
[NASA-CASE-XLA-00241] c 31 N70-37986
Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699
Ablation sensor Patent
[NASA-CASE-XLA-01791] c 14 N71-22991
Ring wing tension vehicle Patent
[NASA-CASE-XLA-04901] c 31 N71-24315
Ferry system
[NASA-CASE-LAR-10574-1] c 11 N73-13257
Vortex breech high pressure gas generator
[NASA-CASE-LAR-10549-1] c 31 N73-13898
Three-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-2] c 27 N76-23426

REFERENCE SYSTEMS
Automatic frequency control loop including synchronous switching circuits
[NASA-CASE-KSC-10393] c 09 N72-21247
Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056

REFINING
Helium refining by superfluidity Patent
[NASA-CASE-XNP-00733] c 06 N70-34946

REFLECTANCE
Optical characteristics measuring apparatus Patent
[NASA-CASE-XNP-08840] c 23 N71-16365
Gravimeter Patent
[NASA-CASE-XMF-05844] c 14 N71-17587
Optical mirror apparatus Patent
[NASA-CASE-ERC-10001] c 23 N71-24868
Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] c 35 N84-33766
Wide-angle flat field telescope
[NASA-CASE-GSC-12825-1] c 74 N85-20868
Diffusely reflecting paints including polytetrafluoroethylene and method of manufacture
[NASA-CASE-GSC-12883-1] c 27 N85-29044

REFLECTED WAVES
Device and method for determining X ray reflection efficiency of optical surfaces
[NASA-CASE-MFS-20243] c 23 N73-13662
Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c 36 N75-15028
Reflected-wave maser --- low noise amplifier
[NASA-CASE-NPO-13490-1] c 36 N76-31512
X-ray imaging mirror system and method of producing the same
[NASA-CASE-NPO-15828-1] c 74 N83-30222

REFLECTING TELESCOPES
Anastigmatic three-mirror telescope
[NASA-CASE-MFS-23675-1] c 89 N79-10969

REFLECTION
Synthesis of zinc titanate pigment and coatings containing the same
[NASA-CASE-MFS-13532] c 18 N72-17532
Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector --- for determining density of gas
[NASA-CASE-ARC-10631-1] c 74 N76-20958
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629

REFLECTOMETERS
Ellipsoidal mirror reflectometer including means for averaging the radiation reflected from the sample Patent
[NASA-CASE-XGS-05291] c 23 N71-16341
Real time reflectometer --- measurement of specular reflectance
[NASA-CASE-MFS-23118-1] c 35 N77-31465
Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443
Visible and infrared polarization ratio spectroreflectometer
[NASA-CASE-LAR-12285-1] c 35 N80-28687

REFLECTOR ANTENNAS
Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355

REFLECTORS
Reflector space satellite Patent
[NASA-CASE-XLA-00138] c 31 N70-37981
Self-erecting reflector Patent
[NASA-CASE-XGS-09190] c 31 N71-16102
Spectroscope equipment using a slender cylindrical reflector as a substitute for a slit Patent
[NASA-CASE-XGS-08269] c 23 N71-26206
Conical reflector antenna
[NASA-CASE-NPO-10303] c 07 N72-22127
Target acquisition antenna
[NASA-CASE-GSC-10064-1] c 10 N72-22235
Multi-purpose antenna employing dish reflector with plural coaxial horn feeds
[NASA-CASE-NPO-11264] c 07 N72-25174
Multiple reflection conical microwave antenna
[NASA-CASE-NPO-11661] c 07 N73-14130
Non-tracking solar energy collector system
[NASA-CASE-NPO-13813-1] c 44 N78-31526
Solar cell having improved back surface reflector
[NASA-CASE-LEW-13620-1] c 44 N83-13579
Acoustic suspension system
[NASA-CASE-NPO-15435-1] c 71 N83-36846
Optical system with reflective baffles
[NASA-CASE-ARC-11502-1] c 74 N86-20125
Welding torch arc light reflector
[NASA-CASE-MFS-29134-1] c 74 N86-20130
Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276

REFRACTIVITY
The 2 deg/90 deg laboratory scattering photometer --- particulate refractivity in hydrosols
[NASA-CASE-GSC-12088-1] c 74 N78-13874
Chromatically corrected virtual image visual display --- reducing eye strain in flight simulators
[NASA-CASE-LAR-12251-1] c 74 N80-27185
Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
X-ray imaging mirror system and method of producing the same
[NASA-CASE-NPO-15828-1] c 74 N83-30222

Photorefractor ocular screening system
[NASA-CASE-MFS-26011-1SB] c 52 N85-20639
REFRACTORY COATINGS
Refractory coatings and method of producing the same
[NASA-CASE-LEW-13169-1] c 26 N82-29415
Refractory coatings
[NASA-CASE-LEW-13169-2] c 26 N82-30371
Method for repair of thin glass coatings --- on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520
Thermal barrier coating system
[NASA-CASE-LEW-13324-2] c 24 N85-21266
REFRACTORY MATERIALS
High temperature testing apparatus Patent
[NASA-CASE-XLE-00335] c 14 N70-35368
Prestressed refractory structure Patent
[NASA-CASE-XNP-02888] c 18 N71-21068
Method of manufacturing semiconductor devices using refractory dielectrics
[NASA-CASE-XER-08476-1] c 26 N72-17820
High temperature furnace for melting materials in space
[NASA-CASE-MFS-20710] c 11 N72-23215
High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302
High temperature resistant cermet and ceramic compositions
[NASA-CASE-NPO-13690-2] c 27 N79-14213
Fibrous refractory composite insulation --- shielding reusable spacecraft
[NASA-CASE-ARC-11169-1] c 24 N79-24062
Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307
Improved refractory coatings --- sputtered coatings on substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209
Adjustable high emittance gap filler --- reentry shielding for space shuttle vehicles
[NASA-CASE-ARC-11310-1] c 27 N82-24339
Attachment system for silica tiles --- thermal protection for space shuttle orbiter
[NASA-CASE-MSC-18741-1] c 27 N82-29456
Densification of porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18737-1] c 24 N83-13171
Method of repairing surface damage to porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18736-1] c 24 N83-13172
High temperature silicon carbide impregnated insulating fabrics
[NASA-CASE-MSC-18832-1] c 27 N83-18908
Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482
High temperature resistant polyimide from tetra ester, diamine, diester and N-arylnadimide
[NASA-CASE-LEW-13864-1] c 27 N86-19457
REFRACTORY METALS
Radiant heater having formed filaments Patent
[NASA-CASE-XLE-00387] c 33 N70-34812
Method of producing refractory bodies having controlled porosity Patent
[NASA-CASE-LEW-10393-1] c 17 N71-15468
Multilayer porous ionizer Patent
[NASA-CASE-XNP-04338] c 17 N71-23046
Brazing alloy Patent
[NASA-CASE-XNP-03063] c 17 N71-23365
Thermal radiation shielding Patent
[NASA-CASE-XLE-03432] c 33 N71-24145
Method of producing refractory composites containing tantalum carbide, hafnium carbide, and hafnium boride Patent
[NASA-CASE-XLE-03940] c 18 N71-26153
Silicide coatings for refractory metals Patent
[NASA-CASE-XLE-10910] c 18 N71-29040
Refractory metal base alloy composites
[NASA-CASE-XLE-03940-2] c 17 N72-28536
Fused silicide coatings containing discrete particles for protecting niobium alloys --- used in space shuttle thermal protection systems and turbine engine components
[NASA-CASE-LEW-11179-1] c 27 N76-16229
Method of making an apertured casting --- using duplicate mold
[NASA-CASE-LEW-11169-1] c 37 N76-23570
Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] c 27 N84-22748
REFRIGERATING
Helium refrigerator and method for decontaminating the refrigerator
[NASA-CASE-NPO-10634] c 23 N72-25619
Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625
REFRIGERATING MACHINERY
Refrigeration apparatus
[NASA-CASE-NPO-10309] c 15 N69-23190
Refrigeration apparatus Patent
[NASA-CASE-XNP-08877] c 15 N71-23025
Dual solid cryogens for spacecraft refrigeration Patent
[NASA-CASE-GSC-10188-1] c 23 N71-24725
Stirling cycle engine and refrigeration systems
[NASA-CASE-NPO-13613-1] c 37 N76-29590
Cycling Joule Thomson refrigerator
[NASA-CASE-NPO-15251-1] c 31 N83-31897
Vibration isolation and pressure compensation apparatus for sensitive instrumentation
[NASA-CASE-LAR-12728-1] c 35 N83-32026
Magentically actuated compressor
[NASA-CASE-GSC-12799-1] c 31 N85-21404
REFRIGERATORS
Intermittent type silica gel adsorption refrigerator Patent
[NASA-CASE-XNP-00920] c 15 N71-15906
Helium refrigerator
[NASA-CASE-NPO-13435-1] c 31 N76-14284
Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029
Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082
Ten degree Kelvin hydride refrigerator
[NASA-CASE-NPO-16393-1-CU] c 31 N85-29084
REGENERATION (ENGINEERING)
Switching circuit employing regeneratively connected complementary transistors Patent
[NASA-CASE-XNP-02654] c 10 N70-42032
Regenerative braking system Patent
[NASA-CASE-XMF-01096] c 10 N71-16030
Free-piston regenerative hot gas hydraulic engine
[NASA-CASE-LEW-12274-1] c 37 N80-31790
REGENERATION (PHYSIOLOGY)
Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863
REGENERATIVE COOLING
Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00164] c 15 N70-36411
Method of making a regeneratively cooled combustion chamber Patent
[NASA-CASE-XLE-00150] c 28 N70-41818
Small rocket engine Patent
[NASA-CASE-XLE-00685] c 28 N70-41992
Combustion chamber Patent
[NASA-CASE-XLE-04857] c 28 N71-23968
Method of making apparatus for sensing temperature
[NASA-CASE-XLE-05230-2] c 14 N73-13417
REGENERATIVE FUEL CELLS
Electrolytically regenerative hydrogen-oxygen fuel cell Patent
[NASA-CASE-XLE-04526] c 03 N71-11052
REGENERATORS
Code regenerative clean-up loop transponder for a mu-type ranging system
[NASA-CASE-NPO-11707] c 07 N73-25161
Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625
REGISTERS (COMPUTERS)
Variable digital processor including a register for shifting and rotating bits in either direction Patent
[NASA-CASE-GSC-10186] c 08 N71-33110
Priority interrupt system --- comprised of four registers
[NASA-CASE-NPO-13067-1] c 60 N76-18800
REINFORCED PLASTICS
Tube fabricating process
[NASA-CASE-LAR-10203-1] c 15 N72-16330
Reinforced structural plastics
[NASA-CASE-LEW-10199-1] c 27 N74-23125
REINFORCEMENT (STRUCTURES)
Reinforcing means for diaphragms Patent
[NASA-CASE-XNP-01962] c 32 N70-41370
Cure-in-place composite fastener
[NASA-CASE-LAR-12939-1] c 37 N86-20798
REINFORCING FIBERS
Reinforced metallic composites Patent
[NASA-CASE-XLE-02428] c 17 N70-33288
Method of making fiber reinforced metallic composites Patent
[NASA-CASE-XLE-00231] c 17 N70-38198
Method for producing fiber reinforced metallic composites Patent
[NASA-CASE-XLE-03925] c 18 N71-22894
Thermal protection ablation spray system Patent
[NASA-CASE-XLA-04251] c 18 N71-26100
Method of preparing graphite reinforced aluminum composite
[NASA-CASE-MFS-21077-1] c 24 N75-28135
Crystalline polyimides --- reinforcing fibers for high temperature composites and adhesives as well as flame retardation
[NASA-CASE-LAR-12099-1] c 27 N80-16158
Composition and method for making polyimide resin-reinforced fabric
[NASA-CASE-LEW-12933-1] c 27 N81-19296
High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455
Method of carbonizing polyacrylonitrile fibers
[NASA-CASE-ARC-11261-1] c 24 N83-25789
Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] c 24 N84-11213
Lightweight piston
[NASA-CASE-LAR-13150-1] c 24 N85-28975
RELAXATION OSCILLATORS
Voltage to frequency converter Patent
[NASA-CASE-GSC-10022-1] c 10 N71-25882
RELAY SATELLITES
Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c 07 N71-24621
Satellite personal communications system
[NASA-CASE-NPO-14480-1] c 32 N80-20448
RELEASING
Despin weight release Patent
[NASA-CASE-XLA-00679] c 15 N70-38601
Quick attach and release fluid coupling assembly Patent
[NASA-CASE-XKS-01985] c 15 N71-10782
Redundant actuating mechanism Patent
[NASA-CASE-XGS-08718] c 15 N71-24600
Quick release hook tape Patent
[NASA-CASE-XMS-10660-1] c 15 N71-25975
Delayed simultaneous release mechanism
[NASA-CASE-GSC-10814-1] c 03 N73-20039
Fully redundant mechanical release actuator
[NASA-CASE-LAR-13198-1] c 37 N85-29287
Slide release mechanism --- for space shuttle orbiter/external tank connection device
[NASA-CASE-MSC-20080-1] c 37 N85-30334
Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N86-19613
RELIABILITY ANALYSIS
Program for computer aided reliability estimation
[NASA-CASE-NPO-13086-1] c 15 N73-12495
RELIABILITY ENGINEERING
Method of improving the reliability of a rolling element system Patent
[NASA-CASE-XLE-02999] c 15 N71-16052
Inspection gage for boss Patent
[NASA-CASE-XMF-04966] c 14 N71-17658
Valving device for automatic refilling in cryogenic liquid systems
[NASA-CASE-NPO-11177] c 15 N72-17453
Electrical connector
[NASA-CASE-NPO-10694] c 09 N72-20200
Inherent redundacy electric heater
[NASA-CASE-MFS-21462-1] c 33 N74-14935
Hollow rolling element bearings
[NASA-CASE-LEW-11087-3] c 37 N74-21064
Reconfiguring redundancy management
[NASA-CASE-MSC-18498-1] c 60 N82-29013
Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] c 35 N84-33769
Lightweight piston
[NASA-CASE-LAR-13150-1] c 24 N85-28975
RELIEF MAPS
Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711
RELIEF VALVES
Relief valve
[NASA-CASE-XMS-05894-1] c 15 N69-21924
Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968
Redundant hydraulic control system for actuators
[NASA-CASE-MFS-20944] c 15 N73-13466
Prosthetic urinary sphincter
[NASA-CASE-MFS-23717-1] c 52 N81-25660
Ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-1] c 52 N83-21785
REMOTE CONTROL
Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27461
Tubular coupling having frangible connecting means
[NASA-CASE-XLA-02854] c 15 N69-27490
Bimetallic power controlled actuator
[NASA-CASE-XNP-09776] c 09 N69-39929
Fluid coupling Patent
[NASA-CASE-XLE-00397] c 15 N70-36492
Umbilical disconnect Patent
[NASA-CASE-XLA-00711] c 03 N71-12258

Remote controlled tubular disconnect Patent
[NASA-CASE-XLA-01396] c 03 N71-12259
Three-axis finger tip controller for switches Patent
[NASA-CASE-XAC-02405] c 09 N71-16089
Satellite communication system Patent
[NASA-CASE-XNP-02389] c 07 N71-28900
Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125
Solid state remote circuit selector switch
[NASA-CASE-LEW-10387] c 09 N72-22201
Laser communication system for controlling several functions at a location remote to the laser
[NASA-CASE-LAR-10311-1] c 16 N73-16536
Cooperative multiaxis sensor for teleoperation of article manipulating apparatus
[NASA-CASE-NPO-13386-1] c 54 N75-27758
Remotely operable articulated manipulator
[NASA-CASE-MFS-22707-1] c 37 N76-15457
Remote manipulator system
[NASA-CASE-MFS-22022-1] c 37 N76-15460
Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315
Simulator method and apparatus for practicing the mating of an observer-controlled object with a target
[NASA-CASE-MFS-23052-2] c 74 N79-13855
Terminal guidance sensor system
[NASA-CASE-NPO-14521-1] c 54 N79-20746
Terminal guidance sensor system --- space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519
Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117
Digital control of diode laser for atmospheric spectroscopy
[NASA-CASE-NPO-16000-1] c 36 N85-29264
Remotely operable peristaltic pump
[NASA-CASE-MFS-28059-1] c 37 N85-29288
Apparatus and method of capturing an orbiting satellite
[NASA-CASE-MSC-20979-1] c 37 N86-19614
Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N86-20804

REMOTE HANDLING
Remote control manipulator for zero gravity environment
[NASA-CASE-MFS-14405] c 15 N72-28495
Apparatus for remote handling of materials --- mixing or analyzing dangerous chemicals
[NASA-CASE-LAR-10634-1] c 37 N74-18123
Anthropomorphic master/slave manipulator system
[NASA-CASE-ARC-10756-1] c 54 N77-32721
Controller arm for a remotely related slave arm
[NASA-CASE-ARC-11052-1] c 37 N79-28551
Apparatus for sequentially transporting containers
[NASA-CASE-MFS-23846-1] c 37 N82-32731
Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] c 37 N85-29286

REMOTE MANIPULATOR SYSTEM
Coupling device for moving vehicles
[NASA-CASE-GSC-12322-1] c 37 N80-14398
Apparatus and method of capturing an orbiting satellite
[NASA-CASE-MSC-20979-1] c 37 N86-19614
Mobile remote manipulator vehicle system
[NASA-CASE-LAR-13393-1] c 54 N86-21147

REMOTE SENSING
Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846

REMOTE SENSORS
Passive optical wind and turbulence detection system Patent
[NASA-CASE-XMF-14032] c 20 N71-16340
Pressure monitoring with a plurality of ionization gauges controlled at a central location Patent
[NASA-CASE-XLE-00787] c 14 N71-21090
Flow angle sensor and read out system Patent
[NASA-CASE-XLE-04503] c 14 N71-24864
Time synchronization system utilizing moon reflected coded signals Patent
[NASA-CASE-NPO-10143] c 10 N71-26326
Clear air turbulence detector
[NASA-CASE-ERC-10081] c 14 N72-28437
Intruder detection system
[NASA-CASE-ARC-10097-2] c 07 N73-25160
Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver
[NASA-CASE-MFS-21470-1] c 44 N74-19870
Voltage monitoring system
[NASA-CASE-KSC-10736-1] c 33 N75-19521
Wind sensor
[NASA-CASE-NPO-13462-1] c 35 N76-24524
Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c 35 N77-10493
Wind measurement system
[NASA-CASE-MFS-23362-1] c 47 N77-10753
Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367
Remote sensing of vegetation and soil using microwave ellipsometry
[NASA-CASE-GSC-11976-1] c 43 N78-10529
Remote water monitoring system
[NASA-CASE-LAR-11973-1] c 35 N78-27384
Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498
Method of and apparatus for measuring temperature and pressure --- atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639

REMOTELY PILOTED VEHICLES
Rotating launch device for a remotely piloted aircraft
[NASA-CASE-ARC-10979-1] c 09 N77-19076

REMOVAL
Catalyst bed removing tool Patent
[NASA-CASE-XFR-00811] c 15 N70-36901
Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119
Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781

REPEATERS
Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773

REPLACING
Electron beam tube containing a multiple cathode array employing indexing means for cathode substitution Patent
[NASA-CASE-NPO-10625] c 09 N71-26182

RESCUE OPERATIONS
Backpack carrier Patent
[NASA-CASE-LAR-10056] c 05 N71-12351
Rescue litter flotation assembly Patent
[NASA-CASE-XMS-04170] c 05 N71-22748
Method of locating persons in distress --- by using radar imagery from radar reflectors
[NASA-CASE-LAR-11390-1] c 32 N77-21267
Apparatus and method of capturing an orbiting satellite
[NASA-CASE-MSC-20979-1] c 37 N86-19614

RESEARCH AIRCRAFT
Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295

RESEARCH AND DEVELOPMENT
Tube fabricating process
[NASA-CASE-LAR-10203-1] c 15 N72-16330

RESEARCH VEHICLES
Lunar landing flight research vehicle Patent
[NASA-CASE-XFR-00929] c 31 N70-34966
Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895

RESIDUAL STRESS
Miniature stress transducer Patent
[NASA-CASE-XNP-02983] c 14 N71-21091
Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MSC-90153-2] c 05 N72-25120

RESILIENCE
Resilience testing device Patent
[NASA-CASE-XLA-08254] c 14 N71-26161

RESIN BONDING
Method and apparatus for bonding a plastics sleeve onto a metallic body Patent
[NASA-CASE-XLA-01262] c 15 N71-21404
Covered silicon solar cells and method of manufacture --- with polymeric films
[NASA-CASE-LEW-11065-2] c 44 N76-14600
Method of manufacture of bonded fiber flywheel --- fiberglass-epoxy
[NASA-CASE-MFS-23674-1] c 24 N81-29163

RESIN MATRIX COMPOSITES
Phosphorus-containing bisimide resins
[NASA-CASE-ARC-11321-1] c 27 N81-27272
Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900
Method of tracing contour patterns for use in making gradual contour resin matrix composites
[NASA-CASE-ARC-11246-1] c 31 N83-34073
High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1-SB] c 24 N85-30033
Process for preparing phthalocyanine polymers
[NASA-CASE-ARC-11511-2] c 27 N86-19461
Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560
High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1SB] c 24 N86-21590

RESINS
Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739
Bonding or repairing process
[NASA-CASE-MSC-12357] c 15 N73-12489
Semiconductor surface protection material
[NASA-CASE-ERC-10339-1] c 18 N73-30532
Composite lamination method
[NASA-CASE-LAR-12019-1] c 24 N78-17150
Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854
High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1-SB] c 24 N85-30033

RESISTANCE
Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MSC-90153-2] c 05 N72-25120
Variable resistance constant tension and lubrication device --- using oil-saturated leather wiper
[NASA-CASE-KSC-10723-1] c 37 N75-13265
Acoustic ground impedance meter
[NASA-CASE-LAR-12995-1] c 35 N84-22933

RESISTANCE HEATING
Electrothermal rockets having improved heat exchangers Patent
[NASA-CASE-XLE-01783] c 28 N70-34175
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373

RESISTORS
High isolation RF signal selection switches
[NASA-CASE-NPO-13081-1] c 33 N74-22814
Resistive anode image converter
[NASA-CASE-HQN-10876-1] c 33 N76-27473
Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670

RESOLUTION
Analog-to-digital conversion system Patent
[NASA-CASE-XAC-00404] c 08 N70-40125
Spectroscope equipment using a slender cylindrical reflector as a substitute for a slit Patent
[NASA-CASE-XGS-08269] c 23 N71-26206
Resolution enhanced sound detecting apparatus
[NASA-CASE-NPO-14134-1] c 71 N79-23753

RESOLVERS
Differential phase shift keyed signal resolver
[NASA-CASE-MSC-14066-1] c 33 N74-27705
Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355
Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132
Angular measurement system
[NASA-CASE-MFS-25825-1] c 35 N85-20298

RESONANCE
Optically selective, acoustically resonant gas detecting transducer
[NASA-CASE-ARC-10639-1] c 35 N78-13400
Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350
Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N85-20248
Arrangement for damping the resonance in a laser diode
[NASA-CASE-NPO-15980-1] c 36 N85-30305

RESONANT FREQUENCIES
Vibrating element electrometer with output signal magnified over input signal by a function of the mechanical Q of the vibrating element Patent
[NASA-CASE-XAC-02807] c 09 N71-23021
Apparatus for detecting the amount of material in a resonant cavity container Patent
[NASA-CASE-XNP-02500] c 18 N71-27397
Parasitic suppressing circuit
[NASA-CASE-ERC-10403-1] c 10 N73-26228
CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c 39 N78-15512
Microbalance --- for measuring particle mass
[NASA-CASE-MSC-11242] c 35 N78-17358
Method and apparatus for shaping and enhancing acoustical levitation forces
[NASA-CASE-MFS-25050-1] c 71 N81-15767
Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781
Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] c 33 N84-22887

Acoustic ground impedance meter
[NASA-CASE-LAR-12995-1] c 35 N84-22933
Single mode levitation and translation
[NASA-CASE-NPO-16675-1-CU] c 71 N86-20087
Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752

RESONANT VIBRATION
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104

RESONATORS
High-Q bandpass resonators utilizing bandstop resonator pairs
[NASA-CASE-GSC-10990-1] c 09 N73-26195

RESPIRATION
Method and system for respiration analysis Patent
[NASA-CASE-XFR-08403] c 05 N71-11202

RESPIRATORS
Respiration monitor
[NASA-CASE-FRC-10012] c 14 N72-17329

RESPIRATORY RATE
Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10022] c 12 N71-26546
Respiratory analysis system and method
[NASA-CASE-MSC-13436-1] c 05 N73-32015
Metabolic analyzer --- for measuring metabolic rate and breathing dynamics of human beings
[NASA-CASE-MFS-21415-1] c 52 N74-20728

RESPIROMETERS
Metabolic analyzer --- for measuring metabolic rate and breathing dynamics of human beings
[NASA-CASE-MFS-21415-1] c 52 N74-20728

RESPONSES
Frequency division multiplex technique
[NASA-CASE-KSC-10521] c 07 N73-20176

RESTARTABLE ROCKET ENGINES
Zero gravity starting means for liquid propellant motors Patent
[NASA-CASE-XNP-01390] c 28 N70-41275
Small rocket engine Patent
[NASA-CASE-XLE-00685] c 28 N70-41992

RESUSCITATION
Resuscitation apparatus Patent
[NASA-CASE-XMS-01115] c 05 N70-39922

RETAINING
Floating nut retention system
[NASA-CASE-MSC-16938-1] c 37 N80-23653
Modified spiral wound retaining ring
[NASA-CASE-LAR-12361-1] c 37 N83-19091

RETARDERS (DEVICES)
Thrust reverser for a long duct fan engine --- for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293

RETARDING
Ablative resin Patent
[NASA-CASE-XLE-05913] c 33 N71-14032

RETICLES
Optical tracker having overlapping reticles on parallel axes Patent
[NASA-CASE-XGS-05715] c 23 N71-16100
Star tracking reticles and process for the production thereof
[NASA-CASE-GSC-11188-2] c 21 N73-19630
Star tracking reticles
[NASA-CASE-GSC-11188-1] c 14 N73-32320
Formation of star tracking reticles
[NASA-CASE-GSC-11188-3] c 74 N74-20008
Star scanner --- with a reticle with a pair of slits having differing separation
[NASA-CASE-GSC-11569-1] c 89 N74-30886

RETINAL IMAGES
Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117

RETORT PROCESSING
Solar-heated oil shale retort
[NASA-CASE-NPO-16392-1] c 44 N84-32912

RETRACTABLE EQUIPMENT
Runway light Patent
[NASA-CASE-XLA-00119] c 11 N70-33329
Extensible cable support Patent
[NASA-CASE-XMF-07587] c 15 N71-18701
Retractable environmental seal
[NASA-CASE-MFS-23646-1] c 37 N79-22474
Antenna deployment mechanism for use with a spacecraft --- extensible and retractable telescopic antenna mast
[NASA-CASE-GSC-12331-1] c 18 N80-14183
CAM controlled retractable door latch
[NASA-CASE-MSC-20304-1] c 37 N82-31690
Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303

RETROFIRING
Visual target for retrofire attitude control
[NASA-CASE-XMS-12158-1] c 31 N69-27499
Discrete local altitude sensing device Patent
[NASA-CASE-XMS-03792] c 14 N70-41812

RETROREFLECTION
Interferometer servo system Patent
[NASA-CASE-NPO-10300] c 14 N71-17662
Over-under double-pass interferometer
[NASA-CASE-NPO-13999-1] c 35 N78-18395
Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510

RETROREFLECTORS
Interferometer --- high resolution
[NASA-CASE-NPO-14448-1] c 74 N81-29963
Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N82-33681

RETROROCKET ENGINES
Steerable solid propellant rocket motor Patent
[NASA-CASE-XNP-00234] c 28 N70-38645

REUSABLE HEAT SHIELDING
High temperature glass thermal control structure and coating --- for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448

REUSABLE SPACECRAFT
Recoverable single stage spacecraft booster Patent
[NASA-CASE-XMF-01973] c 31 N70-41588
Space shuttle vehicle and system
[NASA-CASE-MSC-12433] c 31 N73-14854
Aerospace vehicle
[NASA-CASE-LAR-13155-1] c 05 N86-19310

REUSE
Silica reusable surface insulation
[NASA-CASE-ARC-10721-1] c 27 N76-22376
Reusable captive blind fastener
[NASA-CASE-MSC-18742-1] c 37 N82-26673

REVERSE OSMOSIS
Reverse osmosis membrane of high urea rejection properties --- water purification
[NASA-CASE-ARC-10980-1] c 27 N80-23452
Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] c 51 N84-28361

REVERSED FLOW
Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00170] c 15 N70-36412
Reversible current control apparatus Patent
[NASA-CASE-XLA-09371] c 10 N71-18724
Positive locking check valve Patent
[NASA-CASE-XMS-09310] c 15 N71-22706
Reverse pitch fan with divided splitter
[NASA-CASE-LEW-12760-1] c 07 N77-17059

REYNOLDS NUMBER
Wind tunnel test section
[NASA-CASE-MFS-20509] c 11 N72-17183

REYNOLDS STRESS
System for measuring Reynolds in a turbulently flowing fluid --- signal processing
[NASA-CASE-ARC-10755-2] c 34 N76-27517

RHENIUM
Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c 35 N77-32454

RHEOMETERS
Viscosity measuring instrument
[NASA-CASE-NPO-14501-1] c 35 N80-18357

RHOMBOIDS
Rhomboid prism pair for rotating the plane of parallel light beams
[NASA-CASE-ARC-11311-1] c 74 N83-13978

RIBBONS
Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00164] c 15 N70-36411
Forming tool for ribbon or wire
[NASA-CASE-XLA-05966] c 15 N72-12408
Twisted multifilament superconductor
[NASA-CASE-LEW-11726-1] c 26 N73-26752
Method of controlling defect orientation in silicon crystal ribbon growth
[NASA-CASE-NPO-13918-1] c 76 N79-11920
Solar array strip and a method for forming the same
[NASA-CASE-NPO-13652-1] c 44 N79-17314
Growth of silicon carbide crystals on a seed while pulling silicon crystals from a melt
[NASA-CASE-NPO-13969-1] c 76 N79-23798
Bonding machine for forming a solar array strip
[NASA-CASE-NPO-13652-2] c 44 N79-24431
Method for forming a solar array strip
[NASA-CASE-NPO-13652-3] c 44 N80-14474
Means for growing ribbon crystals without subjecting the crystals to thermal shock-induced strains
[NASA-CASE-NPO-14298-1] c 76 N80-32244
Method of growing a ribbon crystal particularly suited for facilitating automated control of ribbon width
[NASA-CASE-NPO-14295-1] c 76 N80-32245
Apparatus for use in the production of ribbon-shaped crystals from a silicon melt
[NASA-CASE-NPO-14297-1] c 33 N81-19389
Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888
Ribbon growing method and apparatus
[NASA-CASE-NPO-16306-1-CU] c 76 N85-30934

RIBOFLAVIN
Flavin coenzyme assay
[NASA-CASE-GSC-10565-1] c 06 N72-25149

RIBS (SUPPORTS)
Aeroflexible structures
[NASA-CASE-XLA-06095] c 01 N69-39981

RICE
Modification of the physical properties of freeze-dried rice
[NASA-CASE-MSC-13540-1] c 05 N72-33096

RIDING QUALITY
Ride quality meter
[NASA-CASE-LAR-12882-1] c 35 N84-12445

RIGID ROTORS
Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c 05 N77-17029

RIGID STRUCTURES
Quick release hook tape Patent
[NASA-CASE-XMS-10660-1] c 15 N71-25975
Thermally activated foaming compositions Patent
[NASA-CASE-LAR-10373-1] c 18 N71-26155
Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-08907] c 23 N71-29123
Folding structure fabricated of rigid panels
[NASA-CASE-XHQ-02146] c 18 N75-27040
Telescoping columns --- parabolic antenna support
[NASA-CASE-LAR-12195-1] c 31 N81-27324

RIGID WINGS
Flexible wing deployment device Patent
[NASA-CASE-XLA-01220] c 02 N70-41863

RIMS
Rim inertial measuring system
[NASA-CASE-LAR-12052-1] c 18 N81-29152

RING CURRENTS
Ring counter
[NASA-CASE-XGS-03095] c 09 N69-27463

RING STRUCTURES
Reversible ring counter employing cascaded single SCR stages Patent
[NASA-CASE-XGS-01473] c 09 N71-10673
Energy absorbing device Patent
[NASA-CASE-XMF-10040] c 15 N71-22877
Phase-locked servo system --- for synchronizing the rotation of slip ring assembly
[NASA-CASE-MFS-22073-1] c 33 N75-13139
Laser system with an antiresonant optical ring
[NASA-CASE-HQN-10844-1] c 36 N75-19653
Helmet latching and attaching ring
[NASA-CASE-XMS-04670] c 54 N78-17678
Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c 32 N80-29539
Modified spiral wound retaining ring
[NASA-CASE-LAR-12361-1] c 37 N83-19091
Torso sizing ring construction for hard space suit
[NASA-CASE-ARC-11616-1] c 54 N85-21987
A method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N86-20128

RING WINGS
Ring wing tension vehicle Patent
[NASA-CASE-XLA-04901] c 31 N71-24315

RIPPLES
Ripple indicator
[NASA-CASE-KSC-10162] c 09 N72-11225

RIVETS
Printed circuit board with bellows rivet connection Patent
[NASA-CASE-XNP-05082] c 15 N70-41960

ROBOTICS
Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] c 37 N86-20789

ROCKET ENGINE CASES
Method of making a rocket motor casing Patent
[NASA-CASE-XLE-00409] c 28 N71-15658
Rocket motor casing Patent
[NASA-CASE-XLE-05689] c 28 N71-15659
Payload/burned-out motor case separation system Patent
[NASA-CASE-XLA-05369] c 31 N71-15687
Solid propellant liner Patent
[NASA-CASE-XNP-09744] c 27 N71-16392
Ion engine casing construction and method of making same Patent
[NASA-CASE-XNP-06942] c 28 N71-23293
Casting propellant in rocket engine
[NASA-CASE-LAR-11995-1] c 28 N77-10213

Solid propellant rocket motor and method of making same
[NASA-CASE-XLA-1349] c 20 N77-17143

ROCKET ENGINE CONTROL
Fluid thrust control system --- for liquid propellant rocket engines
[NASA-CASE-XMF-05964-1] c 20 N79-21124

ROCKET ENGINE DESIGN
Annular rocket motor and nozzle configuration Patent
[NASA-CASE-XLE-00078] c 28 N70-33284
Spherical solid-propellant rocket motor Patent
[NASA-CASE-XLA-00105] c 28 N70-33331
Spherically-shaped rocket motor Patent
[NASA-CASE-XHQ-01897] c 28 N70-35381
Rocket engine Patent
[NASA-CASE-XLE-00342] c 28 N70-37980
Swirling flow nozzle Patent
[NASA-CASE-XNP-03692] c 28 N71-24321
Ion thruster with a combination keeper electrode and electron baffle
[NASA-CASE-NPO-11880] c 28 N73-24783
Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c 20 N74-13502
Rocket chamber and method of making
[NASA-CASE-LEW-11118-2] c 20 N76-14191
System for imposing directional stability on a rocket-propelled vehicle
[NASA-CASE-MFS-21311-1] c 20 N76-21275

ROCKET ENGINES
Channel-type shell construction for rocket engines and the like Patent
[NASA-CASE-XLE-00144] c 28 N70-34860
Ion thruster cathode Patent Application
[NASA-CASE-LEW-10814-1] c 28 N70-35422
Injector-valve device Patent
[NASA-CASE-XLE-00303] c 15 N70-36535
Elastic universal joint Patent
[NASA-CASE-XNP-00416] c 15 N70-36947
Passively regulated water electrolysis rocket engine Patent
[NASA-CASE-XGS-08729] c 28 N71-14044
Method of igniting solid propellants Patent
[NASA-CASE-XLE-01988] c 27 N71-15634
Laminar flow enhancement Patent
[NASA-CASE-NPO-10122] c 12 N71-17631
Swirling flow nozzle Patent
[NASA-CASE-XNP-03692] c 28 N71-24321
Thruster maintenance system Patent
[NASA-CASE-MFS-20325] c 28 N71-27095
Purge device for thrust engines Patent
[NASA-CASE-XMS-04826] c 28 N71-28849
Method and device for cooling Patent
[NASA-CASE-HQN-00938] c 33 N71-29053
Ion thruster magnetic field control
[NASA-CASE-LEW-10835-1] c 28 N72-22771
Altitude simulation chamber for rocket engine testing
[NASA-CASE-MFS-20620] c 11 N72-27262
Method of making apparatus for sensing temperature
[NASA-CASE-XLE-05230-2] c 14 N73-13417
Magneto-plasma-dynamic arc thruster
[NASA-CASE-LEW-11180-1] c 25 N73-25760
Method of electroforming a rocket chamber
[NASA-CASE-LEW-11118-1] c 20 N74-32919
Device for installing rocket engines
[NASA-CASE-MFS-19220-1] c 20 N76-22296
Ion beam thruster shield
[NASA-CASE-LEW-12082-1] c 20 N77-10148
Anode for ion thruster
[NASA-CASE-LEW-12048-1] c 20 N77-20162
General purpose rocket furnace
[NASA-CASE-MFS-23460-1] c 12 N79-26075
Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MRS-25791-1] c 09 N84-27749
Ring-cusp ion thruster with shell anode
[NASA-CASE-LEW-13881-1] c 20 N85-21256

ROCKET EXHAUST
Thrust vector control apparatus Patent
[NASA-CASE-XLE-00208] c 28 N70-34294
Rocket thrust throttling system
[NASA-CASE-LEW-10374-1] c 28 N73-13773
Method and apparatus for suppressing ignition overpressure in solid rocket propulsion systems
[NASA-CASE-MFS-25843-1] c 20 N83-17588

ROCKET FIRING
Alleviation of divergence during rocket launch Patent
[NASA-CASE-XLA-00256] c 31 N71-15663

ROCKET FLIGHT
Technique for control of free-flight rocket vehicles Patent
[NASA-CASE-XLA-00937] c 31 N71-17691

ROCKET LAUNCHING
Alleviation of divergence during rocket launch Patent
[NASA-CASE-XLA-00256] c 31 N71-15663
Controlled release device Patent
[NASA-CASE-XKS-03338] c 15 N71-24043

ROCKET LININGS
Heat exchanger and method of making --- rocket lining
[NASA-CASE-LEW-12441-2] c 34 N80-24573

ROCKET NOZZLES
Gimbaled, partially submerged rocket nozzle Patent
[NASA-CASE-XMF-01544] c 28 N70-34162
Rocket thrust chamber Patent
[NASA-CASE-XLE-00145] c 28 N70-36806
Self-sealing, unbonded, rocket motor nozzle closure Patent
[NASA-CASE-XLA-02651] c 28 N70-41967
Automatically deploying nozzle exit cone extension Patent
[NASA-CASE-XLE-01640] c 31 N71-15637
Rocket nozzle test method Patent
[NASA-CASE-NPO-10311] c 31 N71-15643
Collapsible nozzle extension for rocket engines Patent
[NASA-CASE-MFS-11497] c 28 N71-16224
Apparatus and method for protecting a photographic device Patent
[NASA-CASE-NPO-10174] c 14 N71-18465
Multislot film cooled pyrolytic graphite rocket nozzle Patent
[NASA-CASE-XNP-04389] c 28 N71-20942
Prestressed refractory structure Patent
[NASA-CASE-XNP-02888] c 18 N71-21068
Swirling flow nozzle Patent
[NASA-CASE-XNP-03692] c 28 N71-24321
Method and device for cooling Patent
[NASA-CASE-HQN-00938] c 33 N71-29053
Inflatable transpiration cooled nozzle
[NASA-CASE-MFS-20619] c 28 N72-11708
Solid propellant rocket motor nozzle
[NASA-CASE-NPO-11458] c 28 N72-23810
Method of making a rocket nozzle
[NASA-CASE-XMF-06884-1] c 20 N79-21123
Retractable environmental seal
[NASA-CASE-MFS-23646-1] c 37 N79-22474

ROCKET OXIDIZERS
Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c 28 N74-33209

ROCKET PROPELLANTS
Two-step rocket engine bipropellant valve Patent
[NASA-CASE-XMS-04890-1] c 15 N70-22192
Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736
Bipropellant injector
[NASA-CASE-XNP-09461] c 28 N72-23809

ROCKET TEST FACILITIES
High-vacuum condenser tank for ion rocket tests Patent
[NASA-CASE-XLE-00168] c 11 N70-33278
Micro-pound extended range thrust stand Patent
[NASA-CASE-GSC-10710-1] c 28 N71-27094

ROCKET THRUST
Apparatus and method for control of a solid fueled rocket vehicle Patent
[NASA-CASE-XNP-00217] c 28 N70-38181
Electrostatic thrustor with improved insulators Patent
[NASA-CASE-XLE-01902] c 28 N71-10574
Solid propellant rocket motor
[NASA-CASE-NPO-11559] c 28 N73-24784
Thrust measurement
[NASA-CASE-XMS-05731] c 35 N75-29382

ROCKET VEHICLES
Umbilical separator for rockets Patent
[NASA-CASE-XNP-00425] c 11 N70-38202
Support apparatus for dynamic testing Patent
[NASA-CASE-XMF-01772] c 11 N70-41677
Alleviation of divergence during rocket launch Patent
[NASA-CASE-XLA-00256] c 31 N71-15663
Technique for control of free-flight rocket vehicles Patent
[NASA-CASE-XLA-00937] c 31 N71-17691
Coupling device for moving vehicles
[NASA-CASE-GSC-12322-1] c 37 N80-14398
High acceleration cable deployment system
[NASA-CASE-ARC-11256-1] c 15 N82-24272

ROCKET-BORNE INSTRUMENTS
Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432

ROCKETS
Hydrogen fire detection system with logic circuit to analyze the spectrum of temporal variations of the optical spectrum
[NASA-CASE-MFS-13130] c 10 N72-17173

ROCKS
Rock drill for recovering samples
[NASA-CASE-XNP-07478] c 14 N69-21923
Rock sampling --- apparatus for controlling particle size
[NASA-CASE-XNP-10007-1] c 46 N74-23068
Rock sampling --- method for controlling particle size distribution
[NASA-CASE-XNP-09755] c 46 N74-23069
Coal-rock interface detector
[NASA-CASE-MFS-23725-1] c 43 N79-31706

RODS
Nuclear thermionic converter --- tungsten-thorium oxide rods
[NASA-CASE-NPO-13121-1] c 73 N77-18891
Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28090-1] c 27 N86-21684

ROLL
Roll alignment detector
[NASA-CASE-GSC-10514-1] c 14 N72-20379

ROLLER BEARINGS
Method of lubricating rolling element bearings Patent
[NASA-CASE-XLE-09527] c 15 N71-17688
Semi-linear ball bearing Patent
[NASA-CASE-XLA-02809] c 15 N71-22982
Low mass rolling element for bearings
[NASA-CASE-LEW-11087-1] c 15 N73-30458
Method of making rolling element bearings
[NASA-CASE-LEW-11087-2] c 37 N74-15128
Bearing material --- composite material with low friction surface for rolling or sliding contact
[NASA-CASE-LEW-11930-1] c 24 N76-22309

ROLLERS
Method of improving the reliability of a rolling element system Patent
[NASA-CASE-XLE-02999] c 15 N71-16052
Load regulating latch
[NASA-CASE-MSC-19535-1] c 37 N77-32499
Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587

ROLLING CONTACT LOADS
Rolling element bearings Patent
[NASA-CASE-XLE-09527-2] c 15 N71-26189

ROLLING MOMENTS
Roll attitude star sensor system Patent
[NASA-CASE-XNP-01307] c 21 N70-41856

ROOM TEMPERATURE
Coating process
[NASA-CASE-XNP-06508] c 18 N69-39895

ROTARY GYROSCOPES
Closed loop fiber optic rotation sensor
[NASA-CASE-NPO-16558-1-CU] c 74 N86-20129

ROTARY STABILITY
Reactance control system Patent
[NASA-CASE-XMF-01598] c 21 N71-15583
Two component bearing Patent
[NASA-CASE-XLA-00013] c 15 N71-29136
Lubricated journal bearing
[NASA-CASE-LEW-11076-3] c 37 N75-30562
Cyclical bi-directional rotary actuator
[NASA-CASE-GSC-11883-1] c 37 N77-19458
Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136
Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082
Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N86-19611

ROTARY WING AIRCRAFT
Aircraft control system
[NASA-CASE-ERC-10439] c 02 N73-19004

ROTARY WINGS
Variable geometry rotor system
[NASA-CASE-LAR-10557] c 02 N72-11018
Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c 05 N77-17029
Locking redundant link
[NASA-CASE-LAR-11900-1] c 37 N79-14382
Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107
Compensating linkage for main rotor control
[NASA-CASE-LAR-11797-1] c 05 N81-19087
Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136
Shapes for rotating airfoils
[NASA-CASE-LAR-12396-1] c 02 N84-28732
Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400

ROTATING BODIES
Optical spin compensator
[NASA-CASE-XGS-02401] c 14 N69-27485
Laser apparatus for removing material from rotating objects Patent
[NASA-CASE-MFS-11279] c 16 N71-20400
Phase-locked servo system --- for synchronizing the rotation of slip ring assembly
[NASA-CASE-MFS-22073-1] c 33 N75-13139

Annular momentum control device used for stabilization of space vehicles and the like
[NASA-CASE-LAR-11051-1] c 15 N76-14158
Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18459
Multiple in-line docking capability for rotating space stations
[NASA-CASE-MFS-20855-1] c 15 N77-10112
Rotatable mass for a flywheel
[NASA-CASE-MFS-23051-1] c 37 N79-10422
Acoustic driving of rotor
[NASA-CASE-NPO-14005-1] c 71 N79-20827
Multi-channel rotating optical interface for data transmission
[NASA-CASE-NPO-14066-1] c 74 N79-34011
Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082
Airborne tracking Sun photometer apparatus and system
[NASA-CASE-ARC-11622-1] c 44 N86-21982

ROTATING CYLINDERS
Tread drum for animals --- having an electrical shock station
[NASA-CASE-ARC-10917-1] c 51 N78-27733
Head for high speed spinner having a vacuum chuck --- holding silicon dioxide chips for etching
[NASA-CASE-NPO-15227-1] c 37 N81-33482
Non-backdriveable free wheeling coupling
[NASA-CASE-MSC-20475-1] c 37 N85-29290

ROTATING DISKS
Foil seal
[NASA-CASE-XLE-05130] c 15 N69-21362
Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432
Redundant disc
[NASA-CASE-LEW-12496-1] c 07 N78-33101
Spinning disk calibration method and apparatus for laser Doppler velocimeter
[NASA-CASE-ARC-11510-1] c 35 N84-25015

ROTATING ELECTRICAL MACHINES
Light intensity modulator controller Patent
[NASA-CASE-XMS-04300] c 09 N71-19479
Direct current motor with stationary armature and field Patent
[NASA-CASE-XGS-05290] c 09 N71-25999
Constant frequency output two stage induction machine systems Patent
[NASA-CASE-ERC-10065] c 09 N71-27364

ROTATING ENVIRONMENTS
Radial module space station Patent
[NASA-CASE-XMS-01906] c 31 N70-41373
Rotating space station simulator Patent
[NASA-CASE-XLA-03127] c 11 N71-10776

ROTATING GENERATORS
Rotating raster generator
[NASA-CASE-FRC-10071-1] c 32 N74-20813
Wind wheel electric power generator
[NASA-CASE-MFS-23515-1] c 44 N80-21828
Wingtip vortex turbine
[NASA-CASE-LAR-12544-1] c 07 N81-27096

ROTATING MIRRORS
Retrodirective modulator Patent
[NASA-CASE-GSC-10062] c 14 N71-15605
Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c 21 N71-22880
Method for generating ultra-precise angles Patent
[NASA-CASE-XGS-04173] c 19 N71-26674
Method and apparatus for optically monitoring the angular position of a rotating mirror
[NASA-CASE-GSC-11353-1] c 74 N74-21304
Multispectral glancing incidence X-ray telescope
[NASA-CASE-MFS-28013-1] c 89 N86-22459

ROTATING SHAFTS
Foil seal Patent
[NASA-CASE-XLE-05130-2] c 15 N71-19570
Anemometer with braking mechanism Patent
[NASA-CASE-XMF-05224] c 14 N71-23726
Detenting servomotor Patent
[NASA-CASE-XNP-06936] c 15 N71-24695
Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294
Two component bearing Patent
[NASA-CASE-XLA-00013] c 15 N71-29136
Hall effect transducer
[NASA-CASE-LAR-10620-1] c 09 N72-25255
Spiral groove seal --- for rotating shaft
[NASA-CASE-XLE-10326-4] c 37 N74-15125
Digital servo controller --- for rotating antenna shaft
[NASA-CASE-KSC-10769-1] c 33 N74-29556
Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c 44 N74-33379
Ergometer calibrator --- for any ergometer utilizing rotating shaft
[NASA-CASE-MFS-21045-1] c 35 N75-15932
Fluid seal for rotating shafts
[NASA-CASE-LEW-11676-1] c 37 N76-22541
Cyclical bi-directional rotary actuator
[NASA-CASE-GSC-11883-1] c 37 N77-19458
Tachometer
[NASA-CASE-MFS-23175-1] c 35 N77-30436
Rotary leveling base platform
[NASA-CASE-ARC-10981-1] c 37 N78-27425
Rotary electric device
[NASA-CASE-GSC-12138-1] c 33 N79-20314
Circumferential shaft seal
[NASA-CASE-LEW-12119-1] c 37 N80-28711
Multiple plate hydrostatic viscous damper
[NASA-CASE-LEW-12445-1] c 37 N81-22360
Clutchless multiple drive source for output shaft
[NASA-CASE-ARC-11325-1] c 37 N82-22496
Rotary stepping device with memory metal actuator
[NASA-CASE-NPO-15482-1] c 37 N83-36484
Resilient seal ring assembly with spring means applying force to wedge member --- cryogenic applications
[NASA-CASE-MFS-25678-1] c 37 N84-11497
Vertical shaft windmill
[NASA-CASE-LAR-12923-1] c 37 N84-12493
Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] c 37 N84-28084
Variable force, eddy-current or magnetic damper
[NASA-CASE-LEW-13717-1] c 37 N85-30333

ROTATION
Semi-linear ball bearing Patent
[NASA-CASE-XLA-02809] c 15 N71-22982
Mechanical actuator Patent
[NASA-CASE-XGS-04548] c 15 N71-24045
Positioning mechanism
[NASA-CASE-NPO-10679] c 15 N72-21462
Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492
System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516
Acoustic rotation control
[NASA-CASE-NPO-15689-1] c 71 N84-23233

ROTOR AERODYNAMICS
Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107

ROTOR BLADES
Non-destructive method for applying and removing instrumentation on helicopter rotor blades
[NASA-CASE-LAR-11201-1] c 35 N78-24515
Apparatus and method for reducing thermal stress in a turbine rotor
[NASA-CASE-LEW-12232-1] c 07 N79-10057

ROTOR BLADES (TURBOMACHINERY)
Locking device for turbine rotor blades Patent
[NASA-CASE-XNP-00816] c 28 N71-28928
Turbo-machine blade vibration damper Patent
[NASA-CASE-XLE-00155] c 28 N71-29154
Apparatus for welding blades to rotors
[NASA-CASE-LEW-10533-2] c 37 N74-11300
Supersonic fan blading --- noise reduction in turbofan engines
[NASA-CASE-LEW-11402-1] c 07 N74-28226
Blade retainer assembly
[NASA-CASE-LEW-12608-1] c 07 N77-27116
Platform for a swing root turbomachinery blade
[NASA-CASE-LEW-12312-1] c 07 N77-32148
Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560
Shapes for rotating airfoils
[NASA-CASE-LAR-12396-1] c 02 N84-28732

ROTOR LIFT
Constant lift rotor for a heavier than air craft
[NASA-CASE-ARC-11045-1] c 05 N79-17847

ROTOR SPEED
Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904

ROTORCRAFT AIRCRAFT
Constant lift rotor for a heavier than air craft
[NASA-CASE-ARC-11045-1] c 05 N79-17847

ROTORS
Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00085] c 28 N70-39895
Angular position and velocity sensing apparatus Patent
[NASA-CASE-XGS-05680] c 14 N71-17585
Indexing microwave switch Patent
[NASA-CASE-XNP-06507] c 09 N71-23548
Detenting servomotor Patent
[NASA-CASE-XNP-06936] c 15 N71-24695
Rotary vane attenuator wherin rotor has orthogonally disposed resistive and dielectric cards
[NASA-CASE-NPO-11418-1] c 14 N73-13420
Welding blades to rotors
[NASA-CASE-LEW-10533-1] c 15 N73-28515
Magnetic field control --- electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569
Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788

RUBBER
Thermoplastic rubber comprising ethylene-vinyl acetate copolymer, asphalt and fluxing oil
[NASA-CASE-NPO-08835-1] c 27 N78-33228
Formulated plastic separators for soluble electrode cells --- rubber-ion transport membranes
[NASA-CASE-LEW-12358-1] c 44 N79-17313
Enhancement of in vitro guayule propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045

RUBBER COATINGS
Intumescent paint containing nitrile rubber
[NASA-CASE-ARC-10196-1] c 18 N73-13562

RUBY
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143

RUBY LASERS
Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440

RUNWAY ALIGNMENT
Magnetic position detection method and apparatus
[NASA-CASE-ARC-10179-1] c 21 N72-22619

RUNWAY CONDITIONS
Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N84-32398

RUNWAY LIGHTS
Runway light Patent
[NASA-CASE-XLA-00119] c 11 N70-33329
Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059

RUNWAYS
Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N84-32398

RUPTURING
Means for controlling rupture of shock tube diaphragms Patent
[NASA-CASE-XAC-00731] c 11 N71-15960

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SABOT PROJECTILES
Hypervelocity gun --- using both electric and chemical energy for projectile propulsion
[NASA-CASE-XLE-03186-1] c 09 N79-21084

SAFETY
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745

SAFETY DEVICES
Pressure suit tie-down mechanism Patent
[NASA-CASE-XMS-00784] c 05 N71-12335
Positive locking check valve Patent
[NASA-CASE-XMS-09310] c 15 N71-22706
Protective device for machine and metalworking tools Patent
[NASA-CASE-XLE-01092] c 15 N71-22797
Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895
Combustion products generating and metering device
[NASA-CASE-GSC-11095-1] c 14 N72-10375
Restraint torso for a pressurized suit
[NASA-CASE-MSC-12397-1] c 05 N72-25119
Totally confined explosive welding --- apparatus to reduce noise level and protect personnel during explosive bonding
[NASA-CASE-LAR-10941-1] c 37 N74-21057
Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421
Shoulder harness and lap belt restraint system
[NASA-CASE-ARC-10519-2] c 05 N75-25915
Fifth wheel
[NASA-CASE-FRC-10081-1] c 37 N77-14477
Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287
Safety shield for vacuum/pressure chamber viewing port
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[NASA-CASE-NPO-14426-1] c 33 N79-17134
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[NASA-CASE-MSC-16841-1] c 34 N79-24285
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[NASA-CASE-XMF-08523] c 31 N71-20396
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[NASA-CASE-XLA-02551] c 21 N71-21708
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[NASA-CASE-GSC-10555-1] c 21 N71-27324
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[NASA-CASE-NPO-11481] c 21 N73-13644
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[NASA-CASE-ERC-10552] c 09 N71-12539
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Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300
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[NASA-CASE-XNP-06028] c 09 N71-23189
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[NASA-CASE-ARC-14408-1] c 27 N82-33523
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[NASA-CASE-XLE-05130] c 15 N69-21362
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[NASA-CASE-XNP-03378] c 03 N71-11051
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[NASA-CASE-XGS-02630] c 03 N71-22974
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[NASA-CASE-XGS-00587] c 15 N70-35087
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[NASA-CASE-XLE-04677] c 15 N71-10577
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[NASA-CASE-XNP-02862-1] c 15 N71-26294
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[NASA-CASE-MFS-23646-1] c 37 N79-22474
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[NASA-CASE-MSC-18134-1] c 37 N81-15363
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Fully plasma-sprayed compliant backed ceramic turbine seal
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[NASA-CASE-XMS-09635] c 05 N71-24623
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Seat cushion to provide realistic acceleration cues to aircraft simulator pilot
[NASA-CASE-LAR-12149-2] c 09 N79-31228
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Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394
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[NASA-CASE-ARC-11349-1] c 37 N86-20797
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Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c 33 N80-23559
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[NASA-CASE-GSC-12399-1] c 33 N81-25299
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[NASA-CASE-MSC-16462-1] c 32 N82-31583
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Seismic displacement transducer Patent
[NASA-CASE-XMF-00479] c 14 N70-34794
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Underwater seismic source --- for petroleum exploration
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[NASA-CASE-FRC-10010] c 10 N71-24862
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[NASA-CASE-XMF-00908] c 14 N70-40238
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[NASA-CASE-MFS-25211-2] c 33 N84-14423
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Flexible foam erectable space structures Patent
[NASA-CASE-XLA-00686] c 31 N70-34135
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[NASA-CASE-XLA-00678] c 31 N70-34296
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[NASA-CASE-MFS-14971] c 15 N71-24984
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[NASA-CASE-XMS-05304] c 05 N71-12336
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[NASA-CASE-MFS-20130] c 28 N71-27585
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Optical frequency waveguide Patent
[NASA-CASE-HQN-10541-1] c 07 N71-26291
SELF SEALING
Modification of one man life raft
[NASA-CASE-LAR-10241-1] c 54 N74-14845
Self-stabilizing radial face seal
[NASA-CASE-LEW-12991-1] c 37 N81-24442
Self-compensating solenoid valve
[NASA-CASE-ARC-11620-1] c 37 N86-21859
SEMICONDUCTOR DEVICES
Test fixture for pellet-like electrical elements
[NASA-CASE-XNP-06032] c 09 N69-21926
Semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980] c 09 N69-27422
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[NASA-CASE-ERC-10072] c 09 N70-11148
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Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560
Method of making a silicon semiconductor device Patent
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Apparatus and method for separating a semiconductor wafer Patent
[NASA-CASE-ERC-10138] c 26 N71-14354
Voltage tunable Gunn-type microwave generator Patent
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[NASA-CASE-NPO-10194] c 03 N71-20407
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[NASA-CASE-LEW-10345-1] c 10 N71-25899
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[NASA-CASE-ERC-10033] c 14 N71-26672
Transistor drive regulator Patent
[NASA-CASE-LEW-10233] c 10 N71-27126
Orifice gross leak tester Patent
[NASA-CASE-ERC-10150] c 14 N71-28992
Method of manufacturing semiconductor devices using refractory dielectrics
[NASA-CASE-XER-08476-1] c 26 N72-17820
Fabrication of single crystal film semiconductor devices
[NASA-CASE-ERC-10222] c 09 N72-22199
Electrical insulating layer process
[NASA-CASE-LEW-10489-1] c 15 N72-25447
Gunn-type solid state devices
[NASA-CASE-XER-07895] c 26 N72-25679
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[NASA-CASE-ERC-10087-2] c 14 N72-31446
Hermetically sealed semiconductor
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Process for fabricating SiC semiconductor devices
[NASA-CASE-LEW-12094-1] c 76 N76-25049
Semiconductor projectile impact detector
[NASA-CASE-MFS-23008-1] c 35 N78-18390
Apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction
[NASA-CASE-MFS-23315-1] c 76 N78-24950
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Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] c 35 N84-33765
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[NASA-CASE-NPO-15786-1] c 76 N84-35112
Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] c 76 N84-35113
Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-16337-1] c 33 N85-20251
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[NASA-CASE-NPO-16394-1] c 76 N85-20906
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[NASA-CASE-LEW-13833-1] c 33 N85-21492
Low defect, high purity crystalline layers grown by selective deposition
[NASA-CASE-NPO-15813-1] c 76 N85-30922
SEMICONDUCTOR JUNCTIONS
Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334
Semiconductor surface protection material
[NASA-CASE-ERC-10339-1] c 18 N73-30532
High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764
Screen printed interdigitated back contact solar cell
[NASA-CASE-LEW-13414-1] c 44 N85-20530
SEMICONDUCTORS (MATERIALS)
Depositing semiconductor films utilizing a thermal gradient
[NASA-CASE-XKS-04614] c 15 N69-21460
System for improving signal-to-noise ratio of a communication signal Patent Application
[NASA-CASE-MSC-12259-1] c 07 N70-12616
High efficiency multivibrator Patent
[NASA-CASE-XAC-00942] c 10 N71-16042
Method of making impurity-type semiconductor electrical contacts Patent
[NASA-CASE-XMF-01016] c 26 N71-17818
Method of electrolytically binding a layer of semiconductors together Patent
[NASA-CASE-XNP-01959] c 26 N71-23043
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[NASA-CASE-XLE-10715] c 26 N71-23292
Infrared detectors
[NASA-CASE-LAR-10728-1] c 14 N73-12445
Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HQN-10069] c 33 N75-27251
Vapor deposition apparatus --- semiconductors and gallium arsenides
[NASA-CASE-HQN-10462] c 25 N75-29192
Application of semiconductor diffusants to solar cells by screen printing
[NASA-CASE-LEW-12775-1] c 44 N79-11468
Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910
Voltage feed through apparatus having reduced partial discharge
[NASA-CASE-GSC-12347-1] c 33 N80-18286
Method of making macrocrystalline or single crystal semiconductive material and products produced thereby --- epitaxial substrates using low melting materials for photovoltaic cells
[NASA-CASE-NPO-15904-1] c 76 N83-21993
Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019
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[NASA-CASE-NPO-15786-1] c 76 N84-35112
Total immersion crystal growth
[NASA-CASE-NPO-15800-2] c 76 N85-22178
Method for determining the point of zero zeta potential of semiconductor
[NASA-CASE-LAR-12893-1] c 76 N85-30923
Method for growing low defect, high purity crystalline layers
[NASA-CASE-NPO-15813-2] c 76 N85-30933
High band GaP 3-5 tunneling junction for silicon multijunction solar cells
[NASA-CASE-NPO-16526-1CU] c 44 N86-21981
SENSITIVITY
Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256
SENSITOMETRY
Condition sensor system and method
[NASA-CASE-MSC-14805-1] c 54 N78-32720
SENSORS
Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260
Medical subject monitoring systems --- multichannel monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757
Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212
SENSORY PERCEPTION
Tactile sensing means for prosthetic limbs
[NASA-CASE-MFS-16570-1] c 05 N73-32013
SEPARATED FLOW
Thrust vector control apparatus Patent
[NASA-CASE-XLE-00208] c 28 N70-34294
Double hinged flap Patent
[NASA-CASE-XLA-01290] c 02 N70-42016
Mixture separation cell Patent
[NASA-CASE-XMS-02952] c 18 N71-20742
Flow separation detector
[NASA-CASE-ARC-11046-1] c 35 N78-14364
SEPARATORS
Condenser - Separator
[NASA-CASE-XLA-08645] c 15 N69-21465
Umbilical separator for rockets Patent
[NASA-CASE-XNP-00425] c 11 N70-38202
Liquid-gas separation system Patent
[NASA-CASE-XMS-01624] c 15 N70-40062
Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968
Separator Patent
[NASA-CASE-XLA-00415] c 15 N71-16079
Water separating system Patent
[NASA-CASE-XMS-13052] c 14 N71-20427
Vapor liquid separator Patent
[NASA-CASE-XMF-04042] c 15 N71-23023
Air removal device
[NASA-CASE-XLA-8914] c 15 N73-12492
Centrifugal lyophobic separator
[NASA-CASE-LAR-10194-1] c 34 N74-30608
Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c 34 N75-26282
Method and apparatus for fluffing, separating, and cleaning fibers
[NASA-CASE-LAR-11224-1] c 37 N76-18456
Gels as battery separators for soluable electrode cells
[NASA-CASE-LEW-12364-1] c 44 N77-22606
Low gravity phase separator
[NASA-CASE-MSC-14773-1] c 35 N78-12390
Automatic multiple-sample applicator and electrophoresis apparatus
[NASA-CASE-ARC-10991-1] c 25 N78-14104
Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090
Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530
Formulated plastic separators for soluble electrode cells --- rubber-ion transport membranes
[NASA-CASE-LEW-12358-1] c 44 N79-17313
Water separator
[NASA-CASE-XMS-01295-1] c 37 N79-21345
In situ self cross-linking of polyvinyl alcohol battery separators
[NASA-CASE-LEW-12972-1] c 44 N79-25481
Partial interlaminar separation system for composites
[NASA-CASE-LAR-12065-1] c 24 N81-14000
Polyvinyl alcohol battery separator containing inert filler --- alkaline batteries
[NASA-CASE-LEW-13556-1] c 44 N81-27615
Method of making formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-2] c 25 N82-21268
Process of treating cellulosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641
Separator for alkaline batteries and method of making same
[NASA-CASE-GSC-10350-1] c 44 N82-24642
Separator for alkaline electric cells and method of making
[NASA-CASE-GSC-10017-1] c 44 N82-24643
Separator for alkaline electric batteries and method of making
[NASA-CASE-GSC-10018-1] c 44 N82-24644
Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645
Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370
Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708
Electrophoresis device
[NASA-CASE-MFS-25426-1] c 25 N83-10126
Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187
Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176
Oxygen recombination in individual pressure vessel nickel-hydrogen batteries
[NASA-CASE-LEW-13822-1] c 33 N84-29084

Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144

SEQUENCING
Synchronous counter Patent
[NASA-CASE-XGS-02440] c 08 N71-19432
Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418
Digital function generator
[NASA-CASE-NPO-11104] c 08 N72-22165
MOD 2 sequential function generator for multibit binary sequence
[NASA-CASE-NPO-10636] c 08 N72-25210
Pseudonoise sequence generators with three tap linear feedback shift registers
[NASA-CASE-NPO-11406] c 08 N73-12175
Mechanical sequencer
[NASA-CASE-MSC-19536-1] c 37 N77-22482
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-15670-1] c 33 N82-33634

SEQUENTIAL ANALYSIS
Binary coded sequential acquisition ranging system
[NASA-CASE-NPO-11194] c 08 N72-25209
Event sequence detector
[NASA-CASE-NPO-11703-1] c 10 N73-32144

SEQUENTIAL COMPUTERS
Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751

SEQUENTIAL CONTROL
Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503
Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505
Sequencing device utilizing planetary gear set
[NASA-CASE-MSC-19514-1] c 37 N79-20377
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-256704-1] c 33 N84-22884
Nanosequencer digital logic controller
[NASA-CASE-NPO-16116-1] c 60 N84-25306

SERUMS
Reduction of blood serum cholesterol
[NASA-CASE-NPO-12119-1] c 52 N75-15270

SERVICE LIFE
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-10503-1] c 09 N72-21248
Stirling cycle cryogenic cooler
[US-PATENT-4,389,849] c 44 N83-28574
Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560

SERVOAMPLIFIERS
Pneumatic amplifier Patent
[NASA-CASE-MSC-12121-1] c 15 N71-27147

SERVOCONTROL
Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460
Proportional controller Patent
[NASA-CASE-XAC-03392] c 03 N70-41954
Light intensity modulator controller Patent
[NASA-CASE-XMS-04300] c 09 N71-19479
Strain coupled servo control system Patent
[NASA-CASE-XLA-08530] c 32 N71-25360
Energy limiter for hydraulic actuators Patent
[NASA-CASE-ARC-10131-1] c 15 N71-27754
Digital servo controller --- for rotating antenna shaft
[NASA-CASE-KSC-10769-1] c 33 N74-29556
Digital servo control of random sound test excitation --- in reverberant acoustic chamber
[NASA-CASE-NPO-11623-1] c 71 N74-31148
Phase-locked servo system --- for synchronizing the rotation of slip ring assembly
[NASA-CASE-MFS-22073-1] c 33 N75-13139
Servo-controlled intravital microscope system
[NASA-CASE-NPO-13214-1] c 35 N75-25123
Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047
System and method for moving a probe to follow movements of tissue
[NASA-CASE-NPO-15197-1] c 52 N83-25346
Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] c 33 N84-14424
Memory metal actuator
[NASA-CASE-NPO-15960-1] c 37 N86-19604

SERVOMECHANISMS
Interferometer servo system Patent
[NASA-CASE-NPO-10300] c 14 N71-17662
Line following servosystem Patent
[NASA-CASE-XAC-00001] c 15 N71-28952
A dc servosystem including an ac motor Patent
[NASA-CASE-NPO-10700] c 07 N71-33613
Ball screw linear actuator
[NASA-CASE-NPO-11222] c 15 N72-25456
Rotary actuator
[NASA-CASE-NPO-10680] c 31 N73-14855
Hydraulic drain means for servo-systems
[NASA-CASE-NPO-10316-1] c 37 N77-22479
Actuator mechanism
[NASA-CASE-GSC-11883-2] c 37 N78-31426
Apparatus for providing a servo drive signal in a high-speed stepping interferometer
[NASA-CASE-NPO-13569-2] c 35 N79-14348
Automated syringe sampler --- remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407
Electrical servo actuator bracket --- fuel control valves on jet engines
[NASA-CASE-FRC-11044-1] c 37 N81-33483
Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205
Servomechanism for Doppler shift compensation in optical correlator for synthetic aperture radar
[NASA-CASE-NPO-14998-1] c 32 N83-18975
Universal clamp
[NASA-CASE-MSC-20549-1] c 37 N86-19612

SERVOMOTORS
Automatic closed circuit television arc guidance control Patent
[NASA-CASE-MFS-13046] c 07 N71-19433
Transistor servo system including a unique differential amplifier circuit Patent
[NASA-CASE-XMF-05195] c 10 N71-24861
Cyclically operable optical shutter
[NASA-CASE-NPO-10758] c 14 N73-14427
Rotary actuator
[NASA-CASE-NPO-10680] c 31 N73-14855
Velocity servo for continuous scan Fourier interference spectrometer
[NASA-CASE-NPO-14093-1] c 35 N80-20563

SEWAGE TREATMENT
Sewage sludge additive
[NASA-CASE-NPO-13877-1] c 45 N82-11634
Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654

SHADES
Sun shield
[NASA-CASE-MSC-20162-1] c 37 N86-20803

SHAFTS (MACHINE ELEMENTS)
Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c 15 N69-27505
Elastic universal joint Patent
[NASA-CASE-XNP-00416] c 15 N70-36947
Apparatus for absorbing and measuring power Patent
[NASA-CASE-XLE-00720] c 14 N70-40201
Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073
Ratchet mechanism Patent
[NASA-CASE-MFS-12805] c 15 N71-17805
Frictionless universal joint Patent
[NASA-CASE-NPO-10646] c 15 N71-28467
Spiral groove seal
[NASA-CASE-XLE-10326-2] c 15 N72-29488
High speed hybrid bearing comprising a fluid bearing and a rolling bearing convected in series
[NASA-CASE-LEW-11152-1] c 15 N73-32359
Spiral groove seal --- for hydraulic rotating shaft
[NASA-CASE-LEW-10326-3] c 37 N74-10474
Hole cutter --- drill bits and rotating shaft
[NASA-CASE-MFS-22649-1] c 37 N75-25186
Twin-capacitive shaft angle encoder with analog output signal
[NASA-CASE-ARC-10897-1] c 33 N77-31404
Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090
Sequencing device utilizing planetary gear set
[NASA-CASE-MSC-19514-1] c 37 N79-20377
Shaft seal assembly for high speed and high pressure applications
[NASA-CASE-LEW-11873-1] c 37 N79-22475
Speed control device for a heavy duty shaft --- solar sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364
Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370
Circumferential shaft seal
[NASA-CASE-LEW-12119-2] c 37 N81-26447
Hermetic seal for a shaft
[NASA-CASE-NPO-15115-1] c 37 N82-24493
Angular measurement system
[NASA-CASE-MFS-25825-1] c 35 N85-20298
Method for driving two-phase turbines with enhanced efficiency
[NASA-CASE-NPO-15037-2] c 37 N85-29282
Non-backdriveable free wheeling coupling
[NASA-CASE-MSC-20475-1] c 37 N85-29290

SHALE OIL
In-situ laser retorting of oil shale
[NASA-CASE-LEW-12217-1] c 43 N78-14452
Oil shale extraction using super-critical extraction
[NASA-CASE-NPO-15656-1] c 43 N84-23012
Solar-heated oil shale retort
[NASA-CASE-NPO-16392-1] c 44 N84-32912

SHALES
Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443
Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423
Coal-shale interface detector
[NASA-CASE-MFS-23720-1] c 43 N80-23711
Oil shale extraction using super-critical extraction
[NASA-CASE-NPO-15656-1] c 43 N84-23012
Solar-heated oil shale retort
[NASA-CASE-NPO-16392-1] c 44 N84-32912

SHAPE MEMORY ALLOYS
Rotary stepping device with memory metal actuator
[NASA-CASE-NPO-15482-1] c 37 N83-36484
Memory metal actuator
[NASA-CASE-NPO-15960-1] c 37 N86-19604

SHAPED CHARGES
Coupling for linear shaped charge Patent
[NASA-CASE-XLA-00189] c 33 N70-36846
Lateral displacement system for separated rocket stages Patent
[NASA-CASE-XLA-04804] c 31 N71-23008

SHAPERS
Mandrel for shaping solid propellant rocket fuel into a motor casing Patent
[NASA-CASE-XLA-00304] c 27 N70-34783
Tube dimpling tool Patent
[NASA-CASE-XMS-06876] c 15 N71-21536
Dielectric molding apparatus Patent
[NASA-CASE-LAR-10121-1] c 15 N71-26721

SHARKS
Process for conditioning tanned sharkskin and articles made therefrom Patent
[NASA-CASE-XMS-09691-1] c 18 N71-15545

SHARPNESS
Method of forming a sharp edge on an optical device
[NASA-CASE-GSC-12348-1] c 74 N80-24149

SHEAR CREEP
Instrument for measuring torsional creep and recovery Patent
[NASA-CASE-XLE-01481] c 14 N71-10781

SHEAR FLOW
Shear modulated fluid amplifier Patent
[NASA-CASE-MFS-10412] c 12 N71-17578

SHEAR PROPERTIES
Parallel plate viscometer Patent
[NASA-CASE-XNP-09462] c 14 N71-17584

SHEAR STRESS
Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c 15 N69-27505
Angular velocity and acceleration measuring apparatus
[NASA-CASE-ERC-10292] c 14 N72-25410
Bonded joint and method --- for reducing peak shear stress in adhesive bonds
[NASA-CASE-LAR-10900-1] c 37 N74-23064

SHEARING
Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900

SHELL ANODES
Ring-cusp ion thruster with shell anode
[NASA-CASE-LEW-13881-1] c 20 N85-21256

SHELLS (STRUCTURAL FORMS)
Channel-type shell construction for rocket engines and the like Patent
[NASA-CASE-XLE-00144] c 28 N70-34860

SHIELDING
Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937
Shielded flat cable
[NASA-CASE-MFS-13687-2] c 09 N72-22198
System for the measurement of ultra-low stray light levels --- determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865

SHIFT REGISTERS
Binary to binary-coded-decimal converter Patent
[NASA-CASE-XNP-00432] c 08 N70-35423
Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503
Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
Current steering commutator
[NASA-CASE-NPO-10743] c 08 N72-21199

Feedback shift register with states decomposed into cycles of equal length
[NASA-CASE-NPO-11082] c 08 N72-22167
MOD 2 sequential function generator for multibit binary sequence
[NASA-CASE-NPO-10636] c 08 N72-25210
Pseudonoise sequence generators with three tap linear feedback shift registers
[NASA-CASE-NPO-11406] c 08 N73-12175
A m-ary linear feedback shift register with binary logic
[NASA-CASE-NPO-11868] c 10 N73-20254
Counting digital filters
[NASA-CASE-NPO-11821-1] c 08 N73-26175
Event sequence detector
[NASA-CASE-NPO-11703-1] c 10 N73-32144
Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c 32 N74-32598
Nonlinear nonsingular feedback shift registers
[NASA-CASE-NPO-13451-1] c 33 N76-14373
Selective data segment monitoring system --- using shift registers
[NASA-CASE-ARC-10899-1] c 60 N77-19760
Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751

SHOCK ABSORBERS
Pivotal shock absorbing pad assembly Patent
[NASA-CASE-XMF-03856] c 31 N70-34159
Frangible tube energy dissipation Patent
[NASA-CASE-XLA-00754] c 15 N70-34850
Shock absorbing support and restraint means Patent
[NASA-CASE-XMS-01240] c 05 N70-35152
Energy absorbing structure Patent Application
[NASA-CASE-MSC-12279-1] c 15 N70-35679
Landing pad assembly for aerospace vehicles Patent
[NASA-CASE-XMF-02853] c 31 N70-36654
Space craft soft landing system Patent
[NASA-CASE-XMF-02108] c 31 N70-36845
Double-acting shock absorber Patent
[NASA-CASE-XMF-01045] c 15 N70-40354
Articulated multiple couch assembly Patent
[NASA-CASE-MSC-11253] c 05 N71-12343
Shock absorber Patent
[NASA-CASE-XMS-03722] c 15 N71-21530
Impact energy absorber Patent
[NASA-CASE-XLA-01530] c 14 N71-23092
Low onset rate energy absorber
[NASA-CASE-MSC-12279] c 15 N72-17450
Impact energy absorbing system utilizing fracturable material
[NASA-CASE-NPO-10671] c 15 N72-20443
Translatory shock absorber for attitude sensors
[NASA-CASE-MFS-22905-1] c 19 N76-22284
Vehicular impact absorption system
[NASA-CASE-NPO-14014-1] c 37 N79-10420
Variable response load limiting device --- for aircraft seats
[NASA-CASE-LAR-12801-1] c 37 N82-20544

SHOCK LOADS
Wind tunnel model damper Patent
[NASA-CASE-XLA-09480] c 11 N71-33612

SHOCK MEASURING INSTRUMENTS
Semiconductor projectile impact detector
[NASA-CASE-MFS-23008-1] c 35 N78-18390

SHOCK RESISTANCE
Method and apparatus for shock protection Patent
[NASA-CASE-XLA-00482] c 15 N70-36409
Thermal shock resistant hafnia ceramic material
[NASA-CASE-LAR-10894-1] c 18 N73-14584
Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c 27 N78-17206
Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996
Improved impact tolerant material
[NASA-CASE-LAR-12887-1] c 24 N84-20649
Method of fabricating an abradable gas path seal
[NASA-CASE-LEW-13269-2] c 37 N84-22957

SHOCK TUBES
Means for controlling rupture of shock tube diaphragms Patent
[NASA-CASE-XAC-00731] c 11 N71-15960
Shock tube bypass piston tunnel
[NASA-CASE-NPO-12109] c 11 N72-22245
Annular arc accelerator shock tube
[NASA-CASE-NPO-13528-1] c 09 N77-10071

SHOCK WAVE INTERACTION
Absorptive splitter for closely spaced supersonic engine air inlets Patent
[NASA-CASE-XLA-02865] c 28 N71-15563

SHOCK WAVE LUMINESCENCE
Shock-layer radiation measurement
[NASA-CASE-XAC-02970] c 14 N69-39896

SHOCK WAVE PROFILES
Shock-layer radiation measurement
[NASA-CASE-XAC-02970] c 14 N69-39896
Adapter for mounting a microphone flush with the external surface of the skin of a pressurized aircraft
[NASA-CASE-FRC-11072-1] c 05 N83-27975

SHOCK WAVES
Shock tube powder dispersing apparatus Patent
[NASA-CASE-XLE-04946] c 17 N71-24911
Shock wave convergence apparatus
[NASA-CASE-MFS-20890] c 14 N72-22439
Synthesis of superconducting compounds by explosive compaction of powders
[NASA-CASE-MFS-20861-1] c 18 N73-32437
Shock position sensor for supersonic inlets --- measuring pressure in the throat of a supersonic inlet
[NASA-CASE-LEW-11915-1] c 35 N76-14431

SHOES
Jet shoes
[NASA-CASE-XLA-08491] c 05 N69-21380

SHORT CIRCUITS
Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146
Triode thermionic energy converter
[NASA-CASE-XLE-01015] c 03 N69-39898
Analog to digital converter tester Patent
[NASA-CASE-XLA-06713] c 14 N71-28991
Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18193
Test apparatus for locating shorts during assembly of electrical buses
[NASA-CASE-ARC-11116-1] c 33 N82-24420

SHOT PEENING
Method of peening and portable peening gun
[NASA-CASE-MFS-23047-1] c 37 N76-18454

SHOULDERS
Shoulder and hip joint for hard space suits and the like
[NASA-CASE-ARC-11543-1] c 54 N85-21986

SHROUDED NOZZLES
Two dimensional wedge/translating shroud nozzle
[NASA-CASE-LAR-11919-1] c 07 N78-27121

SHROUDED TURBINES
Composite seal for turbomachinery --- backings for turbine engine shrouds
[NASA-CASE-LEW-12131-1] c 37 N79-18318
Gas path seal
[NASA-CASE-NPO-12131-3] c 37 N80-18400
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658
Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996

SHROUDS
Composite powerplant and shroud therefor Patent
[NASA-CASE-XLA-01043] c 28 N71-10780
Composite seal for turbomachinery --- backings for turbine engine shrouds
[NASA-CASE-LEW-12131-1] c 37 N79-18318
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540
Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366
Method of fabricating an abradable gas path seal
[NASA-CASE-LEW-13269-2] c 37 N84-22957

SHUTTERS
High speed shutter --- electrically actuated ribbon loop for shuttering optical or fluid passageways
[NASA-CASE-ARC-10516-1] c 70 N74-21300

SHUTTLE DERIVED VEHICLES
Three stage rocket vehicle with parallel staging
[NASA-CASE-MFS-25878-1] c 18 N84-27787

SIDE INLETS
Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288

SIDEBANDS
Phase-locked loop with sideband rejecting properties Patent
[NASA-CASE-XNP-02723] c 07 N70-41680
Method and means for generation of tunable laser sidebands in the far-infrared region
[NASA-CASE-NPO-16497-1-CU] c 36 N86-20779

SIDELOBE REDUCTION
Dual mode horn antenna Patent
[NASA-CASE-XNP-01057] c 07 N71-15907
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304

SIGNAL ANALYSIS
Signal detection and tracking apparatus Patent
[NASA-CASE-XGS-03502] c 10 N71-20852
Method and apparatus for a single channel digital communications system --- synchronization of received PCM signal by digital correlation with reference signal
[NASA-CASE-NPO-11302-2] c 32 N74-10132
Differential phase shift keyed signal resolver
[NASA-CASE-MSC-14066-1] c 33 N74-27705
Correlation type phase detector --- with time correlation integrator for frequency multiplexed signals
[NASA-CASE-GSC-11744-1] c 33 N75-26243
Real time analysis of voiced sounds
[NASA-CASE-NPO-13465-1] c 32 N76-31372
Digital plus analog output encoder
[NASA-CASE-GSC-12115-1] c 62 N76-31946
Serial data correlator/code translator
[NASA-CASE-KSC-11025-1] c 32 N83-13323
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304

SIGNAL ANALYZERS
System for monitoring signal amplitude ranges
[NASA-CASE-XMS-04061-1] c 09 N69-39885
Sampled data controller Patent
[NASA-CASE-GSC-10554-1] c 08 N71-29033
Family of frequency to amplitude converters
[NASA-CASE-MSC-12395] c 09 N72-25257
Apparatus for statistical time-series analysis of electrical signals
[NASA-CASE-MSC-12428-1] c 10 N73-25240
Pulse stretcher for narrow pulses
[NASA-CASE-MSC-14130-1] c 33 N74-32711
Electronic optical transfer function analyzer
[NASA-CASE-MFS-21672-1] c 74 N76-19935
Speech analyzer
[NASA-CASE-GSC-11898-1] c 32 N77-30309

SIGNAL DETECTION
Position location system and method Patent
[NASA-CASE-GSC-10087-2] c 21 N71-13958
Method of detecting impending saturation of magnetic cores
[NASA-CASE-ERC-10089] c 23 N72-17747
Anti-multipath digital signal detector
[NASA-CASE-LAR-11827-1] c 32 N77-10392
Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289
Automatic communication signal monitoring system
[NASA-CASE-NPO-13941-1] c 32 N79-10262
Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c 33 N79-11313
Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] c 32 N84-27952

SIGNAL DETECTORS
Surface roughness detector Patent
[NASA-CASE-XLA-00203] c 14 N70-34161
Pulse amplitude and width detector Patent
[NASA-CASE-XMF-06519] c 09 N71-12519
System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518
Digital modulator and demodulator Patent
[NASA-CASE-ERC-10041] c 08 N71-29138
Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423
Pulse transducer with artifact signal attenuator --- heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969
Self-calibrating threshold detector
[NASA-CASE-MSC-16370-1] c 35 N81-19427
Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190

SIGNAL DISTORTION
Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c 32 N76-16249

SIGNAL ENCODING
Adaptive compression of communication signals Patent
[NASA-CASE-XLA-03076] c 07 N71-11266
Self-calibrating threshold detector
[NASA-CASE-MSC-16370-1] c 35 N81-19427
Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583

SIGNAL GENERATORS
Plural recorder system
[NASA-CASE-XMS-06949] c 09 N69-21467
Signal generator
[NASA-CASE-XNP-05612] c 09 N69-21468
Means for generating a sync signal in an FM communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11281
Array phasing device Patent
[NASA-CASE-ERC-10046] c 10 N71-18722
Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174
Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255

Signal ratio system utilizing voltage controlled oscillators Patent
[NASA-CASE-XMF-04367] c 09 N71-23545
Signal processing apparatus for multiplex transmission Patent
[NASA-CASE-NPO-10388] c 07 N71-24622
Multialarm summary alarm Patent
[NASA-CASE-XLE-03061-1] c 10 N71-24798
Adaptive system and method for signal generation Patent
[NASA-CASE-GSC-11367] c 10 N71-26374
Voltage dropout sensor Patent
[NASA-CASE-KSC-10020] c 10 N71-27338
System for controlling the operation of a variable signal device
[NASA-CASE-NPO-11064] c 07 N72-11150
Digital function generator
[NASA-CASE-NPO-11104] c 08 N72-22165
Hall effect transducer
[NASA-CASE-LAR-10620-1] c 09 N72-25255
Gunn-type solid state devices
[NASA-CASE-XER-07895] c 26 N72-25679
Audio frequency marker system
[NASA-CASE-NPO-11147] c 14 N72-27408
Digital servo control of random sound test excitation --- in reverberant acoustic chamber
[NASA-CASE-NPO-11623-1] c 71 N74-31148
Signal conditioner test set
[NASA-CASE-KSC-10750-1] c 35 N75-12270
System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c 33 N75-19519
Pseudo-noise test set for communication system evaluation --- test signals
[NASA-CASE-MFS-22671-1] c 35 N75-21582
NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
[NASA-CASE-ARC-10802-1] c 35 N75-30502
Twin-capacitive shaft angle encoder with analog output signal
[NASA-CASE-ARC-10897-1] c 33 N77-31404
Apparatus for providing a servo drive signal in a high-speed stepping interferometer
[NASA-CASE-NPO-13569-2] c 35 N79-14348
Versatile LDV burst simulator
[NASA-CASE-LAR-11859-1] c 35 N79-14349
Underwater seismic source --- for petroleum exploration
[NASA-CASE-NPO-14255-1] c 46 N79-23555
Frequency translating phase conjugation circuit for active retrodirective antenna array --- microwave transmission
[NASA-CASE-NPO-14536-1] c 32 N81-14185
Integrated control system for a gas turbine engine
[NASA-CASE-LEW-12594-2] c 07 N81-19116
Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360
Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345
Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953
Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132
Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681
Method and means for generation of tunable laser sidebands in the far-infrared region
[NASA-CASE-NPO-16497-1-CU] c 36 N86-20779

SIGNAL MEASUREMENT

Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670

SIGNAL MIXING

Signal multiplexer
[NASA-CASE-XGS-01110] c 07 N69-24334
Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29308

SIGNAL PROCESSING

Adaptive compression of communication signals Patent
[NASA-CASE-XLA-03076] c 07 N71-11266
Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300
Difference circuit Patent
[NASA-CASE-XNP-08274] c 10 N71-13537
Correlation function apparatus Patent
[NASA-CASE-XNP-00746] c 07 N71-21476
Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174
Feedback integrator with grounded capacitor Patent
[NASA-CASE-XAC-10607] c 10 N71-23669
Signal processing apparatus for multiplex transmission Patent
[NASA-CASE-NPO-10388] c 07 N71-24622
Television signal processing system Patent
[NASA-CASE-NPO-10140] c 07 N71-24742
Electronic scanning of 2-channel monopulse patterns Patent
[NASA-CASE-GSC-10299-1] c 09 N71-24804
Remodulator filter Patent
[NASA-CASE-NPO-10198] c 09 N71-24806
Video sync processor Patent
[NASA-CASE-KSC-10002] c 10 N71-25865
Transient video signal recording with expanded playback Patent
[NASA-CASE-ARC-10003-1] c 09 N71-25866
Phase multiplying electronic scanning system Patent
[NASA-CASE-NPO-10302] c 10 N71-26142
Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266
Digital modulator and demodulator Patent
[NASA-CASE-ERC-10041] c 08 N71-29138
Digital pulse width selection circuit Patent
[NASA-CASE-XLA-07788] c 09 N71-29139
Phase shift circuit apparatus
[NASA-CASE-ARC-10269-1] c 10 N72-16172
Contourograph system for monitoring electrocardiograms
[NASA-CASE-MSC-13407-1] c 10 N72-20225
Recorder using selective noise filter
[NASA-CASE-ERC-10112] c 07 N72-21119
Logarithmic function generator utilizing an exponentially varying signal in an inverse manner
[NASA-CASE-ERC-10267] c 09 N72-23173
Flexible computer accessed telemetry
[NASA-CASE-NPO-11358] c 07 N72-25172
Data processor with conditionally supplied clock signals
[NASA-CASE-GSC-10975-1] c 08 N73-13187
Multichannel telemetry system
[NASA-CASE-NPO-11572] c 07 N73-16121
Measurement system
[NASA-CASE-MFS-20658-1] c 14 N73-30386
Digital to analog conversion apparatus
[NASA-CASE-MSC-12458-1] c 08 N73-32081
Fluid pressure amplifier and system
[NASA-CASE-LAR-10868-1] c 33 N74-11050
Low level signal limiter
[NASA-CASE-XLE-04791] c 32 N74-22096
Miniature multichannel biotelemeter system
[NASA-CASE-NPO-13065-1] c 52 N74-26625
Apparatus and method for processing Korotkov sounds --- for blood pressure measurement
[NASA-CASE-MSC-13999-1] c 52 N74-26626
Pulse stretcher for narrow pulses
[NASA-CASE-MSC-14130-1] c 33 N74-32711
Continuous Fourier transform method and apparatus --- for the analysis of simultaneous analog signal components
[NASA-CASE-ARC-10466-1] c 60 N75-13539
Signal conditioning circuit apparatus --- with constant input impedance
[NASA-CASE-ARC-10348-1] c 33 N75-19518
Television noise reduction device
[NASA-CASE-MSC-12607-1] c 32 N75-21485
Isolated output system for a class D switching-mode amplifier
[NASA-CASE-MFS-21616-1] c 33 N75-30429
Compact-bi-phase pulse coded modulation decoder
[NASA-CASE-KSC-10834-1] c 33 N76-14371
Filtering device --- removing electromagnetic noise from voice communication signals
[NASA-CASE-MFS-22729-1] c 32 N76-21366
System for measuring Reynolds in a turbulently flowing fluid --- signal processing
[NASA-CASE-ARC-10755-2] c 34 N76-27517
Three phase full wave dc motor decoder
[NASA-CASE-GSC-11824-1] c 33 N77-26386
Apparatus for determining thermophysical properties of test specimens
[NASA-CASE-LAR-11883-1] c 09 N77-27131
Analog to digital converter for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-3] c 60 N77-32731
Hearing aid malfunction detection system
[NASA-CASE-MSC-14916-1] c 33 N78-10375
Swept group delay measurement
[NASA-CASE-NPO-13909-1] c 33 N78-25319
Quadraphase demodulation
[NASA-CASE-GSC-12137-1] c 33 N78-32338
Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c 32 N79-10263
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-1] c 32 N79-19195
Electrochemical detection device --- for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073
Scannable beam forming interferometer antenna array system
[NASA-CASE-GSC-12365-1] c 32 N80-28578
System for plotting subsoil structure and method therefor
[NASA-CASE-NPO-14191-1] c 31 N80-32584
CCD correlated quadruple sampling processor
[NASA-CASE-NPO-14426-1] c 33 N81-27396
Interleaving device
[NASA-CASE-GSC-12111-2] c 33 N81-29342
Reconfiguring redundancy management
[NASA-CASE-MSC-18498-1] c 60 N82-29013
Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539
Serial data correlator/code translator
[NASA-CASE-KSC-11025-1] c 32 N83-13323
Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577
Real time pressure signal system for a rotary engine
[NASA-CASE-LEW-13622-1] c 07 N84-22559
Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] c 60 N84-28492
Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651
Processing circuit with asymmetry corrector and convolutional encoder for digital data
[NASA-CASE-MSC-20187-1] c 33 N85-20249
Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MSC-20821-1] c 17 N86-20466
Optical stereo video signal processor
[NASA-CASE-MFS-25752-1] c 74 N86-21348

SIGNAL RECEPTION

Radar ranging receiver Patent
[NASA-CASE-XNP-00748] c 07 N70-36911
Reflectometer for receiver input impedance match measurement Patent
[NASA-CASE-XNP-10843] c 07 N71-11267
Diversity receiving system with diversity phase lock Patent
[NASA-CASE-XGS-01222] c 10 N71-20841
Signal detection and tracking apparatus Patent
[NASA-CASE-XGS-03502] c 10 N71-20852
Optimum predetection diversity receiving system Patent
[NASA-CASE-XGS-00740] c 07 N71-23098
Decoder system Patent
[NASA-CASE-NPO-10118] c 07 N71-24741
Antenna array phase quadrature tracking system Patent
[NASA-CASE-MSC-12205-1] c 07 N71-27056
Electricity measurement devices employing liquid crystalline materials
[NASA-CASE-ERC-10275] c 26 N72-25680
Filter for third order phase locked loops
[NASA-CASE-NPO-11941-1] c 10 N73-27171
Ferrofluidic solenoid
[NASA-CASE-NPO-11738-1] c 09 N73-30185
Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c 35 N76-16391
Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381
A single frequency multitransmitter telemetry system
[NASA-CASE-LAR-13006-1] c 17 N83-20995
Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] c 32 N84-27952

SIGNAL REFLECTION

Reflectometer for receiver input impedance match measurement Patent
[NASA-CASE-XNP-10843] c 07 N71-11267
Reflex feed system for dual frequency antenna with frequency cutoff means
[NASA-CASE-NPO-14022-1] c 32 N78-31321

SIGNAL STABILIZATION

Linear accelerator frequency control system Patent
[NASA-CASE-XGS-05441] c 10 N71-22962
Digital modulator and demodulator Patent
[NASA-CASE-ERC-10041] c 08 N71-29138
System for interference signal nulling by polarization adjustment
[NASA-CASE-NPO-13140-1] c 32 N75-24982
Fiber optic transmission line stabilization apparatus and method
[NASA-CASE-NPO-15036-1] c 74 N82-19029

SIGNAL TO NOISE RATIOS

System for improving signal-to-noise ratio of a communication signal Patent Application
[NASA-CASE-MSC-12259-1] c 07 N70-12616

Radar ranging receiver Patent
[NASA-CASE-XNP-00748] c 07 N70-36911
Phase detector assembly Patent
[NASA-CASE-XMF-00701] c 09 N70-40272
Signal-to-noise ratio estimating by taking ratio of mean and standard deviation of integrated signal samples Patent
[NASA-CASE-XNP-05254] c 07 N71-20791
Signal ratio system utilizing voltage controlled oscillators Patent
[NASA-CASE-XMF-04367] c 09 N71-23545
Recorder using selective noise filter
[NASA-CASE-ERC-10112] c 07 N72-21119
Parametric amplifiers with idler circuit feedback
[NASA-CASE-LAR-10253-1] c 09 N72-25258
System for improving signal-to-noise ratio of a communication signal
[NASA-CASE-MSC-12259-2] c 07 N72-33146
Signal-to-noise ratio determination circuit
[NASA-CASE-GSC-11239-1] c 10 N73-25241
Gated compressor, distortionless signal limiter
[NASA-CASE-NPO-11820-1] c 32 N74-19788

SIGNAL TRANSMISSION
Time division multiplex system
[NASA-CASE-XGS-05918] c 07 N69-39974
Apparatus for coupling a plurality of ungrounded circuits to a grounded circuit Patent
[NASA-CASE-XAC-00086] c 09 N70-33182
Bi-carrier demodulator with modulation Patent
[NASA-CASE-XMF-01160] c 07 N71-11298
Bi-polar phase detector and corrector for split phase PCM data signals Patent
[NASA-CASE-XGS-01590] c 07 N71-12392
Signal-to-noise ratio estimating by taking ratio of mean and standard deviation of integrated signal samples Patent
[NASA-CASE-XNP-05254] c 07 N71-20791
Elimination of frequency shift in a multiplex communication system Patent
[NASA-CASE-XNP-01306] c 07 N71-20814
Adaptive tracking notch filter system Patent
[NASA-CASE-XMF-01892] c 10 N71-22986
Passive synchronized spike generator with high input impedance and low output impedance and capacitor power supply Patent
[NASA-CASE-XGS-03632] c 09 N71-23311
Junction range finder
[NASA-CASE-KSC-10108] c 14 N73-25461
Television multiplexing system
[NASA-CASE-KSC-10654-1] c 07 N73-30115
Controlled oscillator system with a time dependent output frequency
[NASA-CASE-NPO-11962-1] c 33 N74-10194
Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12462-1] c 32 N74-20809
Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12494-1] c 32 N74-20810
Digital transmitter for data bus communications system
[NASA-CASE-MSC-14558-1] c 32 N75-21486
Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c 32 N75-24981
Method and apparatus for background signal reduction in opto-acoustic absorption measurement
[NASA-CASE-NPO-13683-1] c 35 N77-14411
Automatic transponder --- measurement of the internal delay time of a transponder
[NASA-CASE-GSC-12075-1] c 32 N77-31350
Fiber optic multiplex optical transmission system
[NASA-CASE-KSC-11047-1] c 74 N78-14889
Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310
Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186
Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349
High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191
Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546
Doppler radar having phase modulation of both transmitted and reflected return signals
[NASA-CASE-MSC-18675-1] c 32 N84-22820

SIGNATURE ANALYSIS
Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288

SILANES
Elastomeric silazane polymers and process for preparing the same Patent
[NASA-CASE-XMF-04133] c 06 N71-20717
Process for preparation of dianilinosilanes Patent
[NASA-CASE-XMF-06409] c 06 N71-23230
Process for preparation of high-molecular- weight polyaryloxysilanes Patent
[NASA-CASE-XMF-08674] c 06 N71-28807
Oxygen post-treatment of plastic surface coated with plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c 27 N79-18052
Thermal protection system
[NASA-CASE-MSC-18796-1] c 24 N82-26389
Thermal reactor --- liquid silicon production from silane gas
[NASA-CASE-NPO-14369-1] c 44 N83-10501
Process for producing tris s(n-methylamino) methylsilane
[NASA-CASE-MFS-25721-1] c 25 N85-21280

SILICA GEL
Gels as battery separators for sotuable electrode cells
[NASA-CASE-LEW-12364-1] c 44 N77-22606

SILICA GLASS
Non-toxic invert analog glass compositions of high modulus
[NASA-CASE-HQN-10328-2] c 27 N82-29454
High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455

SILICATES
Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979
Alkali-metal silicate binders and methods of manufacture
[NASA-CASE-GSC-12303-1] c 24 N79-31347

SILICIDES
Silicide coatings for refractory metals Patent
[NASA-CASE-XLE-10910] c 18 N71-29040
Fused silicide coatings containing discrete particles for protecting niobium alloys --- used in space shuttle thermal protection systems and turbine engine components
[NASA-CASE-LEW-11179-1] c 27 N76-16229

SILICON
Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560
Gd or Sm doped silicon semiconductor composition Patent
[NASA-CASE-XLE-10715] c 26 N71-23292
Silicon solar cell with cover glass bonded to cell by metal pattern Patent
[NASA-CASE-XLE-08569] c 03 N71-23449
Covered silicon solar cells and method of manufacture --- with polymeric films
[NASA-CASE-LEW-11065-2] c 44 N76-14600
Method of controlling defect orientation in silicon crystal ribbon growth
[NASA-CASE-NPO-13918-1] c 76 N79-11920
Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229
Method of producing silicon --- gas phase reactor multiple injector liquid feed system
[NASA-CASE-NPO-14382-1] c 31 N80-18231
System for slicing silicon wafers
[NASA-CASE-NPO-14406-1] c 37 N80-29703
Apparatus for use in the production of ribbon-shaped crystals from a silicon melt
[NASA-CASE-NPO-14297-1] c 33 N81-19389
Scriber for silicon wafers
[NASA-CASE-NPO-15539-1] c 37 N82-11469
Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441
Thermal reactor --- liquid silicon production from silane gas
[NASA-CASE-NPO-14369-1] c 44 N83-10501
Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] c 76 N84-35113
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Ribbon growing method and apparatus
[NASA-CASE-NPO-16306-1-CU] c 76 N85-30934
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267

SILICON CARBIDES
A method for the deposition of beta-silicon carbide by isoepitaxy
[NASA-CASE-ERC-10120] c 26 N69-33482
Production of high purity silicon carbide Patent
[NASA-CASE-XLA-00158] c 26 N70-36805
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[NASA-CASE-XLA-02057] c 26 N70-40015
Process for fabricating SiC semiconductor devices
[NASA-CASE-LEW-12094-1] c 76 N76-25049
Growth of silicon carbide crystals on a seed while pulling silicon crystals from a melt
[NASA-CASE-NPO-13969-1] c 76 N79-23798
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[NASA-CASE-MSC-18832-1] c 27 N83-18908
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SILICON COMPOUNDS
Method of making a silicon semiconductor device Patent
[NASA-CASE-XLE-02792] c 26 N71-10607
Polymerizable disilanols having in-chain perfluoroalkyl groups
[NASA-CASE-MFS-20979-2] c 06 N73-32030
Infusible silazane polymer and process for producing same --- protective coatings
[NASA-CASE-XMF-02526-1] c 27 N79-21190
Silicon-slurry/aluminide coating --- protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795

SILICON CONTROLLED RECTIFIERS
Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146
Transient-compensated SCR inverter
[NASA-CASE-XLA-08507] c 09 N69-39984
Reversible ring counter employing cascaded single SCR stages Patent
[NASA-CASE-XGS-01473] c 09 N71-10673
SCR blocking pulse gate amplifier Patent
[NASA-CASE-XLA-07497] c 09 N71-12514
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[NASA-CASE-MFS-25208-1] c 33 N83-10345

SILICON DIOXIDE
Intermittent type silica gel adsorption refrigerator Patent
[NASA-CASE-XNP-00920] c 15 N71-15906
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[NASA-CASE-XMS-04312] c 07 N71-22984
Method and apparatus for stable silicon dioxide layers on silicon grown in silicon nitride ambient
[NASA-CASE-ERC-10073-1] c 24 N74-19769
Silica reusable surface insulation
[NASA-CASE-ARC-10721-1] c 27 N76-22376
Two-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-1] c 27 N76-22377
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[NASA-CASE-LAR-10385-3] c 74 N78-15879
Field effect transistor and method of construction thereof
[NASA-CASE-MFS-23312-1] c 33 N78-27326
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[NASA-CASE-ARC-11169-1] c 24 N79-24062
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SILICON FILMS
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Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659
Ingot slicing machine and method
[NASA-CASE-NPO-15483-1] c 37 N85-21650

SILICON JUNCTIONS
Radiation resistant silicon semiconductor devices Patent
[NASA-CASE-XGS-07801] c 09 N71-12513
High band GaP 3-5 tunneling junction for silicon multijunction solar cells
[NASA-CASE-NPO-16526-1CU] c 44 N86-21981

SILICON NITRIDES
Method and apparatus for stable silicon dioxide layers on silicon grown in silicon nitride ambient
[NASA-CASE-ERC-10073-1] c 24 N74-19769
Silicon nitride coated, plastic covered solar cell
[NASA-CASE-LEW-11496-1] c 44 N77-14580
Sandblasting nozzle
[NASA-CASE-NPO-13823-1] c 37 N81-25371

SILICON OXIDES
Three-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-2] c 27 N76-23426

SILICON POLYMERS
Oxygen post-treatment of plastic surface coated with plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c 27 N79-18052

SILICON RADIATION DETECTORS
Thin window, drifted silicon, charged particle detector
[NASA-CASE-XLE-10529] c 14 N69-23191
Biomedical radiation detecting probe Patent
[NASA-CASE-XMS-01177] c 05 N71-19440
Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] c 35 N84-33765
SILICON TRANSISTORS
Tungsten contacts on silicon substrates
[NASA-CASE-GSC-10695-1] c 09 N72-25259
Method and apparatus for detecting surface ions on silicon diodes and transistors
[NASA-CASE-ERC-10325] c 15 N72-25457
SILICONE RESINS
Vacuum pressure molding technique
[NASA-CASE-LAR-10073-1] c 37 N76-24575
SILICONES
Silicone containing solid propellant
[NASA-CASE-NPO-14477-1] c 28 N80-28536
Structural pressure sensitive silicone adhesives
[NASA-CASE-LAR-13270-1] c 27 N84-32532
SILICONIZING
Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00284] c 15 N71-16075
SILOXANES
Synthesis of siloxane-containing epoxy polymers Patent
[NASA-CASE-MFS-13994-1] c 06 N71-11240
Method of producing alternating ether siloxane copolymers Patent
[NASA-CASE-XMF-02584] c 06 N71-20905
Siloxane containing epoxide compounds
[NASA-CASE-MFS-13994-2] c 06 N72-25148
Silphenylenesiloxane polymers having in-chain perfluoroalkyl groups
[NASA-CASE-MFS-20979] c 06 N72-25151
Low outgassing polydimethylsiloxane material and preparation thereof
[NASA-CASE-GSC-11358-1] c 06 N73-26100
Thermal protection system
[NASA-CASE-MSC-18796-1] c 24 N82-26389
Acetylene (ethynyl) terminated polyimide siloxane and process for preparation thereof
[NASA-CASE-LAR-13318-1] c 27 N86-21685
SILVER
Method of making dry electrodes
[NASA-CASE-FRC-10029-2] c 05 N72-25121
Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N86-19610
SILVER ALLOYS
Brazing alloy composition
[NASA-CASE-XMF-06053] c 26 N75-27126
SILVER CHLORIDES
Electrode for biological recording
[NASA-CASE-XMS-02872] c 05 N69-21925
Bonding graphite with fused silver chloride
[NASA-CASE-XGS-00963] c 15 N69-39735
SILVER COMPOUNDS
Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MSC-10960-1] c 03 N71-24718
SILVER ZINC BATTERIES
Electric battery and method for operating same Patent
[NASA-CASE-XGS-01674] c 03 N71-29129
Additive for zinc electrodes --- electric automobiles
[NASA-CASE-LEW-13286-1] c 33 N84-14422
SIMULATION
Method and apparatus for simulating gravitational forces on a living organism
[NASA-CASE-MSC-20202-1] c 54 N84-16803
SIMULATORS
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[NASA-CASE-MFS-12750] c 27 N71-16223
Phonocardiogram simulator Patent
[NASA-CASE-XKS-10804] c 05 N71-24606
Waveform simulator Patent
[NASA-CASE-NPO-10251] c 10 N71-27365
Laser Doppler velocity simulator --- to induce frequency shift
[NASA-CASE-LAR-12176-1] c 36 N80-16321
SIMULTANEOUS EQUATIONS
Method and apparatus for self-calibration and phasing of array antenna
[NASA-CASE-NPO-15920-1] c 33 N85-21493
SINE SERIES
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-10503-1] c 09 N72-21248
Function generator for synthesizing complex vibration mode patterns
[NASA-CASE-LAR-10310-1] c 10 N73-20253
SINE WAVES
Waveform simulator Patent
[NASA-CASE-NPO-10251] c 10 N71-27365
Wide band doubler and sine wave quadrature generator
[NASA-CASE-NPO-11133] c 10 N72-20223
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-11389-1] c 33 N77-26387
SINGLE CRYSTALS
Production of high purity silicon carbide Patent
[NASA-CASE-XLA-00158] c 26 N70-36805
Fabrication of single crystal film semiconductor devices
[NASA-CASE-ERC-10222] c 09 N72-22199
Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c 35 N75-13213
Vapor phase growth of groups 3-5 compounds by hydrogen chloride transport of the elements
[NASA-CASE-LAR-11144-1] c 25 N75-26043
Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910
Growth of silicon carbide crystals on a seed while pulling silicon crystals from a melt
[NASA-CASE-NPO-13969-1] c 76 N79-23798
Method of making macrocrystalline or single crystal semiconductive material and products produced thereby --- epitaxial substrates using low melting materials for photovoltaic cells
[NASA-CASE-NPO-15904-1] c 76 N83-21993
Low stress semiconductor-insulator interface for cryogenic device applications
[NASA-CASE-NPO-16394-1] c 76 N85-20906
Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267
Total immersion crystal growth
[NASA-CASE-NPO-15800-2] c 76 N85-22178
Laser Schlieren crystal monitor
[NASA-CASE-MFS-28060-1] c 76 N85-30932
SINTERING
Condenser - Separator
[NASA-CASE-XLA-08645] c 15 N69-21465
Method of producing refractory bodies having controlled porosity Patent
[NASA-CASE-LEW-10393-1] c 17 N71-15468
Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] c 33 N84-16456
Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734
SIZE (DIMENSIONS)
Apparatus for producing metal powders
[NASA-CASE-XLE-06461-2] c 17 N72-28535
Torso sizing ring construction for hard space suit
[NASA-CASE-ARC-11616-1] c 54 N85-21987
SIZE DETERMINATION
Impact measuring technique
[NASA-CASE-LAR-10913] c 14 N72-16282
Small conductive particle sensor --- microfiber size determination
[NASA-CASE-LAR-12552-1] c 35 N82-11431
SIZE SEPARATION
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-2] c 15 N71-26148
Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27036
Acoustic particle separation
[NASA-CASE-NPO-155559-1] c 71 N85-30765
SIZING (SHAPING)
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114] c 15 N71-17650
SIZING SCREENS
Method of making screen by casting Patent
[NASA-CASE-XLE-00953] c 15 N71-15966
Screen particle separator
[NASA-CASE-XNP-09770-2] c 15 N72-22483
SKEWNESS
Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420
Automatic character skew and spacing checking network --- of digital tape drive systems
[NASA-CASE-GSC-11925-1] c 33 N76-18353
SKID LANDINGS
Nose gear steering system for vehicle with main skids Patent
[NASA-CASE-XLA-01804] c 02 N70-34160
SKIN (ANATOMY)
Process for conditioning tanned sharkskin and articles made therefrom Patent
[NASA-CASE-XMS-09691-1] c 18 N71-15545
Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738
Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin
[NASA-CASE-NPO-14402-1] c 52 N81-27783
SKIN (STRUCTURAL MEMBER)
Flexibly connected support and skin Patent
[NASA-CASE-XLA-01027] c 31 N71-24035
Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137
SKIN FRICTION
Skin friction measuring device for aircraft
[NASA-CASE-FRC-11029-1] c 06 N81-17057
Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470
Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949
A two-axis, self-nulling skin friction balance
[NASA-CASE-LAR-13294-1] c 35 N85-21610
SKIN TEMPERATURE (BIOLOGY)
Thermistor holder for skin temperature measurements
[NASA-CASE-ARC-10855-1] c 52 N77-10780
SKIN TEMPERATURE (NON-BIOLOGICAL)
Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c 33 N71-23085
SKIRTS
Inflatable transpiration cooled nozzle
[NASA-CASE-MFS-20619] c 28 N72-11708
SKY BRIGHTNESS
Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232
SLEEP
EEG sleep analyzer and method of operation Patent
[NASA-CASE-MSC-13282-1] c 05 N71-24729
SLEEVES
Energy absorbing device Patent
[NASA-CASE-XMF-10040] c 15 N71-22877
System for enhancing tool-exchange capabilities of a portable wrench
[NASA-CASE-MFS-22283-1] c 37 N75-33395
Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772
Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137
SLENDER BODIES
A support technique for vertically oriented launch vehicles
[NASA-CASE-XLA-02704] c 11 N69-21540
SLENDER WINGS
Leading edge vortex flaps for drag reduction --- during subsonic flight
[NASA-CASE-LAR-12750-1] c 02 N81-19016
SLICING
Method and apparatus for slicing crystals
[NASA-CASE-GSC-12291-1] c 76 N80-18951
System for slicing silicon wafers
[NASA-CASE-NPO-14406-1] c 37 N80-29703
Scriber for silicon wafers
[NASA-CASE-NPO-15539-1] c 37 N82-11469
Workpiece positioning vise
[NASA-CASE-GSC-12762-1] c 37 N84-28083
SLIDING CONTACT
Electrical connector pin with wiping action
[NASA-CASE-XMF-04238] c 09 N69-39734
Continuous turning slip ring assembly Patent
[NASA-CASE-XMF-01049] c 15 N71-23049
Electrical rotary joint apparatus for large space structures
[NASA-CASE-MFS-23981-1] c 07 N83-20944
SLIDING FRICTION
Bearing material --- composite material with low friction surface for rolling or sliding contact
[NASA-CASE-LEW-11930-1] c 24 N76-22309
SLIP CASTING
Process of casting heavy slips Patent
[NASA-CASE-XLE-00106] c 15 N71-16076
SLITS
Slit regulated gas journal bearing Patent
[NASA-CASE-XNP-00476] c 15 N70-38620
Method of fabricating an object with a thin wall having a precisely shaped slit
[NASA-CASE-LAR-10409-1] c 31 N74-21059
Dual acting slit control mechanism
[NASA-CASE-LAR-11370-1] c 35 N80-28686
SLOPES
Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367
Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136
SLOT ANTENNAS
Virtual wall slot circularly polarized planar array antenna
[NASA-CASE-NPO-10301] c 07 N72-11148

Omnidirectional slot antenna for mounting on cylindrical space vehicle
[NASA-CASE-LAR-10163-1] c 09 N72-25247
Circularly polarized antenna
[NASA-CASE-ERC-10214] c 09 N72-31235
Turnstile slot antenna
[NASA-CASE-GSC-11428-1] c 32 N74-20864
Horn antenna having V-shaped corrugated slots
[NASA-CASE-LAR-11112-1] c 32 N76-15330
Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558

SLOTS
Belleville spring assembly with elastic guides
[NASA-CASE-XNP-09452] c 15 N69-27504
Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c 02 N71-26110
Fine adjustment mount
[NASA-CASE-MFS-20249] c 15 N72-11386
Method and tool for machining a transverse slot about a bore
[NASA-CASE-LAR-11855-1] c 37 N81-14319

SLUDGE
Sewage sludge additive
[NASA-CASE-NPO-13877-1] c 45 N82-11634

SLURRIES
Silicon-slurry/aluminide coating --- protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 *N83-31795*

SLURRY PROPELLANTS
Apparatus for making a metal slurry product Patent
[NASA-CASE-XLE-00010] c 15 N70-33382

SMOKE
Method and construction for protecting heat sensitive bodies from thermal radiation and convective heat Patent
[NASA-CASE-XNP-01310] c 33 N71-28852
Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656
Smoke generator
[NASA-CASE-ARC-10905-1] c 37 N77-13418
Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178

SODIUM CHLORIDES
Diffuse reflective coating
[NASA-CASE-GSC-11214-1] c 06 N73-13128
Separator for alkaline electric batteries and method of making
[NASA-CASE-GSC-10018-1] c 44 N82-24644

SODIUM VAPOR
Method of producing silicon --- gas phase reactor multiple injector liquid feed system
[NASA-CASE-NPO-14382-1] c 31 N80-18231

SOFT LANDING
Non-reusuable kinetic energy absorber Patent
[NASA-CASE-XLE-00810] c 15 N70-34861
Space craft soft landing system Patent
[NASA-CASE-XMF-02108] c 31 N70-36845
Omnidirectional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c 31 N71-16085

SOFT LANDING SPACECRAFT
Pivotal shock absorbing pad assembly Patent
[NASA-CASE-XMF-03856] c 31 N70-34159

SOIL MECHANICS
Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367

SOIL MOISTURE
Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498

SOIL SCIENCE
Soil penetrometer
[NASA-CASE-XNP-05530] c 14 N73-32321
System for plotting subsoil structure and method therefor
[NASA-CASE-NPO-14191-1] c 31 N80-32584

SOILS
Screen particle separator
[NASA-CASE-XNP-09770-2] c 15 N72-22483
Burrowing apparatus
[NASA-CASE-XNP-07169] c 15 N73-32362
Remote sensing of vegetation and soil using microwave ellipsometry
[NASA-CASE-GSC-11976-1] c 43 N78-10529

SOL-GEL PROCESSES
Alkali-metal silicate binders and methods of manufacture
[NASA-CASE-GSC-12303-1] c 24 N79-31347

SOLAR ACTIVITY
Method and apparatus for measuring solar activity and atmospheric radiation effects
[NASA-CASE-ERC-10276] c 14 N73-26432

SOLAR ARRAYS
Deployable solar cell array
[NASA-CASE-NPO-10883] c 31 N72-22874
Use of unilluminated solar cells as shunt diodes for a solar array
[NASA-CASE-GSC-10344-1] c 03 N72-27053
Solar energy powered heliotrope
[NASA-CASE-GSC-10945-1] c 21 N72-31637
Method of making silicon solar cell array --- and mounting on flexible substrate
[NASA-CASE-LEW-11069-1] c 44 N74-14784
Solar cell shingle
[NASA-CASE-LEW-12587-1] c 44 N77-31601
Hexagon solar power panel
[NASA-CASE-NPO-12148-1] c 44 N78-27515
Solar array strip and a method for forming the same
[NASA-CASE-NPO-13652-1] c 44 N79-17314
Closed Loop solar array-ion thruster system with power control circuitry
[NASA-CASE-LEW-12780-1] c 20 N79-20179
Bonding machine for forming a solar array strip
[NASA-CASE-NPO-13652-2] c 44 N79-24431
Double-sided solar cell package
[NASA-CASE-NPO-14199-1] c 44 N79-25482
Method of construction of a multi-cell solar array
[NASA-CASE-MFS-23540-1] c 44 N79-26475
Method for forming a solar array strip
[NASA-CASE-NPO-13652-3] c 44 N80-14474
Electrical rotary joint apparatus for large space structures
[NASA-CASE-MFS-23981-1] c 07 N83-20944
Electronic system for high power load control --- solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126
Solar powered actuator with continuously variable auxiliary power control
[NASA-CASE-MFS-25637-1] c 44 N85-21769

SOLAR CELLS
Method for producing a solar cell having an integral protective covering
[NASA-CASE-XGS-04531] c 03 N69-24267
Radiation direction detector including means for compensating for photocell aging Patent
[NASA-CASE-XLA-00183] c 14 N70-40239
Attitude control for spacecraft Patent
[NASA-CASE-XNP-02982] c 31 N70-41855
Voltage-current characteristic simulator Patent
[NASA-CASE-XMS-01554] c 10 *N71-10578*
Method of making a silicon semiconductor device *Patent*
[NASA-CASE-XLE-02792] c 26 N71-10607
Solar cell including second surface mirrors Patent
[NASA-CASE-NPO-10109] c 03 N71-11049
Solar battery with interconnecting means for plural cells Patent
[NASA-CASE-XNP-06506] c 03 N71-11050
Solar cell submodule Patent
[NASA-CASE-XNP-05821] c 03 N71-11056
Interconnection of solar cells Patent
[NASA-CASE-XGS-01475] c 03 N71-11058
Solar cell matrix Patent
[NASA-CASE-NPO-10821] c 03 N71-19545
Roll-up solar array Patent
[NASA-CASE-NPO-10188] c 03 N71-20273
Method of making electrical contact on silicon solar cell and resultant product Patent
[NASA-CASE-XLE-04787] c 03 N71-20492
Solar cell mounting Patent
[NASA-CASE-XNP-00826] c 03 N71-20895
Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
Gd or Sm doped silicon semiconductor composition Patent
[NASA-CASE-XLE-10715] c 26 N71-23292
Protection of serially connected solar cells against open circuits by the use of shunting diode Patent
[NASA-CASE-XLE-04535] c 03 N71-23354
Silicon solar cell with cover glass bonded to cell by metal pattern Patent
[NASA-CASE-XLE-08569] c 03 N71-23449
Semiconductor material and method of making same Patent
[NASA-CASE-XLE-02798] c 26 N71-23654
Method of attaching a cover glass to a silicon solar cell Patent
[NASA-CASE-XLE-08569-2] c 03 N71-24681
Solar panel fabrication Patent
[NASA-CASE-XNP-03413] c 03 N71-26726
Solar cell Patent
[NASA-CASE-ARC-10050] c 03 N71-33409
Solar cell matrix
[NASA-CASE-NPO-11190] c 03 N71-34044
Recovery of radiation damaged solar cells through thermal annealing
[NASA-CASE-XGS-04047-2] c 03 N72-11062
Optimum performance spacecraft solar cell system
[NASA-CASE-GSC-10669-1] c 03 N72-20031
Solar cell assembly test method
[NASA-CASE-NPO-10401] c 03 N72-20033
Solid state matrices
[NASA-CASE-NPO-10591] c 03 N72-22041
Solar cell panels with light transmitting plate
[NASA-CASE-NPO-10747] c 03 N72-22042
Method of coating solar cell with borosilicate glass and resultant product
[NASA-CASE-GSC-11514-1] c 03 N72-24037
Apparatus for applying cover slides
[NASA-CASE-NPO-10575] c 03 N72-25019
Use of unilluminated solar cells as shunt diodes for a solar array
[NASA-CASE-GSC-10344-1] c 03 N72-27053
Stacked solar cell arrays
[NASA-CASE-NPO-11771] c 03 N73-20040
Method of making silicon solar cell array --- and mounting on flexible substrate
[NASA-CASE-LEW-11069-1] c 44 N74-14784
Covered silicon solar cells and method of manufacture --- with polymeric films
[NASA-CASE-LEW-11065-2] c 44 N76-14600
Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c 44 N76-28635
Solar cell grid patterns
[NASA-CASE-NPO-13087-2] c 44 N76-31666
Photovoltaic cell array
[NASA-CASE-MFS-22458-1] c 44 N77-10635
Silicon nitride coated, plastic covered solar cell
[NASA-CASE-LEW-11496-1] c 44 N77-14580
Solar cell assembly --- for use under high intensity illumination
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High voltage, high current Schottky barrier solar cell
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Method and apparatus for measuring minority carrier lifetimes and bulk diffusion length in P-N junction solar cells
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High voltage planar multijunction solar cell
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Solar cell having improved back surface reflector
[NASA-CASE-LEW-13620-1] c 44 N83-13579
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[NASA-CASE-LEW-12892-1] c 44 N83-14692
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[NASA-CASE-LEW-13401-2] c 44 N83-32177
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[NASA-CASE-LEW-14177-1] c 44 N85-20535
High band GaP 3-5 tunneling junction for silicon multijunction solar cells
[NASA-CASE-NPO-16526-1CU] c 44 N86-21981

SOLAR COLLECTORS
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[NASA-CASE-XGS-01395] c 03 N69-21539
Device for directionally controlling electromagnetic radiation Patent
[NASA-CASE-XLE-01716] c 09 N70-40234
Roll-up solar array Patent
[NASA-CASE-NPO-10188] c 03 N71-20273
Thermally activated foaming compositions Patent
[NASA-CASE-LAR-10373-1] c 18 N71-26155
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[NASA-CASE-ARC-10050] c 03 N71-33409
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[NASA-CASE-MFS-23267-1] c 35 N77-20401
Solar cell shingle
[NASA-CASE-LEW-12587-1] c 44 N77-31601
Solar energy collection system
[NASA-CASE-NPO-13810-1] c 44 N77-32582
Three-dimensional tracking solar energy concentrator and method for making same
[NASA-CASE-NPO-13736-1] c 44 N77-32583
Portable linear-focused solar thermal energy collecting system
[NASA-CASE-NPO-13734-1] c 44 N78-10554
Solar heating system
[NASA-CASE-LAR-12009-1] c 44 N78-15560
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Selective coating for solar panels --- using black chrome and black nickel
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Solar cell collector
[NASA-CASE-LEW-12552-1] c 44 N78-25527
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[NASA-CASE-NPO-13813-1] c 44 N78-31526
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[NASA-CASE-LEW-12552-2] c 44 N79-11472
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[NASA-CASE-WOO-00428-1] c 32 N79-19186
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[NASA-CASE-MFS-23349-1] c 44 N79-23481
Primary reflector for solar energy collection systems and method of making same
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Solar energy collection system
[NASA-CASE-NPO-13579-2] c 44 N79-24433
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[NASA-CASE-MFS-23727-1] c 44 N80-14473
Combined solar collector and energy storage system
[NASA-CASE-LAR-12205-1] c 44 N80-20810
Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518
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[NASA-CASE-MFS-23999-1] c 44 N81-24520
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Thermostatically controlled non-tracking type solar energy concentrator
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Method for producing solar energy panels by automation
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[NASA-CASE-MFS-22743-1] c 44 N76-22657
Solar energy trap
[NASA-CASE-MFS-22744-1] c 44 N76-24696
Solar cell shingle
[NASA-CASE-LEW-12587-1] c 44 N77-31601
Low cost solar energy collection system
[NASA-CASE-NPO-13579-1] c 44 N78-17460
Electromagnetic radiation energy arrangement --- coatings for solar energy absorption and infrared reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186
Aluminium or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-3] c 44 N80-16452

SOLAR ENERGY CONVERSION
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High voltage, high current Schottky barrier solar cell
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Thermal energy transformer
[NASA-CASE-NPO-14058-1] c 44 N79-18443
Solar concentrator
[NASA-CASE-MFS-23727-1] c 44 N80-14473
Copper doped polycrystalline silicon solar cell
[NASA-CASE-NPO-14670-1] c 44 N81-19558
Solar energy control system --- temperature measurement
[NASA-CASE-MFS-25287-1] c 44 N82-18686
Solar engine
[NASA-CASE-LAR-12148-1] c 44 N82-24640
Solar driven liquid metal MHD power generator
[NASA-CASE-LAR-12495-1] c 44 N83-28573
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[NASA-CASE-NPO-15458-1] c 25 N84-12262
Solar pumped laser
[NASA-CASE-LAR-12870-1] c 36 N84-16542
Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018
Bi-directional control system for energy flow in a solar powered flywheel
[NASA-CASE-MFS-25978-1] c 44 N84-32913
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[NASA-CASE-LEW-13827-1] c 44 N85-21768
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SOLAR GENERATORS
GaAs solar detector using manganese as a doping agent Patent
[NASA-CASE-XNP-01328] c 26 N71-18064
Wind and solar powered turbine
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SOLAR GRAVITATION
Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
[NASA-CASE-XNP-00708] c 14 N70-35394

SOLAR HEATING
Portable linear-focused solar thermal energy collecting system
[NASA-CASE-NPO-13734-1] c 44 N78-10554
Solar heating system
[NASA-CASE-LAR-12009-1] c 44 N78-15560
Combined solar collector and energy storage system
[NASA-CASE-LAR-12205-1] c 44 N80-20810
Multi-channel temperature measurement amplification system --- solar heating systems
[NASA-CASE-MFS-23775-1] c 44 N82-16474
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[NASA-CASE-NPO-15071-1] c 44 N82-16475
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[NASA-CASE-NPO-16392-1] c 44 N84-32912

SOLAR OBSERVATORIES
Solar optical telescope dome control system Patent
[NASA-CASE-MSC-10966] c 14 N71-19568

SOLAR PONDS (HEAT STORAGE)
Solar pond
[NASA-CASE-NPO-13581-2] c 44 N78-31525
Saltless solar pond
[NASA-CASE-NPO-15808-1] c 44 N84-34792

SOLAR POSITION
Sun angle calculator
[NASA-CASE-MSC-12617-1] c 35 N76-29552
Solar tracking system
[NASA-CASE-MFS-23999-1] c 44 N81-24520

SOLAR POWERED AIRCRAFT
Solar powered aircraft
[NASA-CASE-LAR-12615-1] c 05 N84-12154

SOLAR RADIATION
Space simulator Patent
[NASA-CASE-XNP-00459] c 11 N70-38675
Solar vane actuator Patent
[NASA-CASE-XNP-05535] c 14 N71-23040
Compact solar still Patent
[NASA-CASE-XMS-04533] c 15 N71-23086
Wide angle sun sensor --- consisting of cylinder, insulation and pair of detectors
[NASA-CASE-NPO-13327-1] c 35 N75-23910
Particulate and solar radiation stable coating for spacecraft
[NASA-CASE-LAR-10805-2] c 34 N77-18382
Solar concentrator protective system
[NASA-CASE-NPO-15662-1] c 44 N84-28204
Stable density stratification solar pond
[NASA-CASE-NPO-15419-2] c 44 N85-30474
Long gain length solar pumped box laser
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SOLAR RADIATION SHIELDING
High temperature glass thermal control structure and coating --- for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448
Variable anodic thermal control coating
[NASA-CASE-LAR-12719-1] c 44 N83-34449
Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N84-25164
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SOLAR RADIO EMISSION
Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174

SOLAR REFLECTORS
Foldable solar concentrator Patent
[NASA-CASE-XLA-04622] c 03 N70-41580
Solar cell including second surface mirrors Patent
[NASA-CASE-NPO-10109] c 03 N71-11049
Method and apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917] c 15 N71-15597
Thermal pump-compressor for space use Patent
[NASA-CASE-XLA-00377] c 33 N71-17610
Apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917-2] c 15 N71-24836
Inorganic thermal control coatings
[NASA-CASE-MFS-20011] c 18 N72-22566
Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c 74 N77-28933
Primary reflector for solar energy collection systems
[NASA-CASE-NPO-13579-4] c 44 N79-14529
Primary reflector for solar energy collection systems and method of making same
[NASA-CASE-NPO-13579-3] c 44 N79-24432

Solar energy collection system
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SOLAR SAILS
Strong thin membrane structure --- solar sails
[NASA-CASE-NPO-14021-2] c 27 N80-16163
Speed control device for a heavy duty shaft --- solar sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364

SOLAR SENSORS
Plurality of photosensitive cells on a pyramidical base for planetary trackers
[NASA-CASE-XNP-04180] c 07 N69-39736
Space vehicle attitude control Patent
[NASA-CASE-XNP-00465] c 21 N70-35395
Sun tracker with rotatable plane-parallel plate and two photocells Patent
[NASA-CASE-XGS-01159] c 21 N71-10678
Solar sensor having coarse and fine sensing with matched preirradiated cells and method of selecting cells Patent
[NASA-CASE-XLA-01584] c 14 N71-23269
Sun direction detection system
[NASA-CASE-NPO-13722-1] c 74 N77-22951
Sun tracking solar energy collector
[NASA-CASE-NPO-13921-1] c 44 N79-14526
Solar tracking system
[NASA-CASE-MFS-23999-1] c 44 N81-24520
Sun sensing guidance system for high altitude aircraft
[NASA-CASE-FRC-11052-1] c 04 N82-23231
Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232
Airborne tracking Sun photometer apparatus and system
[NASA-CASE-ARC-11622-1] c 44 N86-21982

SOLAR SIMULATORS
High temperature lens construction Patent
[NASA-CASE-XNP-04111] c 14 N71-15622
High powered arc electrodes --- producing solar simulator radiation
[NASA-CASE-LEW-11162-1] c 33 N74-12913

SOLDERED JOINTS
Soldering device Patent
[NASA-CASE-XLA-08911] c 15 N71-27214

SOLDERING
Solder flux which leaves corrosion-resistant coating Patent
[NASA-CASE-XNP-03459-2] c 18 N71-15688
Soldering with solder flux which leaves corrosion resistant coating Patent
[NASA-CASE-XNP-03459] c 15 N71-21078
Method of plating copper on aluminum Patent
[NASA-CASE-XLA-08966-1] c 17 N71-25903
Resistance soldering apparatus
[NASA-CASE-GSC-10913] c 15 N72-22491
Positive contact resistance soldering unit
[NASA-CASE-KSC-10242] c 15 N72-23497
Bonding machine for forming a solar array strip
[NASA-CASE-NPO-13652-2] c 44 N79-24431

SOLDERS
Method of coating circuit paths on printed circuit boards with solder Patent
[NASA-CASE-XMF-01599] c 09 N71-20705
Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c 26 N77-29260

SOLENOID VALVES
Two-step rocket engine bipropellant valve Patent
[NASA-CASE-XMS-04890-1] c 15 N70-22192
Automatic recording McLeod gauge Patent
[NASA-CASE-XLE-03280] c 14 N71-23093
Solenoid valve including guide for armature and valve member
[NASA-CASE-GSC-10607-1] c 15 N72-20442
Remote fire stack igniter --- with solenoid-controlled valve
[NASA-CASE-MFS-21675-1] c 25 N74-33378
Automatically operable self-leveling load table
[NASA-CASE-MFS-22039-1] c 09 N75-12968
Self-compensating solenoid valve
[NASA-CASE-ARC-11620-1] c 37 N86-21859

SOLENOIDS
Solenoid construction Patent
[NASA-CASE-XNP-01951] c 09 N70-41929
Drive circuit for minimizing power consumption in inductive load Patent
[NASA-CASE-NPO-10716] c 09 N71-24892
Rotary solenoid shutter drive assembly and rotary inertia damper and stop plate assembly --- for use with cameras mounted in satellites
[NASA-CASE-GSC-11560-1] c 33 N74-20861
Sprag solenoid brake --- development and operations of electrically controlled brake
[NASA-CASE-MFS-21846-1] c 37 N74-26976
Low temperature latching solenoid
[NASA-CASE-MSC-18106-1] c 33 N82-11357
Fluid driven sump pump
[NASA-CASE-ARC-11414-1] c 37 N83-20152

SOLID CRYOGEN COOLING
Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324

SOLID ELECTRODES
Polymeric electrolytic hygrometer
[NASA-CASE-NPO-13948-1] c 35 N78-25391
Additive for zinc electrodes --- electric automobiles
[NASA-CASE-LEW-13286-1] c 33 N84-14422

SOLID LUBRICANTS
Bonded solid lubricant coating Patent
[NASA-CASE-XMS-00259] c 18 N70-36400
Method of lubricating rolling element bearings Patent
[NASA-CASE-XLE-09527] c 15 N71-17688
Inorganic solid film lubricants Patent
[NASA-CASE-XMF-03988] c 15 N71-21403
Rolling element bearings Patent
[NASA-CASE-XLE-09527-2] c 15 N71-26189
Method of making bearing materials --- self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916

SOLID PHASES
Solid electrolyte cell
[NASA-CASE-NPO-15269-1] c 44 N82-29710

SOLID PROPELLANT IGNITION
Apparatus for igniting solid propellants Patent
[NASA-CASE-XLE-00207] c 28 N70-33375
Method of igniting solid propellants Patent
[NASA-CASE-XLE-01988] c 27 N71-15634
Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275
Method and apparatus for suppressing ignition overpressure in solid rocket propulsion systems
[NASA-CASE-MFS-25843-1] c 20 N83-17588

SOLID PROPELLANT ROCKET ENGINES
Spherical solid-propellant rocket motor Patent
[NASA-CASE-XLA-00105] c 28 N70-33331
Mandrel for shaping solid propellant rocket fuel into a motor casing Patent
[NASA-CASE-XLA-00304] c 27 N70-34783
Spherically-shaped rocket motor Patent
[NASA-CASE-XHQ-01897] c 28 N70-35381
Propellant grain for rocket motors Patent
[NASA-CASE-XGS-03556] c 27 N70-35534
Apparatus and method for control of a solid fueled rocket vehicle Patent
[NASA-CASE-XNP-00217] c 28 N70-38181
Steerable solid propellant rocket motor Patent
[NASA-CASE-XNP-00234] c 28 N70-38645
Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779
Electrical apparatus for detection of thermal decomposition of insulation Patent
[NASA-CASE-XMF-03968] c 14 N71-27186
Solid propellant rocket motor
[NASA-CASE-XNP-03282] c 28 N72-20758
Solid propellant rocket motor nozzle
[NASA-CASE-NPO-11458] c 28 N72-23810
Solid propellant rocket motor
[NASA-CASE-NPO-11559] c 28 N73-24784
Space vehicle
[NASA-CASE-MFS-22734-1] c 18 N75-19329
Solid propellant rocket motor and method of making same
[NASA-CASE-XLA-1349] c 20 N77-17143
Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275
Solid propellant motor
[NASA-CASE-NPO-11458A] c 20 N78-32179
Method and apparatus for suppressing ignition overpressure in solid rocket propulsion systems
[NASA-CASE-MFS-25843-1] c 20 N83-17588
Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784

SOLID PROPELLANTS
Variable thrust ion engine utilizing thermally decomposable solid fuel Patent
[NASA-CASE-XMF-00923] c 28 N70-36802
Means and method of measuring viscoelastic strain Patent
[NASA-CASE-XNP-01153] c 32 N71-17645
Processing for producing a sterilized instrument Patent
[NASA-CASE-XNP-09763] c 14 N71-20461
Method of forming difunctional polyisobutylene
[NASA-CASE-NPO-10893] c 27 N73-22710

SOLID ROCKET BINDERS
Solid propellant liner Patent
[NASA-CASE-XNP-09744] c 27 N71-16392
Silicone containing solid propellant
[NASA-CASE-NPO-14477-1] c 28 N80-28536

SOLID ROCKET PROPELLANTS
Process for preparing sterile solid propellants Patent
[NASA-CASE-XNP-01749] c 27 N70-41897
Burning rate control of solid propellants Patent
[NASA-CASE-XLE-03494] c 27 N71-21819
Hydrazinium nitroformate propellant stabilized with nitroguanidine
[NASA-CASE-NPO-12000] c 27 N72-25699
Hydrazinium nitroformate propellant with saturated polymeric hydrocarbon binder
[NASA-CASE-NPO-12015] c 27 N73-16764
Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c 28 N74-33209
Casting propellant in rocket engine
[NASA-CASE-LAR-11995-1] c 28 N77-10213
Solid propellant rocket motor and method of making same
[NASA-CASE-XLA-1349] c 20 N77-17143
High performance ammonium nitrate propellant
[NASA-CASE-NPO-14260-1] c 28 N79-28342
Process for the leaching of AP from propellant
[NASA-CASE-NPO-14109-1] c 28 N80-23471
Silicone containing solid propellant
[NASA-CASE-NPO-14477-1] c 28 N80-28536

SOLID SOLUTIONS
Solid sorbent air sampler
[NASA-CASE-MSC-20653-1] c 35 N85-20301

SOLID STATE
Solid state chemical source for ammonia beam maser Patent
[NASA-CASE-XGS-01504] c 16 N70-41578

SOLID STATE DEVICES
Solid state switch
[NASA-CASE-XNP-09228] c 09 N69-27500
Temperature compensated solid state differential amplifier Patent
[NASA-CASE-XAC-00435] c 09 N70-35440
Operational integrator Patent
[NASA-CASE-NPO-10230] c 09 N71-12520
Microwave power receiving antenna Patent
[NASA-CASE-MFS-20333] c 09 N71-13486
Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
Solid state television camera system Patent
[NASA-CASE-XMF-06092] c 07 N71-24612
Switching circuit Patent
[NASA-CASE-XNP-06505] c 10 N71-24799
Transverse piezoresistance and pinch effect electromechanical transducers Patent
[NASA-CASE-ERC-10088] c 26 N71-25490
A solid state acoustic variable time delay line Patent
[NASA-CASE-ERC-10032] c 10 N71-25900
Broadband stable power multiplier Patent
[NASA-CASE-XNP-10854] c 10 N71-26331
Solid state remote circuit selector switch
[NASA-CASE-LEW-10387] c 09 N72-22201
RF controlled solid state switch
[NASA-CASE-ARC-10136-1] c 09 N72-22202
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[NASA-CASE-NPO-11388] c 03 N72-23048
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[NASA-CASE-NPO-10817-1] c 08 N73-30135
Full wave modulator-demodulator amplifier apparatus --- for generating rectified output signal
[NASA-CASE-FRC-10072-1] c 33 N74-14939
Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HQN-10069] c 33 N75-27251
Solid-state current transformer
[NASA-CASE-MFS-22560-1] c 33 N77-14335
Space-charge-limited solid-state triode
[NASA-CASE-NPO-13064-1] c 33 N79-11314
Hermetically sealable package for hybrid solid-state electronic devices and the like
[NASA-CASE-MSC-20181-1] c 33 N82-28549
Control means for a solid state crossbar switch
[NASA-CASE-NPO-15066-1] c 33 N82-29538
Self-correcting electronically scanned pressure sensor
[NASA-CASE-LAR-12686-1] c 35 N84-14491
Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] c 35 N84-33765
Solar energy converter using surface plasma waves
[NASA-CASE-LEW-13827-1] c 44 N85-21768

SOLID SURFACES
Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170

SOLID WASTES
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[NASA-CASE-MFS-23720-3] c 43 N79-25443
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[NASA-CASE-MFS-23725-1] c 43 N79-31706
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Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650
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[NASA-CASE-LAR-12894-1] c 27 N85-20125
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[NASA-CASE-GSC-10072] c 18 N71-14014
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[NASA-CASE-NPO-13530-1] c 25 N81-17187
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[NASA-CASE-NPO-15772-1] c 76 N85-29800
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[NASA-CASE-MSC-14081-1] c 35 N74-27860
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[NASA-CASE-LAR-13178-1] c 27 N86-20565
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[NASA-CASE-NPO-14110-1] c 28 N81-15119
Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] c 23 N84-16255
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[NASA-CASE-NPO-14272-1] c 25 N81-33246
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[NASA-CASE-NPO-15210-1] c 25 N84-22709
Nebulization reflux concentrator
[NASA-CASE-LAR-13254-1] c 31 N85-20154
Process for producing tris s(n-methylamino) methylsilane
[NASA-CASE-MFS-25721-1] c 25 N85-21280
Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800
Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227
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[NASA-CASE-LAR-13178-1] c 27 N86-20565
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[NASA-CASE-NPO-14632-1] c 32 N82-18443
Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376
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Instrumentation for measurement of aircraft noise and sonic boom
[NASA-CASE-LAR-11173-1] c 35 N75-19614
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[NASA-CASE-LAR-11476-1] c 07 N76-27232
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Apparatus for measuring a sorbate dispersed in a fluid stream
[NASA-CASE-ARC-10896-1] c 35 N78-19465
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[NASA-CASE-MSC-20653-1] c 35 N85-20301
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[NASA-CASE-MFS-22926-1] c 24 N77-27187
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[NASA-CASE-LAR-10595-1] c 35 N74-16135
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[NASA-CASE-NPO-15435-1] c 71 N83-36846
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[NASA-CASE-NPO-15466-1] c 71 N85-22104
SOUND LOCALIZATION
Resolution enhanced sound detecting apparatus
[NASA-CASE-NPO-14134-1] c 71 N79-23753
SOUND PRESSURE
Instrumentation for measurement of aircraft noise and sonic boom
[NASA-CASE-LAR-11173-1] c 35 N75-19614
Differential sound level meter
[NASA-CASE-LAR-12106-1] c 71 N78-14867
SOUND PROPAGATION
System for plotting subsoil structure and method therefor
[NASA-CASE-NPO-14191-1] c 31 N80-32584
SOUND RANGING
Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376
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[NASA-CASE-XMF-03873] c 06 N69-39733
Cosmic dust sensor
[NASA-CASE-GSC-10503-1] c 14 N72-20381
Resolution enhanced sound detecting apparatus
[NASA-CASE-NPO-14134-1] c 71 N79-23753
Pulse transducer with artifact signal attenuator --- heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969
Acoustic system for material transport
[NASA-CASE-NPO-15453-1] c 71 N83-32515
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[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752
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[NASA-CASE-XMS-05365] c 14 N71-22993
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[NASA-CASE-NPO-13263-1] c 12 N75-24774
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[NASA-CASE-NPO-13802-1] c 71 N78-10837
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[NASA-CASE-NPO-14005-1] c 71 N79-20827
Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781
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[NASA-CASE-LAR-12995-1] c 35 N84-22933
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[NASA-CASE-NPO-15689-1] c 71 N84-23233
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104
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[NASA-CASE-LAR-12966-1] c 35 N85-30282
Acoustic particle separation
[NASA-CASE-NPO-155559-1] c 71 N85-30765
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[NASA-CASE-LAR-13440-1] c 71 N86-22307
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Attitude control system for sounding rockets Patent
[NASA-CASE-XGS-01654] c 31 N71-24750
Method and system for ejecting fairing sections from a rocket vehicle
[NASA-CASE-GSC-10590-1] c 31 N73-14853
SPACE CAPSULES
Assembly for recovering a capsule Patent
[NASA-CASE-XMF-00641] c 31 N70-36410
Space capsule Patent
[NASA-CASE-XLA-01332] c 31 N71-15664
Space capsule ejection assembly Patent
[NASA-CASE-XMF-03169] c 31 N71-15675
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[NASA-CASE-LAR-13330-1] c 18 N86-20470
SPACE CHARGE
Space-charge-limited solid-state triode
[NASA-CASE-NPO-13064-1] c 33 N79-11314
FET charge sensor and voltage probe
[NASA-CASE-NPO-16045-1] c 76 N84-33211
SPACE COMMUNICATION
Multiple input radio receiver Patent
[NASA-CASE-XLA-00901] c 07 N71-10775
Tracking receiver Patent
[NASA-CASE-XGS-08679] c 10 N71-21473
Apparatus providing a directive field pattern and attitude sensing of a spin stabilized satellite Patent
[NASA-CASE-XGS-02607] c 31 N71-23009
Space communication system for compressed data with a concatenated Reed-Solomon-Viterbi coding channel
[NASA-CASE-NPO-13545-1] c 32 N77-12240
SPACE ENVIRONMENT SIMULATION
Voltage-current characteristic simulator Patent
[NASA-CASE-XMS-01554] c 10 N71-10578
Fluid dispensing apparatus and method Patent
[NASA-CASE-XLE-01182] c 27 N71-15635
Reduced gravity simulator Patent
[NASA-CASE-XLA-01787] c 11 N71-16028
Apparatus for measuring electric field strength on the surface of a model vehicle Patent
[NASA-CASE-XLE-02038] c 09 N71-16086
Optical characteristics measuring apparatus Patent
[NASA-CASE-XNP-08840] c 23 N71-16365
Omni-directional anisotropic molecular trap Patent
[NASA-CASE-XGS-00783] c 30 N71-17788
Space environmental work simulator Patent
[NASA-CASE-XMF-07488] c 11 N71-18773
Mechanical simulator of low gravity conditions Patent
[NASA-CASE-MFS-10555] c 11 N71-19494
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[NASA-CASE-XLE-08511] c 18 N71-23710
Autoignition test cell Patent
[NASA-CASE-KSC-10198] c 11 N71-28629
Illumination system including a virtual light source Patent
[NASA-CASE-HQN-10781] c 23 N71-30292
Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332] c 05 N72-20097
Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MRS-25791-1] c 09 N84-27749
SPACE ERECTABLE STRUCTURES
Flexible foam erectable space structures Patent
[NASA-CASE-XLA-00686] c 31 N70-34135
Erectable modular space station Patent
[NASA-CASE-XLA-00678] c 31 N70-34296
Manned space station Patent
[NASA-CASE-XLA-00258] c 31 N70-38676
Collapsible loop antenna for space vehicle Patent
[NASA-CASE-XMF-00437] c 07 N70-40202
Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309
Flexible wing deployment device Patent
[NASA-CASE-XLA-01220] c 02 N70-41863
Capillary radiator Patent
[NASA-CASE-XLE-03307] c 33 N71-14035
Space manufacturing machine Patent
[NASA-CASE-MFS-20410] c 15 N71-19214
Roll-up solar array Patent
[NASA-CASE-NPO-10188] c 03 N71-20273
Collapsible reflector Patent
[NASA-CASE-XMS-03454] c 09 N71-20658
Inflatable support structure Patent
[NASA-CASE-XLA-01731] c 32 N71-21045
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[NASA-CASE-MSC-11817-1] c 15 N71-26611
Inflatable tether Patent
[NASA-CASE-XMS-10993] c 15 N71-28936
Expandable space frames
[NASA-CASE-ERC-10365-1] c 31 N73-32749
Apparatus for assembling space structure
[NASA-CASE-MFS-23579-1] c 18 N79-11108
Lightweight structural columns --- space erectable trusses
[NASA-CASE-LAR-12095-1] c 31 N81-25258
Telescoping columns --- parabolic antenna support
[NASA-CASE-LAR-12195-1] c 31 N81-27324
Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 18 N84-16250
Foldable self-erecting joint --- space erectable structures
[NASA-CASE-MSC-20635-1] c 18 N84-32424
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[NASA-CASE-NPO-16038-1] c 37 N86-19605
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Vehicle for use in planetary exploration
[NASA-CASE-NPO-11366] c 11 N73-26238
SPACE FLIGHT
Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
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[NASA-CASE-XFR-03107] c 09 N71-19449
SPACE FLIGHT FEEDING
Helmet feedport
[NASA-CASE-XMS-09653] c 54 N78-17680
Self-charging metering and dispensing device for fluids
[NASA-CASE-MSC-20275-1] c 35 N85-21595
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Apparatus for assembling space structure
[NASA-CASE-MFS-23579-1] c 18 N79-11108
SPACE MAINTENANCE
Thruster maintenance system Patent
[NASA-CASE-MFS-20325] c 28 N71-27095
High temperature emittance coatings and coating compositions --- repairing damaged space shuttle tiles in space
[NASA-CASE-MSC-18851-1] c 27 N82-26460
Hot melt recharge system --- repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12881-1] c 27 N84-14323

SPACE MANUFACTURING
Material suspension within an acoustically excited resonant chamber — at near weightless conditions
[NASA-CASE-NPO-13263-1] c 12 N75-24774
Method for manufacturing mirrors in zero gravity environment
[NASA-CASE-MSC-12611-1] c 12 N76-15189
Apparatus for assembling space structure
[NASA-CASE-MFS-23579-1] c 18 N79-11108
Structural members, method and apparatus
[NASA-CASE-MSC-16217-1] c 31 N81-27323
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[NASA-CASE-MSC-25707-1] c 35 N85-29214

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[NASA-CASE-XAC-08494] c 30 N71-15990
Deep space monitor communication satellite system Patent
[NASA-CASE-XAC-06029-1] c 31 N71-24813
A method of delivering a vehicle to earth orbit and returning the reusable portion thereof to earth
[NASA-CASE-MSC-12391] c 30 N73-12884
Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-1] c 28 N84-29017

SPACE NAVIGATION
Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688
Dual purpose momentum wheels for spacecraft with magnetic recording
[NASA-CASE-NPO-11481] c 21 N73-13644
Star tracking reticles and process for the production thereof
[NASA-CASE-GSC-11188-2] c 21 N73-19630

SPACE ORIENTATION
Method and apparatus for determining satellite orientation utilizing spatial energy sources Patent
[NASA-CASE-XGS-00466] c 21 N70-34297

SPACE PLATFORMS
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[NASA-CASE-NPO-16038-1] c 37 N86-19605
Mobile remote manipulator vehicle system
[NASA-CASE-LAR-13393-1] c 54 N86-21147

SPACE PROBES
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609

SPACE PROCESSING
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[NASA-CASE-MFS-25707-1] c 35 N82-26631
High gradient directional solidification furnace
[NASA-CASE-MFS-25963-1] c 35 N86-20750

SPACE RENDEZVOUS
Method and apparatus for securing to a spacecraft Patent
[NASA-CASE-MFS-11133] c 31 N71-16222
Apparatus for releasably connecting first and second objects in predetermined space relationship
[NASA-CASE-MSC-18969-1] c 18 N84-22605
Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669

SPACE SHUTTLE BOOSTERS
Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784

SPACE SHUTTLE ORBITERS
Surface conforming thermal/pressure seal --- tail assemblies of space shuttle orbiters
[NASA-CASE-MSC-18422-1] c 37 N82-16408
High temperature emittance coatings and coating compositions --- repairing damaged space shuttle tiles in space
[NASA-CASE-MSC-18851-1] c 27 N82-26460
CAM controlled retractable door latch
[NASA-CASE-MSC-20304-1] c 37 N82-31690
High temperature glass thermal control structure and coating — for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448
Hot melt recharge system --- repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12881-1] c 27 N84-14323
Pre-stressed thermal protection systems
[NASA-CASE-MSC-20254-1] c 16 N84-22601
Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784
Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] c 27 N84-27886

SPACE SHUTTLE PAYLOADS
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612

SPACE SHUTTLES
Flight craft Patent
[NASA-CASE-XAC-02058] c 02 N71-16087
A method of delivering a vehicle to earth orbit and returning the reusable portion thereof to earth
[NASA-CASE-MSC-12391] c 30 N73-12884
Space shuttle vehicle and system
[NASA-CASE-MSC-12433] c 31 N73-14854
Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MSC-14245-1] c 18 N75-27041
Fused silicide coatings containing discrete particles for protecting niobium alloys --- used in space shuttle thermal protection systems and turbine engine components
[NASA-CASE-LEW-11179-1] c 27 N76-16229
Device for coupling a first vehicle to a second vehicle
[NASA-CASE-GSC-12429-1] c 37 N81-14320
System for sterilizing objects --- cleaning space vehicle systems
[NASA-CASE-KSC-11085-1] c 54 N81-24724
Terminal guidance sensor system --- space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519
Adjustable high emittance gap filler --- reentry shielding for space shuttle vehicles
[NASA-CASE-ARC-11310-1] c 27 N82-24339
Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991
Slide release mechanism --- for space shuttle orbiter/external tank connection device
[NASA-CASE-MSC-20080-1] c 37 N85-30334

SPACE SIMULATORS
Space simulator Patent
[NASA-CASE-XNP-00459] c 11 N70-38675
Variable geometry manned orbital vehicle Patent
[NASA-CASE-XLA-03691] c 31 N71-15674
Space simulation and radiative property testing system and method Patent
[NASA-CASE-MFS-20096] c 14 N71-30026
Biocentrifuge system capable of exchanging specimen cages while in operational mode
[NASA-CASE-MFS-23825-1] c 51 N81-32829

SPACE STATIONS
Manned space station Patent
[NASA-CASE-XLA-00258] c 31 N70-38676
Meteoroid impact position locator aid for manned space station
[NASA-CASE-LAR-10629-1] c 35 N75-33367
Multiple in-line docking capability for rotating space stations
[NASA-CASE-MFS-20855-1] c 15 N77-10112
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612

SPACE STORAGE
Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991

SPACE SUITS
Universal pilot restraint suit and body support therefor Patent
[NASA-CASE-XAC-00405] c 05 N70-41819
Space suit pressure stabilizer Patent
[NASA-CASE-XLA-05332] c 05 N71-11194
Equipotential space suit Patent
[NASA-CASE-LAR-10007-1] c 05 N71-11195
Biological isolation garment Patent
[NASA-CASE-MSC-12206-1] c 05 N71-17599
Space environmental work simulator Patent
[NASA-CASE-XMF-07488] c 11 N71-18773
Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439
G conditioning suit Patent
[NASA-CASE-XLA-02898] c 05 N71-20268
Hard space suit Patent
[NASA-CASE-XAC-07043] c 05 N71-23161
Evacuation port seal Patent
[NASA-CASE-XMF-03290] c 15 N71-23256
Fabric for micrometeoroid protection garment Patent
[NASA-CASE-MSC-12109] c 18 N71-26285
Venting device for pressurized space suit helmet Patent
[NASA-CASE-XMS-09652-1] c 05 N71-26333
Automatic control of liquid cooling garment by cutaneous and external auditory meatus temperatures
[NASA-CASE-MSC-13917-1] c 05 N72-15098
Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332] c 05 N72-20097
Space suit having improved waist and torso movement
[NASA-CASE-ARC-10275-1] c 05 N72-22092
Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332-2] c 05 N73-25125
Temperature controller for a fluid cooled garment
[NASA-CASE-ARC-10599-1] c 05 N73-26071
Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012
Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
[NASA-CASE-MSC-14331-1] c 27 N76-24405
Protective garment ventilation system
[NASA-CASE-XMS-04928] c 54 N78-17679
Emergency space-suit helmet
[NASA-CASE-MSC-10954-1] c 54 N78-18761
Spacesuit mobility joints
[NASA-CASE-ARC-11058-1] c 54 N78-31735
Spacesuit torso closure
[NASA-CASE-ARC-11100-1] c 54 N78-31736
Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721
Spacesuit mobility knee joints
[NASA-CASE-ARC-11058-2] c 54 N79-24651
Absorbent product to absorb fluids --- for collection of human wastes
[NASA-CASE-MSC-18223-1] c 24 N82-29362
Shoulder and hip joint for hard space suits and the like
[NASA-CASE-ARC-11534-1] c 54 N84-33021
Elbow and knee joint for hard space suits and the like
[NASA-CASE-ARC-11610-1] c 54 N85-20666
Shoulder and hip joint for hard space suits and the like
[NASA-CASE-ARC-11543-1] c 54 N85-21986
Torso sizing ring construction for hard space suit
[NASA-CASE-ARC-11616-1] c 54 N85-21987

SPACE TOOLS
Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718

SPACE TRANSPORTATION SYSTEM
Coupling device for moving vehicles
[NASA-CASE-GSC-12322-1] c 37 N80-14398
Three stage rocket vehicle with parallel staging
[NASA-CASE-MFS-25878-1] c 18 N84-27787

SPACE VEHICLE CHECKOUT PROGRAM
Hydraulic support for dynamic testing Patent
[NASA-CASE-XMF-03248] c 11 N71-10604
Electronic checkout system for space vehicles Patent
[NASA-CASE-XKS-08012-2] c 31 N71-15566
High pressure gas filter system Patent
[NASA-CASE-MFS-12806] c 14 N71-17588

SPACEBORNE TELESCOPES
Anastigmatic three-mirror telescope
[NASA-CASE-MFS-23675-1] c 89 N79-10969
Cooled echelle grating spectrometer --- for space telescope applications
[NASA-CASE-NPO-14372-1] c 35 N80-26635
Extended range X-ray telescope
[NASA-CASE-MFS-25282-1] c 34 N83-19015
Self-indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N84-20860
Dual aperture multispectral Schmidt objective
[NASA-CASE-GSC-12756-1] c 74 N84-23248
Spectral slicing X-ray telescope with variable magnification
[NASA-CASE-MFS-25942-1] c 74 N86-20124

SPACECRAFT
Interconnection of solar cells Patent
[NASA-CASE-XGS-01475] c 03 N71-11058
Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c 21 N71-22880
Solar cell and circuit array and process for nullifying magnetic fields Patent
[NASA-CASE-XGS-03390] c 03 N71-23187
High efficiency ionizer assembly Patent
[NASA-CASE-XNP-01954] c 28 N71-28850
Altitude simulation chamber for rocket engine testing
[NASA-CASE-MFS-20620] c 11 N72-27262
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609

SPACECRAFT ANTENNAS
Parasitic probe antenna Patent
[NASA-CASE-XKS-09348] c 09 N71-13521
Millimeter wave antenna system Patent Application
[NASA-CASE-GSC-10949-1] c 07 N71-28965
Integrated thermoelectric generator/space antenna combination
[NASA-CASE-XER-09521] c 09 N72-12136
Omnidirectional slot antenna for mounting on cylindrical space vehicle
[NASA-CASE-LAR-10163-1] c 09 N72-25247
Singly-curved reflector for use in high-gain antennas
[NASA-CASE-NPO-11361] c 07 N72-32169
Collapsible structure for an antenna reflector
[NASA-CASE-NPO-11751] c 07 N73-24176
Multi-channel rotating optical interface for data transmission
[NASA-CASE-NPO-14066-1] c 74 N79-34011

Antenna deployment mechanism for use with a spacecraft --- extensible and retractable telescopic antenna mast
[NASA-CASE-GSC-12331-1] c 18 N80-14183
Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558

SPACECRAFT CABIN ATMOSPHERES
Thermal control wall panel Patent
[NASA-CASE-XLA-01243] c 33 N71-22792
Nonflammable coating compositions --- for use in high oxygen environments
[NASA-CASE-MFS-20486-2] c 27 N74-17283
Regenerable device for scrubbing breathable air of CO2 and moisture without special heat exchanger equipment
[NASA-CASE-MSC-14771-1] c 54 N77-32722
Solid sorbent air sampler
[NASA-CASE-MSC-20653-1] c 35 N85-20301

SPACECRAFT COMMUNICATION
Time division multiplex system
[NASA-CASE-XGS-05918] c 07 N69-39974
Phase-shift data transmission system having a pseudo-noise SYNC code modulated with the data in a single channel Patent
[NASA-CASE-XNP-00911] c 08 N70-41961
Tracking receiver Patent
[NASA-CASE-XGS-08679] c 10 N71-21473
Omnidirectional microwave spacecraft antenna Patent
[NASA-CASE-XLA-03114] c 09 N71-22888
VHF/UHF parasitic probe antenna Patent
[NASA-CASE-XKS-09340] c 07 N71-24614
Rapid sync acquisition system Patent
[NASA-CASE-NPO-10214] c 10 N71-26577
Turnstile slot antenna
[NASA-CASE-GSC-11428-1] c 32 N74-20864
Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472
Antenna feed system for receiving circular polarization and transmitting linear polarization
[NASA-CASE-NPO-14362-1] c 32 N80-16261
Common data buffer system --- communication with computational equipment utilized in spacecraft operations
[NASA-CASE-KSC-11048-1] c 62 N81-24779
Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341
Reed-Solomon decoder --- applicable to Galileo Project requirements
[NASA-CASE-NPO-15982-1] c 60 N85-20680

SPACECRAFT COMPONENTS
Electrical connector Patent Application
[NASA-CASE-MFS-14741] c 09 N70-20737
Vibration damping system Patent
[NASA-CASE-XMS-01620] c 23 N71-15673
Intermittent type silica gel adsorption refrigerator Patent
[NASA-CASE-XNP-00920] c 15 N71-15906
Omni-directional anisotropic molecular trap Patent
[NASA-CASE-XGS-00783] c 30 N71-17788
Spacecraft airlock Patent
[NASA-CASE-XLA-02050] c 31 N71-22968
Docking structure for spacecraft Patent
[NASA-CASE-XMF-05941] c 31 N71-23912
Redundant actuating mechanism Patent
[NASA-CASE-XGS-08718] c 15 N71-24600
Space simulator Patent
[NASA-CASE-NPO-10141] c 11 N71-24964
Spacecraft Patent
[NASA-CASE-MSC-13047-1] c 31 N71-25434
Peak acceleration limiter for vibrational tester Patent
[NASA-CASE-NPO-10556] c 14 N71-27185
Solid state thermal control polymer coating Patent
[NASA-CASE-XLA-01745] c 33 N71-28903
Scientific experiment flexible mount
[NASA-CASE-MSC-12372-1] c 31 N72-25842
Airlock
[NASA-CASE-MFS-20922-1] c 18 N74-22136
Thrust-isolating mounting --- characteristics of support for loads mounted in spacecraft
[NASA-CASE-MFS-21680-1] c 18 N74-27397
Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MSC-14245-1] c 18 N75-27041
High temperature penetrator assembly with bayonet plug and ramp-activated lock
[NASA-CASE-MSC-18526-1] c 37 N82-24494
Apparatus for releasably connecting first and second objects in predetermined space relationship
[NASA-CASE-MSC-18969-1] c 18 N84-22605
Aerospace vehicle
[NASA-CASE-LAR-13155-1] c 05 N86-19310

SPACECRAFT CONFIGURATIONS
Inflatable honeycomb Patent
[NASA-CASE-XLA-00204] c 32 N70-36536
Space and atmospheric reentry vehicle Patent
[NASA-CASE-XGS-00260] c 31 N70-37924
Spacecraft separation system for spinning vehicles and/or payloads Patent
[NASA-CASE-XLA-02132] c 31 N71-10582
Space shuttle vehicle and system
[NASA-CASE-MSC-12433] c 31 N73-14854
Space vehicle
[NASA-CASE-MFS-22734-1] c 18 N75-19329
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612
Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784

SPACECRAFT CONSTRUCTION MATERIALS
Pressurized cell micrometeoroid detector Patent
[NASA-CASE-XLA-00936] c 14 N71-14996
Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747
Method of making a composite sandwich lattice structure
[NASA-CASE-LAR-11898-2] c 24 N78-17149
Fixture for environmental exposure of structural *materials under compression load*
[NASA-CASE-LAR-12602-1] c 39 N83-32081

SPACECRAFT CONTROL
Light sensitive digital aspect sensor Patent
[NASA-CASE-XGS-00359] c 14 N70-34158
Space vehicle attitude control Patent
[NASA-CASE-XNP-00465] c 21 N70-35395
Parachute glider Patent
[NASA-CASE-XLA-00898] c 02 N70-36804
Attitude control for spacecraft Patent
[NASA-CASE-XNP-00294] c 21 N70-36938
Attitude orientation of spin-stabilized space vehicles Patent
[NASA-CASE-XLA-00281] c 21 N70-36943
Hypersonic reentry vehicle Patent
[NASA-CASE-XMS-04142] c 31 N70-41631
Roll attitude star sensor system Patent
[NASA-CASE-XNP-01307] c 21 N70-41856
Canopus detector including automotive gain control of photomultiplier tube Patent
[NASA-CASE-XNP-03914] c 21 N71-10771
Spacecraft experiment pointing and attitude control system Patent
[NASA-CASE-XLA-05464] c 21 N71-14132
Attitude control system Patent
[NASA-CASE-XGS-04393] c 21 N71-14159
Reactance control system Patent
[NASA-CASE-XMF-01598] c 21 N71-15583
Spacecraft attitude detection system by stellar reference Patent
[NASA-CASE-XGS-03431] c 21 N71-15642
Inertial reference apparatus Patent
[NASA-CASE-XAC-03107] c 23 N71-16098
Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23081
Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173
Heated porous plug microthrustor
[NASA-CASE-GSC-10640-1] c 28 N72-18766
Flight control system
[NASA-CASE-MSC-13397-1] c 21 N72-25595
All sky pointing attitude control system
[NASA-CASE-ARC-10716-1] c 35 N77-20399
Three axis attitude control system
[NASA-CASE-GSC-12970-1] c 08 N86-20396

SPACECRAFT DESIGN
Lunar landing flight research vehicle Patent
[NASA-CASE-XFR-00929] c 31 N70-34966
Space capsule Patent
[NASA-CASE-XLA-01332] c 31 N71-15664
Spacecraft radiator cover Patent
[NASA-CASE-MSC-12049] c 31 N71-16080
Method and apparatus for securing to a spacecraft Patent
[NASA-CASE-MFS-11133] c 31 N71-16222
Aerodynamic protection for space flight vehicles Patent
[NASA-CASE-XNP-02507] c 31 N71-17679
Self supporting space vehicle Patent
[NASA-CASE-XLA-00117] c 31 N71-17680
Multi-mission module Patent
[NASA-CASE-XMF-01543] c 31 N71-17730
Docking structure for spacecraft Patent
[NASA-CASE-XMF-05941] c 31 N71-23912
Spacecraft Patent
[NASA-CASE-MSC-13047-1] c 31 N71-25434
Emergency earth orbital escape device
[NASA-CASE-MSC-13281] c 31 N72-18859
Space vehicle
[NASA-CASE-MFS-22734-1] c 18 N75-19329
Space vehicle system
[NASA-CASE-MSC-12561-1] c 18 N76-17185
Method and apparatus for neutralizing potentials induced on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c 33 N77-10429
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612
Aerospace vehicle
[NASA-CASE-LAR-13155-1] c 05 N86-19310

SPACECRAFT DOCKING
Expanding center probe and drogue Patent
[NASA-CASE-XMS-03613] c 31 N71-16346
Docking structure for spacecraft Patent
[NASA-CASE-XMF-05941] c 31 N71-23912
Latching mechanism Patent
[NASA-CASE-MSC-15474-1] c 15 N71-26162
Docking structure for spacecraft
[NASA-CASE-MFS-20863] c 31 N73-26876
Latch mechanism
[NASA-CASE-MSC-12549-1] c 37 N74-27903
Spacecraft docking and alignment system --- using television camera system
[NASA-CASE-MSC-12559-1] c 18 N76-14186
Multiple in-line docking capability for rotating space stations
[NASA-CASE-MFS-20855-1] c 15 N77-10112
Combined docking and grasping device
[NASA-CASE-MFS-23088-1] c 37 N77-23483
Terminal guidance sensor system --- space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519
Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303
Apparatus for releasably connecting first and second objects in predetermined space relationship
[NASA-CASE-MSC-18969-1] c 18 N84-22605
Space station architecture, module, berthing hub, shell *assembly, berthing mechanism and utility connection* channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612
Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N86-19613
Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669

SPACECRAFT ELECTRONIC EQUIPMENT
Dynamic Doppler simulator Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391
Vacuum deposition apparatus Patent
[NASA-CASE-XMF-01667] c 15 N71-17647
Nose cone mounted heat resistant antenna Patent
[NASA-CASE-XMS-04312] c 07 N71-22984
Electrical self-aligning connector --- orbital servicer vehicles
[NASA-CASE-MFS-25211-2] c 33 N84-14423
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612

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Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
Quick disconnect latch and handle combination Patent
[NASA-CASE-MFS-11132] c 15 N71-17649
Dual solid cryogens for spacecraft refrigeration Patent
[NASA-CASE-GSC-10188-1] c 23 N71-24725
Dual stage check valve
[NASA-CASE-MSC-13587-1] c 15 N73-30459
Metering gun for dispensing precisely measured charges of fluid
[NASA-CASE-MFS-21163-1] c 54 N74-17853
Automatic thermal switch --- spacecraft applications
[NASA-CASE-GSC-12553-1] c 34 N83-28356

SPACECRAFT GUIDANCE
Ejection unit Patent
[NASA-CASE-XNP-00676] c 15 N70-38996
Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688
Solar vane actuator Patent
[NASA-CASE-XNP-05535] c 14 N71-23040
Azimuth laying system Patent
[NASA-CASE-XMF-01669] c 21 N71-23289
Hermetic sealed vibration damper Patent
[NASA-CASE-MSC-10959] c 15 N71-26243
Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376

SPACECRAFT INSTRUMENTS
Mechanical coordinate converter Patent
[NASA-CASE-XNP-00614] c 14 N70-36907
Air bearing Patent
[NASA-CASE-XMF-00339] c 15 N70-39896
Folding boom assembly Patent
[NASA-CASE-XGS-00938] c 32 N70-41367

Pressurized cell micrometeoroid detector Patent
[NASA-CASE-XLA-00936] c 14 N71-14996
Guidance and maneuver analyzer Patent
[NASA-CASE-XNP-09572] c 14 N71-15621
Clamping assembly for inertial components Patent
[NASA-CASE-XMS-02184] c 15 N71-20813
Optical projector system Patent
[NASA-CASE-XNP-03853] c 23 N71-21882
Combined optical attitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268
Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118
Spacecraft attitude control method and apparatus
[NASA-CASE-HQN-10439] c 21 N72-21624
Pump for delivering heated fluids
[NASA-CASE-NPO-11417] c 15 N73-24513
Deployable pressurized cell structure for a micrometeoroid detector
[NASA-CASE-LAR-10295-1] c 35 N74-21062
Distributed-switch Dicke radiometers
[NASA-CASE-GSC-12219-1] c 35 N80-18359
Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297
Stirling cycle cryogenic cooler
[US-PATENT-4,389,849] c 44 N83-28574
Vibration isolation and pressure compensation apparatus for sensitive instrumentation
[NASA-CASE-LAR-12728-1] c 35 N83-32026
Optical system
[NASA-CASE-NPO-15801-1] c 74 N85-23396
Fully redundant mechanical release actuator
[NASA-CASE-LAR-13198-1] c 37 N85-29287

SPACECRAFT LANDING
Non-reusable kinetic energy absorber Patent
[NASA-CASE-XLE-00810] c 15 N70-34861
Foam generator Patent
[NASA-CASE-XLA-00838] c 03 N70-36778
Discrete local altitude sensing device Patent
[NASA-CASE-XMS-03792] c 14 N70-41812

SPACECRAFT LAUNCHING
Passive caging mechanism Patent
[NASA-CASE-GSC-10306-1] c 15 N71-24694
Disconnect unit
[NASA-CASE-NPO-11330] c 33 N73-26958

SPACECRAFT MODELS
Apparatus for measuring electric field strength on the surface of a model vehicle Patent
[NASA-CASE-XLE-02038] c 09 N71-16086

SPACECRAFT MODULES
Radial module space station Patent
[NASA-CASE-XMS-01906] c 31 N70-41373
Multi-mission module Patent
[NASA-CASE-XMF-01543] c 31 N71-17730
Spacecraft Patent
[NASA-CASE-MSC-13047-1] c 31 N71-25434
Thermal control system for a spacecraft modular housing
[NASA-CASE-GSC-11018-1] c 31 N73-30829
Telescoping Space Station modules
[NASA-CASE-LAR-13330-1] c 18 N86-20470

SPACECRAFT MOTION
Magnetic suspension and pointing system --- on a carrier vehicle
[NASA-CASE-LAR-11889-1] c 35 N79-26372

SPACECRAFT POSITION INDICATORS
Device for determining relative angular position between a spacecraft and a radiation emitting celestial body
[NASA-CASE-GSC-11444-1] c 14 N73-28490
Spacecraft attitude sensor
[NASA-CASE-GSC-10890-1] c 21 N73-30640

SPACECRAFT POWER SUPPLIES
Spacecraft battery seals
[NASA-CASE-XGS-03864] c 15 N69-24320
Space vehicle electrical system Patent
[NASA-CASE-XMF-00517] c 03 N70-34157
Ionospheric battery Patent
[NASA-CASE-XGS-01593] c 03 N70-35408
Generator for a space power system Patent
[NASA-CASE-XLE-04250] c 09 N71-20446
Monostable multivibrator
[NASA-CASE-GSC-10082-1] c 10 N72-20221
Stacked solar cell arrays
[NASA-CASE-NPO-11771] c 03 N73-20040
Thermoelectric power system --- for spacecraft
[NASA-CASE-MFS-22002-1] c 44 N76-16612
Solar energy power system
[NASA-CASE-MFS-21628-2] c 44 N76-23675
Module failure isolation circuit for paralleled inverters --- preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254
Linear magnetic motor/generator --- to generate electric energy using magnetic flux for spacecraft power supply
[NASA-CASE-GSC-12518-1] c 33 N82-24421
Solar driven liquid metal MHD power generator
[NASA-CASE-LAR-12495-1] c 44 N83-28573
Bi-directional control system for energy flow in a solar powered flywheel
[NASA-CASE-MFS-25978-1] c 44 N84-32913
Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669

SPACECRAFT PROPULSION
Colloid propulsion method and apparatus Patent
[NASA-CASE-XLE-00817] c 28 N70-33265
Trajectory-correction propulsion system Patent
[NASA-CASE-XNP-01104] c 28 N70-39931
Ion engine casing construction and method of making same Patent
[NASA-CASE-XNP-06942] c 28 N71-23293
Voice operated controller Patent
[NASA-CASE-XLA-04063] c 31 N71-33160
Solid propellant motor
[NASA-CASE-NPO-11458A] c 20 N78-32179
General purpose rocket furnace
[NASA-CASE-MFS-23460-1] c 12 N79-26075
Speed control device for a heavy duty shaft --- solar sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364

SPACECRAFT RADIATORS
Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523
Thermal control system --- removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14461
Radiative cooler --- spacecraft radiators
[NASA-CASE-NPO-15465-1] c 34 N84-22903
Multi-leg heat pipe evaporator
[NASA-CASE-MSC-20812-1] c 34 N84-32748

SPACECRAFT RECOVERY
Assembly for recovering a capsule Patent
[NASA-CASE-XMF-00641] c 31 N70-36410
Wing deployment method and apparatus Patent
[NASA-CASE-XMS-00907] c 02 N70-41630
Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303
Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 15 N85-11122
Apparatus and method of capturing an orbiting satellite
[NASA-CASE-MSC-20979-1] c 37 N86-19614

SPACECRAFT REENTRY
Space capsule Patent
[NASA-CASE-XLA-00149] c 31 N70-37938
Event recorder Patent
[NASA-CASE-XLA-01832] c 14 N71-21006

SPACECRAFT SHIELDING
Aerodynamic protection for space flight vehicles Patent
[NASA-CASE-XNP-02507] c 31 N71-17679
Isothermal cover with thermal reservoirs Patent
[NASA-CASE-MFS-20355] c 33 N71-25353
Stabilized zinc oxide coating compositions Patent
[NASA-CASE-XMF-07770-2] c 18 N71-26772
Electrically conductive thermal control coatings
[NASA-CASE-GSC-12207-1] c 24 N79-14156
Thermal insulation protection means
[NASA-CASE-MSC-12737-1] c 24 N79-25142
Thermal barrier pressure seal --- shielding junctions between spacecraft control surfaces and structures
[NASA-CASE-MSC-18134-1] c 37 N81-15363
High temperature glass thermal control structure and coating --- for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448
Variable anodic thermal control coating
[NASA-CASE-LAR-12719-1] c 44 N83-34449
Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] c 27 N84-27886
Mechanical fastener
[NASA-CASE-LAR-12738-2] c 37 N85-30335

SPACECRAFT STABILITY
Reaction wheel scanner Patent
[NASA-CASE-XGS-02629] c 14 N71-21082
Attitude sensor
[NASA-CASE-LAR-10586-1] c 19 N74-15089
Annular momentum control device used for stabilization of space vehicles and the like
[NASA-CASE-LAR-11051-1] c 15 N76-14158
Tetherline system for orbiting satellites
[NASA-CASE-MFS-23564-1] c 15 N78-25119
Active nutation controller
[NASA-CASE-GSC-12273-1] c 35 N80-21719
Method of damping nutation motion with minimum spin axis attitude disturbance
[NASA-CASE-GSC-12551-1] c 18 N83-28064

SPACECRAFT STRUCTURES
Collapsible loop antenna for space vehicle Patent
[NASA-CASE-XMF-00437] c 07 N70-40202
Electro-optical alignment control system Patent
[NASA-CASE-XMF-00908] c 14 N70-40238
Spacecraft radiator cover Patent
[NASA-CASE-MSC-12049] c 31 N71-16080
Satellite appendage tie down cord Patent
[NASA-CASE-XGS-02554] c 31 N71-21064
Thermal control panel Patent
[NASA-CASE-XLA-07728] c 33 N71-22890
Inflatable tether Patent
[NASA-CASE-XMS-10993] c 15 N71-28936
Delayed simultaneous release mechanism
[NASA-CASE-GSC-10814-1] c 03 N73-20039
Pressurized panel
[NASA-CASE-XLA-08916-2] c 14 N73-28487
Structural heat pipe --- for spacecraft wall thermal insulation system
[NASA-CASE-GSC-11619-1] c 34 N75-12222
Auger attachment method for insulation --- of spacecraft
[NASA-CASE-MSC-12615-1] c 37 N76-19437
Particulate and solar radiation stable coating for spacecraft
[NASA-CASE-LAR-10805-2] c 34 N77-18382
Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718
Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450
Elastomer toughened polyimide adhesives --- bonding metal and composite material structures for aircraft and spacecraft
[NASA-CASE-LAR-12775-2] c 27 N85-21349

SPACECRAFT TELEVISION
Electrically-operated rotary shutter Patent
[NASA-CASE-XNP-00637] c 14 N70-40273
Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300
Optical conversion method --- for spacecraft television
[NASA-CASE-MSC-12618-1] c 74 N78-17865

SPACECRAFT TRACKING
Ranging system Patent
[NASA-CASE-NPO-10066] c 09 N71-18598
Deep space monitor communication satellite system Patent
[NASA-CASE-XAC-06029-1] c 31 N71-24813
Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627
Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c 19 N74-21015
Conical scan tracking system employing a large antenna
[NASA-CASE-NPO-14009-1] c 32 N79-13214

SPACECREWS
Orbital escape device Patent
[NASA-CASE-XMS-06162] c 31 N71-28851

SPACELAB PAYLOADS
Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991

SPALLATION
Method of producing I-123 --- by bombardment of cesium causing spallation
[NASA-CASE-LEW-11390-2] c 25 N76-27383

SPARK CHAMBERS
Laser measuring system for incremental assemblies --- measuring wire-wrapped frame assemblies in spark chambers
[NASA-CASE-GSC-12321-1] c 36 N82-16396
Inorganic spark chamber frame and method of making the same
[NASA-CASE-GSC-12354-1] c 35 N82-24471

SPARK GAPS
Protective circuit of the spark gap type
[NASA-CASE-XAC-08981] c 09 N69-39897
Measurement of time differences between luminous events Patent
[NASA-CASE-XLA-01987] c 23 N71-23976

SPARK IGNITION
High temperature spark plug Patent
[NASA-CASE-XLE-00660] c 28 N70-39925
Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13828-1] c 37 N79-11405

SPARK PLUGS
High temperature spark plug Patent
[NASA-CASE-XLE-00660] c 28 N70-39925

SPATIAL DISTRIBUTION
Propellent mass distribution metering apparatus Patent
[NASA-CASE-NPO-10185] c 10 N71-26339

SPATIAL FILTERING
Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c 36 N77-32478

SPATIAL RESOLUTION
Wide-angle flat field telescope
[NASA-CASE-GSC-12825-1] c 74 N85-20868

SPECTRAL BANDS
Multispectral linear array multiband selection device
[NASA-CASE-GSC-12911-1] c 35 N84-25016
SPECTRAL CORRELATION
Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] c 35 N84-34705
SPECTRAL REFLECTANCE
Single reflector interference spectrometer and drive system therefor
[NASA-CASE-NPO-11932-1] c 35 N74-23040
SPECTRAL SENSITIVITY
Method and apparatus for enhancing laser absorption sensitivity
[NASA-CASE-NPO-16567-1-CU] c 36 N86-20777
SPECTRAL SIGNATURES
Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288
SPECTROMETERS
Photoelectric energy spectrometer Patent
[NASA-CASE-XNP-04161] c 14 N71-15599
Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266
Maksutov spectrograph Patent
[NASA-CASE-XLA-10402] c 14 N71-29041
Dual purpose optical instrument capable of simultaneously acting as spectrometer and diffractometer
[NASA-CASE-XNP-05231] c 14 N73-28491
Compton scatter attenuation gamma ray spectrometer
[NASA-CASE-MFS-21441-1] c 14 N73-30392
Mossbauer spectrometer radiation detector
[NASA-CASE-LAR-11155-1] c 35 N74-15091
Single reflector interference spectrometer and drive system therefor
[NASA-CASE-NPO-11932-1] c 35 N74-23040
Spectrometer integrated with a facsimile camera
[NASA-CASE-LAR-11207-1] c 35 N75-19613
Resonant waveguide stark cell --- using microwave spectrometers
[NASA-CASE-LAR-11352-1] c 33 N75-26245
Ion and electron detector for use in an ICR spectrometer
[NASA-CASE-NPO-13479-1] c 35 N77-10492
Frequency-scanning particle size spectrometer
[NASA-CASE-NPO-13606-2] c 35 N80-18364
Velocity servo for continuous scan Fourier interference spectrometer
[NASA-CASE-NPO-14093-1] c 35 N80-20563
Visible and infrared polarization ratio spectroreflectometer
[NASA-CASE-LAR-12285-1] c 35 N80-28687
Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] c 35 N84-33766
Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] c 35 N84-34705
Method of fabricating an imaging X-ray spectrometer
[NASA-CASE-GSC-12956-1] c 35 N86-20754
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Apparatus for producing three-dimensional recordings of flourescence spectra Patent
[NASA-CASE-XGS-01231] c 14 N70-41676
High resolution Fourier interferometer-spectrophotopolarimeter
[NASA-CASE-NPO-13604-1] c 35 N76-31490
Differential optoacoustic absorption detector
[NASA-CASE-NPO-13759-1] c 74 N78-17867
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Compact spectroradiometer
[NASA-CASE-HQN-10683] c 14 N71-34389
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Spectroscope equipment using a slender cylindrical reflector as a substitute for a slit Patent
[NASA-CASE-XGS-08269] c 23 N71-26206
SPECTRUM ANALYSIS
Photoelectric energy spectrometer Patent
[NASA-CASE-XNP-04161] c 14 N71-15599
Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871
Method and apparatus for high resolution spectral analysis
[NASA-CASE-NPO-10748] c 08 N72-20177
Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015
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Real time reflectometer --- measurement of specular reflectance
[NASA-CASE-MFS-23118-1] c 35 N77-31465
SPEECH BASEBAND COMPRESSION
Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MSC-20821-1] c 17 N86-20466
SPEECH RECOGNITION
Speech analyzer
[NASA-CASE-GSC-11898-1] c 32 N77-30309
SPEED CONTROL
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[NASA-CASE-XMF-06892] c 09 N71-24805
Optimal control system for an electric motor driven vehicle
[NASA-CASE-NPO-11210] c 11 N72-20244
Two speed drive system --- mechanical device for changing speed on rotating vehicle wheel
[NASA-CASE-MFS-20645-1] c 37 N74-23070
Low speed phaselock speed control system --- for brushless dc motor
[NASA-CASE-GSC-11127-1] c 09 N75-24758
Speed control device for a heavy duty shaft --- solar sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364
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Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295
SPEED REGULATORS
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[NASA-CASE-MFS-14610] c 09 N71-28886
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Guidance and maneuver analyzer Patent
[NASA-CASE-XNP-09572] c 14 N71-15621
Radar calibration sphere
[NASA-CASE-XLA-11154] c 07 N72-21117
Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442
Sphere forming method and apparatus
[NASA-CASE-NPO-15070-1] c 31 N83-35176
Optical multiple sample vacuum integrating sphere
[NASA-CASE-GSC-12849-1] c 74 N84-15960
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[NASA-CASE-NPO-15592-1] c 71 N84-16940
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[NASA-CASE-XLE-03778] c 09 N69-21542
Spherical measurement device
[NASA-CASE-XLA-06683] c 14 N72-28436
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Spherical tank gauge Patent
[NASA-CASE-XMS-06236] c 14 N71-21007
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Shock wave convergence apparatus
[NASA-CASE-MFS-20890] c 14 N72-22439
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[NASA-CASE-MSC-14836-1] c 52 N82-11770
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Aerodynamic spike nozzle Patent
[NASA-CASE-XGS-01143] c 31 N71-15647
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[NASA-CASE-NPO-14505-1] c 33 N81-19393
SPILLING
A spillage detector for liquid chromatography systems
[NASA-CASE-MSC-20206-1] c 25 N83-29325
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Nutation damper
[NASA-CASE-GSC-11205-1] c 15 N73-25513
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[NASA-CASE-NPO-13993-1] c 72 N79-13826
Dual towline spin-recovery device
[NASA-CASE-LAR-13076-1] c 08 N85-35200
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Optical spin compensator
[NASA-CASE-XGS-02401] c 14 N69-27485
Despin weight release Patent
[NASA-CASE-XLA-00679] c 15 N70-38601
Stretch de-spin mechanism Patent
[NASA-CASE-XGS-00619] c 30 N70-40016
Spacecraft separation system for spinning vehicles and/or payloads Patent
[NASA-CASE-XLA-02132] c 31 N71-10582
Method and means for damping nutation in a satellite Patent
[NASA-CASE-XMF-00442] c 31 N71-10747
Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 15 N85-11122
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Dynamic precession damper for spin stabilized vehicles Patent
[NASA-CASE-XLA-01989] c 21 N70-34295
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[NASA-CASE-XLA-00281] c 21 N70-36943
Spacecraft attitude detection system by stellar reference Patent
[NASA-CASE-XGS-03431] c 21 N71-15642
Cartwheel satellite synchronization system Patent
[NASA-CASE-XGS-05579] c 31 N71-15676
Velocity package Patent
[NASA-CASE-XLA-01339] c 31 N71-15692
Passive dual spin misalignment compensators --- gyrostabilized device
[NASA-CASE-GSC-11479-1] c 35 N74-28097
Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421
Active nutation controller
[NASA-CASE-GSC-12273-1] c 35 N80-21719
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[NASA-CASE-LAR-11970-2] c 08 N81-19130
Scanner --- photography from a spin stabilized synchronous satellite
[NASA-CASE-GSC-12032-2] c 43 N82-13465
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[NASA-CASE-MSC-16270-1] c 37 N78-27423
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Spine immobilization apparatus
[NASA-CASE-ARC-11167-1] c 52 N81-25662
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Head for high speed spinner having a vacuum chuck --- holding silicon dioxide chips for etching
[NASA-CASE-NPO-15227-1] c 37 N81-33482
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[NASA-CASE-MSC-18532-1] c 32 N82-27558
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Adjustable tension wire guide Patent
[NASA-CASE-XMS-02383] c 15 N71-15918
Continuous self-locking spiral wound seal --- for maintaining pressure between chambers in cryogenic wind tunnels
[NASA-CASE-LAR-12315-1] c 37 N82-24490
Modified spiral wound retaining ring
[NASA-CASE-LAR-12361-1] c 37 N83-19091
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Spiral groove seal --- for hydraulic rotating shaft
[NASA-CASE-LEW-10326-3] c 37 N74-10474
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[NASA-CASE-XAR-01547] c 05 N69-21473
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Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N84-20859
Low loss splicing method for single-mode optical fiber
[NASA-CASE-NPO-16294-1] c 74 N84-33179
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Stretcher Patent
[NASA-CASE-XMF-06589] c 05 N71-23159
SPOILERS
Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205
SPORES
Lyophilized spore dispenser
[NASA-CASE-LAR-10544-1] c 37 N74-13178
SPOT WELDS
Electric arc welding Patent
[NASA-CASE-XMF-00392] c 15 N70-34814
Automatic closed circuit television arc guidance control Patent
[NASA-CASE-MFS-13046] c 07 N71-19433
SPRAY CHARACTERISTICS
Constant-output atomizer --- Inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406
SPRAY NOZZLES
Rocket injector head
[NASA-CASE-XMF-04592-1] c 20 N79-21125
Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137
Controlled overspray spray nozzle
[NASA-CASE-MFS-25139-1] c 34 N82-13376
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[NASA-CASE-XLE-01604-2] c 15 N71-15610
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[NASA-CASE-XLA-04251] c 18 N71-26100

Peen plating
[NASA-CASE-GSC-11163-1] c 15 N73-32360
Sprayable low density ablator and application process
[NASA-CASE-MFS-23506-1] c 24 N78-24290
Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492
High temperature emittance coatings and coating compositions --- repairing damaged space shuttle tiles in space
[NASA-CASE-MSC-18851-1] c 27 N82-26460
Thermal barrier coating system having improved adhesion
[NASA-CASE-LEW-1335901] c 27 N83-31855
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N84-20670
Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283

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External liquid-spray cooling of turbine blades Patent
[NASA-CASE-XLE-00037] c 28 N70-33372
Method and apparatus for attaching physiological monitoring electrodes Patent
[NASA-CASE-XFR-07658-1] c 05 N71-26293
Liquid spray cooling method Patent
[NASA-CASE-XLE-00027] c 33 N71-29152
Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237
Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492
Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N84-32398
Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283

SPRAYING
Aircraft wheel spray drag alleviator Patent
[NASA-CASE-XLA-01583] c 02 N70-36825
Closed loop spray cooling apparatus
[NASA-CASE-LEW-11981-2] c 34 N79-20336
Method and apparatus for suppressing ignition overpressure in solid rocket propulsion systems
[NASA-CASE-MFS-25843-1] c 20 N83-17588

SPREAD SPECTRUM TRANSMISSION
Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546

SPREADING
Tool attachment for spreading loose elements away from work Patent
[NASA-CASE-XMF-02107] c 15 N71-10809

SPRINGS (ELASTIC)
Belleville spring assembly with elastic guides
[NASA-CASE-XNP-09452] c 15 N69-27504
Multiple Belleville spring assembly Patent
[NASA-CASE-XNP-00840] c 15 N70-38225
Switching mechanism with energy storage means Patent
[NASA-CASE-XGS-00473] c 03 N70-38713
Load cell protection device Patent
[NASA-CASE-XMS-06782] c 32 N71-15974
Vibration isolation system using compression springs
[NASA-CASE-NPO-11012] c 15 N72-11391
Spring operated accelerator and constant force spring mechanism therefor
[NASA-CASE-ARC-10898-1] c 35 N77-18417
Natural turbulence electrical power generator --- using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834
Rotary stepping device with memory metal actuator
[NASA-CASE-NPO-15482-1] c 37 N83-36484
Resilient seal ring assembly with spring means applying force to wedge member --- cryogenic applications
[NASA-CASE-MFS-25678-1] c 37 N84-11497
Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] c 37 N84-12492
Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797

SPUTTERING
A method for the deposition of beta-silicon carbide by isoepitaxy
[NASA-CASE-ERC-10120] c 26 N69-33482
Method of forming transparent films of ZnO
[NASA-CASE-FRC-10019] c 15 N73-12487
Method and apparatus for sputtering utilizing an apertured electrode and a pulsed substrate bias
[NASA-CASE-LEW-10920-1] c 17 N73-24569
Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c 20 N74-31269
Multitarget sequential sputtering apparatus
[NASA-CASE-NPO-13345-1] c 37 N75-19684
Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
Refractory coatings and method of producing the same
[NASA-CASE-LEW-13169-1] c 26 N82-29415
Ion sputter textured graphite --- anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117
Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170
Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565
Textured carbon surfaces on copper
[NASA-CASE-LEW-14130-1] c 31 N85-20156
Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826
Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-1] c 27 N86-19458
Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N86-20587

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High speed phase detector Patent
[NASA-CASE-XNP-01306-2] c 09 N71-24596

SQUARES (MATHEMATICS)
Apparatus for computing square roots Patent
[NASA-CASE-XGS-04768] c 08 N71-19437

SQUEEZE FILMS
Dual clearance squeeze film damper
[NASA-CASE-LEW-13506-1] c 37 N85-33490

SQUIBS
Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922

STABILITY AUGMENTATION
Velocity vector control system augmented with direct lift control
[NASA-CASE-LAR-12268-1] c 08 N81-24106
Leading edge flap system for aircraft control augmentation
[NASA-CASE-LAR-12787-2] c 08 N85-19985

STABILITY TESTS
Method and apparatus for checking the stability of a setup for making reflection type holograms
[NASA-CASE-MFS-21455-1] c 35 N74-15146

STABILIZATION
Ultrastable calibrated light source
[NASA-CASE-MSC-12293-1] c 14 N72-27411
System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008
Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential
[NASA-CASE-GSC-11425-2] c 76 N75-25730
Arc control in compact arc lamps
[NASA-CASE-NPO-10870-1] c 33 N77-22386
Self-stabilizing radial face seal
[NASA-CASE-LEW-12991-1] c 37 N81-24442
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333

STABILIZED PLATFORMS
Hydraulic drive mechanism Patent
[NASA-CASE-XMS-03252] c 15 N71-10658
Failure detection and control means for improved drift performance of a gimballed platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175
Rotary leveling base platform
[NASA-CASE-ARC-10981-1] c 37 N78-27425
Magnetic bearing and motor
[NASA-CASE-GSC-12726-1] c 37 N83-34323

STABILIZERS
Satellite despin device Patent
[NASA-CASE-XMF-08523] c 31 N71-20396

STABILIZERS (AGENTS)
Hydrazinium nitroformate propellant stabilized with nitroguanidine
[NASA-CASE-NPO-12000] c 27 N72-25699

STABILIZERS (FLUID DYNAMICS)
Assembly for recovering a capsule Patent
[NASA-CASE-XMF-00641] c 31 N70-36410
Mechanical stability augmentation system Patent
[NASA-CASE-XLA-06339] c 02 N71-13422
Apparatus for automatically stabilizing the attitude of a nonguided vehicle
[NASA-CASE-ARC-10134] c 30 N72-17873
Life raft stabilizer
[NASA-CASE-MSC-12393-1] c 02 N73-26006
Externally supported internally stabilized flexible duct joint
[NASA-CASE-MFS-19194-1] c 37 N76-14460
Fluidic momentum controller
[NASA-CASE-MSC-20906-1] c 18 N86-19344

STABLE OSCILLATIONS
Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39986

STACKS
Remote fire stack igniter --- with solenoid-controlled valve
[NASA-CASE-MFS-21675-1] c 25 N74-33378

STAGE SEPARATION
Tubular coupling having frangible connecting means
[NASA-CASE-XLA-02854] c 15 N69-27490
Missile stage separation indicator and stage initiator Patent
[NASA-CASE-XLA-00791] c 03 N70-39930
Quick release separation mechanism Patent
[NASA-CASE-XLA-01441] c 15 N70-41679
Spacecraft separation system for spinning vehicles and/or payloads Patent
[NASA-CASE-XLA-02132] c 31 N71-10582
Payload/burned-out motor case separation system Patent
[NASA-CASE-XLA-05369] c 31 N71-15687
Single action separation mechanism Patent
[NASA-CASE-XLA-00188] c 15 N71-22874
Lateral displacement system for separated rocket stages Patent
[NASA-CASE-XLA-04804] c 31 N71-23008
Separation simulator Patent
[NASA-CASE-XKS-04631] c 10 N71-23663
Frangible link
[NASA-CASE-MSC-11849-1] c 15 N72-22488
Tanker orbit transfer vehicle and method
[NASA-CASE-MSC-20543-1] c 18 N84-22610

STAGNATION PRESSURE
Traversing probe Patent
[NASA-CASE-XFR-02007] c 12 N71-24692
Stagnation pressure probe --- for measuring pressure of supersonic gas streams
[NASA-CASE-LAR-11139-1] c 35 N74-32878

STAGNATION TEMPERATURE
Enthalpy and stagnation temperature determination of a high temperature laminar flow gas stream Patent
[NASA-CASE-XLE-00266] c 14 N70-34156

STAINING
Automated single-slide staining device
[NASA-CASE-LAR-11649-1] c 51 N77-27677

STAINLESS STEELS
Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443
Ultrasonic scanning system for in-place inspection of brazed tube joints
[NASA-CASE-MFS-20767-1] c 38 N74-15130
Method of forming a wick for a heat pipe
[NASA-CASE-NPO-13391-1] c 34 N76-27515
Method of making reinforced composite structure
[NASA-CASE-LEW-12619-1] c 24 N77-19171
Method of forming dynamic membrane on stainless steel support
[NASA-CASE-MSC-18172-1] c 26 N80-19237
Moving body velocity arresting line --- stainless steel cables with energy absorbing sleeves
[NASA-CASE-LAR-12372-1] c 37 N82-18601

STAMPING
Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491
Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276

STANDARDS
Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348
Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276

STANDING WAVES
Method and apparatus for shaping and enhancing acoustical levitation forces
[NASA-CASE-MFS-25050-1] c 71 N81-15767
Image readout device with electronically variable spatial resolution
[NASA-CASE-LAR-12633-1] c 33 N82-24416
Acoustic levitation methods and apparatus
[NASA-CASE-NPO-15562-1] c 71 N82-27086
System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516
Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752

STAR TRACKERS
Roll attitude star sensor system Patent
[NASA-CASE-XNP-01307] c 21 N70-41856

Sun tracker with rotatable plane-parallel plate and two photocells Patent
[NASA-CASE-XGS-01159] c 21 N71-10678
Canopus detector including automotive gain control of photomultiplier tube Patent
[NASA-CASE-XNP-03914] c 21 N71-10771
Spacecraft attitude detection system by stellar reference Patent
[NASA-CASE-XGS-03431] c 21 N71-15642
Reference voltage switching unit
[NASA-CASE-NPO-11253] c 09 N72-17157
Star tracking reticles and process for the production thereof
[NASA-CASE-GSC-11188-2] c 21 N73-19630
Star tracking reticles
[NASA-CASE-GSC-11188-1] c 14 N73-32320
Formation of star tracking reticles
[NASA-CASE-GSC-11188-3] c 74 N74-20008
Star scanner --- with a reticle with a pair of slits having differing separation
[NASA-CASE-GSC-11569-1] c 89 N74-30886
Programmable scan/read circuitry for charge coupled device imaging detectors --- spcecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247

STARK EFFECT
Resonant waveguide stark cell --- using microwave spectrometers
[NASA-CASE-LAR-11352-1] c 33 N75-26245
Stark-effect modulation of CO2 laser with NH2D
[NASA-CASE-NPO-11945-1] c 36 N76-18427
Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015
Stark effect spectrophone for continuous absorption spectra monitoring --- a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159

STARTERS
Starting circuit for vapor lamps and the like Patent
[NASA-CASE-XNP-01058] c 09 N71-12540
Motor run-up system --- power lines
[NASA-CASE-NPO-13374-1] c 33 N75-19524
Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360

STARTING
Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599

STATIC DEFORMATION
Acoustic radiation stress measurement
[NASA-CASE-LAR-13440-1] c 71 N86-22307

STATIC DISCHARGERS
Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401

STATIC FRICTION
Friction measuring apparatus Patent
[NASA-CASE-XNP-08680] c 14 N71-22995
Static coefficient test method and apparatus
[NASA-CASE-GSC-11893-1] c 35 N76-31489

STATIC INVERTERS
Static inverters which sum a plurality of waves Patent
[NASA-CASE-XMF-00663] c 08 N71-18752
Static inverter Patent
[NASA-CASE-XGS-05289] c 09 N71-19470

STATIC LOADS
Instrument for measuring torsional creep and recovery Patent
[NASA-CASE-XLE-01481] c 14 N71-10781
Tension measurement device Patent
[NASA-CASE-XMS-04545] c 15 N71-22878

STATIC PRESSURE
Aerodynamic measuring device Patent
[NASA-CASE-XLA-00481] c 14 N70-36824
Check valve assembly for a probe Patent
[NASA-CASE-XLA-00128] c 15 N70-37925
Static pressure probe
[NASA-CASE-LAR-11552-1] c 35 N76-14429
Static pressure orifice system testing method and apparatus
[NASA-CASE-LAR-12269-1] c 35 N80-18358
Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873

STATIONKEEPING
Station keeping of a gravity gradient stabilized satellite Patent
[NASA-CASE-XLA-03132] c 31 N71-22969

STATISTICAL CORRELATION
Optical probing of supersonic flows with statistical correlation
[NASA-CASE-MFS-20642] c 14 N72-21407

STATOR BLADES
Stator rotor tools
[NASA-CASE-MSC-16000-1] c 37 N78-24544

STATORS
Nickel base alloy --- for gas turbine engine stator vanes
[NASA-CASE-LEW-12270-1] c 26 N77-32280
Natural turbulence electrical power generator --- using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834
Brushless DC motor control system responsive to control-signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681
Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788
Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N86-20804

STEADY STATE
Steady state thermal radiometers
[NASA-CASE-MFS-21108-1] c 34 N74-27861

STEAM
Steam cooled rich-burn combustor liner
[NASA-CASE-LEW-13609-1] c 25 N83-17628

STEAM TURBINES
Boiler for generating high quality vapor Patent
[NASA-CASE-XLE-00785] c 33 N71-16104

STEELS
Potassium silicate zinc coatings
[NASA-CASE-GSC-10361-1] c 18 N72-23581

STEERABLE ANTENNAS
Array phasing device Patent
[NASA-CASE-ERC-10046] c 10 N71-18722
Satellite communication system Patent
[NASA-CASE-XNP-02389] c 07 N71-28900
Amplitude steered array
[NASA-CASE-GSC-11446-1] c 33 N74-20860
Phased array antenna control
[NASA-CASE-MSC-14939-1] c 32 N79-11264

STEERING
Steerable solid propellant rocket motor Patent
[NASA-CASE-XNP-00234] c 28 N70-38645

STELLAR LUMINOSITY
Radiant energy intensity measurement system Patent
[NASA-CASE-XNP-06510] c 14 N71-23797

STELLAR SPECTRA
Radiant energy intensity measurement system Patent
[NASA-CASE-XNP-06510] c 14 N71-23797

STENCIL PROCESSES
Method of tracing contour patterns for use in making gradual contour resin matrix composites
[NASA-CASE-ARC-11246-1] c 31 N83-34073

STEPPING MOTORS
Scanner --- photography from a spin stabilized synchronous satellite
[NASA-CASE-GSC-12032-2] c 43 N82-13465

STEREOPHOTOGRAPHY
Stereo photomicrography system
[NASA-CASE-LAR-10176-1] c 14 N72-20380
Optical stereo video signal processor
[NASA-CASE-MFS-25752-1] c 74 N86-21348

STEREOSCOPIC VISION
Stereoscopic television system and apparatus
[NASA-CASE-ARC-10160-1] c 23 N72-27728

STEREOSCOPY
Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] c 74 N84-11920

STERILIZATION
Process for preparing sterile solid propellants Patent
[NASA-CASE-XNP-01749] c 27 N70-41897
Processing for producing a sterilized instrument Patent
[NASA-CASE-XNP-09763] c 14 N71-20461
Air conditioned suit
[NASA-CASE-LAR-10076-1] c 05 N73-20137
Protein sterilization method of firefly luciferase using reduced pressure and molecular sieves
[NASA-CASE-GSC-10225-1] c 06 N73-27086
Heat sterilizable patient ventilator
[NASA-CASE-NPO-13313-1] c 54 N75-27761
Portable heatable container
[NASA-CASE-NPO-14237-1] c 44 N80-20808
System for sterilizing objects --- cleaning space vehicle systems
[NASA-CASE-KSC-11085-1] c 54 N81-24724

STERILIZATION EFFECTS
Electrical connector
[NASA-CASE-NPO-10694] c 09 N72-20200

STIFFENING
Metal matrix composite structural panel construction
[NASA-CASE-LAR-12807-1] c 24 N84-11214

STIFFNESS
Modified face seal for positive film stiffness
[NASA-CASE-LEW-12989-1] c 37 N82-12442

STIMULATED EMISSION
Repetitively pulsed, wavelength selective laser Patent
[NASA-CASE-ERC-10178] c 16 N71-24832

STIRLING CYCLE
Stirling cycle engine and refrigeration systems
[NASA-CASE-NPO-13613-1] c 37 N76-29590
Power control for hot gas engines
[NASA-CASE-NPO-14220-1] c 37 N81-14318
Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432
Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518
Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370
Stirling cycle cryogenic cooler --- magnetically suspended pistons
[NASA-CASE-GSC-12697-1] c 31 N82-11312
Stirling cycle cryogenic cooler
[US-PATENT-4,389,849] c 44 N83-28574
Magentically actuated compressor
[NASA-CASE-GSC-12799-1] c 31 N85-21404

STIRRING
Stirring apparatus for plural test tubes Patent
[NASA-CASE-XAC-06956] c 15 N71-21177

STOICHIOMETRY
Sulfone-ester polymers containing pendent ethynyl groups
[NASA-CASE-LAR-13316-1] c 27 N84-28987

STORAGE
Fluid sample collector Patent
[NASA-CASE-XMS-06767-1] c 14 N71-20435
Sodium storage and injection system
[NASA-CASE-NPO-14384-1] c 37 N80-10494

STORAGE BATTERIES
Bonded elastomeric seal for electrochemical cells Patent
[NASA-CASE-XGS-02631] c 03 N71-23006
Automatic battery charger Patent
[NASA-CASE-XNP-04758] c 03 N71-24605
Electric battery and method for operating same Patent
[NASA-CASE-XGS-01674] c 03 N71-29129
Electric storage battery
[NASA-CASE-NPO-11021] c 03 N72-20032
Hydrogen-bromine secondary battery
[NASA-CASE-NPO-13237-1] c 44 N76-18641
Rechargeable battery which combats shape change of the zinc anode
[NASA-CASE-HQN-10862-1] c 44 N76-29699
Electrically rechargeable REDOX flow cell
[NASA-CASE-LEW-12220-1] c 44 N77-14581
Formulated plastic separators for soluble electrode cells --- rubber-ion transport membranes
[NASA-CASE-LEW-12358-1] c 44 N79-17313
Toroidal cell and battery --- storage battery for high amp-hour load applications
[NASA-CASE-LEW-12918-1] c 44 N81-24521

STORAGE STABILITY
Thermally activated foaming compositions Patent
[NASA-CASE-LAR-10373-1] c 18 N71-26155
Gas diffusion liquid storage bag and method of use for storing blood
[NASA-CASE-NPO-13930-1] c 52 N79-14749
Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432

STORAGE TANKS
Expulsion bladder-equipped storage tank structure Patent
[NASA-CASE-XNP-00612] c 11 N70-38182
Method for leakage testing of tanks Patent
[NASA-CASE-XMF-02392] c 32 N71-24285
Zero gravity shadow shield aligner
[NASA-CASE-KSC-10622-1] c 31 N72-21893
Cryogenic container compound suspension strap
[NASA-CASE-ARC-11157-1] c 37 N80-18393

STOWAGE (ONBOARD EQUIPMENT)
Latching mechanism for deployable-restowable columns
[NASA-CASE-LAR-13169-1] c 37 N84-25063
Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991

STRAIN GAGE ACCELEROMETERS
Accelerometer with FM output Patent
[NASA-CASE-XLA-00492] c 14 N70-34799
Angular accelerometer Patent
[NASA-CASE-XMS-05936] c 14 N70-41682

STRAIN GAGE BALANCES
Self-balancing strain gage transducer Patent
[NASA-CASE-MFS-12827] c 14 N71-17656

STRAIN GAGES
Semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980] c 09 N69-27422
Wire grid forming apparatus Patent
[NASA-CASE-XLE-00023] c 15 N70-33330
Force measuring instrument Patent
[NASA-CASE-XMF-00456] c 14 N70-34705
Strain gage Patent Application
[NASA-CASE-FRC-10053] c 14 N70-35587
Difference circuit Patent
[NASA-CASE-XNP-08274] c 10 N71-13537

Strain sensor for high temperatures Patent
[NASA-CASE-XNP-09205] c 14 N71-17657
Extensometer Patent
[NASA-CASE-XMF-04680] c 15 N71-19489
Strain gauge measuring techniques Patent
[NASA-CASE-XGS-04478] c 14 N71-24233
Method of temperature compensating semiconductor strain gages Patent
[NASA-CASE-XLA-04555-1] c 14 N71-25892
Pulsed excitation voltage circuit for transducers
[NASA-CASE-FRC-10036] c 09 N72-22200
Method of making semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980-2] c 14 N72-28438
Device for monitoring a change in mass in varying gravimetric environments
[NASA-CASE-MFS-21556-1] c 35 N74-26945
Strain gauge ambiguity sensor for segmented mirror active optical system
[NASA-CASE-MFS-20506-1] c 35 N75-12273
Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329
Self-supporting strain transducer
[NASA-CASE-LAR-11263-1] c 35 N75-33369
Strain gage mounting assembly
[NASA-CASE-NPO-13170-1] c 35 N76-14430
High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c 35 N76-24523
Miniature biaxial strain transducer
[NASA-CASE-LAR-11648-1] c 35 N77-14407
CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c 39 N78-15512
Attaching of strain gages to substrates
[NASA-CASE-FRC-10093-1] c 35 N80-20560
Photomechanical transducer
[NASA-CASE-NPO-14363-1] c 39 N81-25400
Pulsed phase locked loop strain monitor --- voltage controlled oscillators
[NASA-CASE-LAR-12772-1] c 33 N83-16626
Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443
Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015
Strain gage calibration
[NASA-CASE-LAR-12743-1] c 35 N84-28019
Thin film strain transducer --- suitable for in-flight measurement of scientific balloon strain
[NASA-CASE-WLP-10055-2] c 35 N85-21598

STRAIN MEASUREMENT
Thin film strain transducer --- suitable for in-flight measurement of scientific balloon strain
[NASA-CASE-WLP-10055-2] c 35 N85-21598

STRAIN RATE
Light intensity strain analysis
[NASA-CASE-LAR-10765-1] c 32 N73-20740
Strain gage calibration
[NASA-CASE-LAR-12743-1] c 35 N84-28019

STRAKES
Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400

STRAPDOWN INERTIAL GUIDANCE
All sky pointing attitude control system
[NASA-CASE-ARC-10716-1] c 35 N77-20399

STRAPS
Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-MFS-22189-1] c 35 N75-19615
Cryogenic container compound suspension strap
[NASA-CASE-ARC-11157-1] c 37 N80-18393

STRATIGRAPHY
System for plotting subsoil structure and method therefor
[NASA-CASE-NPO-14191-1] c 31 N80-32584

STREAMS
Apparatus for measuring a sorbate dispersed in a fluid stream
[NASA-CASE-ARC-10896-1] c 35 N78-19465

STRESS ANALYSIS
Method and apparatus for measuring the damping characteristics of a structure
[NASA-CASE-ARC-10154-1] c 14 N72-22440
Light intensity strain analysis
[NASA-CASE-LAR-10765-1] c 32 N73-20740
High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c 35 N76-24523

STRESS CONCENTRATION
Self-supporting strain transducer
[NASA-CASE-LAR-11263-1] c 35 N75-33369

STRESS CORROSION
Method of inhibiting stress corrosion cracks in titanium alloys Patent
[NASA-CASE-NPO-10271] c 17 N71-16393
Controlled glass bead peening Patent
[NASA-CASE-XLA-07390] c 15 N71-18616

STRESS MEASUREMENT
Semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980] c 09 N69-27422
Force measuring instrument Patent
[NASA-CASE-XMF-00456] c 14 N70-34705
Self-balancing strain gage transducer Patent
[NASA-CASE-MFS-12827] c 14 N71-17656
Strain coupled servo control system Patent
[NASA-CASE-XLA-08530] c 32 N71-25360
Amplifying ribbon extensometer
[NASA-CASE-LAR-11825-1] c 35 N77-22449
CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c 39 N78-15512
Acoustic radiation stress measurement
[NASA-CASE-LAR-13440-1] c 71 N86-22307

STRESS RELAXATION
Method for alleviating thermal stress damage in laminates --- metal matrix composites
[NASA-CASE-LEW-12493-1] c 24 N81-17170

STRESS RELIEVING
All-directional fastener Patent
[NASA-CASE-XLA-01807] c 15 N71-10799
Steam cooled rich-burn combustor liner
[NASA-CASE-LEW-13609-1] c 25 N83-17628

STRESSES
Tape recorder Patent
[NASA-CASE-XGS-08259] c 14 N71-23698
Strain gauge measuring techniques Patent
[NASA-CASE-XGS-04478] c 14 N71-24233
Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c 27 N76-14264
Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081

STRETCHERS
Rescue litter flotation assembly Patent
[NASA-CASE-XMS-04170] c 05 N71-22748
Stretcher Patent
[NASA-CASE-XMF-06589] c 05 N71-23159

STRETCHING
Fastener stretcher
[NASA-CASE-GSC-11149-1] c 15 N73-30457

STRINGS
Omnidirectional joint Patent
[NASA-CASE-XMS-09635] c 05 N71-24623

STRIP TRANSMISSION LINES
Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348
Microwave switching power divider --- antenna feeds
[NASA-CASE-GSC-12420-1] c 33 N82-16340

STRUCTURAL ANALYSIS
Window defect planar mapping technique
[NASA-CASE-MSC-19442-1] c 74 N77-10899

STRUCTURAL DESIGN
Life raft Patent
[NASA-CASE-XMS-00863] c 05 N70-34857
High pressure regulator valve Patent
[NASA-CASE-XNP-00710] c 15 N71-10778
Lifting body Patent Application
[NASA-CASE-FRC-10063] c 01 N71-12217
Ring wing tension vehicle Patent
[NASA-CASE-XLA-04901] c 31 N71-24315
Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366
Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c 74 N77-28933
Horizontally mounted solar collector
[NASA-CASE-MFS-23349-1] c 44 N79-23481

STRUCTURAL DESIGN CRITERIA
Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N84-12092
Over the wing propeller
[NASA-CASE-LAR-13134-1] c 05 N85-19980
Compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] c 37 N86-19606

STRUCTURAL ENGINEERING
Beam connector apparatus and assembly
[NASA-CASE-MFS-25134-1] c 31 N83-31895

STRUCTURAL FAILURE
Method and apparatus for nondestructive testing of pressure vessels
[NASA-CASE-NPO-12142-1] c 38 N76-28563

STRUCTURAL MEMBERS
Broadband choke for antenna structure
[NASA-CASE-XMS-05303] c 07 N69-27462
Optical alignment system Patent
[NASA-CASE-XNP-02029] c 14 N70-41955
All-directional fastener Patent
[NASA-CASE-XLA-01807] c 15 N71-10799
Frictionless universal joint Patent
[NASA-CASE-NPO-10646] c 15 N71-28467
Fastener stretcher
[NASA-CASE-GSC-11149-1] c 15 N73-30457
Method of laminating structural members
[NASA-CASE-XLA-11028-1] c 24 N74-27035
Folding structure fabricated of rigid panels
[NASA-CASE-XHQ-02146] c 18 N75-27040
Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c 27 N76-14264
Mechanical end joint system for structural column elements
[NASA-CASE-LAR-12482-1] c 37 N82-32732
Daze fasteners
[NASA-CASE-LAR-13009-1] c 37 N85-29285

STRUCTURAL STABILITY
Latching device
[NASA-CASE-MFS-21606-1] c 37 N75-19685
Flanged major modular assembly jig
[NASA-CASE-MSC-19372-1] c 39 N76-31562
Deployable M-braced truss structure
[NASA-CASE-LAR-13081-1] c 37 N86-20799

STRUCTURAL VIBRATION
Electrical connector Patent Application
[NASA-CASE-MFS-14741] c 09 N70-20737
Seismic displacement transducer Patent
[NASA-CASE-XMF-00479] c 14 N70-34794
Vibrating structure displacement measuring instrument Patent
[NASA-CASE-XLA-03135] c 32 N71-16428
Active notch filter network with variable notch depth, width and frequency
[NASA-CASE-FRC-11055-1] c 33 N80-29583

STRUCTURES
Arbitrarily shaped model survey system Patent
[NASA-CASE-LAR-10098] c 32 N71-26681

STRUTS
Energy absorbing structure Patent Application
[NASA-CASE-MSC-12279-1] c 15 N70-35679
Collapsible structure for an antenna reflector
[NASA-CASE-NPO-11751] c 07 N73-24176
Locking redundant link
[NASA-CASE-LAR-11900-1] c 37 N79-14382
Multiple pure tone elimination strut assembly --- air breathing engines
[NASA-CASE-FRC-11062-1] c 71 N82-16800
Variable length strut with longitudinal compliance and locking capability
[NASA-CASE-MFS-25907-1] c 37 N85-34401

STUDS (STRUCTURAL MEMBERS)
Safety-type locking pin
[NASA-CASE-MFS-18495] c 15 N72-11385
Stud-bonding gun
[NASA-CASE-MFS-20299] c 15 N72-11392
Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c 37 N74-25968

STYRENES
Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-1] c 27 N78-32256
Compound oxidized styrylphosphine --- flame resistant vinyl polymers
[NASA-CASE-MSC-14903-2] c 27 N80-10358
Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-3] c 27 N80-24438
Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043

SUBASSEMBLIES
Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489

SUBCRITICAL FLOW
Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800

SUBLIMATION
Tubular sublimatory evaporator heat sink
[NASA-CASE-ARC-10912-1] c 34 N77-19353
Polymeric compositions and their method of manufacture --- forming filled polymer systems using cryogenics
[NASA-CASE-NPO-10424-1] c 27 N81-24258

SUBMARINES
Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184

SUBMERGING
Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441
Liquid-immersible electrostatic ultrasonic transducer
[NASA-CASE-LAR-12465-1] c 33 N82-26572

SUBMILLIMETER WAVES
Submillimeter wave Schottky barrier diode with low series resistance and low noise
[NASA-CASE-NPO-15935-1] c 33 N83-12334
Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] c 33 N84-16452

Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N85-30779

SUBMINIATURIZATION
Micro current measuring device using plural logarithmic response heated filamentary type diodes Patent
[NASA-CASE-XNP-00384] c 09 N71-13530

SUBREFLECTORS
Dish antenna having switchable beamwidth --- with truncated concave ellipsoid subreflector
[NASA-CASE-GSC-11760-1] c 33 N75-19516

SUBSONIC FLOW
Leading edge vortex flaps for drag reduction --- during subsonic flight
[NASA-CASE-LAR-12750-1] c 02 N81-19016

SUBSONIC SPEED
Landing arrangement for aerospace vehicle Patent
[NASA-CASE-XLA-00805] c 31 N70-38010
Leading edge curvature based on convective heating Patent
[NASA-CASE-XLA-01486] c 01 N71-23497
Airfoil shape for flight at subsonic speeds --- design analysis and aerodynamic characteristics of the GAW-1 airfoil
[NASA-CASE-LAR-10585-1] c 02 N76-22154
Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976

SUBSONIC WIND TUNNELS
Variable geometry wind tunnels
[NASA-CASE-XLA-07430] c 11 N72-22246

SUBSTRATES
Means and methods of depositing thin films on substrates Patent
[NASA-CASE-XNP-00595] c 15 N70-34967
Solar cell mounting Patent
[NASA-CASE-XNP-00826] c 03 N71-20895
Solar panel fabrication Patent
[NASA-CASE-XNP-03413] c 03 N71-26726
Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c 44 N76-28635
Process for producing a well-adhered durable optical coating on an optical plastic substrate --- abrasion resistant polymethyl methacrylate lenses
[NASA-CASE-ARC-11039-1] c 74 N78-32854
Attaching of strain gages to substrates
[NASA-CASE-FRC-10093-1] c 35 N80-20560
Method for applying photographic resists to otherwise incompatible substrates
[NASA-CASE-MSC-18107-1] c 27 N81-25209
Refractory coatings
[NASA-CASE-LEW-13169-2] c 26 N82-30371
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659
Method for depositing an oxide coating
[NASA-CASE-LEW-13131-1] c 44 N83-10494
Densification of porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18737-1] c 24 N83-13171
Method of forming oxide coatings --- for solar collector heating panels
[NASA-CASE-LEW-13132-1] c 27 N83-29388
Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] c 36 N84-22944
Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] c 26 N84-27855
Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] c 26 N84-33555
A process to produce fine line metallic collection patterns on semiconductors devices
[NASA-CASE-NPO-16413-1] c 26 N85-21325
Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] c 44 N85-30475
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826
Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267

SUBSTRUCTURES
Support structure for irradiated elements Patent
[NASA-CASE-XNP-06031] c 15 N71-15606
Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366
System for detecting substructure microfractures and method therefore
[NASA-CASE-NPO-14192-1] c 39 N80-10507
Elevated waterproof access floor system and method of making the same
[NASA-CASE-ARC-11363-1] c 31 N83-28281

SUCTION
Pumped vortex
[NASA-CASE-LAR-12625-1] c 02 N83-19715

SUGARS
Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227

SULFATES
Intumescent paints Patent
[NASA-CASE-ARC-10099-1] c 18 N71-15469

SULFIDES
Stabilized lanthanum sulphur compounds --- thermoelectric materials
[NASA-CASE-NPO-16135-1] c 25 N83-24572

SULFONES
Electrolytic cell structure
[NASA-CASE-LAR-11042-1] c 33 N75-27252
Solvent resistant thermoplastic aromatic poly(imidesulfone) and process for preparing same
[NASA-CASE-LAR-12858-1] c 27 N83-34041
Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-1] c 27 N84-22747
Sulfone-ester polymers containing pendent ethynyl groups
[NASA-CASE-LAR-13316-1] c 27 N84-28987
Process for preparing solvent resistant, thermoplastic aromatic poly(imidesulfone)
[NASA-CASE-LAR-12858-2] c 27 N85-20124
Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-2] c 27 N86-21675

SULFONIC ACID
Intumescent coatings containing 4,4'-dinitrosulfanilide
[NASA-CASE-ARC-11042-1] c 24 N78-14096
The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312

SULFUR COMPOUNDS
Polymeric vehicles as carriers for sulfonic acid salt of nitrosubstituted aromatic amines
[NASA-CASE-ARC-10325] c 06 N72-25147

SULFUR DIOXIDES
Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656
Simultaneous treatment of SO2 containing stack gases and waste water
[NASA-CASE-MSC-16258-1] c 45 N79-12584

SULFURIC ACID
Synthesis of 2,4,8,10-tetroxaspiro5,5undecane
[NASA-CASE-ARC-11243-2] c 23 N85-33187

SUM RULES
Computing apparatus Patent
[NASA-CASE-XGS-04765] c 08 N71-18693

SUMPS
Fluid driven sump pump
[NASA-CASE-ARC-11414-1] c 37 N83-20152

SUN
Sun tracking solar energy collector
[NASA-CASE-NPO-13921-1] c 44 N79-14526

SUNGLASSES
Soft frame adjustable eyeglasses Patent
[NASA-CASE-XMS-06064] c 05 N71-23096

SUNLIGHT
Illumination system including a virtual light source Patent
[NASA-CASE-HQN-10781] c 23 N71-30292
Illumination control apparatus for compensating solar light
[NASA-CASE-KSC-11010-1] c 74 N79-12890
Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232
Sun shield
[NASA-CASE-MSC-20162-1] c 37 N86-20803

SUPERCHARGERS
Supercharged topping rocket propellant feed system
[NASA-CASE-XLE-02062-1] c 20 N80-14188
Diesel engine catalytic combustor system --- aircraft engines
[NASA-CASE-LEW-12995-1] c 37 N84-33808

SUPERCONDUCTING MAGNETS
Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02407] c 14 N69-27423
Superconducting alternator
[NASA-CASE-XLE-02824] c 03 N69-39890
Segmented superconducting magnet for a broadband traveling wave maser Patent
[NASA-CASE-XGS-10518] c 16 N71-28554
Superconducting magnet Patent
[NASA-CASE-XNP-06503] c 23 N71-29049
Magnetometer using superconducting rotating body
[NASA-CASE-NPO-13388-1] c 35 N76-16390
Stable superconducting magnet --- high current levels below critical temperature
[NASA-CASE-XMF-05373-1] c 33 N79-21264
Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082

SUPERCONDUCTIVITY
Superconducting alternator Patent
[NASA-CASE-XLE-02823] c 09 N71-23443
System for improving signal-to-noise ratio of a communication signal
[NASA-CASE-MSC-12259-2] c 07 N72-33146
Superconductive magnetic-field-trapping device
[NASA-CASE-XNP-01185] c 26 N73-28710
Doped Josephson tunneling junction for use in a sensitive IR detector
[NASA-CASE-NPO-13348-1] c 33 N75-31332
Method of producing high T superconducting NbN films
[NASA-CASE-NPO-16681-1-CU] c 76 N86-21401

SUPERCONDUCTORS
Superconductive accelerometer Patent
[NASA-CASE-XMF-01099] c 14 N71-15969
Twisted multifilament superconductor
[NASA-CASE-LEW-11726-1] c 26 N73-26752
Method of fabricating a twisted composite superconductor
[NASA-CASE-LEW-11015] c 26 N73-32571
Germanium coated microbridge and method
[NASA-CASE-MFS-23274-1] c 33 N78-13320

SUPERCOOLING
Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650

SUPERCRITICAL FLUIDS
Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800

SUPERCRITICAL PRESSURES
Oil shale extraction using super-critical extraction
[NASA-CASE-NPO-15656-1] c 43 N84-23012

SUPERFLUIDITY
Helium refining by superfluidity Patent
[NASA-CASE-XNP-00733] c 06 N70-34946
Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
[NASA-CASE-NPO-13346-1] c 36 N76-29575

SUPERHEATING
Thermal energy storage system --- operating on superheating of liquids
[NASA-CASE-MFS-23167-1] c 44 N76-31667

SUPERHIGH FREQUENCIES
Dual band combiner for horn antenna
[NASA-CASE-NPO-14519-1] c 32 N80-23524

SUPERPLASTICITY
Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296

SUPERSONIC AIRCRAFT
Variable sweep wing configuration Patent
[NASA-CASE-XLA-00230] c 02 N70-33255
Variable sweep aircraft wing Patent
[NASA-CASE-XLA-00350] c 02 N70-38011
Variable sweep aircraft Patent
[NASA-CASE-XLA-03659] c 02 N71-11041
Translating horizontal tail Patent
[NASA-CASE-XLA-08801-1] c 02 N71-11043
Supersonic aircraft Patent
[NASA-CASE-XLA-04451] c 02 N71-12243
Absorptive splitter for closely spaced supersonic engine air inlets Patent
[NASA-CASE-XLA-02865] c 28 N71-15563
Oblique-wing supersonic aircraft
[NASA-CASE-ARC-10470-3] c 05 N76-29217

SUPERSONIC COMBUSTION
Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c 20 N74-13502
Hypersonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168

SUPERSONIC DRAG
Annular supersonic decelerator or drogue Patent
[NASA-CASE-XLE-00222] c 02 N70-37939

SUPERSONIC FLIGHT
Variable sweep wing aircraft Patent
[NASA-CASE-XLA-00221] c 02 N70-33266
High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088

SUPERSONIC FLOW
Optical probing of supersonic flows with statistical correlation
[NASA-CASE-MFS-20642] c 14 N72-21407
Stagnation pressure probe --- for measuring pressure of supersonic gas streams
[NASA-CASE-LAR-11139-1] c 35 N74-32878

SUPERSONIC INLETS
Airflow control system for supersonic inlets
[NASA-CASE-LEW-11188-1] c 02 N74-20646
Shock position sensor for supersonic inlets --- measuring pressure in the throat of a supersonic inlet
[NASA-CASE-LEW-11915-1] c 35 N76-14431

Hypersonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168

SUPERSONIC NOZZLES
Penshape exhaust nozzle for supersonic engine Patent
[NASA-CASE-XLE-00057] c 28 N70-38711
Telescoping-spike supersonic inlet for aircraft engines Patent
[NASA-CASE-XLE-00005] c 28 N70-39899
Electric arc apparatus Patent
[NASA-CASE-XAC-01677] c 09 N71-20816
Aircraft engine nozzle
[NASA-CASE-ARC-10977-1] c 07 N80-32392

SUPERSONIC SPEEDS
Continuously operating induction plasma accelerator Patent
[NASA-CASE-XLA-01354] c 25 N70-36946
Static pressure probe
[NASA-CASE-LAR-11552-1] c 35 N76-14429

SUPERSONIC TRANSPORTS
Position location system and method Patent
[NASA-CASE-GSC-10087-2] c 21 N71-13958
Traffic control system and method Patent
[NASA-CASE-GSC-10087-1] c 02 N71-19287
Position location system and method
[NASA-CASE-GSC-10087-3] c 07 N72-12080
Doppler compensation by shifting transmitted object frequency within limits
[NASA-CASE-GSC-10087-4] c 07 N73-20174
Supersonic transport --- using canard surfaces
[NASA-CASE-LAR-11932-1] c 05 N78-32086

SUPERSONIC WIND TUNNELS
Wind tunnel
[NASA-CASE-LAR-10135-1] c 09 N79-21083
Sound shield
[NASA-CASE-LAR-12883-1] c 71 N83-17235

SUPPLYING
Advanced vapor supply manifold
[NASA-CASE-LAR-13259-1] c 37 N86-20800

SUPPORT INTERFERENCE
Spherical bearing --- to reduce vibration effects
[NASA-CASE-MFS-23447-1] c 37 N79-11404

SUPPORT SYSTEMS
Hydraulic support for dynamic testing Patent
[NASA-CASE-XMF-03248] c 11 N71-10604
Support structure for irradiated elements Patent
[NASA-CASE-XNP-06031] c 15 N71-15606
Multilegged support system Patent
[NASA-CASE-XLA-01326] c 11 N71-21481
Adjustable support
[NASA-CASE-NPO-10721] c 15 N72-27484
Hydrostatic bearing support
[NASA-CASE-LEW-11158-1] c 37 N77-28486
Metric half-span model support system
[NASA-CASE-LAR-12441-1] c 09 N82-23254

SUPPORTS
A support technique for vertically oriented launch vehicles
[NASA-CASE-XLA-02704] c 11 N69-21540
Pneumatic mirror support system
[NASA-CASE-XLA-03271] c 11 N69-24321
Optical spin compensator
[NASA-CASE-XGS-02401] c 14 N69-27485
Extensible cable support Patent
[NASA-CASE-XMF-07587] c 15 N71-18701
Swivel support for gas bearings Patent
[NASA-CASE-XMF-07808] c 15 N71-23812
Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627
Angular displacement indicating gas bearing support system Patent
[NASA-CASE-XLA-09346] c 15 N71-28740
Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-08907] c 23 N71-29123
Fine adjustment mount
[NASA-CASE-MFS-20249] c 15 N72-11386
Expansible support means
[NASA-CASE-NPO-11059] c 15 N72-17454
Optical system support apparatus
[NASA-CASE-XER-07896-2] c 23 N72-22673
Fixture for supporting articles during vibration tests
[NASA-CASE-MFS-20523] c 14 N72-27412
Test stand system for vacuum chambers
[NASA-CASE-MFS-21362] c 11 N73-20267
Collapsible structure for an antenna reflector
[NASA-CASE-NPO-11751] c 07 N73-24176
Method of making porous conductive supports for electrodes --- by electroforming and stacking nickel foils
[NASA-CASE-GSC-11367-1] c 44 N74-19692
Thrust-isolating mounting --- characteristics of support for loads mounted in spacecraft
[NASA-CASE-MFS-21680-1] c 18 N74-27397
Variable contour securing system
[NASA-CASE-MSC-16270-1] c 37 N78-27423
Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492
Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c 52 N81-25661
Model mount system for testing flutter
[NASA-CASE-LAR-12950-1] c 09 N84-34448
Remote pivot decoupler pylon: Wing/store suppression
[NASA-CASE-LAR-13173-1] c 05 N85-19981
Portable pallet weighing apparatus
[NASA-CASE-GSC-12789-1] c 35 N85-20294
Drop foot corrective device
[NASA-CASE-LAR-12259-2] c 54 N86-22112

SUPPRESSORS
Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980

SURFACE ACOUSTIC WAVE DEVICES
Distributed feedback acoustic surface wave oscillator
[NASA-CASE-NPO-13673-1] c 71 N77-26919

SURFACE CRACKS
Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900

SURFACE DEFECTS
Microwave flaw detector Patent
[NASA-CASE-ARC-10009-1] c 15 N71-17822
Method and device for detection of surface discontinuities or defects
[NASA-CASE-MSC-14187-1] c 35 N74-32879

SURFACE DIFFUSION
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-01765] c 18 N71-10772
Double-beam optical method and apparatus for measuring thermal diffusivity and other molecular dynamic processes in utilizing the transient thermal lens effect
[NASA-CASE-NPO-14657-1] c 74 N81-17887

SURFACE FINISHING
Method of forming transparent films of ZnO
[NASA-CASE-FRC-10019] c 15 N73-12487
Device and method for determining X ray reflection efficiency of optical surfaces
[NASA-CASE-MFS-20243] c 23 N73-13662
Surface finishing --- for aircraft wings
[NASA-CASE-MSC-12631-1] c 24 N77-28225
Modification of the electrical and optical properties of polymers --- ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437
Surface finishing
[NASA-CASE-MSC-12631-3] c 27 N81-14077
Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
Surface texturing of fluoropolymers
[NASA-CASE-LEW-13028-1] c 27 N82-33521
Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996
Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] c 33 N84-16456
Textured carbon surfaces on copper
[NASA-CASE-LEW-14130-1] c 31 N85-20156
Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267
A process to produce fine line metallic collection patterns on semiconductors devices
[NASA-CASE-NPO-16413-1] c 26 N85-21325
A method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N86-20128

SURFACE IONIZATION
Field ionization electrodes Patent
[NASA-CASE-ERC-10013] c 09 N71-26678
Method and apparatus for detecting surface ions on silicon diodes and transistors
[NASA-CASE-ERC-10325] c 15 N72-25457

SURFACE LAYERS
Bismuth-lead coatings for gas bearings used in atmospheric environments and vacuum chambers Patent
[NASA-CASE-XGS-02011] c 15 N71-20739
Method and apparatus for stable silicon dioxide layers on silicon grown in silicon nitride ambient
[NASA-CASE-ERC-10073-1] c 24 N74-19769
Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039

SURFACE PROPERTIES
Pretreatment method for anti-wettable materials
[NASA-CASE-XMS-03537] c 15 N69-21471
Ablation article and method
[NASA-CASE-LAR-10439-1] c 33 N73-27796
Dual measurement ablation sensor
[NASA-CASE-LAR-10105-1] c 34 N74-15652
Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c 36 N74-20009
Apparatus for microbiological sampling --- including automatic swabbing
[NASA-CASE-LAR-11069-1] c 35 N75-12272
Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367
Device for measuring the contour of a surface
[NASA-CASE-LAR-11869-1] c 74 N78-27904
Displacement probes with self-contained exciting medium
[NASA-CASE-LAR-11690-1] c 35 N80-14371
Apparatus for electrolytically tapered or contoured cavities
[NASA-CASE-XNP-08835-1] c 37 N80-14395
Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170
Apparatus and method for inspecting a bearing ball --- eddy current inspection technique
[NASA-CASE-MFS-25833-1] c 35 N83-21316
Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N86-20587

SURFACE REACTIONS
Nondestructive spot test method for magnesium and magnesium alloys
[NASA-CASE-LAR-10953-1] c 17 N73-27446
Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N86-20780

SURFACE ROUGHNESS
Surface roughness detector Patent
[NASA-CASE-XLA-00203] c 14 N70-34161
Optical inspection apparatus Patent
[NASA-CASE-XMF-00462] c 14 N70-34298
Contour surveying system Patent
[NASA-CASE-XLA-08646] c 14 N71-17586
Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391
Texturing polymer surfaces by transfer casting --- cardiovascular prosthesis
[NASA-CASE-LEW-13120-1] c 27 N82-28440
Ion sputter textured graphite --- anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117
Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565

SURFACE ROUGHNESS EFFECTS
Meteorological balloon Patent
[NASA-CASE-XMF-04163] c 02 N71-23007

SURFACE TEMPERATURE
Curved film cooling admission tube
[NASA-CASE-LEW-13174-1] c 34 N83-27144

SURFACE VEHICLES
Optimal control system for an electric motor driven vehicle
[NASA-CASE-NPO-11210] c 11 N72-20244
Vehicle for use in planetary exploration
[NASA-CASE-NPO-11366] c 11 N73-26238
Short range laser obstacle detector --- for surface vehicles using laser diode array
[NASA-CASE-NPO-11856-1] c 36 N74-15145
Vehicle locating system utilizing AM broadcasting station carriers
[NASA-CASE-NPO-13217-1] c 32 N75-26194
Vehicular impact absorption system
[NASA-CASE-NPO-14014-1] c 37 N79-10420
Personnel emergency carrier vehicle
[NASA-CASE-KSC-11282-1] c 85 N86-22452

SURFACE WAVES
Antenna design for surface wave suppression Patent
[NASA-CASE-XLA-10772] c 07 N71-28980
Solar energy converter using surface plasma waves
[NASA-CASE-LEW-13827-1] c 44 N85-21768
Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282

SURFACES
Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176
Friction measuring apparatus Patent
[NASA-CASE-XNP-08680] c 14 N71-22995
Three-axis adjustable loading structure
[NASA-CASE-FRC-10051-1] c 35 N74-13129
Photoelectron spectrometer with means for stabilizing sample surface potential
[NASA-CASE-NPO-13772-1] c 35 N78-10429

SURFACTANTS
Surfactant-assisted liquefaction of particulate carbonaceous substances
[NASA-CASE-NPO-13904-1] c 25 N79-11152

SURGERY
Tissue macerating instrument
[NASA-CASE-LEW-12668-1] c 52 N78-14773
Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12955-1] c 52 N80-14684

Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28389

SURGES
Transient-compensated SCR inverter
[NASA-CASE-XLA-08507] c 09 N69-39984
Turn on transient limiter Patent
[NASA-CASE-GSC-10413] c 10 N71-26531

SURGICAL INSTRUMENTS
Ophthalmic method and apparatus
[NASA-CASE-LEW-11669-1] c 05 N73-27062
Ophthalmic liquifaction pump
[NASA-CASE-LEW-12051-1] c 52 N75-33640
Cutting head for ultrasonic lithotripsy
[NASA-CASE-GSC-12944-1] c 52 N86-19885

SURVIVAL EQUIPMENT
Survival couch Patent
[NASA-CASE-XLA-00118] c 05 N70-33285
Life preserver Patent
[NASA-CASE-XMS-00864] c 05 N70-36493
Soft frame adjustable eyeglasses Patent
[NASA-CASE-XMS-06064] c 05 N71-23096

SUSPENDING (HANGING)
Parallel motion suspension device Patent
[NASA-CASE-XNP-01567] c 15 N70-41310
Reduced gravity simulator Patent
[NASA-CASE-XLA-01787] c 11 N71-16028
Suspended mass impact damper Patent
[NASA-CASE-LAR-10193-1] c 15 N71-27146

SUSPENSION SYSTEMS (VEHICLES)
Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587

SWEAT
Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763

SWEAT COOLING
Transpiration cooled turbine blade manufactured from wires Patent
[NASA-CASE-XLE-00020] c 15 N70-33226
Transpirationally cooled heat ablation system Patent
[NASA-CASE-XMS-02677] c 31 N70-42075
Method of electroforming a rocket chamber
[NASA-CASE-LEW-11118-1] c 20 N74-32919

SWEEP CIRCUITS
Multiple slope sweep generator Patent
[NASA-CASE-XMS-03542] c 09 N71-28926

SWEEP EFFECT
High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088
Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107

SWEEP FREQUENCY
Swept group delay measurement
[NASA-CASE-NPO-13909-1] c 33 N78-25319

SWELLING
Intumescent composition, foamed product prepared therewith, and process for making same
[NASA-CASE-ARC-10304-1] c 18 N73-26572

SWEPT WINGS
Supersonic aircraft Patent
[NASA-CASE-XLA-04451] c 02 N71-12243
Leading edge vortex flaps for drag reduction --- during subsonic flight
[NASA-CASE-LAR-12750-1] c 02 N81-19016

SWIRLING
Slosh alleviator Patent
[NASA-CASE-XLA-05749] c 15 N71-19569
Swirl can primary combustor
[NASA-CASE-LEW-11326-1] c 23 N73-30665
Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195

SWITCHES
Switching mechanism with energy storage means Patent
[NASA-CASE-XGS-00473] c 03 N70-38713
Digital memory in which the driving of each word location is controlled by a switch core Patent
[NASA-CASE-XNP-01466] c 10 N71-26434
RF controlled solid state switch
[NASA-CASE-ARC-10136-1] c 09 N72-22202
High power RF coaxial switch
[NASA-CASE-NPO-14229-1] c 33 N80-18285
Automatic thermal switch
[NASA-CASE-GSC-12415-1] c 33 N82-24419
Fiber optic crossbar switch for automatically patching optical signals
[NASA-CASE-KSC-11104-1] c 74 N83-29032
Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190
Heat pipe thermal switch
[NASA-CASE-GSC-12812-1] c 34 N83-35307
Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661
Laser activated MTOS microwave device
[NASA-CASE-NPO-16112-1] c 33 N86-19516

SWITCHING
Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N84-27975

SWITCHING CIRCUITS
Solid state switch
[NASA-CASE-XNP-09228] c 09 N69-27500
Power control circuit
[NASA-CASE-XNP-02713] c 10 N69-39888
A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
[NASA-CASE-ERC-10072] c 09 N70-11148
Space vehicle electrical system Patent
[NASA-CASE-XMF-00517] c 03 N70-34157
High speed low level electrical stepping switch Patent
[NASA-CASE-XAC-00060] c 09 N70-39915
Switching circuit employing regeneratively connected complementary transistors Patent
[NASA-CASE-XNP-02654] c 10 N70-42032
Electronic beam switching commutator Patent
[NASA-CASE-XGS-01451] c 09 N71-10677
Electronic amplifier with power supply switching Patent
[NASA-CASE-XMS-00945] c 09 N71-10798
SCR blocking pulse gate amplifier Patent
[NASA-CASE-XLA-07497] c 09 N71-12514
Magnetic core current steering commutator Patent
[NASA-CASE-NPO-10201] c 08 N71-18694
A dc-coupled noninverting one-shot Patent
[NASA-CASE-XNP-09450] c 10 N71-18723
Reversible current control apparatus Patent
[NASA-CASE-XLA-09371] c 10 N71-18724
Exclusive-Or digital logic module Patent
[NASA-CASE-XLA-07732] c 08 N71-18751
Polarization diversity monopulse tracking receiver Patent
[NASA-CASE-XGS-03501] c 09 N71-20864
Sight switch using an infrared source and sensor Patent
[NASA-CASE-XMF-03934] c 09 N71-22985
Complementary regenerative switch Patent
[NASA-CASE-XGS-02751] c 09 N71-23015
Drive circuit utilizing two cores Patent
[NASA-CASE-XNP-01318] c 10 N71-23033
Pulse modulator providing fast rise and fall times Patent
[NASA-CASE-XMS-04919] c 09 N71-23270
Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271
Increasing efficiency of switching type regulator circuits Patent
[NASA-CASE-XMS-09352] c 09 N71-23316
Indexing microwave switch Patent
[NASA-CASE-XNP-06507] c 09 N71-23548
Multialarm summary alarm Patent
[NASA-CASE-XLE-03061-1] c 10 N71-24798
Switching circuit Patent
[NASA-CASE-XNP-06505] c 10 N71-24799
Inverter with means for base current shaping for sweeping charge carriers from base region Patent
[NASA-CASE-XGS-06226] c 10 N71-25950
Current steering switch Patent
[NASA-CASE-XNP-08567] c 09 N71-26000
Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418
Turn on transient limiter Patent
[NASA-CASE-GSC-10413] c 10 N71-26531
Method and means for providing an absolute power measurement capability Patent
[NASA-CASE-ERC-11020] c 14 N71-26774
Transistor drive regulator Patent
[NASA-CASE-LEW-10233] c 10 N71-27126
Compensating bandwidth switching transients in an amplifier circuit Patent
[NASA-CASE-XNP-01107] c 10 N71-28859
Monostable multivibrator with complementary NOR gates Patent
[NASA-CASE-MSC-13492-1] c 10 N71-28860
Digital memory sense amplifying means Patent
[NASA-CASE-XNP-01012] c 08 N71-28925
Current regulating voltage divider
[NASA-CASE-MFS-20935] c 09 N71-34212
Reference voltage switching unit
[NASA-CASE-NPO-11253] c 09 N72-17157
Optimum performance spacecraft solar cell system
[NASA-CASE-GSC-10669-1] c 03 N72-20031
Flow rate switch
[NASA-CASE-NPO-10722] c 09 N72-20199
Switching regulator
[NASA-CASE-LEW-11005-1] c 09 N72-21243
Data multiplexer using tree switching configuration
[NASA-CASE-NPO-11333] c 08 N72-22162
Pulse coupling circuit
[NASA-CASE-LEW-10433-1] c 09 N72-22197
Solid state remote circuit selector switch
[NASA-CASE-LEW-10387] c 09 N72-22201
Pressure operated electrical switch responsive to a pressure decrease after a pressure increase
[NASA-CASE-LAR-10137-1] c 09 N72-22204
Fast response low power drain logic circuits
[NASA-CASE-GSC-10878-1] c 10 N72-22236
CRT blanking and brightness control circuit
[NASA-CASE-KSC-10647-1] c 10 N72-31273
Electronic video editor
[NASA-CASE-KSC-10003] c 10 N73-13235
Radiation sensitive solid state switch
[NASA-CASE-NPO-10817-1] c 08 N73-30135
Transparent switchboard
[NASA-CASE-MSC-13746-1] c 10 N73-32143
High isolation RF signal selection switches
[NASA-CASE-NPO-13081-1] c 33 N74-22814
Isolated output system for a class D switching-mode amplifier
[NASA-CASE-MFS-21616-1] c 33 N75-30429
Dual digital video switcher
[NASA-CASE-KSC-10782-1] c 33 N75-30431
Multi-computer multiple data path hardware exchange system
[NASA-CASE-NPO-13422-1] c 60 N76-14818
Sustained arc ignition system
[NASA-CASE-LEW-12444-1] c 33 N77-28385
Window comparator
[NASA-CASE-FRC-10090-1] c 33 N78-18308
Module failure isolation circuit for paralleled inverters --- preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254
System for automatically switching transformer coupled lines
[NASA-CASE-MSC-16697-1] c 33 N79-28415
Self-reconfiguring solar cell system
[NASA-CASE-LEW-12586-1] c 44 N80-14472
Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404
Microwave switching power divider --- antenna feeds
[NASA-CASE-GSC-12420-1] c 33 N82-16340
Control means for a solid state crossbar switch
[NASA-CASE-NPO-15066-1] c 33 N82-29538
Active lamp pulse driver circuit --- optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189
Pulsed thyristor trigger control circuit
[NASA-CASE-MFS-25616-1] c 33 N84-16455
Simplified dc to dc converter
[NASA-CASE-LEW-13495-1] c 33 N84-33663
Hybrid power semiconductor
[NASA-CASE-LEW-13922-1] c 33 N86-20672
Ferroresonant regulated power supply
[NASA-CASE-NPO-15977-1-CU] c 33 N86-20673
Four quadrant control circuit for a brushless three phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N86-20682

SWITCHING THEORY
Multiple circuit switch apparatus with improved pivot actuator structure Patent
[NASA-CASE-XAC-03777] c 10 N71-15909

SWIVELS
Swivel support for gas bearings Patent
[NASA-CASE-XMF-07808] c 15 N71-23812

SYNCHRONISM
Time division multiplex system
[NASA-CASE-XGS-05918] c 07 N69-39974
Means for generating a sync signal in an FM communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11281
Method of resolving clock synchronization error and means therefor Patent
[NASA-CASE-XNP-08875] c 10 N71-23099
Passive synchronized spike generator with high input impedance and low output impedance and capacitor power supply Patent
[NASA-CASE-XGS-03632] c 09 N71-23311
Time synchronization system utilizing moon reflected coded signals Patent
[NASA-CASE-NPO-10143] c 10 N71-26326
Rapid sync acquisition system Patent
[NASA-CASE-NPO-10214] c 10 N71-26577
Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996

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Phase demodulation system with two phase locked loops Patent
[NASA-CASE-XNP-00777] c 10 N71-19469
Phase locked phase modulator including a voltage controlled oscillator Patent
[NASA-CASE-XNP-05382] c 10 N71-23544
Automatic frequency control loop including synchronous switching circuits
[NASA-CASE-KSC-10393] c 09 N72-21247

Apparatus and method for tracking the fundamental frequency of an analog input signal
[NASA-CASE-ARC-11367-1] c 33 N83-21238

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Burst synchronization detection system Patent
[NASA-CASE-XMS-05605-1] c 10 N71-19468
Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773
Synchronous servo loop control system Patent
[NASA-CASE-XNP-03744] c 10 N71-20448
Digital synchronizer Patent
[NASA-CASE-NPO-10851] c 07 N71-24613
Video sync processor Patent
[NASA-CASE-KSC-10002] c 10 N71-25865
Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12462-1] c 32 N74-20809
Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12494-1] c 32 N74-20810
System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c 33 N75-19519
Telemetry synchronizer
[NASA-CASE-GSC-11868-1] c 17 N76-22245
Memory-based frame synchronizer --- for digital communication systems
[NASA-CASE-GSC-12430-1] c 60 N82-16747

SYNCHRONOUS MOTORS

Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10065-1] c 10 N71-27136
Motor run-up system --- power lines
[NASA-CASE-NPO-13374-1] c 33 N75-19524

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Position location system and method Patent
[NASA-CASE-GSC-10087-2] c 21 N71-13958
Serrodyne frequency converter re-entrant amplifier system Patent
[NASA-CASE-XGS-01022] c 07 N71-16088
Traffic control system and method Patent
[NASA-CASE-GSC-10087-1] c 02 N71-19287
Tracking antenna system Patent
[NASA-CASE-GSC-10553-1] c 07 N71-19854
Satellite interlace synchronization system
[NASA-CASE-GSC-10390-1] c 07 N72-11149
Synchronous orbit battery cycler
[NASA-CASE-GSC-11211-1] c 03 N72-25020
Systems and methods for determining radio frequency interference
[NASA-CASE-GSC-12150-1] c 32 N79-11265
Satellite personal communications system
[NASA-CASE-NPO-14480-1] c 32 N80-20448

SYNTHESIS

Synthesis of polymeric schiff bases by schiff-base exchange reactions Patent
[NASA-CASE-XMF-08651] c 06 N71-11236
Preparation of ordered poly /arylenesiloxane/ polymers
[NASA-CASE-XMF-10753] c 06 N71-11237
Imidazopyrrolone/imide copolymers Patent
[NASA-CASE-XLA-08802] c 06 N71-11238
Preparation of polyimides from mixtures of monomeric diamines and esters of polycarboxylic acids
[NASA-CASE-LEW-11325-1] c 06 N73-27980

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Prepolymer dianhydrides
[NASA-CASE-NPO-13899-1] c 27 N80-32515
Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104
Bifunctional monomers having terminal oxime and cyano or amidine groups
[NASA-CASE-ARC-11253-3] c 27 N81-24256
Synthesis of polyformals
[NASA-CASE-ARC-11244-1] c 23 N82-16174
Electrically conductive palladium containing polyimide films
[NASA-CASE-LAR-12705-1] c 25 N82-26396
Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188
Synthesis of dawsonites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977
Solvent resistant thermoplastic aromatic poly(imidesulfone) and process for preparing same
[NASA-CASE-LAR-12858-1] c 27 N83-34041
Polyphenylene ethers with imide linking groups
[NASA-CASE-LAR-12980-1] c 27 N84-22749
Sulfone-ester polymers containing pendent ethynyl groups
[NASA-CASE-LAR-13316-1] c 27 N84-28987
Fire resistant polymers based on 1-(diorgano oxyphosphonyl)methyl-2,4- and 2,6-diamino benzenes
[NASA-CASE-ARC-11512-2] c 27 N85-21362
Phenoxy resins containing pendent ethynyl groups and cured resins obtained therefrom
[NASA-CASE-LAR-13262-1] c 23 N85-28973
Synthesis of 2,4,8,10-tetroxaspiro5,5undecane
[NASA-CASE-ARC-11243-2] c 23 N85-33187
Fire-resistant phosphorus containing polyimides and copolyimides
[NASA-CASE-ARC-11522-2] c 27 N85-34280
Metal phthalocyanine intermediates for the preparation of polymers
[NASA-CASE-ARC-11405-2] c 27 N86-19455
Process for preparing phthalocyanine polymers
[NASA-CASE-ARC-11511-2] c 27 N86-19461
Polyenamines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-1-CU] c 27 N86-19462
Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560
Polyimides containing ATBN elastometers and the process for preparing same
[NASA-CASE-LAR-13178-1] c 27 N86-20565
Perfluoro (Imidoylamidine) diamidines
[NASA-CASE-ARC-11402-3] c 23 N86-21582
Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-2] c 27 N86-21675
Acetylene (ethynyl) terminated polyimide siloxane and process for preparation thereof
[NASA-CASE-LAR-13318-1] c 27 N86-21685

SYNTHESIZERS

Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525

SYNTHETIC APERTURE RADAR

Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391
Azimuth correlator for real-time synthetic aperture radar image processing
[NASA-CASE-NPO-14019-1] c 32 N79-14268
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-1] c 32 N79-19195
An electro-optical Doppler tracker means and method for optical correlation of synthetic aperture radar data
[NASA-CASE-NPO-14998-1] c 33 N81-15194
Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297
Servomechanism for Doppler shift compensation in optical correlator for synthetic aperture radar
[NASA-CASE-NPO-14998-1] c 32 N83-18975
Clutter free synthetic aperture radar correlator
[NASA-CASE-NPO-14035-1] c 32 N83-19968
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918
Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] c 32 N84-27951
Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651
Method and apparatus for Delta Kappa synthetic aperture radar measurement of ocean current
[NASA-CASE-NPO-15704-1] c 32 N85-34327
Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711

SYNTHETIC FIBERS

Fluid containers and resealable septum therefor Patent
[NASA-CASE-NPO-10123] c 15 N71-24835
Fabric for micrometeoroid protection garment Patent
[NASA-CASE-MSC-12109] c 18 N71-26285
Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747
Polymeric electrolytic hygrometer
[NASA-CASE-NPO-13948-1] c 35 N78-25391
Process for spinning flame retardant elastomeric compositions --- fabricating synthetic fibers for high oxygen environments
[NASA-CASE-MSC-14331-3] c 27 N78-32262
Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187

SYNTHETIC FUELS

Molten salt pyrolysis of latex --- synthetic hydrocarbon fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261
Solar heated fluidized bed gasification system
[NASA-CASE-NPO-15071-1] c 44 N82-16475

SYNTHETIC RESINS

Coating process
[NASA-CASE-XNP-06508] c 18 N69-39895
Phosphorus-containing bisimide resins
[NASA-CASE-ARC-11321-1] c 27 N81-27272
Method for forming pyrrone molding powders and products of said method
[NASA-CASE-LAR-10423-1] c 23 N82-29358
Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560

SYNTHETIC RUBBERS

Process for the preparation of polycarboranylphosphazenes --- thermal insulation
[NASA-CASE-ARC-11176-2] c 27 N81-27271

SYRINGES

Micro-fluid exchange coupling apparatus
[NASA-CASE-ARC-11114-1] c 51 N81-14605
Automated syringe sampler --- remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407

SYSTEM EFFECTIVENESS

System for the measurement of ultra-low stray light levels --- determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865

SYSTEM FAILURES

Tape recorder Patent
[NASA-CASE-XGS-08259] c 14 N71-23698
Fault tolerant clock apparatus utilizing a controlled minority of clock elements
[NASA-CASE-MSC-12531-1] c 35 N75-30504
Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115

SYSTEMS ANALYSIS

Analog-to-digital converter analyzing system
[NASA-CASE-NPO-10560] c 08 N72-22166

SYSTEMS ENGINEERING

Magnetohydrodynamic induction machine
[NASA-CASE-XNP-07481] c 25 N69-21929
Gravity stabilized flying vehicle Patent
[NASA-CASE-MSC-12111-1] c 02 N71-11039
Solar battery with interconnecting means for plural cells Patent
[NASA-CASE-XNP-06506] c 03 N71-11050
Helmet assembly and latch means therefor Patent
[NASA-CASE-XMS-04935] c 05 N71-11190
Multi-feed cone Cassegrain antenna Patent
[NASA-CASE-NPO-10539] c 07 N71-11285
Viscous-pendulum-damper Patent
[NASA-CASE-XLA-02079] c 12 N71-16894
Out of tolerance warning alarm system for plurality of monitored circuits Patent
[NASA-CASE-XMS-10984-1] c 10 N71-19417
Wide range data compression system Patent
[NASA-CASE-XGS-02612] c 08 N71-19435
Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439
Biomedical radiation detecting probe Patent
[NASA-CASE-XMS-01177] c 05 N71-19440
High speed binary to decimal conversion system Patent
[NASA-CASE-XGS-01230] c 08 N71-19544
Evaporant source for vapor deposition Patent
[NASA-CASE-XMF-06065] c 15 N71-20395
Method and apparatus for making a heat insulating and ablative structure Patent
[NASA-CASE-XMS-02009] c 33 N71-20834
Polarization diversity monopulse tracking receiver Patent
[NASA-CASE-XGS-03501] c 09 N71-20864
Inflatable support structure Patent
[NASA-CASE-XLA-01731] c 32 N71-21045
Fast opening diaphragm Patent
[NASA-CASE-XLA-03660] c 15 N71-21060
Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721
Apparatus for machining geometric cones Patent
[NASA-CASE-XMS-04292] c 15 N71-22722
Spin forming tubular elbows Patent
[NASA-CASE-XMF-01083] c 15 N71-22723
Spacecraft airlock Patent
[NASA-CASE-XLA-02050] c 31 N71-22968
Station keeping of a gravity gradient stabilized satellite Patent
[NASA-CASE-XLA-03132] c 31 N71-22969
Filler valve Patent
[NASA-CASE-XNP-01747] c 15 N71-23024
Refrigeration apparatus Patent
[NASA-CASE-XNP-08877] c 15 N71-23025
Reduced bandwidth video communication system utilizing sampling techniques Patent
[NASA-CASE-XNP-02791] c 07 N71-23026
Multiple environment materials test chamber having a multiple port X-ray tube for irradiating a plurality of samples Patent
[NASA-CASE-XMS-02930] c 11 N71-23042
Variable duration pulse integrator Patent
[NASA-CASE-XLA-01219] c 10 N71-23084

Sealed electrochemical cell provided with a flexible casing Patent
[NASA-CASE-XGS-01513] c 03 N71-23336
Extended area semiconductor radiation detectors and a novel readout arrangement Patent
[NASA-CASE-XGS-03230] c 14 N71-23401
Floating two force component measuring device Patent
[NASA-CASE-XAC-04885] c 14 N71-23790
Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597
Method of attaching a cover glass to a silicon solar cell Patent
[NASA-CASE-XLE-08569-2] c 03 N71-24681
Attitude control system for sounding rockets Patent
[NASA-CASE-XGS-01654] c 31 N71-24750
Temperature telemetric transmitter Patent
[NASA-CASE-NPO-10649] c 07 N71-24840
Tuning arrangement for an electron discharge device or the like Patent
[NASA-CASE-XNP-09771] c 09 N71-24841
Broadband modified turnstile antenna Patent
[NASA-CASE-MSC-12209] c 09 N71-24842
Apparatus for determining the deflection of an electron beam impinging on a target Patent
[NASA-CASE-XMF-06617] c 09 N71-24843
BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890
Noninterruptable digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891
Duct coupling for single-handed operation Patent
[NASA-CASE-MFS-20395] c 15 N71-24903
Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904
Quick release hook tape Patent
[NASA-CASE-XMS-10660-1] c 15 N71-25975
Internal work light Patent
[NASA-CASE-XKS-05932] c 09 N71-26787
Apparatus for inspecting microfilm Patent
[NASA-CASE-MFS-20240] c 14 N71-26788
Apparatus for remote measurement of displacement of marks on a specimen undergoing a tensile test
[NASA-CASE-NPO-10778] c 14 N72-11364
Optimum performance spacecraft solar cell system
[NASA-CASE-GSC-10669-1] c 03 N72-20031
Electric storage battery
[NASA-CASE-NPO-11021] c 03 N72-20032
Spacecraft attitude control method and apparatus
[NASA-CASE-HQN-10439] c 21 N72-21624
Light sensor
[NASA-CASE-NPO-11311] c 14 N72-25414
Flight control system
[NASA-CASE-MSC-13397-1] c 21 N72-25595
Program for computer aided reliability estimation
[NASA-CASE-NPO-13086-1] c 15 N73-12495
Measurement system
[NASA-CASE-MFS-20658-1] c 14 N73-30386
Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397
System for calibrating pressure transducer
[NASA-CASE-LAR-10910-1] c 35 N74-13132
Three mirror glancing incidence system for X-ray telescope
[NASA-CASE-MFS-21372-1] c 74 N74-27866
Holographic system for nondestructive testing
[NASA-CASE-MFS-21704-1] c 35 N75-25124
Compact pulsed laser having improved heat conductance
[NASA-CASE-NPO-13147-1] c 36 N77-25502
Tetherline system for orbiting satellites
[NASA-CASE-MFS-23564-1] c 15 N78-25119
Non-tracking solar energy collector system
[NASA-CASE-NPO-13813-1] c 44 N78-31526
Horizontally mounted solar collector
[NASA-CASE-MFS-23349-1] c 44 N79-23481
Contour measurement system
[NASA-CASE-MFS-23726-1] c 43 N79-26439
Redundant motor drive system
[NASA-CASE-MFS-23777-1] c 37 N80-32716
System for sterilizing objects --- cleaning space vehicle *systems*
[NASA-CASE-KSC-11085-1] c 54 N81-24724
A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] c 25 N84-32447
Multiplex electric discharge gas laser system
[NASA-CASE-NPO-16433-1] c 36 N86-20778

SYSTEMS INTEGRATION
Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-1] c 28 N84-29017

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TABS (CONTROL SURFACES)
Aircraft rotor blade with passive tuned tab
[NASA-CASE-ARC-11444-1] c 05 N85-29947

TACHOMETERS
Digital cardiotachometer system Patent
[NASA-CASE-XMS-02399] c 05 N71-22896
Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904
Ratemeter
[NASA-CASE-MFS-20418] c 14 N73-24473
Tachometer
[NASA-CASE-MFS-23175-1] c 35 N77-30436
Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017

TACKINESS
Structural pressure sensitive silicone adhesives
[NASA-CASE-LAR-13270-1] c 27 N84-32532

TAIL ASSEMBLIES
Surface conforming thermal/pressure seal --- tail assemblies of space shuttle orbiters
[NASA-CASE-MSC-18422-1] c 37 N82-16408
Missile rolling tail brake torque system --- simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231

TAKEOFF
Airplane take-off performance indicator Patent
[NASA-CASE-XLA-00100] c 14 N70-36807
Aircraft instrument Patent
[NASA-CASE-XLA-00487] c 14 N70-40157

TANGENTS
Derivation of a tangent function using an integrated circuit four-quadrant multiplier
[NASA-CASE-MSC-13907-1] c 10 N73-26230

TANK GEOMETRY
Tank construction for space vehicles Patent
[NASA-CASE-XMF-01899] c 31 N70-41948

TANKERS
Tanker orbit transfer vehicle and method
[NASA-CASE-MSC-20543-1] c 18 N84-22610

TANKS (COMBAT VEHICLES)
Improvements in tank tread assemblies
[NASA-CASE-NPO-16321-1] c 37 N85-29291

TANKS (CONTAINERS)
Penetrating radiation system for detecting the amount of liquid in a tank Patent
[NASA-CASE-MSC-12280] c 27 N71-16348
Method for leakage testing of tanks Patent
[NASA-CASE-XMF-02392] c 32 N71-24285
Floating baffle to improve efficiency of liquid transfer from tanks
[NASA-CASE-KSC-10639] c 15 N73-26472
Method of producing a storage bulb for an atomic hydrogen maser
[NASA-CASE-NPO-13050-1] c 36 N75-15029

TANTALUM
Thermionic tantalum emitter doped with oxygen Patent Application
[NASA-CASE-NPO-11138] c 03 N70-34646
Arc electrode of graphite with ball tip Patent
[NASA-CASE-XLE-04788] c 09 N71-22987
Trialkyl-dihalotantalum and niobium compounds Patent
[NASA-CASE-XNP-04023] c 06 N71-28808
Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c 35 N77-32454

TANTALUM ALLOYS
Evaporant holder
[NASA-CASE-XLA-03105] c 15 N69-27483
Tantalum modified ferritic iron base alloys
[NASA-CASE-LEW-12095-1] c 26 N78-18182

TANTALUM CARBIDES
Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c 27 N78-17206

TANTALUM OXIDES
Thin film temperature sensor and method of making same
[NASA-CASE-NPO-11775] c 26 N72-28761

TAPE RECORDERS
Plural recorder system
[NASA-CASE-XMS-06949] c 09 N69-21467
Endless tape transport mechanism Patent
[NASA-CASE-XGS-01223] c 07 N71-10609
Low friction magnetic recording tape Patent
[NASA-CASE-XGS-00373] c 23 N71-15978
Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420
Synchronous servo loop control system Patent
[NASA-CASE-XNP-03744] c 10 N71-20448
Incremental tape recorder and data rate converter Patent
[NASA-CASE-XNP-02778] c 08 N71-22710
Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001
Tape recorder Patent
[NASA-CASE-XGS-08259] c 14 N71-23698
Transient video signal recording with expanded playback Patent
[NASA-CASE-ARC-10003-1] c 09 N71-25866
A dc servosystem including an ac motor Patent
[NASA-CASE-NPO-10700] c 07 N71-33613
Recorder using selective noise filter
[NASA-CASE-ERC-10112] c 07 N72-21119
Scan converting video tape recorder
[NASA-CASE-NPO-10166-1] c 07 N73-22076
Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c 35 N76-16391
Method of and means for testing a tape record/playback system
[NASA-CASE-MFS-22671-2] c 35 N77-17426

TAPERED COLUMNS
Method of making a rocket motor casing Patent
[NASA-CASE-XLE-00409] c 28 N71-15658
Rocket motor casing Patent
[NASA-CASE-XLE-05689] c 28 N71-15659

TARGET ACQUISITION
Acquisition and tracking system for optical radar
[NASA-CASE-MFS-20125] c 16 N72-13437
Target acquisition antenna
[NASA-CASE-GSC-10064-1] c 10 N72-22235
Intruder detection system
[NASA-CASE-ARC-10097-2] c 07 N73-25160

TARGET RECOGNITION
Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980

TARGET SIMULATORS
Simulator method and apparatus for practicing the mating of an observer-controlled object with a target
[NASA-CASE-MFS-23052-2] c 74 N79-13855
Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] c 32 N84-27951

TARGETS
Method and apparatus for producing concentric hollow spheres --- inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319
Method and apparatus for producing gas-filled hollow spheres --- target pellets for inertial confinement fusion
[NASA-CASE-NPO-14596-3] c 31 N83-31896

TEETH
Acoustic tooth cleaner
[NASA-CASE-LAR-12471-1] c 52 N82-29862

TEFLON (TRADEMARK)
Bonding of reinforced Teflon to metals
[NASA-CASE-MFS-20482] c 15 N72-22492
Method of producing a storage bulb for an atomic hydrogen maser
[NASA-CASE-NPO-13050-1] c 36 N75-15029
Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664

TELECOMMUNICATION
Adaptive compression of communication signals Patent
[NASA-CASE-XLA-03076] c 07 N71-11266
Means for generating a sync signal in an FM communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11281
Signal-to-noise ratio estimating by taking ratio of mean and standard deviation of integrated signal samples Patent
[NASA-CASE-XNP-05254] c 07 N71-20791
Digital synchronizer Patent
[NASA-CASE-NPO-10851] c 07 N71-24613
Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917
Two carrier communication system with single transmitter
[NASA-CASE-NPO-11548] c 07 N73-26118
Pseudonoise (PN) synchronization of data system with derivation of clock frequency from received signal for clocking receiver PN generator
[NASA-CASE-XNP-03623] c 09 N73-28084
Coherent receiver employing nonlinear coherence detection for carrier tracking
[NASA-CASE-NPO-11921-1] c 32 N74-30523
Pseudo-noise test set for communication system evaluation --- test signals
[NASA-CASE-MFS-22671-1] c 35 N75-21582
Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c 32 N75-24981
Method and apparatus for quadriphase-shift-key and linear phase modulation
[NASA-CASE-NPO-14444-1] c 33 N81-15192

Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583

TELEMETRY
Pressure variable capacitor
[NASA-CASE-XNP-09752] c 14 N69-21541
Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333
Position location and data collection system and method Patent
[NASA-CASE-GSC-10083-1] c 30 N71-16090
Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699
Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525
Programmable telemetry system Patent
[NASA-CASE-GSC-10131-1] c 07 N71-24624
Temperature telemetric transmitter Patent
[NASA-CASE-NPO-10649] c 07 N71-24840
Rapid sync acquisition system Patent
[NASA-CASE-NPO-10214] c 10 N71-26577
Telemetry actuated switch
[NASA-CASE-ARC-10105] c 09 N72-17153
Flexible computer accessed telemetry
[NASA-CASE-NPO-11358] c 07 N72-25172
Digital control and information system
[NASA-CASE-NPO-11016] c 08 N72-31226
Multichannel telemetry system
[NASA-CASE-NPO-11572] c 07 N73-16121
Receiver with an improved phase lock loop in a multichannel telemetry system with suppressed carrier
[NASA-CASE-NPO-11593-1] c 07 N73-28012
Telemetry synchronizer
[NASA-CASE-GSC-11868-1] c 17 N76-22245
A single frequency multitransmitter telemetry system
[NASA-CASE-LAR-13006-1] c 17 N83-20995
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491
Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MSC-20821-1] c 17 N86-20466

TELEOPERATORS
Cooperative multiaxis sensor for teleoperation of article manipulating apparatus
[NASA-CASE-NPO-13386-1] c 54 N75-27758

TELEPHONES
Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310

TELEPHONY
Digital communication system
[NASA-CASE-MSC-13912-1] c 32 N74-30524

TELESCOPES
Pneumatic mirror support system
[NASA-CASE-XLA-03271] c 11 N69-24321
Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627
Rotable accurate reflector system for telscopes Patent
[NASA-CASE-NPO-10468] c 23 N71-33229
Light direction sensor
[NASA-CASE-NPO-11201] c 14 N72-27409
Borescope with variable angle scope
[NASA-CASE-MFS-15162] c 14 N72-32452
Ritchey-Chretien Telescope
[NASA-CASE-GSC-11487-1] c 14 N73-30393
Servo-controlled intravital microscope system
[NASA-CASE-NPO-13214-1] c 35 N75-25123
Wide-angle flat field telescope
[NASA-CASE-GSC-12825-1] c 74 N85-20868

TELETYPEWRITER SYSTEMS
Video communication system and apparatus Patent
[NASA-CASE-XNP-06611] c 07 N71-26102

TELEVISION CAMERAS
Electrically-operated rotary shutter Patent
[NASA-CASE-XNP-00637] c 14 N70-40273
Digital television camera control system Patent
[NASA-CASE-XNP-01472] c 14 N70-41807
Solid state television camera system Patent
[NASA-CASE-XMF-06092] c 07 N71-24612
Color television system
[NASA-CASE-MSC-12146-1] c 07 N72-17109
TV fatigue crack monitoring system
[NASA-CASE-LAR-11490-1] c 39 N78-16387
Optical conversion method --- for spacecraft television
[NASA-CASE-MSC-12618-1] c 74 N78-17865
Automatic weld torch guidance control system
[NASA-CASE-MFS-25807] c 37 N83-20154
Television camera video level control system
[NASA-CASE-MSC-18578-1] c 32 N85-21427
Wind dynamic range video camera
[NASA-CASE-MFS-25750-1] c 32 N86-20647
Automated weld torch guidance control system
[NASA-CASE-MFS-25807-2] c 37 N86-21850

TELEVISION EQUIPMENT
Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300
Automatic closed circuit television arc guidance control Patent
[NASA-CASE-MFS-13046] c 07 N71-19433
Color television systems using a single gun color cathode ray tube Patent
[NASA-CASE-ERC-10098] c 09 N71-28618
Television multiplexing system
[NASA-CASE-KSC-10654-1] c 07 N73-30115
Rotating raster generator
[NASA-CASE-FRC-10071-1] c 32 N74-20813
Auditory display for the blind
[NASA-CASE-HQN-10832-1] c 71 N74-21014
Spacecraft docking and alignment system --- using television camera system
[NASA-CASE-MSC-12559-1] c 18 N76-14186
System for producing chroma signals
[NASA-CASE-MSC-14683-1] c 74 N77-18893

TELEVISION RECEIVERS
Narrow bandwidth video Patent
[NASA-CASE-XMS-06740-1] c 07 N71-26579

TELEVISION RECEPTION
Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117

TELEVISION SYSTEMS
Method and means for an improved electron beam scanning system Patent
[NASA-CASE-ERC-10552] c 09 N71-12539
Burst synchronization detection system Patent
[NASA-CASE-XMS-05605-1] c 10 N71-19468
Narrow bandwidth video Patent
[NASA-CASE-XMS-06740-1] c 07 N71-26579
Stereoscopic television system and apparatus
[NASA-CASE-ARC-10160-1] c 23 N72-27728

TELEVISION TRANSMISSION
Television simulation for aircraft and space flight Patent
[NASA-CASE-XFR-03107] c 09 N71-19449
Automatic frequency control for FM transmitter
[NASA-CASE-MFS-21540-1] c 32 N74-19790
Television noise reduction device
[NASA-CASE-MSC-12607-1] c 32 N75-21485

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Targets for producing high purity I-123
[NASA-CASE-LEW-10518-3] c 25 N78-27226

TEMPERATURE
Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098

TEMPERATURE COMPENSATION
Temperature compensated solid state differential amplifier Patent
[NASA-CASE-XAC-00435] c 09 N70-35440
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00458] c 09 N70-38604
Matched thermistors for microwave power meters Patent
[NASA-CASE-NPO-10348] c 10 N71-12554
Precision thrust gage Patent
[NASA-CASE-XGS-02319] c 14 N71-22965
Variable frequency oscillator with temperature compensation Patent
[NASA-CASE-XNP-03916] c 09 N71-28810
Omnidirectional acceleration device Patent
[NASA-CASE-HQN-10780] c 14 N71-30265
Thermal compensating structural member
[NASA-CASE-MFS-20433] c 15 N72-28496
Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214
Opto-mechanical subsystem with temperature compensation through isothemal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366
Temperature compensated current source
[NASA-CASE-MSC-11235] c 33 N78-17294

TEMPERATURE CONTROL
Method and apparatus for wavelength tuning of liquid lasers
[NASA-CASE-ERC-10187] c 16 N69-31343
Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979
Thermal control of space vehicles Patent
[NASA-CASE-XLA-01291] c 33 N70-36617
Thermal switch Patent
[NASA-CASE-XNP-00463] c 33 N70-36847
Sandwich panel construction Patent
[NASA-CASE-XLA-00349] c 33 N70-37979
Device for suppressing sound and heat produced by high-velocity exhaust jets Patent
[NASA-CASE-XMF-01813] c 28 N70-41582
Solar cell including second surface mirrors Patent
[NASA-CASE-NPO-10109] c 03 N71-11049
Excessive temperature warning system Patent
[NASA-CASE-XLA-01926] c 14 N71-15620
Intermittent type silica gel adsorption refrigerator Patent
[NASA-CASE-XNP-00920] c 15 N71-15906
Method and apparatus for controllably heating fluid Patent
[NASA-CASE-XMF-04237] c 33 N71-16278
Mount for thermal control system Patent
[NASA-CASE-NPO-10138] c 33 N71-16357
Transmission line thermal short Patent
[NASA-CASE-XNP-09775] c 09 N71-20445
Thermal control wall panel Patent
[NASA-CASE-XLA-01243] c 33 N71-22792
Thermal control panel Patent
[NASA-CASE-XLA-07728] c 33 N71-22890
Method and apparatus for varying thermal conductivity Patent
[NASA-CASE-XNP-05524] c 33 N71-24876
Temperature regulation circuit Patent
[NASA-CASE-XNP-02792] c 14 N71-28958
Automatic control of liquid cooling garment by cutaneous and external auditory meatus temperatures
[NASA-CASE-MSC-13917-1] c 05 N72-15098
Method for controlling vapor content of a gas
[NASA-CASE-NPO-10633] c 03 N72-28025
Atomic hydrogen maser with bulb temperature control to remove wall shift in maser output frequency
[NASA-CASE-HQN-10654-1] c 16 N73-13489
Pump for delivering heated fluids
[NASA-CASE-NPO-11417] c 15 N73-24513
Temperature controller for a fluid cooled garment
[NASA-CASE-ARC-10599-1] c 05 N73-26071
Temperature control system with a pulse width modulated bridge
[NASA-CASE-NPO-11304] c 14 N73-26430
Thermal control system for a spacecraft modular housing
[NASA-CASE-GSC-11018-1] c 31 N73-30829
Apparatus for controlling the temperature of balloon-borne equipment
[NASA-CASE-GSC-11620-1] c 34 N74-23039
Self-regulating proportionally controlled heating apparatus and technique
[NASA-CASE-GSC-11752-1] c 77 N75-20140
Rocket chamber and method of making
[NASA-CASE-LEW-11118-2] c 20 N76-14191
Thermostatically controlled non-tracking type solar energy concentrator
[NASA-CASE-NPO-13497-1] c 44 N76-14602
Multi-chamber controllable heat pipe
[NASA-CASE-ARC-10199] c 34 N78-17337
Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029
Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21225
Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523
Automatic thermal switch
[NASA-CASE-GSC-12415-1] c 33 N82-24419
Automatic thermal switch --- spacecraft applications
[NASA-CASE-GSC-12553-1] c 34 N83-28356
Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625
Heating and cooling system --- for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221
Heat pipe thermal switch
[NASA-CASE-GSC-12812-1] c 34 N83-35307
Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] c 76 N84-12968
Thermal control system --- removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14461
High temperature acoustic levitator
[NASA-CASE-NPO-16022-1] c 71 N85-22105

TEMPERATURE DISTRIBUTION
Heat shield oven
[NASA-CASE-XMS-04318] c 15 N69-27871
Apparatus for supplying conditioned air at a substantially constant temperature and humidity
[NASA-CASE-GSC-12191-1] c 31 N80-32583

TEMPERATURE EFFECTS
Variable stiffness polymeric damper
[NASA-CASE-XAC-11225] c 14 N69-27486
Differential pressure cell Patent
[NASA-CASE-XAC-00042] c 14 N70-34816
Fluid flow control value Patent
[NASA-CASE-XLE-00703] c 15 N71-15967
Temperature sensitive flow regulator Patent
[NASA-CASE-MFS-14259] c 15 N71-19213
Thermally cycled magnetometer Patent
[NASA-CASE-XAC-03740] c 14 N71-26135
Radiometric temperature reference Patent
[NASA-CASE-MSC-13276-1] c 14 N71-27058

Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392
Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N86-19610
Thermoplastics/thermosetting adhesive specimen bonding
[NASA-CASE-LAR-13066-1] c 27 N86-20564
High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1SB] c 24 N86-21590

TEMPERATURE GRADIENTS
Differential temperature transducer Patent
[NASA-CASE-XAC-00812] c 14 N71-15598
Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214
Method for compression molding of thermosetting plastics utilizing a temperature gradient across the plastic to cure the article
[NASA-CASE-LAR-10489-1] c 31 N74-18124
Method and apparatus for checking fire detectors
[NASA-CASE-GSC-11600-1] c 35 N74-21019
Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
Temperature averaging thermal probe
[NASA-CASE-GSC-12795-1] c 35 N86-19580
High gradient directional solidification furnace
[NASA-CASE-MFS-25963-1] c 35 N86-20750

TEMPERATURE MEASUREMENT
Motion picture camera for optical pyrometry Patent
[NASA-CASE-XLA-00062] c 14 N70-33254
Apparatus for measuring thermal conductivity Patent
[NASA-CASE-XGS-01052] c 14 N71-15992
Thermocouple assembly Patent
[NASA-CASE-XNP-01659] c 14 N71-23039
Cavity radiometer Patent
[NASA-CASE-XNP-08961] c 14 N71-24809
Sensing probe
[NASA-CASE-LEW-10281-1] c 14 N72-17327
Apparatus for sensing temperature
[NASA-CASE-XLE-05230] c 14 N72-27410
Method of making apparatus for sensing temperature
[NASA-CASE-XLE-05230-2] c 14 N73-13417
Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-1] c 14 N73-14428
Method of fabricating an article with cavities --- with thin bottom walls
[NASA-CASE-LAR-10318-1] c 31 N74-18089
Method for determining thermo-physical properties of specimens --- photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c 25 N74-18551
Wind sensor
[NASA-CASE-NPO-13462-1] c 35 N76-24524
Miniature ingestible telemeter devices to measure deep-body temperature
[NASA-CASE-ARC-10583-1] c 52 N76-29894
Thermocouple, multiple junction reference oven
[NASA-CASE-FRC-10112-1] c 35 N81-26431
Multi-channel temperature measurement amplification system --- solar heating systems
[NASA-CASE-MFS-23775-1] c 44 N82-16474
Solar energy control system --- temperature measurement
[NASA-CASE-MFS-25287-1] c 44 N82-18686
Temperature averaging thermal probe
[NASA-CASE-GSC-12795-1] c 35 N83-20085
Method of and apparatus for measuring temperature and pressure --- atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639
Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723
Temperature sensitive oscillator
[NASA-CASE-GSC-12958-1] c 33 N85-30201
Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618

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Excessive temperature warning system Patent
[NASA-CASE-XLA-01926] c 14 N71-15620
Condition and condition duration indicator Patent
[NASA-CASE-XMF-01097] c 10 N71-16058
Thermal detector of electromagnetic energy by means of a vibrating electrode Patent
[NASA-CASE-XAC-10768] c 09 N71-18830
Method and means for providing an absolute power measurement capability Patent
[NASA-CASE-ERC-11020] c 14 N71-26774
High intensity radiant energy pulse source having means for opening shutter when light flux has reached a desired level
[NASA-CASE-ARC-10178-1] c 09 N72-17152
Thermocouple tape
[NASA-CASE-LEW-11072-1] c 14 N73-24472
Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c 35 N77-32454
Temperature averaging thermal probe
[NASA-CASE-GSC-12795-1] c 35 N86-19580

TEMPERATURE PROBES
Temperature-compensating means for cavity resonator of amplifier Patent
[NASA-CASE-XNP-00449] c 14 N70-35220
Sensing probe
[NASA-CASE-LEW-10281-1] c 14 N72-17327
Temperature averaging thermal probe
[NASA-CASE-GSC-12795-1] c 35 N86-19580

TEMPERATURE PROFILES
Exothermic furnace module
[NASA-CASE-MFS-25707-1] c 35 N82-26631

TEMPERATURE SENSORS
Compensating radiometer
[NASA-CASE-XLA-04556] c 14 N69-27484
Thermobulb mount Patent
[NASA-CASE-NPO-10158] c 33 N71-16356
Mount for thermal control system Patent
[NASA-CASE-NPO-10138] c 33 N71-16357
Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c 33 N71-23085
Temperature telemetric transmitter Patent
[NASA-CASE-NPO-10649] c 07 N71-24840
Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475
Thin film capacitive bolometer and temperature sensor Patent
[NASA-CASE-NPO-10607] c 09 N71-27232
Thin film temperature sensor and method of making same
[NASA-CASE-NPO-11775] c 26 N72-28761
Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-2] c 35 N75-25122
Optical crystal temperature gauge with fiber optic connections
[NASA-CASE-MSC-18627-1] c 74 N82-30071
Temperature averaging thermal probe
[NASA-CASE-GSC-12795-1] c 35 N83-20085

TEMPLATES
Microcircuit negative cutter
[NASA-CASE-XLA-09843] c 15 N72-27485

TENSILE STRENGTH
Method of making fiber reinforced metallic composites Patent
[NASA-CASE-XLE-00231] c 17 N70-38198
Reinforced metallic composites Patent
[NASA-CASE-XLE-00228] c 17 N70-38490
Apparatus for tensile testing Patent
[NASA-CASE-XKS-06250] c 14 N71-15600
Method for fiberizing ceramic materials Patent
[NASA-CASE-XNP-00597] c 18 N71-23088
Tensile strength testing device Patent
[NASA-CASE-XNP-05634] c 15 N71-24834
Device for use in loading tension members --- characterized by elongated elastic body
[NASA-CASE-MFS-21488-1] c 14 N75-24794
Method of carbonizing polyacrylonitrile fibers
[NASA-CASE-ARC-11261-1] c 24 N83-25789
Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841

TENSILE STRESS
Rocket nozzle test method Patent
[NASA-CASE-NPO-10311] c 31 N71-15643
Device for measuring tensile forces
[NASA-CASE-MFS-21728-1] c 35 N74-27865
Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c 44 N74-33379

TENSILE TESTS
Apparatus for tensile testing Patent
[NASA-CASE-XKS-06250] c 14 N71-15600
Tension measurement device Patent
[NASA-CASE-XMS-04545] c 15 N71-22878
Tensile strength testing device Patent
[NASA-CASE-XNP-05634] c 15 N71-24834
Apparatus for remote measurement of displacement of marks on a specimen undergoing a tensile test
[NASA-CASE-NPO-10778] c 14 N72-11364
Anti-buckling fatigue test assembly --- for subjecting metal specimen to tensile and compressive loads at constant temperature
[NASA-CASE-LAR-10426-1] c 09 N74-19528
Method and apparatus for tensile testing of metal foil
[NASA-CASE-LAR-10208-1] c 35 N76-18400
Device for tensioning test specimens within an hermetically sealed chamber
[NASA-CASE-MFS-23281-1] c 35 N77-22450
Method and apparatus for gripping uniaxial fibrous composite materials
[NASA-CASE-LEW-13758-1] c 24 N84-27829
Tensile testing apparatus
[NASA-CASE-LAR-13243-1] c 35 N85-34375

TENSION
Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-MFS-22189-1] c 35 N75-19615

TERMINAL GUIDANCE
Energy management system for glider type vehicle Patent
[NASA-CASE-XFR-00756] c 02 N71-13421
Terminal guidance system --- for guiding aircraft into preselected altitude and/or heading at terminal point
[NASA-CASE-FRC-10049-1] c 04 N74-13420
Terminal guidance sensor system
[NASA-CASE-NPO-14521-1] c 54 N79-20746
Terminal guidance sensor system --- space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519

TERNARY SYSTEMS
Nicral ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505

TERRAIN
Landing gear Patent
[NASA-CASE-XMF-01174] c 02 N70-41589

TERRAIN ANALYSIS
Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391
Method for observing the features characterizing the surface of a land mass
[NASA-CASE-FRC-11013-1] c 43 N81-17499

TEST CHAMBERS
Exposure system for animals Patent
[NASA-CASE-XAC-05333] c 11 N71-22875
Multiple environment materials test chamber having a multiple port X-ray tube for irradiating a plurality of samples Patent
[NASA-CASE-XMS-02930] c 11 N71-23042
Flammability test chamber Patent
[NASA-CASE-KSC-10126] c 11 N71-24985
Pressure seal Patent
[NASA-CASE-NPO-10796] c 15 N71-27068
Autoignition test cell Patent
[NASA-CASE-KSC-10198] c 11 N71-28629
Orifice gross leak tester Patent
[NASA-CASE-ERC-10150] c 14 N71-28992
Method for measuring biaxial stress in a body subjected to stress inducing loads
[NASA-CASE-MFS-23299-1] c 39 N77-28511
Device and method for frictionally testing materials for ignitability
[NASA-CASE-MSC-20622-1] c 25 N86-19413

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Dynamic Doppler simulator Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391
Apparatus for tensile testing Patent
[NASA-CASE-XKS-06250] c 14 N71-15600
Black-body furnace Patent
[NASA-CASE-XLE-01399] c 33 N71-15625
Thermocouple assembly Patent
[NASA-CASE-XNP-01659] c 14 N71-23039
Automatic fatigue test temperature programmer Patent
[NASA-CASE-XLA-02059] c 33 N71-24276
Pulse rise time and amplitude detector Patent
[NASA-CASE-XMF-08804] c 09 N71-24717
Resilience testing device Patent
[NASA-CASE-XLA-08254] c 14 N71-26161
Validation device for spacecraft checkout equipment Patent
[NASA-CASE-XKS-10543] c 07 N71-26292
Apparatus for testing wiring harness by vibration generating means
[NASA-CASE-MSC-15158-1] c 14 N72-17325
Atmospheric sampling devices
[NASA-CASE-NPO-11373] c 13 N72-25323
Burn rate testing apparatus
[NASA-CASE-XMS-09690] c 33 N72-25913
Linear explosive comparison
[NASA-CASE-LAR-10800-1] c 33 N72-27959
Apparatus for vibrational testing of articles
[NASA-CASE-GSC-11302-1] c 14 N73-13416
Test stand system for vacuum chambers
[NASA-CASE-MFS-21362] c 11 N73-20267
Rocket borne instrument to measure electric fields inside electrified clouds
[NASA-CASE-KSC-10730-1] c 14 N73-32318
Compression test assembly
[NASA-CASE-LAR-10440-1] c 14 N73-32323
Wind tunnel model and method
[NASA-CASE-LAR-10812-1] c 09 N74-17955
Anti-buckling fatigue test assembly --- for subjecting metal specimen to tensile and compressive loads at constant temperature
[NASA-CASE-LAR-10426-1] c 09 N74-19528

Method and apparatus for checking fire detectors
[NASA-CASE-GSC-11600-1] c 35 N74-21019
Battery testing device --- for testing cells of multiple-cell battery
[NASA-CASE-MFS-20761-1] c 44 N74-27519
Signal conditioner test set
[NASA-CASE-KSC-10750-1] c 35 N75-12270
Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c 35 N76-22509
High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c 35 N76-24523
Method of and means for testing a tape record/playback system
[NASA-CASE-MFS-22671-2] c 35 N77-17426
Method of and means for testing a glancing-incidence mirror system of an X-ray telescope
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[NASA-CASE-XGS-04808] c 03 N69-25146
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[NASA-CASE-XNP-08882] c 15 N69-39935
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[NASA-CASE-XMF-00341] c 15 N70-33323
Unfired-ceramic flame-resistant insulation and method of making the same Patent
[NASA-CASE-XMF-01030] c 18 N70-41583
Techniques for insulating cryogenic fuel containers Patent
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[NASA-CASE-XLA-00892] c 33 N71-17897
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[NASA-CASE-XLE-02647] c 18 N71-23658
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Structural heat pipe --- for spacecraft wall thermal insulation system
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[NASA-CASE-MSC-14182-1] c 27 N76-14264

Auger attachment method for insulation --- of spacecraft
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Flexible pile thermal barrier insulator
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[NASA-CASE-MSC-18934-3] c 24 N82-26387
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[NASA-CASE-XMS-03694-1] c 54 N82-29002
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THERMAL PLASMAS
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[NASA-CASE-MFS-14253] c 33 N71-24858
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[NASA-CASE-XLE-00035] c 33 N71-29151
Stand-off type ablative heat shield
[NASA-CASE-MSC-12143-1] c 33 N72-17947
Flexible fire retardant foam
[NASA-CASE-ARC-10180-1] c 28 N72-20767
Flexible fire retardant polyisocyanate modified neoprene foam --- for thermal protective devices
[NASA-CASE-ARC-10180-1] c 27 N74-12814
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[NASA-CASE-ARC-11051-1] c 27 N78-32260
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[NASA-CASE-LAR-12620-1] c 24 N82-32417
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[NASA-CASE-MSC-18832-1] c 27 N83-18908
Silicon-slurry/aluminide coating --- protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795
Thermal barrier coating system having improved adhesion
[NASA-CASE-LEW-1335901] c 27 N83-31855
Covering solid, film cooled surfaces with a duplex thermal barrier coating
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[NASA-CASE-MSC-20254-1] c 16 N84-22601
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[NASA-CASE-LAR-12862-1] c 27 N84-27886
Process for preparing essentially colorless polyimide film containing phenoxy-linked diamines
[NASA-CASE-LAR-13353-1] c 27 N85-20128
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Temperature sensitive capacitor device
[NASA-CASE-XNP-09750] c 14 N69-39937
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[NASA-CASE-XLE-00490] c 33 N70-34545
Thermal radiation shielding Patent
[NASA-CASE-XLE-03432] c 33 N71-24145
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[NASA-CASE-XNP-08961] c 14 N71-24809
Method and construction for protecting heat sensitive bodies from thermal radiation and convective heat Patent
[NASA-CASE-XNP-01310] c 33 N71-28852
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373

THERMAL REACTORS
Non-equilibrium radiation nuclear reactor
[NASA-CASE-HQN-10841-1] c 73 N78-19920

THERMAL RESISTANCE
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[NASA-CASE-XKS-03381] c 09 N71-22796
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[NASA-CASE-LAR-10105-1] c 34 N74-15652
Self-regulating proportionally controlled heating apparatus and technique
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Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-1] c 27 N78-32256
Ambient cure polyimide foams --- thermal resistant foams
[NASA-CASE-ARC-11170-1] c 27 N79-11215
The 1,2,4-oxadiazole elastomers --- heat resistant polymers
[NASA-CASE-ARC-11253-1] c 27 N81-17262
Surface conforming thermal/pressure seal --- tail assemblies of space shuttle orbiters
[NASA-CASE-MSC-18422-1] c 37 N82-16408
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[NASA-CASE-ARC-11421-1] c 27 N84-16340
Heat resistant protective hand covering
[NASA-CASE-MSC-20261-2] c 54 N84-23113
Heat resistant protective hand covering
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Thermal barrier coating system
[NASA-CASE-LEW-13324-2] c 24 N85-21266
Fire resistant polymers based on 1-(diorgano oxyphosphonyl)methyl-2,4- and 2,6-diamino benzenes
[NASA-CASE-ARC-11512-2] c 27 N85-21362
Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl)methyl-2,4- and 2,6-diaminobenzenes
[NASA-CASE-ARC-11533-1] c 27 N85-21364
High temperature polyimide film laminates and process for preparation thereof
[NASA-CASE-LAR-13384-1] c 27 N86-20561
Flexible diaphragm: Extreme temperature usage
[NASA-CASE-MSC-20797-1] c 37 N86-20806

THERMAL SHOCK
Thermal shock apparatus Patent
[NASA-CASE-XLE-02024] c 14 N71-22964
Thermal shock resistant hafnia ceramic material
[NASA-CASE-LAR-10894-1] c 18 N73-14584
Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c 27 N78-17206
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[NASA-CASE-LEW-13269-1] c 18 N83-20996

THERMAL SIMULATION
Thermopile vacuum gage tube simulator Patent
[NASA-CASE-XLA-02758] c 14 N71-18481

THERMAL STABILITY
Bonded solid lubricant coating Patent
[NASA-CASE-XMS-00259] c 18 N70-36400
Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
Metal containing polymers from cyclic tetrameric phenylphosphonitrilamides Patent
[NASA-CASE-HQN-10364] c 06 N71-27363
Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c 27 N74-21156
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315
Sound-suppressing structure with thermal relief
[NASA-CASE-LEW-12658-1] c 71 N79-14871
Infusible silazane polymer and process for producing same --- protective coatings
[NASA-CASE-XMF-02526-1] c 27 N79-21190
Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307
Aluminum ion-containing polyimide adhesives
[NASA-CASE-LAR-12640-1] c 27 N82-11206
Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392
Process for preparing phthalocyanine polymers
[NASA-CASE-ARC-11511-1] c 23 N84-16259
Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] c 27 N84-27884
Sulfone-ester polymers containing pendent ethynyl groups
[NASA-CASE-LAR-13316-1] c 27 N84-28987
High temperature resistant polyimide from tetra ester, diamine, diester and N-arylnadimide
[NASA-CASE-LEW-13864-1] c 27 N86-19457
Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-2] c 27 N86-21675

THERMAL STRESSES
Strain gage Patent Application
[NASA-CASE-FRC-10053] c 14 N70-35587
Multilegged support system Patent
[NASA-CASE-XLA-01326] c 11 N71-21481
Low cycle fatigue testing machine
[NASA-CASE-LAR-10270-1] c 32 N72-25877
Apparatus and method for reducing thermal stress in a turbine rotor
[NASA-CASE-LEW-12232-1] c 07 N79-10057
Method for alleviating thermal stress damage in laminates --- metal matrix composites
[NASA-CASE-LEW-12493-1] c 24 N81-17170
Method for alleviating thermal stress damage in laminates
[NASA-CASE-LEW-12493-2] c 24 N81-26179
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-2] c 37 N82-26674
Daze fasteners
[NASA-CASE-LAR-13009-1] c 37 N85-29285

THERMIONIC CATHODES
Cavity emitter for thermionic converter Patent
[NASA-CASE-NPO-10412] c 09 N71-28421

THERMIONIC CONVERTERS
Triode thermionic energy converter
[NASA-CASE-XLE-01015] c 03 N69-39898
Thermionic converter with current augmented by self induced magnetic field Patent
[NASA-CASE-XLE-01903] c 22 N71-23599
Cavity emitter for thermionic converter Patent
[NASA-CASE-NPO-10412] c 09 N71-28421
Solar cell Patent
[NASA-CASE-ARC-10050] c 03 N71-33409
Uninsulated in-core thermionic diode
[NASA-CASE-NPO-10542] c 09 N72-27228
High current electrical lead --- for thermionic converters
[NASA-CASE-LEW-10950-1] c 33 N74-27683
Electric power generation system directory from laser power
[NASA-CASE-NPO-13308-1] c 36 N75-30524
Nuclear thermionic converter --- tungsten-thorium oxide rods
[NASA-CASE-NPO-13121-1] c 73 N77-18891
High thermal power density heat transfer --- thermionic converters
[NASA-CASE-LEW-12950-1] c 34 N82-11399
Thermionic energy converters
[NASA-CASE-LEW-12443-1] c 44 N83-32175

THERMIONIC DIODES
Heat pipe thermionic diode power system Patent
[NASA-CASE-XMF-05843] c 03 N71-11055
Thermionic diode switch Patent
[NASA-CASE-NPO-10404] c 03 N71-12255
Micro current measuring device using plural logarithmic response heated filamentary type diodes Patent
[NASA-CASE-XNP-00384] c 09 N71-13530
Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114] c 33 N71-27862
Uninsulated in-core thermionic diode
[NASA-CASE-NPO-10542] c 09 N72-27228

THERMIONIC EMITTERS
Thermionic tantalum emitter doped with oxygen Patent Application
[NASA-CASE-NPO-11138] c 03 N70-34646

THERMIONIC POWER GENERATION
Control for nuclear thermionic power source
[NASA-CASE-NPO-13114-2] c 73 N78-28913

High thermal power density heat transfer apparatus providing electrical isolation at high temperature using heat pipes
[NASA-CASE-LEW-12950-2] c 34 N85-29179
Thermionic photovoltaic energy converter
[NASA-CASE-LEW-14077-1] c 44 N85-34441

THERMISTORS
Matched thermistors for microwave power meters Patent
[NASA-CASE-NPO-10348] c 10 N71-12554
Thermistor holder for skin temperature measurements
[NASA-CASE-ARC-10855-1] c 52 N77-10780
Wedge immersed thermistor bolometers
[NASA-CASE-XGS-01245-1] c 35 N79-33449

THERMOCHEMISTRY
Thermochemical generation of hydrogen
[NASA-CASE-NPO-15015-1] c 25 N82-28368

THERMOCHROMATIC MATERIALS
Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-1] c 14 N73-14428
Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-2] c 35 N75-25122

THERMOCOUPLE PYROMETERS
Dual measurement ablation sensor
[NASA-CASE-LAR-10105-1] c 34 N74-15652

THERMOCOUPLES
Heat flux sensor assembly
[NASA-CASE-XMS-05909-1] c 14 N69-27459
Gas cooled high temperature thermocouple Patent
[NASA-CASE-XLE-09475-1] c 33 N71-15568
Weld control system using thermocouple wire Patent
[NASA-CASE-MFS-06074] c 15 N71-20393
Heat sensing instrument Patent
[NASA-CASE-XLA-01551] c 14 N71-22989
Thermocouple assembly Patent
[NASA-CASE-XNP-01659] c 14 N71-23039
Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199
Apparatus for sensing temperature
[NASA-CASE-XLE-05230] c 14 N72-27410
Method of making apparatus for sensing temperature
[NASA-CASE-XLE-05230-2] c 14 N73-13417
Butt welder for fine gauge tungsten/rhenium thermocouple wire
[NASA-CASE-LAR-10103-1] c 15 N73-14468
Thermocouple tape
[NASA-CASE-LEW-11072-1] c 14 N73-24472
Thermocouple tape --- developed from thermoelectrically different metals
[NASA-CASE-LEW-11072-2] c 35 N76-15434
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[NASA-CASE-NPO-13540-1] c 35 N77-14409
Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c 35 N77-32454
Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-2] c 35 N79-14346
Thermocouple, multiple junction reference oven
[NASA-CASE-FRC-10112-1] c 35 N81-26431
Solar energy control system --- temperature measurement
[NASA-CASE-MFS-25287-1] c 44 N82-18686
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Solar engine
[NASA-CASE-LAR-12148-1] c 44 N82-24640

THERMODYNAMIC EFFICIENCY
Automatic compression adjusting mechanism for internal combustion engines
[NASA-CASE-MSC-18807-1] c 37 N83-36483

THERMODYNAMIC PROPERTIES
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[NASA-CASE-XLE-02024] c 14 N71-22964
Foamed in place ceramic refractory insulating material Patent
[NASA-CASE-XGS-02435] c 18 N71-22998
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[NASA-CASE-XNP-06503] c 23 N71-29049
Cobalt-base alloy
[NASA-CASE-LEW-10436-1] c 17 N73-32415
High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-5] c 27 N85-21352

THERMOELECTRIC GENERATORS
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[NASA-CASE-XGS-04808] c 03 N69-25146
Segmenting lead telluride-silicon germanium thermoelements Patent
[NASA-CASE-XGS-05718] c 26 N71-16037
Integrated thermoelectric generator/space antenna combination
[NASA-CASE-XER-09521] c 09 N72-12136
Thermally cascaded thermoelectric generator
[NASA-CASE-NPO-10753] c 03 N72-26031

THERMOELECTRIC MATERIALS
Bonding thermoelectric elements to nonmagnetic refractory metal electrodes
[NASA-CASE-XGS-04554] c 15 N69-39786
Segmenting lead telluride-silicon germanium thermoelements Patent
[NASA-CASE-XGS-05718] c 26 N71-16037
Stabilized lanthanum sulphur compounds --- thermoelectric materials
[NASA-CASE-NPO-16135-1] c 25 N83-24572

THERMOELECTRIC POWER GENERATION
Two-fluid magnetohydrodynamic system and method for thermal-electric power conversion Patent
[NASA-CASE-XNP-00644] c 03 N70-36803
Combined electrolysis device and fuel cell and method of operation Patent
[NASA-CASE-XLE-01645] c 03 N71-20904
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Thermocouple tape
[NASA-CASE-LEW-11072-1] c 14 N73-24472
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[NASA-CASE-NPO-11749] c 14 N73-28486

THERMOLUMINESCENCE
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[NASA-CASE-LAR-10668-1] c 06 N73-16106
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THERMOMAGNETIC EFFECTS
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[NASA-CASE-MSC-12327-1] c 35 N77-27368

THERMOPHYSICAL PROPERTIES
Method for determining thermo-physical properties of specimens --- photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c 25 N74-18551
Apparatus for determining thermophysical properties of test specimens
[NASA-CASE-LAR-11883-1] c 09 N77-27131

THERMOPILES
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[NASA-CASE-XAC-00812] c 14 N71-15598
Horizon sensor with a plurality of fixedly positioned radiation compensated radiation sensitive detectors Patent
[NASA-CASE-XNP-06957] c 14 N71-21088
Irradiance measuring device
[NASA-CASE-NPO-11493] c 14 N73-12447

THERMOPLASTIC FILMS
Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708
Hot melt recharge system --- repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12881-1] c 27 N84-14323
Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] c 27 N84-14324
Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083

THERMOPLASTIC RESINS
Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233
Thermoplastic rubber comprising ethylene-vinyl acetate copolymer, asphalt and fluxing oil
[NASA-CASE-NPO-08835-1] c 27 N78-33228
Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076
Method of making formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-2] c 25 N82-21268
One-step dual purpose joining technique
[NASA-CASE-LAR-12595-1] c 33 N82-26571
Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708
Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176
Polyphenylquinoxalines containing pendant phenylethynyl and ethynyl groups --- for thermoplastic resins
[NASA-CASE-LAR-12838-1] c 27 N83-34040
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[NASA-CASE-LAR-12858-1] c 27 N83-34041
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[NASA-CASE-LAR-12931-1] c 27 N84-22747
Hot melt adhesive attachment pad
[NASA-CASE-LAR-12894-1] c 27 N85-20125
Phenoxy resins containing pendent ethynyl groups and cured resins obtained therefrom
[NASA-CASE-LAR-13262-1] c 23 N85-28973

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Process for preparing thermoplastic aromatic polyimides
[NASA-CASE-LAR-11828-1] c 27 N78-32261
Heat sealable, flame and abrasion resistant coated fabric --- clothing and containers for space exploration
[NASA-CASE-MSC-18382-1] c 27 N82-16238
Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-2] c 27 N84-22746
Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-1] c 27 N85-20123
Process for preparing solvent resistant, thermoplastic aromatic poly(imidesulfone)
[NASA-CASE-LAR-12858-2] c 27 N85-20124
Thermoplastics/thermosetting adhesive specimen bonding
[NASA-CASE-LAR-13066-1] c 27 N86-20564
Copolyimides with a combination of flexibilizing groups
[NASA-CASE-LAR-13354-1] c 27 N86-20566

THERMOREGULATION
Garments for controlling the temperature of the body Patent
[NASA-CASE-XMS-10269] c 05 N71-24147

THERMOSETTING RESINS
Method for molding compounds Patent
[NASA-CASE-XLA-01091] c 15 N71-10672
Method and apparatus for bonding a plastics sleeve onto a metallic body Patent
[NASA-CASE-XLA-01262] c 15 N71-21404
Honeycomb panel and method of making same Patent
[NASA-CASE-XMF-01402] c 18 N71-21651
Method of forming shapes from planar sheets of thermosetting materials
[NASA-CASE-NPO-11036] c 15 N72-24522
Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-2] c 06 N72-27151
Evacuated displacement compression molding
[NASA-CASE-LAR-10782-1] c 31 N74-14133
Method for compression molding of thermosetting plastics utilizing a temperature gradient across the plastic to cure the article
[NASA-CASE-LAR-10489-1] c 31 N74-18124
Evacuated, displacement compression mold --- of tubular bodies from thermosetting plastics
[NASA-CASE-LAR-10782-2] c 31 N75-13111
Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388
Polymeric compositions and their method of manufacture --- forming filled polymer systems using cryogenics
[NASA-CASE-NPO-10424-1] c 27 N81-24258
Elastomer toughened polyimide adhesives
[NASA-CASE-LAR-12775-1] c 27 N83-28240

THERMOSTATS
Thermal switch Patent
[NASA-CASE-XNP-00463] c 33 N70-36847
Thermostatic actuator
[NASA-CASE-NPO-10637] c 15 N72-12409
Thermostatically controlled non-tracking type solar energy concentrator
[NASA-CASE-NPO-13497-1] c 44 N76-14602

THICK FILMS
Screened circuit capacitors
[NASA-CASE-LAR-10294-1] c 26 N72-28762

THICKNESS
Myocardium wall thickness transducer and measuring method
[NASA-CASE-NPO-13644-1] c 52 N76-29895
Thickness measurement system
[NASA-CASE-MFS-23721-1] c 31 N79-28370
Strong thin membrane structure --- solar sails
[NASA-CASE-NPO-14021-2] c 27 N80-16163
Liquid thickness gage
[NASA-CASE-LAR-13342-1] c 35 N85-20297

THIN FILMS
Temperature sensitive capacitor device
[NASA-CASE-XNP-09750] c 14 N69-39937
Means and methods of depositing thin films on substrates Patent
[NASA-CASE-XNP-00595] c 15 N70-34967

Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560
Vacuum deposition apparatus Patent
[NASA-CASE-XMF-01667] c 15 N71-17647
GaAs solar detector using manganese as a doping agent Patent
[NASA-CASE-XNP-01328] c 26 N71-18064
Stable amplifier having a stable quiescent point Patent
[NASA-CASE-XGS-02812] c 09 N71-19466
Evaporant source for vapor deposition Patent
[NASA-CASE-XMF-06065] c 15 N71-20395
Method of electrolytically binding a layer of semiconductors together Patent
[NASA-CASE-XNP-01959] c 26 N71-23043
Vacuum evaporator with electromagnetic ion steering Patent
[NASA-CASE-NPO-10331] c 09 N71-26701
Magnetic recording head and method of making same Patent
[NASA-CASE-GSC-10097-1] c 08 N71-27210
Thin film capacitive bolometer and temperature sensor Patent
[NASA-CASE-NPO-10607] c 09 N71-27232
Microelectronic module package Patent
[NASA-CASE-XMS-02182] c 10 N71-28783
Fabrication of single crystal film semiconductor devices
[NASA-CASE-ERC-10222] c 09 N72-22199
Active microwave irises and windows
[NASA-CASE-LAR-10513-1] c 07 N72-25170
Light regulator
[NASA-CASE-LAR-10836-1] c 26 N72-27784
Thin film microwave iris
[NASA-CASE-LAR-10511-1] c 09 N72-29172
Method of forming transparent films of ZnO
[NASA-CASE-FRC-10019] c 15 N73-12487
Light intensity strain analysis
[NASA-CASE-LAR-10765-1] c 32 N73-20740
Monitoring deposition of films
[NASA-CASE-MFS-20675] c 26 N73-26751
Holographic thin film analyzer
[NASA-CASE-MFS-20823-1] c 16 N73-30476
Transparent switchboard
[NASA-CASE-MSC-13746-1] c 10 N73-32143
Method for determining thermo-physical properties of specimens --- photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c 25 N74-18551
Method of preparing water purification membranes --- polymerization of allyl amine as thin films in plasma discharge
[NASA-CASE-ARC-10643-1] c 25 N75-12087
System for depositing thin films
[NASA-CASE-MFS-20775-1] c 31 N75-12161
Method of producing a storage bulb for an atomic hydrogen maser
[NASA-CASE-NPO-13050-1] c 36 N75-15029
Integrated structure vacuum tube
[NASA-CASE-ARC-10445-1] c 31 N76-31365
Method of forming metal hydride films
[NASA-CASE-LEW-12083-1] c 37 N78-13436
Strong thin membrane structure --- solar sails
[NASA-CASE-NPO-14021-2] c 27 N80-16163
Method of forming dynamic membrane on stainless steel support
[NASA-CASE-MSC-18172-1] c 26 N80-19237
Partial interlaminar separation system for composites
[NASA-CASE-LAR-12065-1] c 24 N81-14000
Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015
Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590
Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] c 27 N84-33589
Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112
Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] c 31 N85-20153
A process to produce fine line metallic collection patterns on semiconductors devices
[NASA-CASE-NPO-16413-1] c 26 N85-21325
A method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N86-20128
Method of producing high T superconducting NbN films
[NASA-CASE-NPO-16681-1-CU] c 76 N86-21401

THIN PLATES
Dichroic plate --- as bandpass filters
[NASA-CASE-NPO-13506-1] c 35 N76-15435
Adjustable securing base
[NASA-CASE-MSC-19666-1] c 37 N78-17383

THIN WALLED SHELLS
Thin-walled pressure vessel Patent
[NASA-CASE-XLE-04677] c 15 N71-10577

THIN WALLS
Channel-type shell construction for rocket engines and the like Patent
[NASA-CASE-XLE-00144] c 28 N70-34860
Sealed separable connection Patent
[NASA-CASE-NPO-10064] c 15 N71-17693
Low mass truss structure
[NASA-CASE-LAR-10546-1] c 11 N72-25287
Differential pressure control
[NASA-CASE-MFS-14216] c 14 N73-13418
Method of fabricating an article with cavities --- with thin bottom walls
[NASA-CASE-LAR-10318-1] c 31 N74-18089
Method of fabricating an object with a thin wall having a precisely shaped slit
[NASA-CASE-LAR-10409-1] c 31 N74-21059

THORIUM FLUORIDES
Ultraviolet filter
[NASA-CASE-XNP-02340] c 23 N69-24332

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Nuclear thermionic converter --- tungsten-thorium oxide rods
[NASA-CASE-NPO-13121-1] c 73 N77-18891

THREADS
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[NASA-CASE-XMF-04966] c 14 N71-17658
Threadless fastener apparatus Patent
[NASA-CASE-XFR-05302] c 15 N71-23254

THREE AXIS STABILIZATION
Three axis attitude control system
[NASA-CASE-GSC-12970-1] c 08 N86-20396

THREE DIMENSIONAL MOTION
Solid state controller three axes controller
[NASA-CASE-MSC-12394-1] c 08 N74-10942

THRESHOLD GATES
Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential
[NASA-CASE-GSC-11425-2] c 76 N75-25730

THRESHOLD LOGIC
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[NASA-CASE-XLA-07497] c 09 N71-12514

THROATS
Method of making a rocket nozzle
[NASA-CASE-XMF-06884-1] c 20 N79-21123

THRUST AUGMENTATION
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[NASA-CASE-XLA-00154] c 28 N70-33374
Construction and method of arranging a plurality of ion *engines to form a cluster Patent*
[NASA-CASE-XNP-02923] c 28 N71-23081
Reversed cowl flap inlet thrust augmentor --- with adjustable airfoil
[NASA-CASE-ARC-10754-1] c 07 N75-24736
Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-18039
Thrust augmented spin recovery device
[NASA-CASE-LAR-11970-2] c 08 N81-19130

THRUST BEARINGS
Thrust bearing
[NASA-CASE-LEW-11949-1] c 37 N76-29588

THRUST CHAMBER PRESSURE
Pitch attitude stabilization system utilizing engine pressure ratio feedback signals
[NASA-CASE-LAR-12562-1] c 08 N81-26152

THRUST CHAMBERS
Rocket chamber leak test fixture
[NASA-CASE-XFR-09479] c 14 N69-27503
Supporting and protecting device Patent
[NASA-CASE-XMF-00580] c 11 N70-35383
Rocket thrust chamber Patent
[NASA-CASE-XLE-00145] c 28 N70-36806
Method of making a rocket motor casing Patent
[NASA-CASE-XLE-00409] c 28 N71-15658
Rocket motor casing Patent
[NASA-CASE-XLE-05689] c 28 N71-15659
Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736
Injection head for delivering liquid fuel and oxidizers
[NASA-CASE-NPO-10046] c 28 N72-17843
Fluidic proportional thruster system
[NASA-CASE-ARC-10106-1] c 28 N72-22769
Ion thruster
[NASA-CASE-LEW-10770-1] c 28 N72-22770
Thermal flux transfer system
[NASA-CASE-NPO-12070-1] c 28 N73-32606
Heat exchanger --- rocket combustion chambers and cooling systems
[NASA-CASE-LEW-12252-1] c 34 N79-13288
Heat exchanger and method of making --- bonding rocket chambers with a porous metal matrix
[NASA-CASE-LEW-12441-1] c 34 N79-13289

THRUST CONTROL
Electromechanical actuator
[NASA-CASE-XNP-05975] c 15 N69-23185
Apparatus and method for control of a solid fueled rocket vehicle Patent
[NASA-CASE-XNP-00217] c 28 N70-38181
Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629
Continuous detonation reaction engine Patent
[NASA-CASE-XMF-06926] c 28 N71-22983
High efficiency ionizer assembly Patent
[NASA-CASE-XNP-01954] c 28 N71-28850
Heated porous plug microthrustor
[NASA-CASE-GSC-10640-1] c 28 N72-18766
Multi-purpose wind tunnel reaction control model block
[NASA-CASE-MSC-19706-1] c 09 N78-31129
Fluid thrust control system --- for liquid propellant rocket engines
[NASA-CASE-XMF-05964-1] c 20 N79-21124

THRUST LOADS
Thrust measurement
[NASA-CASE-XMS-05731] c 35 N75-29382

THRUST MEASUREMENT
Thrust dynamometer Patent
[NASA-CASE-XLE-00702] c 14 N70-40203
Thrust dynamometer Patent
[NASA-CASE-XLE-05260] c 14 N71-20429
Precision thrust gage Patent
[NASA-CASE-XGS-02319] c 14 N71-22965
Micro-pound extended range thrust stand Patent
[NASA-CASE-GSC-10710-1] c 28 N71-27094

THRUST REVERSAL
Thrust reverser for a long duct fan engine --- for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293

THRUST VECTOR CONTROL
Thrust vector control apparatus Patent
[NASA-CASE-XLE-00208] c 28 N70-34294
Velocity package Patent
[NASA-CASE-XLA-01339] c 31 N71-15692
Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173
Tertiary flow injection thrust vectoring system Patent
[NASA-CASE-MFS-20831] c 28 N71-29153
Flight control system
[NASA-CASE-MSC-13397-1] c 21 N72-25595
Rocket thrust throttling system
[NASA-CASE-LEW-10374-1] c 28 N73-13773
System for imposing directional stability on a rocket-propelled vehicle
[NASA-CASE-MFS-21311-1] c 20 N76-21275

THRUST-WEIGHT RATIO
Missile launch release system Patent
[NASA-CASE-XMF-03198] c 30 N70-40353

THYRISTORS
Electrical power generating system --- for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280
Pulsed thyristor trigger control circuit
[NASA-CASE-MFS-25616-1] c 33 N84-16455
Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N84-27975
Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661

TILES
Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c 27 N76-14264
High temperature emittance coatings and coating compositions --- repairing damaged space shuttle tiles in space
[NASA-CASE-MSC-18851-1] c 27 N82-26460
Attachment system for silica tiles --- thermal protection for space shuttle orbiter
[NASA-CASE-MSC-18741-1] c 27 N82-29456
Method for repair of thin glass coatings --- on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520
Densification of porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18737-1] c 24 N83-13171
Method of repairing surface damage to porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18736-1] c 24 N83-13172
Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482
Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] c 27 N84-27886
Mechanical fastener
[NASA-CASE-LAR-12738-2] c 37 N85-30335

TILT WING AIRCRAFT
Free wing assembly for an aircraft
[NASA-CASE-FRC-10092-1] c 05 N79-12061
TIME CONSTANT
Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964
TIME DEPENDENCE
Instrument for determining coincidence and elapse time between independent sources of random sequential events
[NASA-CASE-LAR-12531-1] c 35 N83-29651
TIME DISCRIMINATION
Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00381] c 09 N70-34819
TIME DIVISION MULTIPLEXING
Time division multiplex system
[NASA-CASE-XGS-05918] c 07 N69-39974
Time-division multiplexer Patent
[NASA-CASE-XNP-00431] c 09 N70-38998
Data processor having multiple sections activated at different times by selective power coupling to the sections Patent
[NASA-CASE-XGS-04767] c 08 N71-12494
Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506
Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773
Signal processing apparatus for multiplex transmission Patent
[NASA-CASE-NPO-10388] c 07 N71-24622
Programmable telemetry system Patent
[NASA-CASE-GSC-10131-1] c 07 N71-24624
High dynamic global positioning system receiver
[NASA-CASE-NPO-16171-1-CU] c 04 N84-12151
TIME FUNCTIONS
Single or joint amplitude distribution analyzer Patent
[NASA-CASE-XNP-01383] c 09 N71-10659
TIME LAG
Closed loop ranging system Patent
[NASA-CASE-XNP-01501] c 21 N70-41930
Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506
Signal phase estimator
[NASA-CASE-NPO-11203] c 10 N72-20224
Automatic transponder --- measurement of the internal delay time of a transponder
[NASA-CASE-GSC-12075-1] c 32 N77-31350
Time delay and integration detectors using charge transfer devices
[NASA-CASE-GSC-12324-1] c 33 N81-33403
TIME MEASUREMENT
Time domain phase measuring apparatus
[NASA-CASE-GSC-12228-1] c 33 N79-10338
Synchronization tracking in pulse position modulation receiver
[NASA-CASE-NPO-16256-1] c 32 N84-32620
TIME MEASURING INSTRUMENTS
Measurement of time differences between luminous events Patent
[NASA-CASE-XLA-01987] c 23 N71-23976
Error correction method and apparatus for electronic timepieces
[NASA-CASE-LAR-12654-1] c 33 N83-36357
TIME OF FLIGHT SPECTROMETERS
Time of flight mass spectrometer with feedback means from the detector to the low source and a specific counter Patent
[NASA-CASE-XNP-01056] c 14 N71-23041
TIME SERIES ANALYSIS
Apparatus for statistical time-series analysis of electrical signals
[NASA-CASE-MSC-12428-1] c 10 N73-25240
TIME SHARING
Integrated time shared instrumentation display Patent
[NASA-CASE-XLA-01952] c 08 N71-12507
TIME SIGNALS
System for monitoring signal amplitude ranges
[NASA-CASE-XMS-04061-1] c 09 N69-39885
Method of resolving clock synchronization error and means therefor Patent
[NASA-CASE-XNP-08875] c 10 N71-23099
Time synchronization system utilizing moon reflected coded signals Patent
[NASA-CASE-NPO-10143] c 10 N71-26326
Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137
System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c 33 N75-19519
Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186
TIMING DEVICES
Synchronous servo loop control system Patent
[NASA-CASE-XNP-03744] c 10 N71-20448
Method of resolving clock synchronization error and means therefor Patent
[NASA-CASE-XNP-08875] c 10 N71-23099
Resettable monostable pulse generator Patent
[NASA-CASE-GSC-11139] c 09 N71-27016
Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255
High speed photo-optical time recording
[NASA-CASE-KSC-10294] c 14 N72-18411
TIPS
Thin wire pointing method
[NASA-CASE-NPO-15789-1] c 31 N83-19947
TIRES
Excessive temperature warning system Patent
[NASA-CASE-XLA-01926] c 14 N71-15620
Resilient wheel Patent
[NASA-CASE-MFS-13929] c 15 N71-27091
TISSUES (BIOLOGY)
Servo-controlled intravital microscope system
[NASA-CASE-NPO-13214-1] c 35 N75-25123
Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MSC-14276-1] c 52 N77-14737
System for and method of freezing biological tissue
[NASA-CASE-GSC-12173-1] c 51 N79-10694
Coupling apparatus for ultrasonic medical diagnostic system
[NASA-CASE-NPO-13935-1] c 52 N79-14751
Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means
[NASA-CASE-NPO-13910-1] c 52 N79-27836
Multifunctional transducer
[NASA-CASE-NPO-14329-1] c 52 N81-20703
Enhancement of in vitro guayule propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045
Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618
TITANATES
Synthesis of zinc titanate pigment and coatings containing the same
[NASA-CASE-MFS-13532] c 18 N72-17532
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Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443
Weld-bonded titanium structures
[NASA-CASE-LAR-11549-1] c 37 N77-11397
Method of mitigating titanium impurities effects in p-type silicon material for solar cells
[NASA-CASE-NPO-14635-1] c 44 N80-24741
Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] c 36 N84-22944
TITANIUM ALLOYS
Method of inhibiting stress corrosion cracks in titanium alloys Patent
[NASA-CASE-NPO-10271] c 17 N71-16393
Nondestructive spot test method for titanium and titanium alloys
[NASA-CASE-LAR-10539-1] c 17 N73-12547
Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] c 36 N84-22944
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Improved refractory coatings --- sputtered coatings on substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209
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Method of preparing zinc orthotitanate pigment
[NASA-CASE-MFS-23345-1] c 27 N77-30237
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Universal restrainer and joint Patent
[NASA-CASE-XNP-02278] c 15 N71-28951
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Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] c 23 N84-16255
TOMOGRAPHY
System for plotting subsoil structure and method therefor
[NASA-CASE-NPO-14191-1] c 31 N80-32584
Three-dimensional and tomographic imaging device for X-ray and gamma-ray emitting objects
[NASA-CASE-GSC-12851-1] c 35 N85-30281
TOOLS
Tool attachment for spreading loose elements away from work Patent
[NASA-CASE-XMF-02107] c 15 N71-10809
Adjustable attitude guide device Patent
[NASA-CASE-XLA-07911] c 15 N71-15571
Tube dimpling tool Patent
[NASA-CASE-XMS-06876] c 15 N71-21536
Stud-bonding gun
[NASA-CASE-MFS-20299] c 15 N72-11392
Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c 37 N74-25968
Stator rotor tools
[NASA-CASE-MSC-16000-1] c 37 N78-24544
Computer circuit card puller
[NASA-CASE-FRC-11042-1] c 60 N82-24839
Open ended tubing cutters
[NASA-CASE-MSC-18538-1] c 37 N82-26672
Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482
Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N84-28085
Connection system --- insuring against loss of a tool component without using multiple tethers
[NASA-CASE-MSC-20319-1] c 37 N85-21649
TOOTH DISEASES
Process for the preparation of brushite crystals
[NASA-CASE-ERC-10338] c 04 N72-33072
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Method for observing the features characterizing the surface of a land mass
[NASA-CASE-FRC-11013-1] c 43 N81-17499
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Apparatus for welding torch angle and seam tracking control Patent
[NASA-CASE-XMF-03287] c 15 N71-15607
Electric welding torch Patent
[NASA-CASE-XMF-02330] c 15 N71-23798
Computerized system for translating a torch head
[NASA-CASE-MFS-23620-1] c 37 N79-10421
Welding torch arc light reflector
[NASA-CASE-MFS-29134-1] c 74 N86-20130
TOROIDAL SHELLS
Toroidal cell and battery --- storage battery for high amp-hour load applications
[NASA-CASE-LEW-12918-1] c 44 N81-24521
TOROIDS
Flux sensing device using a tubular core with toroidal gating coil and solenoidal output coil wound thereon Patent
[NASA-CASE-XGS-01881] c 09 N70-40123
Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017
TORQUE
Bidirectional step torque filter with zero backlash characteristic Patent
[NASA-CASE-XGS-04227] c 15 N71-21744
Isolation coupling arrangement for a torque measuring system
[NASA-CASE-XLA-04897] c 15 N72-22482
High-torque open-end wrench
[NASA-CASE-NPO-13541-1] c 37 N79-14383
Acoustic driving of rotor
[NASA-CASE-NPO-14005-1] c 71 N79-20827
Magnetic field control --- electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569
Missile rolling tail brake torque system --- simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231
Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] c 37 N84-28084
Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400
Dual towline spin-recovery device
[NASA-CASE-LAR-13076-1] c 08 N85-35200
Fluidic momentum controller
[NASA-CASE-MSC-20906-1] c 18 N86-19344
TORQUE MOTORS
Low speed phaselock speed control system --- for brushless dc motor
[NASA-CASE-GSC-11127-1] c 09 N75-24758
Magnetic bearing and motor
[NASA-CASE-GSC-12726-1] c 37 N83-34323
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Optical torquemeter Patent
[NASA-CASE-XLE-00503] c 14 N70-34818
Balance torquemeter Patent
[NASA-CASE-XGS-01013] c 14 N71-23725
Pressure suit joint analyzer
[NASA-CASE-ARC-11314-1] c 54 N82-26987
TORSION
Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N86-20804
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Restraint torso for a pressurized suit
[NASA-CASE-MSC-12397-1] c 05 N72-25119
Spacesuit torso closure
[NASA-CASE-ARC-11100-1] c 54 N78-31736
Torso sizing ring construction for hard space suit
[NASA-CASE-ARC-11616-1] c 54 N85-21987

TOUCH
Mechanically actuated triggered hand
[NASA-CASE-MFS-20413] c 15 N72-21463
Method for measuring cutaneous sensory perception
[NASA-CASE-MSC-13609-1] c 05 N72-25122
Tactile sensing means for prosthetic limbs
[NASA-CASE-MFS-16570-1] c 05 N73-32013

TOUGHNESS
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380
High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1SB] c 24 N86-21590

TOWERS
Aerial capsule emergency separation device Patent
[NASA-CASE-XLA-00115] c 03 N70-33343

TOXICITY
Glass compositions with a high modulus of elasticity --- nontoxic glass fibers
[NASA-CASE-HQN-10274-1] c 27 N82-29451

TOXICITY AND SAFETY HAZARD
Apparatus for remote handling of materials --- mixing or analyzing dangerous chemicals
[NASA-CASE-LAR-10634-1] c 37 N74-18123

TOXICOLOGY
Exposure system for animals Patent
[NASA-CASE-XAC-05333] c 11 N71-22875

TRACE CONTAMINANTS
Microbalance including crystal oscillators for measuring contaminates in a gas system Patent
[NASA-CASE-NPO-10144] c 14 N71-17701
Method for removing oxygen impurities from cesium Patent
[NASA-CASE-XNP-04262-2] c 17 N71-26773
Electric discharge for treatment of trace contaminants
[NASA-CASE-ARC-10975-1] c 33 N79-15245
Nebulization reflux concentrator
[NASA-CASE-LAR-13254-1] c 31 N85-20154

TRACE ELEMENTS
Ion microprobe mass spectrometer for analyzing fluid materials Patent
[NASA-CASE-ERC-10014] c 14 N71-28863
Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c 25 N76-18245
Nulling device for detection of trace gases by NDIR absorption
[NASA-CASE-ARC-10760-1] c 25 N76-22323
Thermoluminescent aerosol analysis
[NASA-CASE-LAR-12046-1] c 25 N78-15210

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Improvements in tank tread assemblies
[NASA-CASE-NPO-16321-1] c 37 N85-29291

TRACKING (POSITION)
Plurality of photosensitive cells on a pyramidical base for planetary trackers
[NASA-CASE-XNP-04180] c 07 N69-39736
Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699
Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125
Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c 35 N77-20401
System and method for tracking a signal source --- employing feedback control
[NASA-CASE-HQN-10880-1] c 17 N78-17140
Sun tracking solar energy collector
[NASA-CASE-NPO-13921-1] c 44 N79-14526

TRACKING FILTERS
Automatic acquisition system for phase-lock loop
[NASA-CASE-XGS-04994] c 09 N69-21543
Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c 33 N79-11313
PN lock indicator for dithered PN code tracking loop
[NASA-CASE-NPO-14435-1] c 33 N81-33405
Apparatus and method for tracking the fundamental frequency of an analog input signal
[NASA-CASE-ARC-11367-1] c 33 N83-21238

TRACKING RADAR
Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460
Phase-locked loop with sideband rejecting properties Patent
[NASA-CASE-XNP-02723] c 07 N70-41680
Radar antenna system for acquisition and tracking Patent
[NASA-CASE-XMS-09610] c 07 N71-24625
Acquisition and tracking system for optical radar
[NASA-CASE-MFS-20125] c 16 N72-13437
Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] c 32 N84-27951

TRACKING STATIONS
Optical monitor panel Patent
[NASA-CASE-XKS-03509] c 14 N71-23175
Simultaneous acquisition of tracking data from two stations
[NASA-CASE-NPO-13292-1] c 32 N75-15854

TRAFFIC CONTROL
Traffic survey system --- using optical scanners
[NASA-CASE-MFS-22631-1] c 66 N76-19888

TRAILERS
Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288

TRAILING EDGES
Pumped vortex
[NASA-CASE-LAR-12625-1] c 02 N83-19715

TRAILING-EDGE FLAPS
Double hinged flap Patent
[NASA-CASE-XLA-01290] c 02 N70-42016
Variable area exhaust nozzle
[NASA-CASE-LEW-12378-1] c 07 N79-14097

TRAINING DEVICES
Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-1] c 09 N84-12193

TRAINING SIMULATORS
Mechanical simulator of low gravity conditions Patent
[NASA-CASE-MFS-10555] c 11 N71-19494
Subgravity simulator Patent
[NASA-CASE-XMS-04798] c 11 N71-21474
Kinesthetic control simulator --- for pilot training
[NASA-CASE-LAR-10276-1] c 09 N75-15662

TRAJECTORY ANALYSIS
Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
[NASA-CASE-XNP-00708] c 14 N70-35394
Method of planetary atmospheric investigation using a split-trajectory dual flyby mode Patent
[NASA-CASE-XAC-08494] c 30 N71-15990

TRAJECTORY CONTROL
Trajectory-correction propulsion system Patent
[NASA-CASE-XNP-01104] c 28 N70-39931
Technique for control of free-flight rocket vehicles Patent
[NASA-CASE-XLA-00937] c 31 N71-17691
Apparatus for automatically stabilizing the attitude of a nonguided vehicle
[NASA-CASE-ARC-10134] c 30 N72-17873

TRANSDUCERS
Pressure variable capacitor
[NASA-CASE-XNP-09752] c 14 N69-21541
Bootstrap unloader Patent
[NASA-CASE-XNP-09768] c 09 N71-12516
Vibrating structure displacement measuring instrument Patent
[NASA-CASE-XLA-03135] c 32 N71-16428
Contour surveying system Patent
[NASA-CASE-XLA-08646] c 14 N71-17586
Rotary bead dropper and selector for testing micrometeorite detectors Patent
[NASA-CASE-XGS-03304] c 09 N71-22988
Self-calibrating displacement transducer Patent
[NASA-CASE-XLA-00781] c 09 N71-22999
Extensometer frame
[NASA-CASE-XLA-10322] c 15 N72-17452
Split range transducer
[NASA-CASE-XLA-11189] c 10 N72-20222
Pulsed excitation voltage circuit for transducers
[NASA-CASE-FRC-10036] c 09 N72-22200
Magnifying scratch gage force transducer
[NASA-CASE-LAR-10496-1] c 14 N72-22437
Intruder detection system
[NASA-CASE-ARC-10097-2] c 07 N73-25160
Acoustical transducer calibrating system and apparatus
[NASA-CASE-FRC-10060-1] c 14 N73-27379
Demodulator for carrier transducers
[NASA-CASE-NUC-10107-1] c 33 N74-17930
LC-oscillator with automatic stabilized amplitude via bias current control --- power supply circuit for transducers
[NASA-CASE-MFS-21698-1] c 33 N74-26732
Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27566
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c 33 N75-19520
Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329
Self-supporting strain transducer
[NASA-CASE-LAR-11263-1] c 35 N75-33369
Miniature muscle displacement transducer
[NASA-CASE-NPO-13519-1] c 33 N76-19338
Method and apparatus for nondestructive testing of pressure vessels
[NASA-CASE-NPO-12142-1] c 38 N76-28563
Myocardium wall thickness transducer and measuring method
[NASA-CASE-NPO-13644-1] c 52 N76-29895
Solar cell angular position transducer
[NASA-CASE-LAR-11999-1] c 44 N80-18552
Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072
Multifunctional transducer
[NASA-CASE-NPO-14329-1] c 52 N81-20703
Photomechanical transducer
[NASA-CASE-NPO-14363-1] c 39 N81-25400
Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470
Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015
Strain gage calibration
[NASA-CASE-LAR-12743-1] c 35 N84-28019
Thin film strain transducer --- suitable for in-flight measurement of scientific balloon strain
[NASA-CASE-WLP-10055-2] c 35 N85-21598
Gravity enhanced acoustic levitation method and apparatus
[NASA-CASE-NPO-16147-1-CU] c 71 N85-29693
Single mode levitation and translation
[NASA-CASE-NPO-16675-1-CU] c 71 N86-20087

TRANSFER FUNCTIONS
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333

TRANSFORMERS
Signal multiplexer
[NASA-CASE-XGS-01110] c 07 N69-24334
Insertion loss measuring apparatus having transformer means connected across a pair of bolometers Patent
[NASA-CASE-XNP-01193] c 10 N71-16057
Saturation current protection apparatus for saturable core transformers Patent
[NASA-CASE-ERC-10075] c 09 N71-24800
Unsaturating saturable core transformer Patent
[NASA-CASE-ERC-10125] c 09 N71-24893
Electronically resettable fuse Patent
[NASA-CASE-XGS-11177] c 09 N71-27001
Voltage regulator Patent
[NASA-CASE-ERC-10113] c 09 N71-27053
Radial heat flux transformer
[NASA-CASE-NPO-10828] c 33 N72-17948
Saturation current protection apparatus for saturable core transformers
[NASA-CASE-ERC-10075-2] c 09 N72-22196
Failsafe multiple transformer circuit configuration
[NASA-CASE-NPO-11078] c 09 N72-25262
Banded transformer cores
[NASA-CASE-NPO-11966-1] c 33 N74-17928
Solid-state current transformer
[NASA-CASE-MFS-22560-1] c 33 N77-14335
Transformer regulated self-stabilizing chopper
[NASA-CASE-XGS-09186] c 33 N78-17295
Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18193
Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257
System for automatically switching transformer coupled lines
[NASA-CASE-MSC-16697-1] c 33 N79-28415
Three phase power factor controller
[NASA-CASE-MFS-25535-1] c 33 N81-12330
Base drive for paralleled inverter systems
[NASA-CASE-NPO-14163-1] c 33 N81-14220
Low current linearization of magnetic amplifier for dc transducer
[NASA-CASE-NPO-14617-1] c 33 N81-24338
Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404
Non-contacting power transfer device
[NASA-CASE-GSC-12595-1] c 33 N82-24422
High voltage isolation transformer
[NASA-CASE-GSC-12817-1] c 33 N85-29146

TRANSIENT HEATING
Thermocouple installation
[NASA-CASE-NPO-13540-1] c 35 N77-14409
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373

TRANSIENT LOADS
Deployable solar cell array
[NASA-CASE-NPO-10883] c 31 N72-22874

TRANSISTOR AMPLIFIERS
Apparatus for overcurrent protection of a push-pull amplifier Patent
[NASA-CASE-MSC-12033-1] c 09 N71-13531
TRANSISTOR CIRCUITS
Low power drain semi-conductor circuit
[NASA-CASE-XGS-04999] c 09 N69-24317
Ring counter
[NASA-CASE-XGS-03095] c 09 N69-27463
Pulse counting circuit which simultaneously indicates the occurrence of the nth pulse Patent
[NASA-CASE-XMF-00906] c 09 N70-41655
Linear sawtooth voltage-wave generator employing transistor timing circuit having capacitor-zener diode combination feedback Patent
[NASA-CASE-XMS-01315] c 09 N70-41675
Switching circuit employing regeneratively connected complementary transistors Patent
[NASA-CASE-XNP-02654] c 10 N70-42032
High voltage transistor circuit Patent
[NASA-CASE-XNP-06937] c 09 N71-19516
Complementary regenerative switch Patent
[NASA-CASE-XGS-02751] c 09 N71-23015
Transistor drive regulator Patent
[NASA-CASE-LEW-10233] c 10 N71-27126
Multiple slope sweep generator Patent
[NASA-CASE-XMS-03542] c 09 N71-28926
Broadband video process with very high input impedance
[NASA-CASE-NPO-10199] c 09 N72-17156
Ultra-stable oscillator with complementary transistors
[NASA-CASE-GSC-11513-1] c 33 N74-20862
Inrush current limiter
[NASA-CASE-GSC-11789-1] c 33 N77-14333
Temperature compensated current source
[NASA-CASE-MSC-11235] c 33 N78-17294
Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404
Power converter
[NASA-CASE-FRC-11014-1] c 33 N82-18494
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Power supply circuit Patent
[NASA-CASE-XMS-00913] c 10 N71-23543
Switching circuit Patent
[NASA-CASE-XNP-06505] c 10 N71-24799
Cascaded complementary pair broadband transistor amplifiers Patent
[NASA-CASE-NPO-10003] c 10 N71-26415
Fast response low power drain logic circuits
[NASA-CASE-GSC-10878-1] c 10 N72-22236
Coaxial inverted geometry transistor having buried emitter
[NASA-CASE-ARC-10330-1] c 09 N73-32112
Four phase logic systems --- including integrated microcircuits
[NASA-CASE-MSC-14240-1] c 33 N75-14957
Complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c 33 N79-12321
Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257
Base drive for paralleled inverter systems
[NASA-CASE-NPO-14163-1] c 33 N81-14220
Four quadrant control circuit for a brushless three phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N86-20682
TRANSITION FLOW
Ablation article and method
[NASA-CASE-LAR-10439-1] c 33 N73-27796
TRANSITION TEMPERATURE
Process for preparing thermoplastic aromatic polyimides
[NASA-CASE-LAR-11828-1] c 27 N78-32261
Copolyimides with a combination of flexibilizing groups
[NASA-CASE-LAR-13354-1] c 27 N86-20566
Method of producing high T superconducting NbN films
[NASA-CASE-NPO-16681-1-CU] c 76 N86-21401
TRANSLATIONAL MOTION
Centrifuge mounted motion simulator Patent
[NASA-CASE-XAC-00399] c 11 N70-34815
Translating horizontal tail Patent
[NASA-CASE-XLA-08801-1] c 02 N71-11043
Semi-linear ball bearing Patent
[NASA-CASE-XLA-02809] c 15 N71-22982
Positioning mechanism
[NASA-CASE-NPO-10679] c 15 N72-21462
TRANSLATORS
Serial data correlator/code translator
[NASA-CASE-KSC-11025-1] c 32 N83-13323
TRANSLUCENCE
Light transmitting window assembly
[NASA-CASE-MSC-18417-1] c 74 N85-29750
TRANSMISSION CIRCUITS
Beam forming network
[NASA-CASE-NPO-15743-1] c 32 N85-29118
TRANSMISSION EFFICIENCY
Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver
[NASA-CASE-MFS-21470-1] c 44 N74-19870
Linear phase demodulator including a phase locked loop with auxiliary feedback loop
[NASA-CASE-GSC-12018-1] c 33 N77-14334
TRANSMISSION LINES
Validation device for spacecraft checkout equipment Patent
[NASA-CASE-XKS-10543] c 07 N71-26292
Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
Phase modulator Patent
[NASA-CASE-MSC-13201-1] c 07 N71-28429
Shielded flat cable
[NASA-CASE-MFS-13687-2] c 09 N72-22198
Phase control circuits using frequency multiplications for phased array antennas
[NASA-CASE-ERC-10285] c 10 N73-16206
Phase protection system for ac power lines
[NASA-CASE-MSC-17832-1] c 33 N74-14956
System for stabilizing cable phase delay utilizing a coaxial cable under pressure
[NASA-CASE-NPO-13138-1] c 33 N74-17927
Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310
System for automatically switching transformer coupled lines
[NASA-CASE-MSC-16697-1] c 33 N79-28415
A process to produce fine line metallic collection patterns on semiconductors devices
[NASA-CASE-NPO-16413-1] c 26 N85-21325
TRANSMISSIONS (MACHINE ELEMENTS)
Compensating linkage for main rotor control
[NASA-CASE-LAR-11797-1] c 05 N81-19087
Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] c 37 N84-28084
TRANSMISSIVITY
Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28389
TRANSMITTANCE
Light transmitting window assembly
[NASA-CASE-MSC-18417-1] c 74 N85-29750
TRANSMITTER RECEIVERS
Integrated thermoelectric generator/space antenna combination
[NASA-CASE-XER-09521] c 09 N72-12136
Location identification system
[NASA-CASE-ERC-10324] c 07 N72-25173
Automatic vehicle location system
[NASA-CASE-NPO-11850-1] c 32 N74-12912
Digital communication system
[NASA-CASE-MSC-13912-1] c 32 N74-30524
TRANSMITTERS
Temperature telemetric transmitter Patent
[NASA-CASE-NPO-10649] c 07 N71-24840
Two carrier communication system with single transmitter
[NASA-CASE-NPO-11548] c 07 N73-26118
Miniature multichannel biotelemeter system
[NASA-CASE-NPO-13065-1] c 52 N74-26625
Digital transmitter for data bus communications system
[NASA-CASE-MSC-14558-1] c 32 N75-21486
Apparatus for endoscopic examination --- analysis of the propulsion system configuration and transmitter
[NASA-CASE-NPO-14092-1] c 52 N80-16725
A single frequency multitransmitter telemetry system
[NASA-CASE-LAR-13006-1] c 17 N83-20995
TRANSONIC SPEED
Leading edge curvature based on convective heating Patent
[NASA-CASE-XLA-01486] c 01 N71-23497
TRANSONIC WIND TUNNELS
Wind tunnel test section
[NASA-CASE-MFS-20509] c 11 N72-17183
TRANSPARENCE
Helmet assembly and latch means therefor Patent
[NASA-CASE-XMS-04935] c 05 N71-11190
Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c 74 N77-28932
Method of fabricating a photovoltaic module of a substantially transparent construction
[NASA-CASE-NPO-14303-1] c 44 N80-18550
Process for preparing essentially colorless polyimide film containing phenoxy-linked diamines
[NASA-CASE-LAR-13353-1] c 27 N85-20128
Process for preparing highly optically transparent-colorless armomatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N85-21360
Light transmitting window assembly
[NASA-CASE-MSC-18417-1] c 74 N85-29750
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Rocket chamber and method of making
[NASA-CASE-LEW-11118-2] c 20 N76-14191
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Dynamic Doppler simulator Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391
Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118
Code regenerative clean-up loop transponder for a mu-type ranging system
[NASA-CASE-NPO-11707] c 07 N73-25161
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[NASA-CASE-NPO-11850-1] c 32 N74-12912
Simultaneous acquisition of tracking data from two stations
[NASA-CASE-NPO-13292-1] c 32 N75-15854
Automatic transponder --- measurement of the internal delay time of a transponder
[NASA-CASE-GSC-12075-1] c 32 N77-31350
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[NASA-CASE-KSC-11155-1] c 04 N86-19304
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[NASA-CASE-XMF-00580] c 11 N70-35383
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[NASA-CASE-NPO-15949-1] c 85 N85-34722
TRANSVERSE ACCELERATION
Rim inertial measuring system
[NASA-CASE-LAR-12052-1] c 18 N81-29152
TRAPS
Deep trap, laser activated image converting system
[NASA-CASE-NPO-13131-1] c 36 N75-19652
TRAVELING WAVE AMPLIFIERS
Serrodyne frequency converter re-entrant amplifier system Patent
[NASA-CASE-XGS-01022] c 07 N71-16088
Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HQN-10069] c 33 N75-27251
Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350
Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] c 33 N84-16452
TRAVELING WAVE MASERS
Folded traveling wave maser structure Patent
[NASA-CASE-XNP-05219] c 16 N71-15550
High-gain, broadband traveling wave maser Patent
[NASA-CASE-NPO-10548] c 16 N71-24831
Independent gain and bandwidth control of a traveling wave maser
[NASA-CASE-NPO-13801-1] c 36 N78-18410
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Segmented superconducting magnet for a broadband traveling wave maser Patent
[NASA-CASE-XGS-10518] c 16 N71-28554
Traveling wave tube circuit
[NASA-CASE-LEW-12013-1] c 33 N79-10339
Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N80-19425
Multistage depressed collector for dual mode operation --- for microwave transmitting tubes
[NASA-CASE-LEW-13282-1] c 33 N82-24415
Linearized traveling wave amplifier with hard limiter characteristics
[NASA-CASE-LEW-13981-2] c 33 N86-21742
TRAVELING WAVES
Maser for frequencies in the 7-20 GHz range
[NASA-CASE-NPO-11437] c 16 N72-28521
TREADMILLS
Tread drum for animals --- having an electrical shock station
[NASA-CASE-ARC-10917-1] c 51 N78-27733
TREADS
Improvements in tank tread assemblies
[NASA-CASE-NPO-16321-1] c 37 N85-29291
TRIGGER CIRCUITS
Ring counter
[NASA-CASE-XGS-03095] c 09 N69-27463
Electric arc driven wind tunnel Patent
[NASA-CASE-XMF-00411] c 11 N70-36913
Automatic signal range selector for metering devices Patent
[NASA-CASE-XMS-06497] c 14 N71-26244
Multivibrator circuit with means to prevent false triggering from supply voltage fluctuations Patent
[NASA-CASE-ARC-10137-1] c 09 N71-28468
SCR lamp driver
[NASA-CASE-GSC-10221-1] c 09 N72-23171
Rapidly pulsed, high intensity, incoherent light source
[NASA-CASE-XLE-2529-3] c 33 N74-20859

Pulsed thyristor trigger control circuit
[NASA-CASE-MFS-25616-1] c 33 N84-16455

TRIGONOMETRY
Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688

TRIMERS
Trifunctional alcohol
[NASA-CASE-NPO-10714] c 06 N69-31244
Trimerization of aromatic nitriles
[NASA-CASE-LEW-12053-1] c 27 N78-15276
Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307

TRIODES
Triode thermionic energy converter
[NASA-CASE-XLE-01015] c 03 N69-39898
Textured carbon surfaces on copper
[NASA-CASE-LEW-14130-1] c 31 N85-20156

TRITIUM
Method for determining the state of charge of batteries by the use of tracers Patent
[NASA-CASE-XNP-01464] c 03 N71-10728

TROPOPAUSE
CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040

TRUCKS
Fifth wheel
[NASA-CASE-FRC-10081-1] c 37 N77-14477
Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288

TRUSSES
Low mass truss structure
[NASA-CASE-LAR-10546-1] c 11 N72-25287
Lightweight structural columns --- space erectable trusses
[NASA-CASE-LAR-12095-1] c 31 N81-25258
Structural members, method and apparatus
[NASA-CASE-MSC-16217-1] c 31 N81-27323
Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 18 N84-16250
Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479
Deployable M-braced truss structure
[NASA-CASE-LAR-13081-1] c 37 N86-20799

TUBE GRIDS
Method for fabricating solar cells having integrated collector grits
[NASA-CASE-LEW-12819-2] c 44 N79-18444

TUBE HEAT EXCHANGERS
Electrothermal rockets having improved heat exchangers Patent
[NASA-CASE-XLE-01783] c 28 N70-34175
Procedure and apparatus for determination of water in nitrogen tetroxide
[NASA-CASE-NPO-10234] c 06 N72-17094
Liquid cooled brassiere and method of diagnosing malignant tumors therewith
[NASA-CASE-ARC-11007-1] c 52 N77-14736
Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518

TUBES
Method of making tubes Patent
[NASA-CASE-XGS-04175] c 15 N71-18579
Tube sealing device Patent
[NASA-CASE-NPO-10431] c 15 N71-29132

TUMBLING MOTION
Tumbler system to provide random motion
[NASA-CASE-XGS-02437] c 15 N69-21472

TUMORS
Liquid cooled brassiere and method of diagnosing malignant tumors therewith
[NASA-CASE-ARC-11007-1] c 52 N77-14736

TUNABLE LASERS
Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943
Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N85-21631
Digital control of diode laser for atmospheric spectroscopy
[NASA-CASE-NPO-16000-1] c 36 N85-29264
Method and means for generation of tunable laser sidebands in the far-infrared region
[NASA-CASE-NPO-16497-1-CU] c 36 N86-20779

TUNGSTEN
Bonding thermoelectric elements to nonmagnetic refractory metal electrodes
[NASA-CASE-XGS-04554] c 15 N69-39786
Method of producing porous tungsten ionizers for ion rocket engines Patent
[NASA-CASE-XLE-00455] c 28 N70-38197
Small plasma probe Patent
[NASA-CASE-XLE-02578] c 25 N71-20747
Fabrication of controlled-porosity metals Patent
[NASA-CASE-XNP-04339] c 17 N71-29137
Tungsten contacts on silicon substrates
[NASA-CASE-GSC-10695-1] c 09 N72-25259
Nuclear thermionic converter --- tungsten-thorium oxide rods
[NASA-CASE-NPO-13121-1] c 73 N77-18891

TUNGSTEN ALLOYS
Evaporant holder
[NASA-CASE-XLA-03105] c 15 N69-27483
Cobalt-base alloy
[NASA-CASE-LEW-10436-1] c 17 N73-32415
Directionally solidified eutectic gamma plus beta nickel-base superalloys
[NASA-CASE-LEW-12906-1] c 26 N77-32279

TUNING
Active tuned circuit
[NASA-CASE-GSC-11340-1] c 10 N72-33230
Magnetically actuated tuning method for Gunn oscillators
[NASA-CASE-NPO-12106] c 09 N73-15235
Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421
Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943
Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N85-20248
Aircraft rotor blade with passive tuned tab
[NASA-CASE-ARC-11444-1] c 05 N85-29947
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N86-20679

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Low power drain semi-conductor circuit
[NASA-CASE-XGS-04999] c 09 N69-24317

TUNNELING (EXCAVATION)
Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272

TUNNELS
Deployable flexible tunnel
[NASA-CASE-MFS-22636-1] c 37 N76-22540

TURBINE BLADES
Transpiration cooled turbine blade manufactured from wires Patent
[NASA-CASE-XLE-00020] c 15 N70-33226
Modification and improvements to cooled blades Patent
[NASA-CASE-XLE-00092] c 15 N70-33264
High temperature nickel-base alloy Patent
[NASA-CASE-XLE-00151] c 17 N70-33283
External liquid-spray cooling of turbine blades Patent
[NASA-CASE-XLE-00037] c 28 N70-33372
Liquid spray cooling method Patent
[NASA-CASE-XLE-00027] c 33 N71-29152
Welding blades to rotors
[NASA-CASE-LEW-10533-1] c 15 N73-28515
Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c 24 N77-19170
Wingtip vortex turbine
[NASA-CASE-LAR-12544-1] c 07 N81-27096
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-2] c 37 N82-26674
Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
Vertical shaft windmill
[NASA-CASE-LAR-12923-1] c 37 N84-12493

TURBINE ENGINES
High speed, self-acting shaft seal --- for use in turbine engines
[NASA-CASE-LEW-11274-1] c 37 N75-21631
Dual cycle aircraft turbine engine
[NASA-CASE-LAR-11310-1] c 07 N77-28118
Composite seal for turbomachinery --- backings for turbine engine shrouds
[NASA-CASE-LEW-12131-1] c 37 N79-18318
Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658
Pumped vortex
[NASA-CASE-LAR-12625-1] c 02 N83-19715

TURBINE PUMPS
Pulsed energy power system Patent
[NASA-CASE-MSC-13112] c 03 N71-11057
Cryogenic cooling system Patent
[NASA-CASE-NPO-10467] c 23 N71-26654
Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c 20 N74-13502
Supercharged topping rocket propellant feed system
[NASA-CASE-XLE-02062-1] c 20 N80-14188

TURBINE WHEELS
Locking device for turbine rotor blades Patent
[NASA-CASE-XNP-00816] c 28 N71-28928
Apparatus for welding blades to rotors
[NASA-CASE-LEW-10533-2] c 37 N74-11300
Blade retainer assembly
[NASA-CASE-LEW-12608-1] c 07 N77-27116

TURBINES
Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294
Method for driving two-phase turbines with enhanced efficiency
[NASA-CASE-NPO-15037-2] c 37 N85-29282

TURBOCOMPRESSORS
Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00170] c 15 N70-36412
Apparatus and method for reducing thermal stress in a turbine rotor
[NASA-CASE-LEW-12232-1] c 07 N79-10057
Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
Diesel engine catalytic combustor system --- aircraft engines
[NASA-CASE-LEW-12995-1] c 37 N84-33808

TURBOFAN ENGINES
Supersonic fan blading --- noise reduction in turbofan engines
[NASA-CASE-LEW-11402-1] c 07 N74-28226
Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c 07 N74-32418
Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055
Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-18039
Integrated control system for a gas turbine engine
[NASA-CASE-LEW-12594-2] c 07 N81-19116
Thrust reverser for a long duct fan engine --- for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293
Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884

TURBOFANS
Dual output variable pitch turbofan actuation system
[NASA-CASE-LEW-12419-1] c 07 N77-14025
Reverse pitch fan with divided splitter
[NASA-CASE-LEW-12760-1] c 07 N77-17059

TURBOGENERATORS
Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018

TURBOJET ENGINE CONTROL
Integrated control system for a gas turbine engine
[NASA-CASE-LEW-12594-2] c 07 N81-19116

TURBOJET ENGINES
Telescoping-spike supersonic inlet for aircraft engines Patent
[NASA-CASE-XLE-00005] c 28 N70-39899
Gas turbine combustion apparatus Patent
[NASA-CASE-XLE-103477-1] c 28 N71-20330
Reduction of nitric oxide emissions from a combustor
[NASA-CASE-ARC-10814-2] c 07 N80-26298

TURBOMACHINE BLADES
Platform for a swing root turbomachinery blade
[NASA-CASE-LEW-12312-1] c 07 N77-32148
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658

TURBOMACHINERY
Turbo-machine blade vibration damper Patent
[NASA-CASE-XLE-00155] c 28 N71-29154
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
Method of fabricating an abradable gas path seal
[NASA-CASE-LEW-13269-2] c 37 N84-22957
Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018
Compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] c 37 N86-19606
Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788

TURBOSHAFTS
Optical torquemeter Patent
[NASA-CASE-XLE-00503] c 14 N70-34818
High speed, self-acting shaft seal --- for use in turbine engines
[NASA-CASE-LEW-11274-1] c 37 N75-21631
TURBULENCE METERS
Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470
TURBULENT BOUNDARY LAYER
Sound shield
[NASA-CASE-LAR-12883-1] c 71 N83-17235
TURBULENT FLOW
Exhaust flow deflector --- for ducted gas flow
[NASA-CASE-LAR-11570-1] c 34 N76-18364
System for measuring Reynolds in a turbulently flowing fluid --- signal processing
[NASA-CASE-ARC-10755-2] c 34 N76-27517
System for measuring three fluctuating velocity components in a turbulently flowing fluid
[NASA-CASE-ARC-10974-1] c 34 N77-27345
Detection of the transitional layer between laminar and turbulent flow areas on a wing surface --- using an accelerometer to measure pressure levels during wind tunnel tests
[NASA-CASE-LAR-12261-1] c 02 N80-20224
Amplified wind turbine apparatus
[NASA-CASE-MFS-23830-1] c 44 N82-24639
TURNSTILE ANTENNAS
Method and means for damping nutation in a satellite Patent
[NASA-CASE-XMF-00442] c 31 N71-10747
Broadband modified turnstile antenna Patent
[NASA-CASE-MSC-12209] c 09 N71-24842
Turnstile slot antenna
[NASA-CASE-GSC-11428-1] c 32 N74-20864
Turnstile and flared cone UHF antenna
[NASA-CASE-LAR-10970-1] c 33 N76-14372
TURRET
Electron beam tube containing a multiple cathode array employing indexing means for cathode substitution Patent
[NASA-CASE-NPO-10625] c 09 N71-26182
TWISTING
Means for controlling aerodynamically induced twist
[NASA-CASE-LAR-12175-1] c 05 N82-28279
TWO BODY PROBLEM
Instrument for measuring potentials on two dimensional electric field plots Patent
[NASA-CASE-XLA-08493] c 10 N71-19421
TWO DIMENSIONAL BODIES
Two-dimensional radiant energy array computers and computing devices
[NASA-CASE-GSC-11839-1] c 60 N77-14751
TWO PHASE FLOW
Two-step rocket engine bipropellant valve Patent
[NASA-CASE-XMS-04890-1] c 15 N70-22192
Booster tank system Patent
[NASA-CASE-MSC-12390] c 27 N71-29155
Two phase flow system with discrete impinging two-phase jets
[NASA-CASE-NPO-11556] c 12 N72-25292
Method and turbine for extracting kinetic energy from a stream of two-phase fluid
[NASA-CASE-NPO-14130-1] c 34 N79-20335
Method for driving two-phase turbines with enhanced efficiency
[NASA-CASE-NPO-15037-2] c 37 N85-29282
Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N86-20721
TYPEWRITERS
Guide for a typewriter
[NASA-CASE-MFS-15218-1] c 37 N77-19457

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U BENDS
Technique of elbow bending small jacketed transfer lines Patent
[NASA-CASE-XNP-10475] c 15 N71-24679
Method for distillation of liquids
[NASA-CASE-XNP-08124-2] c 06 N73-13129
ULCERS
Indometh acin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-2] c 52 N81-14613
Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-1] c 52 N81-29764
ULLAGE
Penetrating radiation system for detecting the amount of liquid in a tank Patent
[NASA-CASE-MSC-12280] c 27 N71-16348
ULTRAHIGH FREQUENCIES
Turnstile and flared cone UHF antenna
[NASA-CASE-LAR-10970-1] c 33 N76-14372
Dual band combiner for horn antenna
[NASA-CASE-NPO-14519-1] c 32 N80-23524
ULTRAHIGH VACUUM
Method of lubricating rolling element bearings Patent
[NASA-CASE-XLE-09527] c 15 N71-17688
Gauge calibration by diffusion
[NASA-CASE-XGS-07752] c 14 N73-30390
Ultrahigh vacuum gauge having two collector electrodes
[NASA-CASE-LAR-02743] c 14 N73-32324
In situ transfer standard for ultrahigh vacuum gage calibration
[NASA-CASE-LAR-10862-1] c 35 N74-15092
Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] c 37 N85-29286
ULTRAPURE METALS
Production of ultrapure amorphous metals utilizing acoustic cooling
[NASA-CASE-NPO-15658-1] c 26 N83-19890
ULTRASONIC AGITATION
Apparatus for recovering matter adhered to a host surface
[NASA-CASE-NPO-11213] c 15 N73-20514
ULTRASONIC CLEANING
Acoustic tooth cleaner
[NASA-CASE-LAR-12471-1] c 52 N82-29862
ULTRASONIC FLAW DETECTION
Length mode piezoelectric ultrasonic transducer for inspection of solid objects
[NASA-CASE-MSC-19672-1] c 38 N79-14398
Two-dimensional scanner apparatus --- flaw detector in small flat plates
[NASA-CASE-MFS-25687-1] c 35 N84-22928
Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276
ULTRASONIC RADIATION
Ultrasonic biomedical measuring and recording apparatus --- for recording motion of internal organs such as heart valves
[NASA-CASE-ARC-10597-1] c 52 N74-20726
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-1] c 52 N76-33835
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-2] c 52 N79-26771
Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282
Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618
Acoustic radiation stress measurement
[NASA-CASE-LAR-13440-1] c 71 N86-22307
ULTRASONIC SCANNERS
Cutting head for ultrasonic lithotripsy
[NASA-CASE-GSC-12944-1] c 52 N86-19885
ULTRASONIC TESTS
Ultrasonic scanner for radial and flat panels
[NASA-CASE-MFS-20335-1] c 35 N74-10415
Ultrasonic scanning system for in-place inspection of brazed tube joints
[NASA-CASE-MFS-20767-1] c 38 N74-15130
Method and apparatus for nondestructive testing --- using high frequency arc discharges
[NASA-CASE-MFS-21233-1] c 38 N74-15395
CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c 39 N78-15512
ULTRASONIC WAVE TRANSDUCERS
Apparatus for recovering matter adhered to a host surface
[NASA-CASE-NPO-11213] c 15 N73-20514
Ultrasonic bone densitometer
[NASA-CASE-MFS-20994-1] c 35 N75-12271
Reference apparatus for medical ultrasonic transducer
[NASA-CASE-ARC-10753-1] c 54 N75-27760
Ultrasonic calibration device --- for producing changes in acoustic attenuation and phase velocity
[NASA-CASE-LAR-11435-1] c 35 N76-15432
Coupling apparatus for ultrasonic medical diagnostic system
[NASA-CASE-NPO-13935-1] c 52 N79-14751
CDS solid state phase insensitive ultrasonic transducer --- annealing dadmium sulfide crystals
[NASA-CASE-LAR-12304-1] c 35 N80-20559
Liquid-immersible electrostatic ultrasonic transducer
[NASA-CASE-LAR-12465-1] c 33 N82-26572
Ultrasonic transducer with Gaussian radial pressure distribution
[NASA-CASE-LAR-12967-1] c 35 N84-22932
Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-34913
ULTRASONIC WELDING
Ultrasonically bonded value assembly
[NASA-CASE-NPO-13360-1] c 37 N75-25185
ULTRASONICS
Methods and apparatus employing vibratory energy for wrenching Patent
[NASA-CASE-MFS-20586] c 15 N71-17686
Pseudo continuous wave instrument --- ultrasonics
[NASA-CASE-LAR-12260-1] c 35 N79-10390
Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282
Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618
ULTRAVIOLET FILTERS
Ultraviolet filter
[NASA-CASE-XNP-02340] c 23 N69-24332
Ultraviolet resonance lamp Patent
[NASA-CASE-ARC-10030] c 09 N71-12521
ULTRAVIOLET LASERS
Stabilization of He2(a 3 Sigma u+ molecules in liquid helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13826
ULTRAVIOLET RADIATION
Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979
Ultraviolet resonance lamp Patent
[NASA-CASE-ARC-10030] c 09 N71-12521
Leak detector wherein a probe is monitored with ultraviolet radiation Patent
[NASA-CASE-ERC-10034] c 15 N71-24896
Phototropic composition of matter
[NASA-CASE-XGS-03736] c 14 N72-22443
Transmitting and reflecting diffuser --- for ultraviolet light
[NASA-CASE-LAR-10385-2] c 70 N74-13436
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c 27 N74-21156
Light shield and cooling apparatus --- high intensity ultraviolet lamp
[NASA-CASE-LAR-10089-1] c 34 N74-23066
Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c 19 N74-29410
Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
[NASA-CASE-NPO-13346-1] c 36 N76-29575
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315
Vitra-violet process for producing flame resistant polyamides and products produced thereby --- protective clothing for high oxygen environments
[NASA-CASE-MSC-16074-1] c 27 N80-26446
ULTRAVIOLET REFLECTION
Alkali metal silicate protective coating Patent
[NASA-CASE-XGS-04799] c 18 N71-24183
Ultraviolet light reflective coating
[NASA-CASE-GSC-11786-1] c 24 N76-24363
Transmitting and reflecting diffuser --- using ultraviolet grade fused silica coatings
[NASA-CASE-LAR-10385-3] c 74 N78-15879
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Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428
ULTRAVIOLET SPECTROMETERS
Concave grating spectrometer Patent
[NASA-CASE-XGS-01036] c 14 N70-40003
Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699
UMBILICAL CONNECTORS
Umbilical separator for rockets Patent
[NASA-CASE-XNP-00425] c 11 N70-38202
Umbilical disconnect Patent
[NASA-CASE-XLA-00711] c 03 N71-12258
Remote controlled tubular disconnect Patent
[NASA-CASE-XLA-01396] c 03 N71-12259
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[NASA-CASE-XMF-05344] c 31 N71-16345
Breakaway connector
[NASA-CASE-NPO-11140] c 15 N72-17455
Quick disconnect coupling
[NASA-CASE-NPO-11202] c 15 N72-25450
Deployable flexible tunnel
[NASA-CASE-MFS-22636-1] c 37 N76-22540
High acceleration cable deployment system
[NASA-CASE-ARC-11256-1] c 15 N82-24272
UMBILICAL TOWERS
Emergency escape system Patent
[NASA-CASE-XKS-02342] c 05 N71-11199
UNDERWATER ENGINEERING
Ejectable underwater sound source recovery assembly
[NASA-CASE-LAR-10595-1] c 35 N74-16135
Underwater seismic source --- for petroleum exploration
[NASA-CASE-NPO-14255-1] c 46 N79-23555
UNDERWATER TESTS
Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332] c 05 N72-20097

Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332-2] c 05 N73-25125

UNIFORM FLOW
Wind tunnel flow generation section
[NASA-CASE-ARC-10710-1] c 09 N75-12969

UNIONS (CONNECTORS)
Beam connector apparatus and assembly
[NASA-CASE-MFS-25134-1] c 31 N83-31895

UNLOADING
Bootstrap unloader Patent
[NASA-CASE-XNP-09768] c 09 N71-12516

UNMANNED SPACECRAFT
Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27036

UNSATURATION (CHEMISTRY)
Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043

UP-CONVERTERS
Method and apparatus for quadriphase-shift-key and linear phase modulation
[NASA-CASE-NPO-14444-1] c 33 N81-15192

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Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699
Apparatus for sampling particulates in gases
[NASA-CASE-HQN-10037-1] c 14 N73-27376
Rocket having barium release system to create ion clouds in the upper atmosphere
[NASA-CASE-LAR-10670-2] c 15 N74-27360
Microwave limb sounder --- measuring trace gases in the upper atmosphere
[NASA-CASE-NPO-14544-1] c 46 N82-12685

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Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c 36 N77-26477

UREAS
Aldehyde-containing urea-absorbing polysaccharides
[NASA-CASE-NPO-13620-1] c 27 N77-30236
Dialysis system --- using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687
Reverse osmosis membrane of high urea rejection properties --- water purification
[NASA-CASE-ARC-10980-1] c 27 N80-23452

URETHANES
Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104

URINALYSIS
Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754
Method of detecting and counting bacteria in body fluids
[NASA-CASE-GSC-11092-2] c 04 N73-27052
Automatic instrument for chemical processing to detect microorganism in biological samples by measuring light reactions
[NASA-CASE-GSC-11169-2] c 05 N73-32011
Determination of antimicrobial susceptibilities on infected urines without isolation
[NASA-CASE-GSC-12046-1] c 52 N79-14750

URINATION
Open type urine receptacle
[NASA-CASE-MSC-12324-1] c 05 N72-22093
Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N81-24711
Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740

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Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N78-27750

UROLOGY
Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N81-24711

UTERUS
Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875

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V GROOVES
Vee-notching device --- with adjustable carriage
[NASA-CASE-MFS-20730-1] c 39 N74-13131
Complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c 33 N79-12321
High voltage v-groove solar cell
[NASA-CASE-LEW-13401-2] c 44 N83-32177

VACANCIES (CRYSTAL DEFECTS)
Bimetallic junctions
[NASA-CASE-LEW-11573-1] c 26 N77-28265

VACUUM
Depositing semiconductor films utilizing a thermal gradient
[NASA-CASE-XKS-04614] c 15 N69-21460
Superconducting magnet Patent
[NASA-CASE-XNP-06503] c 23 N71-29049
Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-2] c 35 N79-14346
Bakeable McLeod gauge
[NASA-CASE-XGS-01293-1] c 35 N79-33450
Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283

VACUUM APPARATUS
Null-type vacuum microbalance Patent
[NASA-CASE-XAC-00472] c 15 N70-40180
Evacuation port seal Patent
[NASA-CASE-XMF-03290] c 15 N71-23256
Apparatus for testing polymeric materials Patent
[NASA-CASE-XNP-09699] c 06 N71-24607
Trap for preventing diffusion pump backstreaming
[NASA-CASE-GSC-10518-1] c 15 N72-22489
Inductance device with vacuum insulation
[NASA-CASE-LEW-10330-1] c 09 N72-27226
Apparatus for producing metal powders
[NASA-CASE-XLE-06461-2] c 17 N72-28535
Vacuum probe surface sampler
[NASA-CASE-LAR-10623-1] c 14 N73-30395
Vacuum leak detector
[NASA-CASE-LAR-11237-1] c 35 N75-19612
Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11465-1] c 37 N76-21554
Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343
Head for high speed spinner having a vacuum chuck --- holding silicon dioxide chips for etching
[NASA-CASE-NPO-15227-1] c 37 N81-33482
Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187
Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650
Optical multiple sample vacuum integrating sphere
[NASA-CASE-GSC-12849-1] c 74 N84-15960

VACUUM CHAMBERS
High-vacuum condenser tank for ion rocket tests Patent
[NASA-CASE-XLE-00168] c 11 N70-33278
Split welding chamber Patent
[NASA-CASE-LEW-11531] c 15 N71-14932
Space environmental work simulator Patent
[NASA-CASE-XMF-07488] c 11 N71-18773
Pressure monitoring with a plurality of ionization gauges controlled at a central location Patent
[NASA-CASE-XLE-00787] c 14 N71-21090
Device for measuring light scattering wherein the measuring beam is successively reflected between a pair of parallel reflectors Patent
[NASA-CASE-XER-11203] c 14 N71-28994
Cryogenic feedthrough
[NASA-CASE-LAR-10031] c 15 N72-22484
Altitude simulation chamber for rocket engine testing
[NASA-CASE-MFS-20620] c 11 N72-27262
Evacuation valve
[NASA-CASE-LAR-10061-1] c 15 N72-31483
Method and apparatus for determining the contents of contained gas samples
[NASA-CASE-GSC-10903-1] c 14 N73-12444
Test stand system for vacuum chambers
[NASA-CASE-MFS-21362] c 11 N73-20267
Atomic hydrogen storage --- cryotrapping and magnetic field strength
[NASA-CASE-LEW-12081-2] c 28 N80-20402
Containerless high temperature calorimeter apparatus
[NASA-CASE-MFS-23923-1] c 35 N81-19426
Hermetic seal for a shaft
[NASA-CASE-NPO-15115-1] c 37 N82-24493
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-15670-1] c 33 N82-33634
Sphere forming method and apparatus
[NASA-CASE-NPO-15070-1] c 31 N83-35176
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-256704-1] c 33 N84-22884

VACUUM DEPOSITION
A method for the deposition of beta-silicon carbide by isoepitaxy
[NASA-CASE-ERC-10120] c 26 N69-33482
Vacuum deposition apparatus Patent
[NASA-CASE-XMF-01667] c 15 N71-17647
Evaporant source for vapor deposition Patent
[NASA-CASE-XMF-06065] c 15 N71-20395
Vacuum evaporator with electromagnetic ion steering Patent
[NASA-CASE-NPO-10331] c 09 N71-26701
Preparation of dielectric coating of variable dielectric constant by plasma polymerization
[NASA-CASE-ARC-10892-2] c 27 N79-14214
Refractory coatings and method of producing the same
[NASA-CASE-LEW-13169-1] c 26 N82-29415
Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267

VACUUM EFFECTS
High power RF coaxial switch
[NASA-CASE-NPO-14229-1] c 33 N80-18285

VACUUM FURNACES
Apparatus for inserting and removing specimens from high temperature vacuum furnaces
[NASA-CASE-LAR-10841-1] c 31 N74-27900

VACUUM GAGES
Thermopile vacuum gage tube simulator Patent
[NASA-CASE-XLA-02758] c 14 N71-18481
Gauge calibration by diffusion
[NASA-CASE-XGS-07752] c 14 N73-30390
Ultrahigh vacuum measuring ionization gauge
[NASA-CASE-XLA-05087] c 14 N73-30391
In situ transfer standard for ultrahigh vacuum gage calibration
[NASA-CASE-LAR-10862-1] c 35 N74-15092

VACUUM MELTING
High temperature furnace for melting materials in space
[NASA-CASE-MFS-20710] c 11 N72-23215

VACUUM PUMPS
Pressure control valve --- inflating flexible bladders
[NASA-CASE-ARC-11251-1] c 37 N81-17433

VACUUM SYSTEMS
Shrink-fit gas valve Patent
[NASA-CASE-XGS-00587] c 15 N70-35087
Cryogenic connector for vacuum use Patent
[NASA-CASE-XGS-02441] c 15 N70-41629
Ionization vacuum gauge with all but the end of the ion collector shielded Patent
[NASA-CASE-XLA-07424] c 14 N71-18482
Sorption vacuum trap Patent
[NASA-CASE-XER-09519] c 14 N71-18483
Vacuum leak detector
[NASA-CASE-LAR-11237-1] c 35 N75-19612
Ampoule sealing apparatus and process --- for housing a semiconductor growth charge under vacuum
[NASA-CASE-LAR-12847-1] c 33 N83-16633

VACUUM TUBES
Integrated structure vacuum tube
[NASA-CASE-ARC-10445-1] c 31 N76-31365
Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229

VALUE
High impact pressure regulator Patent
[NASA-CASE-NPO-10175] c 14 N71-18625

VALVES
Valve actuator Patent
[NASA-CASE-XHQ-01208] c 15 N70-35409
Fluid coupling Patent
[NASA-CASE-XLE-00397] c 15 N70-36492
High pressure four-way valve Patent
[NASA-CASE-XNP-00214] c 15 N70-36908
Reinforcing means for diaphragms Patent
[NASA-CASE-XNP-01962] c 32 N70-41370
Multiway vortex valve system Patent
[NASA-CASE-XMF-04709] c 15 N71-15609
Multiple orifice throttle valve Patent
[NASA-CASE-XNP-09698] c 15 N71-18580
High pressure air valve Patent
[NASA-CASE-MSC-11010] c 15 N71-19485
Valve seat with resilient support member Patent
[NASA-CASE-XKS-02582] c 15 N71-21234
Positive locking check valve Patent
[NASA-CASE-XMS-09310] c 15 N71-22706
Dual latching solenoid valve Patent
[NASA-CASE-XMS-05890] c 09 N71-23191
Valve seat
[NASA-CASE-NPO-10606] c 15 N72-25451
Evacuation valve
[NASA-CASE-LAR-10061-1] c 15 N72-31483
Flow control valve --- for high temperature fluids
[NASA-CASE-NPO-11951-1] c 37 N74-21065
Airlock
[NASA-CASE-MFS-20922-1] c 18 N74-22136
Reciprocating engines
[NASA-CASE-MSC-16239-1] c 37 N81-32510
Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744
Moisture content and gas sampling device
[NASA-CASE-MSC-18866-1] c 35 N85-29213

Linear motion valve
[NASA-CASE-MSC-20148-1] c 37 N85-29284
Reactant pressure differential control for fuel cell gases
[NASA-CASE-MSC-20127-2] c 37 N85-34403

VANES
Solar vane actuator Patent
[NASA-CASE-XNP-05535] c 14 N71-23040
Rotary vane attenuator wherin rotor has orthogonally disposed resistive and dielectric cards
[NASA-CASE-NPO-11418-1] c 14 N73-13420
Amplified wind turbine apparatus
[NASA-CASE-MFS-23830-1] c 44 N82-24639
Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441

VAPOR DEPOSITION
A method for the deposition of beta-silicon carbide by isoepitaxy
[NASA-CASE-ERC-10120] c 26 N69-33482
Apparatus for producing high purity silicon carbide crystals Patent
[NASA-CASE-XLA-02057] c 26 N70-40015
Method of changing the conductivity of vapor deposited gallium arsenide by the introduction of water into the vapor deposition atmosphere Patent
[NASA-CASE-XNP-01961] c 26 N71-29156
Tungsten contacts on silicon substrates
[NASA-CASE-GSC-10695-1] c 09 N72-25259
Deposition apparatus
[NASA-CASE-LAR-10541-1] c 15 N72-32487
Deposition of alloy films --- on irregulary shaped metal object
[NASA-CASE-LEW-11262-1] c 27 N74-13270
System for depositing thin films
[NASA-CASE-MFS-20775-1] c 31 N75-12161
Vapor deposition apparatus --- semiconductors and gallium arsenides
[NASA-CASE-HQN-10462] c 25 N75-29192
Chemical vapor deposition reactor --- providing uniform film thickness
[NASA-CASE-NPO-13650-1] c 25 N79-28253
Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005
Advanced vapor supply manifold
[NASA-CASE-LAR-13259-1] c 37 N86-20800

VAPOR PHASES
Fluid dispensing apparatus and method Patent
[NASA-CASE-XLE-01182] c 27 N71-15635
Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199
Propellent mass distribution metering apparatus Patent
[NASA-CASE-NPO-10185] c 10 N71-26339
Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N86-20721

VAPOR PRESSURE
Venting vapor apparatus Patent
[NASA-CASE-XLE-00288] c 15 N70-34247
Vapor liquid separator Patent
[NASA-CASE-XMF-04042] c 15 N71-23023
Method and apparatus for convection control of metallic halide vapor density in a metallic halide laser
[NASA-CASE-NPO-15021-1] c 36 N83-10417

VAPOR TRAPS
Sorption vacuum trap Patent
[NASA-CASE-XER-09519] c 14 N71-18483

VAPORIZERS
Boiler for generating high quality vapor Patent
[NASA-CASE-XLE-00785] c 33 N71-16104
Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184
Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178

VAPORIZING
Gas liquefication and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372
Method for controlling vapor content of a gas
[NASA-CASE-NPO-10633] c 03 N72-28025

VAPORS
Propulsion apparatus and method using boil-off gas from a cryogenic liquid --- controlling spacecraft attitude and drag
[NASA-CASE-MFS-25946-1] c 20 N84-15183
Advanced vapor supply manifold
[NASA-CASE-LAR-13259-1] c 37 N86-20800

VARACTOR DIODE CIRCUITS
Phase modulator Patent
[NASA-CASE-MSC-13201-1] c 07 N71-28429

VARACTOR DIODES
Varactor high level mixer
[NASA-CASE-XGS-02171] c 09 N69-24324
Multiple varactor frequency doubler Patent
[NASA-CASE-XMF-04958-1] c 10 N71-26414
Millimeter wave pumped parametric amplifier
[NASA-CASE-GSC-11617-1] c 33 N74-32660
Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143

VARIABILITY
Variable speed drive
[NASA-CASE-GSC-12643-1] c 37 N83-26078
Slotted variable camber flap
[NASA-CASE-LAR-12541-1] c 05 N84-22551

VARIABLE CYCLE ENGINES
Dual cycle aircraft turbine engine
[NASA-CASE-LAR-11310-1] c 07 N77-28118
Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c 37 N78-17384
Variable mixer propulsion cycle
[NASA-CASE-LEW-12917-1] c 07 N78-18067

VARIABLE GEOMETRY STRUCTURES
Landing arrangement for aerial vehicles Patent
[NASA-CASE-XLA-00142] c 02 N70-33286
Variable geometry wind tunnels
[NASA-CASE-XLA-07430] c 11 N72-22246
Aircraft engine nozzle
[NASA-CASE-ARC-10977-1] c 07 N80-32392

VARIABLE PITCH PROPELLERS
Dual output variable pitch turbofan actuation system
[NASA-CASE-LEW-12419-1] c 07 N77-14025
Impact absorbing blade mounts for variable pitch blades
[NASA-CASE-LEW-12313-1] c 37 N78-10468

VARIABLE SWEEP WINGS
Variable sweep wing configuration Patent
[NASA-CASE-XLA-00230] c 02 N70-33255
Variable sweep wing aircraft Patent
[NASA-CASE-XLA-00221] c 02 N70-33266
Variable-span aircraft Patent
[NASA-CASE-XLA-00166] c 02 N70-34178
Variable sweep aircraft wing Patent
[NASA-CASE-XLA-00350] c 02 N70-38011
Variable sweep aircraft Patent
[NASA-CASE-XLA-03659] c 02 N71-11041
Dual-fuselage aircraft having yawable wing and horizontal stabilizer
[NASA-CASE-ARC-10470-1] c 02 N73-26005

VARIABLE THRUST
Variable thrust ion engine utilizing thermally decomposable solid fuel Patent
[NASA-CASE-XMF-00923] c 28 N70-36802
Method for continuous variation of propellant flow and thrust in propulsive devices Patent
[NASA-CASE-XLE-00177] c 28 N70-40367
Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055

VARIATIONS
Bidirectional step torque filter with zero backlash characteristic Patent
[NASA-CASE-XGS-04227] c 15 N71-21744

VECTOR ANALYSIS
Two force component measuring device Patent
[NASA-CASE-XAC-04886-1] c 14 N71-20439

VECTOR CURRENTS
Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N86-19613

VECTORCARDIOGRAPHY
Biomedical electrode arrangement Patent
[NASA-CASE-XFR-10856] c 05 N71-11189

VEGETATION GROWTH
Rotary plant growth accelerating apparatus --- weightlessness
[NASA-CASE-ARC-10722-1] c 51 N75-25503
Remote sensing of vegetation and soil using microwave ellipsometry
[NASA-CASE-GSC-11976-1] c 43 N78-10529
Enhancement of in vitro guayule propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045

VEHICLE WHEELS
Deformable vehicle wheel Patent
[NASA-CASE-MFS-20400] c 31 N71-18611
Resilient wheel Patent
[NASA-CASE-MFS-13929] c 15 N71-27091
Omnidirectional wheel
[NASA-CASE-MFS-21309-1] c 37 N74-18125
Two speed drive system --- mechanical device for changing speed on rotating vehicle wheel
[NASA-CASE-MFS-20645-1] c 37 N74-23070
Fifth wheel
[NASA-CASE-FRC-10081-1] c 37 N77-14477
Improved tire/wheel concept --- pneumatic aircraft tire
[NASA-CASE-LAR-11695-2] c 37 N80-18402
Tire/wheel concept
[NASA-CASE-LAR-11695-2] c 37 N81-24443
Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587

VEHICLES
Magnetic suspension and pointing system
[NASA-CASE-LAR-11889-2] c 37 N78-27424

VEHICULAR TRACKS
Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587
Improvements in tank tread assemblies
[NASA-CASE-NPO-16321-1] c 37 N85-29291

VELOCITY
Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895

VELOCITY COUPLING
Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N82-26568

VELOCITY MEASUREMENT
Micrometeoroid velocity measuring device Patent
[NASA-CASE-XLA-00495] c 14 N70-41332
Superconductive accelerometer Patent
[NASA-CASE-XMF-01099] c 14 N71-15969
Gravimeter Patent
[NASA-CASE-XMF-05844] c 14 N71-17587
Laser Doppler system for measuring three dimensional vector velocity Patent
[NASA-CASE-MFS-20386] c 21 N71-19212
Particle detection apparatus including a ballistic pendulum Patent
[NASA-CASE-XMS-04201] c 14 N71-22990
Angular velocity and acceleration measuring apparatus
[NASA-CASE-ERC-10292] c 14 N72-25410
Flow velocity and directional instrument
[NASA-CASE-LAR-10855-1] c 14 N73-13415
Doppler shift system --- system for measuring velocities of radiating particles
[NASA-CASE-HQN-10740-1] c 72 N74-19310
Tachometer
[NASA-CASE-MFS-23175-1] c 35 N77-30436
Velocity measurement system
[NASA-CASE-MFS-23363-1] c 35 N78-32396
Fluid velocity measuring device
[NASA-CASE-LAR-11729-1] c 34 N79-12359
Air speed and attitude probe
[NASA-CASE-FRC-11009-1] c 06 N80-18036
Spinning disk calibration method and apparatus for laser Doppler velocimeter
[NASA-CASE-ARC-11510-1] c 35 N84-25015
Improved fluid flow meter for measuring the rate of fluid flow in a conduit
[NASA-CASE-MFS-28030-1] c 35 N85-30286

VELOCITY MODULATION
Molecular beam velocity selector Patent
[NASA-CASE-XLE-01533] c 11 N71-10777
Apparatus for controlling the velocity of an electromechanical drive for interferometers and the like Patent
[NASA-CASE-XGS-03532] c 14 N71-17627
Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N80-19425

VENTILATION
Protective garment ventilation system
[NASA-CASE-XMS-04928] c 54 N78-17679
Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288

VENTILATORS
Heat sterilizable patient ventilator
[NASA-CASE-NPO-13313-1] c 54 N75-27761

VENTING
Venting vapor apparatus Patent
[NASA-CASE-XLE-00288] c 15 N70-34247
Liquid storage tank venting device for zero gravity environment Patent
[NASA-CASE-XLE-01449] c 15 N70-41646
Valve seat with resilient support member Patent
[NASA-CASE-XKS-02582] c 15 N71-21234
Venting device for pressurized space suit helmet Patent
[NASA-CASE-XMS-09652-1] c 05 N71-26333
Solid propellant rocket motor
[NASA-CASE-XNP-03282] c 28 N72-20758

VENUS (PLANET)
Space simulator Patent
[NASA-CASE-XNP-00459] c 11 N70-38675

VERTICAL FLIGHT
Aircraft instrument Patent
[NASA-CASE-XLA-00487] c 14 N70-40157

VERTICAL LANDING
Landing gear Patent
[NASA-CASE-XMF-01174] c 02 N70-41589

VERTICAL ORIENTATION
Vertical shaft windmill
[NASA-CASE-LAR-12923-1] c 37 N84-12493

VERTICAL TAKEOFF AIRCRAFT
Mechanical stability augmentation system Patent
[NASA-CASE-XLA-06339] c 02 N71-13422
Attitude controls for VTOL aircraft Patent
[NASA-CASE-XAC-08972] c 02 N71-20570
VERY HIGH FREQUENCIES
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VERY LARGE SCALE INTEGRATION
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[NASA-CASE-NPO-16299-1] c 33 N85-20250
Split-cross-bridge resistor for testing for proper fabrication of integrated circuits
[NASA-CASE-NPO-16021-1] c 33 N85-30187
VERY LONG BASE INTERFEROMETRY
System for real-time crustal deformation monitoring
[NASA-CASE-NPO-14124-1] c 46 N80-14603
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[NASA-CASE-XMS-00864] c 05 N70-36493
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[NASA-CASE-GSC-10306-1] c 15 N71-24694
Active vibration isolator for flexible bodies Patent
[NASA-CASE-LAR-10106-1] c 15 N71-27169
Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-34913
Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752
VIBRATION DAMPING
Viscous pendulum damper Patent
[NASA-CASE-LAR-10274-1] c 14 N71-17626
Digital filter for reducing sampling jitter in digital control systems Patent
[NASA-CASE-NPO-11088] c 08 N71-29034
Turbo-machine blade vibration damper Patent
[NASA-CASE-XLE-00155] c 28 N71-29154
Active notch filter network with variable notch depth, width and frequency
[NASA-CASE-FRC-11055-1] c 33 N80-29583
Variable friction secondary seal for face seals
[NASA-CASE-LEW-14170-1] c 37 N85-20377
Variable force, eddy-current or magnetic damper
[NASA-CASE-LEW-13717-1] c 37 N85-30333
Fluidic momentum controller
[NASA-CASE-MSC-20906-1] c 18 N86-19344
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Thermal detector of electromagnetic energy by means of a vibrating electrode Patent
[NASA-CASE-XAC-10768] c 09 N71-18830
Apparatus for recovering matter adhered to a host surface
[NASA-CASE-NPO-11213] c 15 N73-20514
Spherical bearing --- to reduce vibration effects
[NASA-CASE-MFS-23447-1] c 37 N79-11404
Self-locking double retention redundant full pin release
[NASA-CASE-NPO-16233-1] c 37 N86-20801
VIBRATION ISOLATORS
Variable stiffness polymeric damper
[NASA-CASE-XAC-11225] c 14 N69-27486
Miniature vibration isolator Patent
[NASA-CASE-XLA-01019] c 15 N70-40156
Vibration damping system Patent
[NASA-CASE-XMS-01620] c 23 N71-15673
Hermetic sealed vibration damper Patent
[NASA-CASE-MSC-10959] c 15 N71-26243
Dynamic vibration absorber Patent
[NASA-CASE-LAR-10083-1] c 15 N71-27006
Vibration isolation system using compression springs
[NASA-CASE-NPO-11012] c 15 N72-11391
Thrust-isolating mounting --- characteristics of support for loads mounted in spacecraft
[NASA-CASE-MFS-21680-1] c 18 N74-27397
Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c 37 N75-18573
Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles
[NASA-CASE-MSC-12619-2] c 27 N79-12221
Shock isolator for operating a diode laser on a closed-cycle refrigerator
[NASA-CASE-GSC-12297-1] c 37 N79-28549
Decoupler pylon: wing/store flutter suppressor
[NASA-CASE-LAR-12468-1] c 08 N82-32373
Vibration isolation and pressure compensation apparatus for sensitive instrumentation
[NASA-CASE-LAR-12728-1] c 35 N83-32026
Aircraft rotor blade with passive tuned tab
[NASA-CASE-ARC-11444-1] c 05 N85-29947
Variable force, eddy-current or magnetic damper
[NASA-CASE-LEW-13717-1] c 37 N85-30333
Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797
VIBRATION MEASUREMENT
Method and apparatus for measuring the damping characteristics of a structure
[NASA-CASE-ARC-10154-1] c 14 N72-22440
Method and apparatus for vibration analysis utilizing the Mossbauer effect
[NASA-CASE-XMF-05882] c 35 N75-27329
Displacement probes with self-contained exciting medium
[NASA-CASE-LAR-11690-1] c 35 N80-14371
Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N85-20299
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Fiber optic vibration transducer and analyzer Patent
[NASA-CASE-XMF-02433] c 14 N71-10616
Ride quality meter
[NASA-CASE-LAR-12882-1] c 35 N84-12445
VIBRATION MODE
Function generator for synthesizing complex vibration mode patterns
[NASA-CASE-LAR-10310-1] c 10 N73-20253
VIBRATION SIMULATORS
Apparatus for vibrational testing of articles
[NASA-CASE-GSC-11302-1] c 14 N73-13416
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Peak acceleration limiter for vibrational tester Patent
[NASA-CASE-NPO-10556] c 14 N71-27185
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[NASA-CASE-MFS-20523] c 14 N72-27412
Apparatus for vibrational testing of articles
[NASA-CASE-GSC-11302-1] c 14 N73-13416
Multi axes vibration fixtures
[NASA-CASE-MFS-20242] c 14 N73-19421
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12458-1] c 44 N83-21503
VIBRATIONAL SPECTRA
Dynamic vibration absorber Patent
[NASA-CASE-LAR-10083-1] c 15 N71-27006
VIDEO COMMUNICATION
Means for generating a sync signal in an FM communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11281
Reduced bandwidth video communication system utilizing sampling techniques Patent
[NASA-CASE-XNP-02791] c 07 N71-23026
Video communication system and apparatus Patent
[NASA-CASE-XNP-06611] c 07 N71-26102
Sampling video compression system
[NASA-CASE-ARC-10984-1] c 32 N77-24328
VIDEO DATA
Digital television camera control system Patent
[NASA-CASE-XNP-01472] c 14 N70-41807
Transient video signal recording with expanded playback Patent
[NASA-CASE-ARC-10003-1] c 09 N71-25866
Facsimile video remodulation network
[NASA-CASE-GSC-10185-1] c 07 N72-12081
Dual digital video switcher
[NASA-CASE-KSC-10782-1] c 33 N75-30431
VIDEO EQUIPMENT
Television signal processing system Patent
[NASA-CASE-NPO-10140] c 07 N71-24742
Video sync processor Patent
[NASA-CASE-KSC-10002] c 10 N71-25865
Video communication system and apparatus Patent
[NASA-CASE-XNP-06611] c 07 N71-26102
Video signal enhancement system with dynamic range compression and modulation index expansion Patent
[NASA-CASE-NPO-10343] c 07 N71-27341
Broadband video process with very high input impedance
[NASA-CASE-NPO-10199] c 09 N72-17156
Electronic video editor
[NASA-CASE-KSC-10003] c 10 N73-13235
Scan converting video tape recorder
[NASA-CASE-NPO-10166-1] c 07 N73-22076
Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c 35 N76-16391
Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656
Reconfigurable work station for a video display unit and keyboard
[NASA-CASE-MFS-26009-1SB] c 54 N86-22114
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Programmable scan/read circuitry for charge coupled device imaging detectors --- spcecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247
Television camera video level control system
[NASA-CASE-MSC-18578-1] c 32 N85-21427
Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MSC-20821-1] c 17 N86-20466
VIDICONS
Method of erasing target material of a vidicon tube or the like Patent
[NASA-CASE-XNP-06028] c 09 N71-23189
Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27036
VIEWING
Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] c 74 N84-11920
Double window viewing chamber assembly
[NASA-CASE-MFS-28057-1] c 09 N85-28951
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Vinyl styrylpyridines and their copolymerization with bismaleimide resins
[NASA-CASE-ARC-11429-1-CU] c 27 N84-16341
Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560
VINYL POLYMERS
Method of using photovoltaic cell using poly-N-vinylcarbazole complex Patent
[NASA-CASE-NPO-10373] c 03 N71-18698
Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-1] c 27 N78-32256
Compound oxidized styrylphosphine --- flame resistant vinyl polymers
[NASA-CASE-MSC-14903-2] c 27 N80-10358
Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-3] c 27 N80-24438
VINYLIDENE
Dicyanoacetylene polymers Patent
[NASA-CASE-XNP-03250] c 06 N71-23500
VIRUSES
Water system virus detection
[NASA-CASE-MSC-16098-1] c 51 N79-10693
VISCOELASTICITY
Resilience testing device Patent
[NASA-CASE-XLA-08254] c 14 N71-26161
Parallel-plate viscometer with double diaphragm suspension
[NASA-CASE-NPO-11387] c 14 N73-14429
Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c 37 N75-18573
Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104
VISCOMETERS
Parallel plate viscometer Patent
[NASA-CASE-XNP-09462] c 14 N71-17584
Parallel-plate viscometer with double diaphragm suspension
[NASA-CASE-NPO-11387] c 14 N73-14429
VISCOSITY
Low viscosity magnetic fluid obtained by the colloidal suspension of magnetic particles Patent
[NASA-CASE-XLE-01512] c 12 N70-40124
Viscosity measuring instrument
[NASA-CASE-NPO-14501-1] c 35 N80-18357
Process of end-capping a polyimide system
[NASA-CASE-LAR-13135-1] c 27 N86-19456
VISCOUS DAMPING
Variable stiffness polymeric damper
[NASA-CASE-XAC-11225] c 14 N69-27486
Viscous-pendulum-damper Patent
[NASA-CASE-XLA-02079] c 12 N71-16894
Viscous pendulum damper Patent
[NASA-CASE-LAR-10274-1] c 14 N71-17626
Multiple plate hydrostatic viscous damper
[NASA-CASE-LEW-12445-1] c 37 N81-22360
VISIBILITY
Controlled visibility device for an aircraft Patent
[NASA-CASE-XFR-04147] c 11 N71-10748
Reusable captive blind fastener
[NASA-CASE-MSC-18742-1] c 37 N82-26673
VISIBLE SPECTRUM
Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059
VISION
Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117
VISORS
Anti-fog composition --- for prevention of fogging on surfaces such as space helmet visors and windshields
[NASA-CASE-MSC-13530-2] c 23 N75-14834
VISUAL ACUITY
Multiparameter vision testing apparatus
[NASA-CASE-MSC-13601-2] c 54 N75-27759
VISUAL CONTROL
Visual target for retrofire attitude control
[NASA-CASE-XMS-12158-1] c 31 N69-27499
Spectrally balanced chromatic landing approach lighting system
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VISUAL FIELDS
Visual examination apparatus
[NASA-CASE-ARC-10329-1] c 05 N73-26072
Visual examination apparatus
[US-PATENT-RE-28,921] c 52 N76-30793
Binocular device for displaying numerical information in field of view
[NASA-CASE-LAR-11782-1] c 74 N77-20882
Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-1] c 09 N84-12193
VISUAL OBSERVATION
Automatic visual inspection system for microelectronics
[NASA-CASE-NPO-13282] c 38 N78-17396
VISUAL PERCEPTION
Liquid flow sight assembly Patent
[NASA-CASE-XLE-02998] c 14 N70-42074
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N84-20522
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Reaction tester
[NASA-CASE-MSC-13604-1] c 05 N73-13114
VOICE COMMUNICATION
Position location system and method Patent
[NASA-CASE-GSC-10087-2] c 21 N71-13958
Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c 07 N71-24621
Protective suit having an audio transceiver Patent
[NASA-CASE-KSC-10164] c 07 N71-33108
Technique for recovery of voice data from heat damaged magnetic tape
[NASA-CASE-MSC-14219-1] c 32 N74-27612
Filtering device --- removing electromagnetic noise from voice communication signals
[NASA-CASE-MFS-22729-1] c 32 N76-21366
Real time analysis of voiced sounds
[NASA-CASE-NPO-13465-1] c 32 N76-31372
Satellite personal communications system
[NASA-CASE-NPO-14480-1] c 32 N80-20448
VOICE DATA PROCESSING
Digital communication system
[NASA-CASE-MSC-13912-1] c 32 N74-30524
A method and apparatus for operating on companded PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N85-29120
VOLATILITY
Apparatus for testing polymeric materials Patent
[NASA-CASE-XNP-09699] c 06 N71-24607
VOLT-AMPERE CHARACTERISTICS
Voltage-current characteristic simulator Patent
[NASA-CASE-XMS-01554] c 10 N71-10578
The dc-to-dc converters employing staggered-phase power switches with two-loop control
[NASA-CASE-NPO-13512-1] c 33 N77-10428
Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18193
VOLTAGE AMPLIFIERS
Electronic amplifier with power supply switching Patent
[NASA-CASE-XMS-00945] c 09 N71-10798
Bootstrap unloader Patent
[NASA-CASE-XNP-09768] c 09 N71-12516
Active RC networks
[NASA-CASE-ARC-10020] c 10 N72-17172
Wide range analog-to-digital converter with a variable gain amplifier
[NASA-CASE-NPO-11018] c 08 N72-21200
Voltage feed through apparatus having reduced partial discharge
[NASA-CASE-GSC-12347-1] c 33 N80-18286
VOLTAGE CONTROLLED OSCILLATORS
Pulsed phase locked loop strain monitor --- voltage controlled oscillators
[NASA-CASE-LAR-12772-1] c 33 N83-16626
Automatic oscillator frequency control system
[NASA-CASE-GSC-12804-1] c 33 N86-20668
Ferroresonant regulated power supply
[NASA-CASE-NPO-15977-1-CU] c 33 N86-20673
VOLTAGE CONVERTERS (DC TO DC)
Regulated dc-to-dc converter for voltage step-up or step-down with input-output isolation
[NASA-CASE-HQN-10792-1] c 33 N74-11049
The dc-to-dc converters employing staggered-phase power switches with two-loop control
[NASA-CASE-NPO-13512-1] c 33 N77-10428
Inrush current limiter
[NASA-CASE-GSC-11789-1] c 33 N77-14333
Phase substitution of spare converter for a failed one of parallel phase staggered converters
[NASA-CASE-NPO-13812-1] c 33 N77-30365
Regulated high efficiency, lightweight capacitor-diode multiplier dc to dc converter
[NASA-CASE-LEW-12791-1] c 33 N78-32341
Buck/boost regulator
[NASA-CASE-GSC-12360-1] c 33 N81-19392
Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393
Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404
Power converter
[NASA-CASE-FRC-11014-1] c 33 N82-18494
A dc to dc converter
[NASA-CASE-MFS-25430-1] c 33 N84-16453
Simplified dc to dc converter
[NASA-CASE-LEW-13495-1] c 33 N84-33663
VOLTAGE GENERATORS
Pulsed energy power system Patent
[NASA-CASE-MSC-13112] c 03 N71-11057
Telemeter adaptable for implanting in an animal Patent
[NASA-CASE-XAC-05706] c 05 N71-12342
Multiple slope sweep generator Patent
[NASA-CASE-XMS-03542] c 09 N71-28926
Controllable load insensitive power converters
[NASA-CASE-ERC-10268] c 09 N72-25252
Driver for solar cell I-V characteristic plots
[NASA-CASE-NPO-14096-1] c 44 N80-18551
Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953
VOLTAGE REGULATORS
Regulated dc to dc converter
[NASA-CASE-XGS-03429] c 03 N69-21330
Power control circuit
[NASA-CASE-XNP-02713] c 10 N69-39888
Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39986
Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987
Regulated power supply Patent
[NASA-CASE-XMS-01991] c 09 N71-21449
High voltage divider system Patent
[NASA-CASE-XLE-02008] c 09 N71-21583
Power supply circuit Patent
[NASA-CASE-XMS-00913] c 10 N71-23543
Voltage to frequency converter Patent
[NASA-CASE-GSC-10022-1] c 10 N71-25882
Buck boost voltage regulation circuit Patent
[NASA-CASE-GSC-10735-1] c 10 N71-26085
Automatic signal range selector for metering devices Patent
[NASA-CASE-XMS-06497] c 14 N71-26244
Voltage regulator with plural parallel power source sections Patent
[NASA-CASE-GSC-10891-1] c 10 N71-26626
Maximum power point tracker Patent
[NASA-CASE-GSC-10376-1] c 14 N71-27407
High power microwave power divider Patent
[NASA-CASE-NPO-11031] c 07 N71-33606
Reference voltage switching unit
[NASA-CASE-NPO-11253] c 09 N72-17157
Switching regulator
[NASA-CASE-LEW-11005-1] c 09 N72-21243
Controllable load insensitive power converters
[NASA-CASE-ERC-10268] c 09 N72-25252
Regulated dc-to-dc converter for voltage step-up or step-down with input-output isolation
[NASA-CASE-HQN-10792-1] c 33 N74-11049
Overvoltage protection network
[NASA-CASE-ARC-10197-1] c 33 N74-17929
Low distortion automatic phase control circuit --- voltage controlled phase shifter
[NASA-CASE-MFS-21671-1] c 33 N74-22885
Voltage monitoring system
[NASA-CASE-KSC-10736-1] c 33 N75-19521
Transformer regulated self-stabilizing chopper
[NASA-CASE-XGS-09186] c 33 N78-17295
Voltage regulator for battery power source --- using a bipolar transistor
[NASA-CASE-FRC-10116-1] c 33 N79-23345
Buck/boost regulator
[NASA-CASE-GSC-12360-1] c 33 N81-19392
Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360
Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418
Three phase power factor controller
[NASA-CASE-MFS-25535-2] c 33 N84-22885
High voltage isolation transformer
[NASA-CASE-GSC-12817-1] c 33 N85-29146
Ferroresonant regulated power supply
[NASA-CASE-NPO-15977-1-CU] c 33 N86-20673
VOLTMETERS
Voltage monitoring system
[NASA-CASE-KSC-10736-1] c 33 N75-19521
VOLUMETRIC ANALYSIS
Volumetric direct nuclear pumped laser
[NASA-CASE-LAR-12183-1] c 36 N79-18307
VOMITING
Venting device for pressurized space suit helmet Patent
[NASA-CASE-XMS-09652-1] c 05 N71-26333
VORTEX BREAKDOWN
Wingtip vortex dissipator for aircraft
[NASA-CASE-LAR-11645-1] c 02 N77-10001
VORTEX FLAPS
Leading edge vortex flaps for drag reduction --- during subsonic flight
[NASA-CASE-LAR-12750-1] c 02 N81-19016
VORTEX GENERATORS
Multiway vortex valve system Patent
[NASA-CASE-XMF-04709] c 15 N71-15609
Vortex generator for controlling the dispersion of effluents in a flowing liquid
[NASA-CASE-LAR-12045-1] c 34 N77-24423
Wingtip vortex turbine
[NASA-CASE-LAR-12544-1] c 07 N81-27096
Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] c 34 N85-33433
Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 07 N85-35194
VORTICES
Vortex-lift roll-control device
[NASA-CASE-LAR-11868-2] c 08 N79-14108
Pumped vortex
[NASA-CASE-LAR-12625-1] c 02 N83-19715
VULCANIZING
Method for compression molding of thermosetting plastics utilizing a temperature gradient across the plastic to cure the article
[NASA-CASE-LAR-10489-1] c 31 N74-18124

W

WAFERS
Apparatus and method for separating a semiconductor wafer Patent
[NASA-CASE-ERC-10138] c 26 N71-14354
Apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction
[NASA-CASE-MFS-23315-1] c 76 N78-24950
System for slicing silicon wafers
[NASA-CASE-NPO-14406-1] c 37 N80-29703
Scriber for silicon wafers
[NASA-CASE-NPO-15539-1] c 37 N82-11469
Method of Fabricating Schottky Barrier solar cell
[NASA-CASE-NPO-13689-4] c 44 N82-28780
Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-15670-1] c 33 N82-33634
High voltage v-groove solar cell
[NASA-CASE-LEW-13401-2] c 44 N83-32177
Method of increasing minority carrier lifetime in silicon web or the like
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Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-256704-1] c 33 N84-22884
Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] c 35 N84-33765
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[NASA-CASE-NPO-15786-1] c 76 N84-35112
Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] c 76 N84-35113
Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N85-20535
Ingot slicing machine and method
[NASA-CASE-NPO-15483-1] c 37 N85-21650
WALKING
Drop foot corrective device
[NASA-CASE-LAR-12259-2] c 54 N86-22112
WALL TEMPERATURE
Method of making apparatus for sensing temperature
[NASA-CASE-XLE-05230-2] c 14 N73-13417
Structural heat pipe --- for spacecraft wall thermal insulation system
[NASA-CASE-GSC-11619-1] c 34 N75-12222
Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523
Curved film cooling admission tube
[NASA-CASE-LEW-13174-1] c 34 N83-27144
WALLS
Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00164] c 15 N70-36411
Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279

Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 37 N85-21652

WARNING SYSTEMS
Out of tolerance warning alarm system for plurality of monitored circuits Patent
[NASA-CASE-XMS-10984-1] c 10 N71-19417
Unsaturating saturable core transformer Patent
[NASA-CASE-ERC-10125] c 09 N71-24893
Electrical apparatus for detection of thermal decomposition of insulation Patent
[NASA-CASE-XMF-03968] c 14 N71-27186
Combustion products generating and metering device
[NASA-CASE-GSC-11095-1] c 14 N72-10375
Stacked array of omnidirectional antennas
[NASA-CASE-LAR-10545-1] c 09 N72-21244
Display research collision warning system
[NASA-CASE-HQN-10703] c 21 N73-13643
System for indicating direction of intruder aircraft
[NASA-CASE-ERC-10226-1] c 14 N73-16483
Silent emergency alarm system for schools and the like
[NASA-CASE-NPO-11307-1] c 10 N73-30205
Apparatus for aiding a pilot in avoiding a midair collision between aircraft
[NASA-CASE-LAR-10717-1] c 21 N73-30641
Inverter ratio failure detector
[NASA-CASE-NPO-13160-1] c 35 N74-18090
Hearing aid malfunction detection system
[NASA-CASE-MSC-14916-1] c 33 N78-10375
Automatic communication signal monitoring system
[NASA-CASE-NPO-13941-1] c 32 N79-10262
Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c 33 N80-23559
Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272

WASHING
Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039

WASTE DISPOSAL
Relief container
[NASA-CASE-XMS-06761] c 05 N69-23192
An airlock
[NASA-CASE-MFS-20922] c 31 N72-20840
Liquid waste feed system
[NASA-CASE-LAR-10365-1] c 05 N72-27102
Reduced gravity fecal collector seat and urinal
[NASA-CASE-MFS-22102-1] c 54 N74-20725
Airlock
[NASA-CASE-MFS-20922-1] c 18 N74-22136
Automatic liquid inventory collecting and dispensing unit
[NASA-CASE-LAR-11071-1] c 35 N75-19611
Automatic biowaste sampling
[NASA-CASE-MSC-14640-1] c 54 N76-14804
Absorbent product and articles made therefrom
[NASA-CASE-MSC-18223-2] c 54 N84-11758

WASTE ENERGY UTILIZATION
Automotive absorption air conditioner utilizing solar and motor waste heat
[NASA-CASE-NPO-15183-1] c 44 N82-26776
Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029
Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389

WASTE HEAT
Thermal control system --- removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14461

WASTE UTILIZATION
Simultaneous treatment of SO2 containing stack gases and waste water
[NASA-CASE-MSC-16258-1] c 45 N79-12584

WASTE WATER
Water system virus detection
[NASA-CASE-MSC-16098-1] c 51 N79-10693
Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747
Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654

WATER
High power-high voltage waterload Patent
[NASA-CASE-XNP-05381] c 09 N71-20842
Procedure and apparatus for determination of water in nitrogen tetroxide
[NASA-CASE-NPO-10234] c 06 N72-17094
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-1] c 37 N76-16446
Solar hydrogen generator
[NASA-CASE-LAR-11361-1] c 44 N77-22607
Remote water monitoring system
[NASA-CASE-LAR-11973-1] c 35 N78-27384
Solar photolysis of water
[NASA-CASE-NPO-14126-1] c 44 N79-11470
A water-absorbing capacitor system for measuring relative humidity
[NASA-CASE-NPO-16544-1-CU] c 35 N86-20755

WATER FLOW
Potable water dispenser
[NASA-CASE-MFS-21115-1] c 54 N74-12779
Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MSC-20857-1] c 37 N86-20807

WATER INJECTION
Reentry communication by material addition Patent
[NASA-CASE-XLA-01552] c 07 N71-11284

WATER LANDING
Vehicle parachute and equipment jettison system Patent
[NASA-CASE-XLA-00195] c 02 N70-38009
Emergency earth orbital escape device
[NASA-CASE-MSC-13281] c 31 N72-18859

WATER MANAGEMENT
Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MSC-10960-1] c 03 N71-24718
Solar-powered pump
[NASA-CASE-NPO-13567-1] c 44 N76-29701

WATER POLLUTION
Compact solar still Patent
[NASA-CASE-XMS-04533] c 15 N71-23086
Bacterial contamination monitor
[NASA-CASE-GSC-10879-1] c 14 N72-25413
Method and automated apparatus for detecting coliform organisms
[NASA-CASE-MSC-16777-1] c 51 N80-27067

WATER QUALITY
Fluid sample collection and distribution system --- qualitative analysis of aqueous samples from several points
[NASA-CASE-MSC-16841-1] c 34 N79-24285
Rapid, quantitative determination of bacteria in water --- adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569
Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849

WATER RECLAMATION
Recovery of potable water from human wastes in below-G conditions Patent
[NASA-CASE-XLA-03213] c 05 N71-11207
Water system virus detection
[NASA-CASE-MSC-16098-1] c 51 N79-10693
Water separator
[NASA-CASE-XMS-01295-1] c 37 N79-21345

WATER RESOURCES
Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498

WATER TEMPERATURE
Differential temperature transducer Patent
[NASA-CASE-XAC-00812] c 14 N71-15598

WATER TREATMENT
Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MSC-10960-1] c 03 N71-24718
Method of preparing water purification membranes --- polymerization of allyl amine as thin films in plasma discharge
[NASA-CASE-ARC-10643-1] c 25 N75-12087
Iodine generator for reclaimed water purification
[NASA-CASE-MSC-14632-1] c 54 N78-14784
Water system virus detection
[NASA-CASE-MSC-16098-1] c 51 N79-10693
Simultaneous treatment of SO2 containing stack gases and waste water
[NASA-CASE-MSC-16258-1] c 45 N79-12584
Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747
Ozonation of cooling tower waters
[NASA-CASE-NPO-14340-1] c 45 N80-14579
Reverse osmosis membrane of high urea rejection properties --- water purification
[NASA-CASE-ARC-10980-1] c 27 N80-23452
Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076
Sewage sludge additive
[NASA-CASE-NPO-13877-1] c 45 N82-11634
Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654

WATER VAPOR
Vapor pressure measuring system and method Patent
[NASA-CASE-XMS-01618] c 14 N71-20741
Cell and method for electrolysis of water and anode
[NASA-CASE-MSC-16394-1] c 28 N81-24280
Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681

WATER WAVES
Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391
Oceanic wave measurement system
[NASA-CASE-MFS-23862-1] c 48 N80-18667

WATERPROOFING
Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c 37 N74-21063
Elevated waterproof access floor system and method of making the same
[NASA-CASE-ARC-11363-1] c 31 N83-28281

WATERWAVE ENERGY CONVERSION
Natural turbulence electrical power generator --- using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834

WAVE AMPLIFICATION
Distributed feedback acoustic surface wave oscillator
[NASA-CASE-NPO-13673-1] c 71 N77-26919

WAVE DIFFRACTION
Diffractoid grating configuration for X-ray and ultraviolet focusing
[NASA-CASE-GSC-12357-1] c 74 N80-21140

WAVE FRONT RECONSTRUCTION
Recording and reconstructing focused image holograms Patent
[NASA-CASE-ERC-10017] c 16 N71-15567

WAVE GENERATION
Wind tunnel airstream oscillating apparatus Patent
[NASA-CASE-XLA-00112] c 11 N70-33287
Linear sawtooth voltage-wave generator employing transistor timing circuit having capacitor-zener diode combination feedback Patent
[NASA-CASE-XMS-01315] c 09 N70-41675
Waveform simulator Patent
[NASA-CASE-NPO-10251] c 10 N71-27365
Wide band doubler and sine wave quadrature generator
[NASA-CASE-NPO-11133] c 10 N72-20223
Material suspension within an acoustically excited resonant chamber --- at near weightless conditions
[NASA-CASE-NPO-13263-1] c 12 N75-24774
Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752

WAVE INTERACTION
Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N82-26568

WAVE PROPAGATION
Double reference pulsed phase locked loop (DRP-2L-2)
[NASA-CASE-LAR-13310-1] c 32 N85-21441

WAVE REFLECTION
Microwave flaw detector Patent
[NASA-CASE-ARC-10009-1] c 15 N71-17822
Millimeter wave antenna system Patent Application
[NASA-CASE-GSC-10949-1] c 07 N71-28965

WAVE RESISTANCE
Reactanceless synthesized impedance bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N85-29145

WAVE SCATTERING
Device and method for determining X ray reflection efficiency of optical surfaces
[NASA-CASE-MFS-20243] c 23 N73-13662
Method and apparatus for Delta Kappa synthetic aperture radar measurement of ocean current
[NASA-CASE-NPO-15704-1] c 32 N85-34327

WAVEFORMS
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00131] c 09 N70-38995
Single or joint amplitude distribution analyzer Patent
[NASA-CASE-XNP-01383] c 09 N71-10659
Peak polarity selector Patent
[NASA-CASE-FRC-10010] c 10 N71-24862
Family of frequency to amplitude converters
[NASA-CASE-MSC-12395] c 09 N72-25257
Apparatus for statistical time-series analysis of electrical signals
[NASA-CASE-MSC-12428-1] c 10 N73-25240
Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c 32 N76-16249
Speech analyzer
[NASA-CASE-GSC-11898-1] c 32 N77-30309
Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c 33 N79-10337

WAVEGUIDE ANTENNAS
Virtual wall slot circularly polarized planar array antenna
[NASA-CASE-NPO-10301] c 07 N72-11148
WAVEGUIDE FILTERS
High power microwave power divider Patent
[NASA-CASE-NPO-11031] c 07 N71-33606
WAVEGUIDE WINDOWS
Broadband microwave waveguide window Patent
[NASA-CASE-XNP-08880] c 09 N71-24808
WAVEGUIDES
Dual waveguide mode source having control means for adjusting the relative amplitude of two modes Patent
[NASA-CASE-XNP-03134] c 07 N71-10676
Folded traveling wave maser structure Patent
[NASA-CASE-XNP-05219] c 16 N71-15550
Quasi-optical microwave component Patent
[NASA-CASE-ERC-10011] c 07 N71-29065
Waveguide mixer
[NASA-CASE-ERC-10179] c 07 N72-20141
Active microwave irises and windows
[NASA-CASE-LAR-10513-1] c 07 N72-25170
Thin film microwave iris
[NASA-CASE-LAR-10511-1] c 09 N72-29172
Resonant waveguide stark cell --- using microwave spectrometers
[NASA-CASE-LAR-11352-1] c 33 N75-26245
Diffused waveguiding capillary tube with distributed feedback for a gas laser
[NASA-CASE-NPO-13544-1] c 36 N76-18428
Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures
[NASA-CASE-NPO-14254-1] c 36 N80-18372
Support assembly for cryogenically coolable low-noise choke waveguide
[NASA-CASE-NPO-14253-1] c 32 N80-32605
Coaxial phased array antenna
[NASA-CASE-MSC-16800-1] c 32 N81-14187
Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N82-26568
Waveguide cooling system
[NASA-CASE-NPO-15401-1] c 32 N83-27085
WAVELENGTHS
Method and apparatus for wavelength tuning of liquid lasers
[NASA-CASE-ERC-10187] c 16 N69-31343
Instrument for the quantitative measurement of radiation at multiple wave lengths Patent
[NASA-CASE-XLE-00011] c 14 N70-41946
Optical systems having spatially invariant outputs
[NASA-CASE-ERC-10248] c 14 N72-17323
Two color horizon sensor
[NASA-CASE-ERC-10174] c 14 N72-25409
Monitoring deposition of films
[NASA-CASE-MFS-20675] c 26 N73-26751
Dual wavelength scanning Doppler velocimeter --- without perturbation of flow fields
[NASA-CASE-ARC-10637-1] c 35 N75-16783
Diatomic infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426
Fluorescent radiation converter
[NASA-CASE-GSC-12528-1] c 74 N81-24900
Acoustic levitation methods and apparatus
[NASA-CASE-NPO-15562-1] c 71 N82-27086
Extended range X-ray telescope
[NASA-CASE-MFS-25282-1] c 34 N83-19015
Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
Acoustic suspension system
[NASA-CASE-NPO-15435-1] c 71 N83-36846
WAVES
Natural turbulence electrical power generator --- using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834
WEAR
Refractory coatings
[NASA-CASE-LEW-13169-2] c 26 N82-30371
WEAR INHIBITORS
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540
WEATHERPROOFING
Weatherproof helix antenna Patent
[NASA-CASE-XKS-08485] c 07 N71-19493
WEBS (SHEETS)
Method and apparatus for measuring web material wound on a reel
[NASA-CASE-GSC-11902-1] c 38 N77-17495
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
WEBS (SUPPORTS)
Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-2] c 07 N78-18066
Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-3] c 07 N79-14096
WEDGES
Two dimensional wedge/translating shroud nozzle
[NASA-CASE-LAR-11919-1] c 07 N78-27121
Interlocking wedge joint
[NASA-CASE-LAR-12729-1] c 37 N82-26676
WEIGHT (MASS)
Suspended mass impact damper Patent
[NASA-CASE-LAR-10193-1] c 15 N71-27146
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443
WEIGHT INDICATORS
Device for monitoring a change in mass in varying gravimetric environments
[NASA-CASE-MFS-21556-1] c 35 N74-26945
WEIGHT MEASUREMENT
Automatic force measuring system Patent
[NASA-CASE-XLA-02605] c 14 N71-10773
Device for monitoring a change in mass in varying gravimetric environments
[NASA-CASE-MFS-21556-1] c 35 N74-26945
Portable pallet weighing apparatus
[NASA-CASE-GSC-12789-1] c 35 N85-20294
WEIGHTLESSNESS
Apparatus for transferring cryogenic liquids Patent
[NASA-CASE-XLE-00345] c 15 N70-38020
Liquid-gas separation system Patent
[NASA-CASE-XMS-01624] c 15 N70-40062
Measuring device Patent
[NASA-CASE-XMS-01546] c 14 N70-40233
Zero gravity starting means for liquid propellant motors Patent
[NASA-CASE-XNP-01390] c 28 N70-41275
Liquid-gas separator for zero gravity environment Patent
[NASA-CASE-XMS-01492] c 05 N70-41297
Recovery of potable water from human wastes in below-G conditions Patent
[NASA-CASE-XLA-03213] c 05 N71-11207
Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968
Reduced gravity simulator Patent
[NASA-CASE-XLA-01787] c 11 N71-16028
Method and apparatus of simulating zero gravity conditions Patent
[NASA-CASE-MFS-12750] c 27 N71-16223
Quick disconnect latch and handle combination Patent
[NASA-CASE-MFS-11132] c 15 N71-17649
Spherical tank gauge Patent
[NASA-CASE-XMS-06236] c 14 N71-21007
Zero gravity apparatus Patent
[NASA-CASE-XMF-06515] c 14 N71-23227
Skeletal stressing method and apparatus Patent
[NASA-CASE-ARC-10100-1] c 05 N71-24738
Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27036
Method of making foamed materials in zero gravity
[NASA-CASE-XMF-09902] c 15 N72-11387
Remote control manipulator for zero gravity environment
[NASA-CASE-MFS-14405] c 15 N72-28495
Zero gravity liquid mixer
[NASA-CASE-LAR-10195-1] c 15 N73-19458
Zero gravity liquid transfer screen
[NASA-CASE-KSC-10626] c 14 N73-27378
Reduced gravity fecal collector seat and urinal
[NASA-CASE-MFS-22102-1] c 54 N74-20725
Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-MFS-21394-1] c 34 N74-27744
Rotary plant growth accelerating apparatus --- weightlessness
[NASA-CASE-ARC-10722-1] c 51 N75-25503
Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c 34 N75-26282
Method for manufacturing mirrors in zero gravity environment
[NASA-CASE-MSC-12611-1] c 12 N76-15189
Fluid mass sensor for a zero gravity environment
[NASA-CASE-MSC-14653-1] c 35 N77-19385
Method of crystallization --- in gravity-free environments
[NASA-CASE-MFS-23001-1] c 76 N77-32919
Passive propellant system
[NASA-CASE-MFS-23642-1] c 20 N80-10278
Method and apparatus for producing concentric hollow spheres --- inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319
WEIGHTLESSNESS SIMULATION
Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
Mass measuring system Patent
[NASA-CASE-XMS-03371] c 05 N70-42000
Harness assembly Patent
[NASA-CASE-MFS-14671] c 05 N71-12341
Whole body measurement systems --- for weightlessness simulation
[NASA-CASE-MSC-13972-1] c 52 N74-10975
WELD STRENGTH
Grain refinement control in TIG arc welding
[NASA-CASE-MSC-19095-1] c 37 N75-19683
WELD TESTS
Determination of spot weld quality Patent
[NASA-CASE-XNP-02588] c 15 N71-18613
Method and apparatus for swept-frequency impedance measurements of welds
[NASA-CASE-ARC-10176-1] c 15 N72-21464
WELDED JOINTS
Apparatus for welding blades to rotors
[NASA-CASE-LEW-10533-2] c 37 N74-11300
Ultrasonic scanning system for in-place inspection of brazed tube joints
[NASA-CASE-MFS-20767-1] c 38 N74-15130
Device for measuring the ferrite content in an austenitic stainless-steel weld
[NASA-CASE-MFS-22907-1] c 26 N76-18257
Capillary flow weld-bonding
[NASA-CASE-LAR-11726-1] c 37 N76-27568
Automated weld torch guidance control system
[NASA-CASE-MFS-25807-2] c 37 N86-21850
WELDED STRUCTURES
Grain refinement control in TIG arc welding
[NASA-CASE-MSC-19095-1] c 37 N75-19683
Flanged major modular assembly jig
[NASA-CASE-MSC-19372-1] c 39 N76-31562
Weld-bonded titanium structures
[NASA-CASE-LAR-11549-1] c 37 N77-11397
Bimetallic junctions
[NASA-CASE-LEW-11573-1] c 26 N77-28265
WELDING
Segmented back-up bar Patent
[NASA-CASE-XMF-00640] c 15 N70-39924
Flexible back-up bar Patent
[NASA-CASE-XMF-00722] c 15 N70-40204
Apparatus for welding sheet material --- butt joints
[NASA-CASE-XMS-01330] c 37 N75-27376
Weld-bonded titanium structures
[NASA-CASE-LAR-11549-1] c 37 N77-11397
Method and apparatus for holding two separate metal pieces together for welding
[NASA-CASE-GSC-12318-1] c 37 N80-23655
Automatic weld torch guidance control system
[NASA-CASE-MFS-25807] c 37 N83-20154
Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35338
Alignment and assembly tool for very large diameter cylinders
[NASA-CASE-MFS-28001-1] c 37 N85-29289
Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-20802
WELDING MACHINES
Apparatus for welding torch angle and seam tracking control Patent
[NASA-CASE-XMF-03287] c 15 N71-15607
Automatic welding speed controller Patent
[NASA-CASE-XMF-01730] c 15 N71-23050
Electric welding torch Patent
[NASA-CASE-XMF-02330] c 15 N71-23798
Welding skate with computerized control Patent
[NASA-CASE-XMF-07069] c 15 N71-23815
Computerized system for translating a torch head
[NASA-CASE-MFS-23620-1] c 37 N79-10421
Welding torch arc light reflector
[NASA-CASE-MFS-29134-1] c 74 N86-20130
WET CELLS
Method and device for determining battery state of charge Patent
[NASA-CASE-NPO-10194] c 03 N71-20407
WETTING
Pretreatment method for anti-wettable materials
[NASA-CASE-XMS-03537] c 15 N69-21471
WHEATSTONE BRIDGES
Self-balancing strain gage transducer Patent
[NASA-CASE-MFS-12827] c 14 N71-17656
Method for improving the signal-to-noise ratio of the Wheatstone bridge type bolometer Patent
[NASA-CASE-XLA-02810] c 14 N71-25901
Temperature control system with a pulse width modulated bridge
[NASA-CASE-NPO-11304] c 14 N73-26430
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
WHEELS
Non-backdriveable free wheeling coupling
[NASA-CASE-MSC-20475-1] c 37 N85-29290

WHISKER COMPOSITES
Reinforced metallic composites Patent
[NASA-CASE-XLE-00228] c 17 N70-38490
WHISKERS (CRYSTALS)
Catalyst for growth of boron carbide single crystal whiskers
[NASA-CASE-XHQ-03903] c 15 N69-21922
WICKS
Method of forming a wick for a heat pipe
[NASA-CASE-NPO-13391-1] c 34 N76-27515
Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] c 34 N85-29180
WIDE ANGLE LENSES
Wide angle long eye relief eyepiece Patent
[NASA-CASE-XMS-06056-1] c 23 N71-24857
WIDEBAND COMMUNICATION
Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346
Multiple band circularly polarized microstrip antenna
[NASA-CASE-MSC-18334-1] c 32 N80-32604
WINCHES
Winch having cable position and load indicators Patent
[NASA-CASE-MSC-12052-1] c 15 N71-24599
WIND DIRECTION
Radionuclide counting technique for measuring wind velocity and direction
[NASA-CASE-LAR-12971-1] c 47 N84-28292
WIND EFFECTS
Viscous pendulum damper Patent
[NASA-CASE-LAR-10274-1] c 14 N71-17626
Aircraft liftmeter
[NASA-CASE-LAR-12518-1] c 06 N84-32383
WIND MEASUREMENT
Passive optical wind and turbulence detection system Patent
[NASA-CASE-XMF-14032] c 20 N71-16340
Maxometers (peak wind speed anemometers)
[NASA-CASE-MFS-20916] c 14 N73-25460
Wind sensor
[NASA-CASE-NPO-13462-1] c 35 N76-24524
Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c 35 N77-10493
Wind measurement system
[NASA-CASE-MFS-23362-1] c 47 N77-10753
WIND PROFILES
Wind velocity probing device and method Patent
[NASA-CASE-XLA-02081] c 20 N71-16281
WIND SHEAR
CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040
Aircraft liftmeter
[NASA-CASE-LAR-12518-1] c 06 N84-32383
WIND TUNNEL APPARATUS
Wind tunnel airstream oscillating apparatus Patent
[NASA-CASE-XLA-00112] c 11 N70-33287
Electric arc device for heating gases Patent
[NASA-CASE-XAC-00319] c 25 N70-41628
Test unit free-flight suspension system Patent
[NASA-CASE-XLA-00939] c 11 N71-15926
Burst diaphragm flow initiator Patent
[NASA-CASE-MFS-12915] c 11 N71-17600
Electric arc apparatus Patent
[NASA-CASE-XAC-01677] c 09 N71-20816
Model launcher for wind tunnels Patent
[NASA-CASE-XNP-03578] c 11 N71-23030
Wind tunnel microphone structure Patent
[NASA-CASE-XNP-00250] c 11 N71-28779
Wind tunnel
[NASA-CASE-LAR-10135-1] c 09 N79-21083
Metric half-span model support system
[NASA-CASE-LAR-12441-1] c 09 N82-23254
WIND TUNNEL CALIBRATION
Rotary target V-block
[NASA-CASE-LAR-12007-3] c 35 N84-16523
WIND TUNNEL DRIVES
Electric arc driven wind tunnel Patent
[NASA-CASE-XMF-00411] c 11 N70-36913
WIND TUNNEL MODELS
Flow field simulation Patent
[NASA-CASE-LAR-11138] c 12 N71-20436
Multilegged support system Patent
[NASA-CASE-XLA-01326] c 11 N71-21481
Model launcher for wind tunnels Patent
[NASA-CASE-XNP-03578] c 11 N71-23030
Wind tunnel model damper Patent
[NASA-CASE-XLA-09480] c 11 N71-33612
Wind tunnel model and method
[NASA-CASE-LAR-10812-1] c 09 N74-17955
Method for determining thermo-physical properties of specimens --- photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c 25 N74-18551
Metric half-span model support system
[NASA-CASE-LAR-12441-1] c 09 N82-23254
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12458-1] c 44 N83-21503
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12720-1] c 44 N83-21504
Model mount system for testing flutter
[NASA-CASE-LAR-12950-1] c 09 N84-34448
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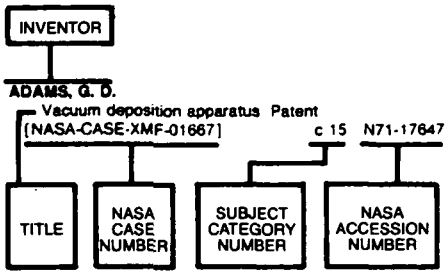

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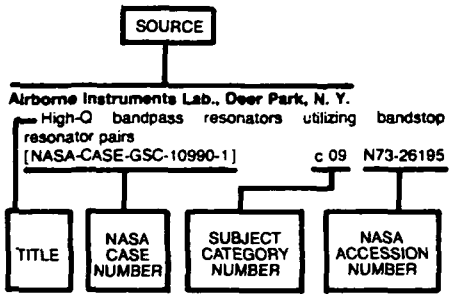

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Beckman Instruments, Inc., South Pasadena, Calif.
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Becton, Dickinson and Co., Rutherford, N.J.
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Beech Aircraft Corp., Boulder, Colo.
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Bell Aerospace Co., Buffalo, N. Y.
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Bellcomm, Inc., Washington, D. C.
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Bendix Corp., Teterboro, N.J.
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Bionetics Corp., Hampton, Va.
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Boeing Aerospace Co., Houston, Tex.
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[NASA-CASE-MSC-16841-1] c 34 N79-24285
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Boeing Aerospace Co., Seattle, Wash.
Method and apparatus for fabricating improved solar cell modules
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Boeing Co., Cocoa Beach, Fla.
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[NASA-CASE-FRC-10053] c 14 N70-35587
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Plasma cleaning device
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[NASA-CASE-LAR-11695-2] c 37 N80-18402
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Borden, Inc., New York, N.Y.
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[NASA-CASE-GSC-10350-1] c 44 N82-24642
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[NASA-CASE-GSC-10018-1] c 44 N82-24644
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[NASA-CASE-XMF-04966] c 14 N71-17658
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[NASA-CASE-XMF-01779] c 12 N71-20815
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Temperature regulation circuit Patent
[NASA-CASE-XNP-02792] c 14 N71-28958

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[NASA-CASE-NPO-14641-1] c 32 N81-29308
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[NASA-CASE-NPO-13689-2] c 44 N81-29525
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Resistive anode image converter
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[NASA-CASE-ARC-10991-1] c 25 N78-14104
Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229
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[NASA-CASE-ARC-11121-1] c 25 N79-14169

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[NASA-CASE-XNP-04167-2] c 25 N72-24753
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[NASA-CASE-GSC-11394-1] c 09 N73-32109

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[NASA-CASE-XLA-00189] c 33 N70-36846
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[NASA-CASE-XMF-01083] c 15 N71-22723
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[NASA-CASE-XLA-00188] c 15 N71-22874

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[NASA-CASE-LAR-12958-1] c 44 N84-23019

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Ceramic insulation for radiant heating environments and method of preparing the same Patent
[NASA-CASE-MFS-14253] c 33 N71-24858
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[NASA-CASE-XMF-04208] c 33 N71-29051

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[NASA-CASE-XMF-04132] c 15 N69-27502

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[NASA-CASE-MSC-18172-1] c 26 N80-19237

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[NASA-CASE-GSC-10667-1] c 10 N71-33129
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[NASA-CASE-XMS-01077-1] c 37 N79-33467
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[NASA-CASE-MSC-12389] c 33 N71-29052
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[NASA-CASE-GSC-10786-1] c 10 N72-28241
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[NASA-CASE-LEW-12465-1] c 25 N78-25148
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[NASA-CASE-NPO-11366] c 11 N73-26238
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[NASA-CASE-XNP-06032] c 09 N69-21926
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[NASA-CASE-XNP-06031] c 15 N71-15606
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[NASA-CASE-MFS-23862-1] c 48 N80-18667
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[NASA-CASE-GSC-12808-1] c 25 N85-21279
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[NASA-CASE-ARC-11372-1] c 08 N83-12098
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[NASA-CASE-MSC-12280] c 27 N71-16348
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[NASA-CASE-MSC-18106-1] c 33 N82-11357
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Flux sensing device using a tubular core with toroidal gating coil and solenoidal output coil wound thereon Patent
[NASA-CASE-XGS-01881] c 09 N70-40123
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[NASA-CASE-GSC-12053-1] c 32 N77-28346

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[NASA-CASE-LAR-11027-1] c 35 N74-18088
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[NASA-CASE-HQN-10638-1] c 15 N73-30460
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[NASA-CASE-LAR-12939-1] c 37 N86-20798
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[NASA-CASE-XMS-04312] c 07 N71-22984
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[NASA-CASE-XNP-06914] c 15 N71-21489
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[NASA-CASE-XNP-01848] c 15 N71-28959
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[NASA-CASE-MSC-13789-1] c 11 N73-32152
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[NASA-CASE-HQN-10792-1] c 33 N74-11049
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[NASA-CASE-ERC-10468] c 09 N72-20206
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[NASA-CASE-XNP-02899-1] c 33 N79-21265
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[NASA-CASE-XNP-01263-2] c 15 N71-26312
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[NASA-CASE-XGS-00740] c 07 N71-23098
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[NASA-CASE-XGS-01674] c 03 N71-29129
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[NASA-CASE-NPO-11021] c 03 N72-20032
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[NASA-CASE-XNP-03332] c 09 N71-10618
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[NASA-CASE-LEW-10393-1] c 17 N71-15468
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[NASA-CASE-XNP-00952] c 10 N71-23271
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[NASA-CASE-XNP-09770-3] c 11 N71-27036
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[NASA-CASE-GSC-10441-1] c 14 N71-27325
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[NASA-CASE-MFS-20096] c 14 N71-30026
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[NASA-CASE-GSC-11018-1] c 31 N73-30829
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[NASA-CASE-MFS-23405-1] c 26 N77-29260
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[NASA-CASE-XMS-05894-1] c 15 N69-21924
Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
Dual latching solenoid valve Patent
[NASA-CASE-XMS-05890] c 09 N71-23191
Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MSC-10960-1] c 03 N71-24718
Low cycle fatigue testing machine
[NASA-CASE-LAR-10270-1] c 32 N72-25877
Process for separation of dissolved hydrogen from water by use of palladium and process for coating palladium with palladium black
[NASA-CASE-MSC-13335-1] c 06 N72-31140
Flexible joint for pressurizable garment
[NASA-CASE-MSC-11072] c 54 N74-32546
Gas compression apparatus
[NASA-CASE-MSC-14757-1] c 35 N78-10428
Wind tunnel
[NASA-CASE-LAR-10135-1] c 09 N79-21083
Water separator
[NASA-CASE-XMS-01295-1] c 37 N79-21345
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[NASA-CASE-MFS-25215-1] c 33 N83-31953
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[NASA-CASE-LAR-10551-1] c 25 N74-12813
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[NASA-CASE-MFS-22991-1] c 34 N77-10463
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[NASA-CASE-XNP-03930] c 14 N69-24331
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[NASA-CASE-MFS-21214-1] c 09 N73-30181
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[NASA-CASE-LEW-12419-1] c 07 N77-14025
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[NASA-CASE-LEW-12760-1] c 07 N77-17059
Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c 24 N77-19170
Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12830-1] c 07 N77-23106
Blade retainer assembly
[NASA-CASE-LEW-12608-1] c 07 N77-27116
Platform for a swing root turbomachinery blade
[NASA-CASE-LEW-12312-1] c 07 N77-32148
Deformable bearing seat
[NASA-CASE-LEW-12527-1] c 37 N77-32500

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[NASA-CASE-LEW-12477-1] c 37 N77-32501
Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12321-1] c 37 N78-10467
Impact absorbing blade mounts for variable pitch blades
[NASA-CASE-LEW-12313-1] c 37 N78-10468
Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055
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[NASA-CASE-LEW-12390-1] c 07 N78-17056
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[NASA-CASE-LEW-12916-1] c 37 N78-17384
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[NASA-CASE-LEW-12452-1] c 07 N78-25089
Redundant disc
[NASA-CASE-LEW-12496-1] c 07 N78-33101
Fuel delivery system including heat exchanger means
[NASA-CASE-LEW-12793-1] c 37 N79-11403
Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-3] c 07 N79-14096
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[NASA-CASE-LEW-12378-1] c 07 N79-14097
Sound-suppressing structure with thermal relief
[NASA-CASE-LEW-12658-1] c 71 N79-14871
Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-18039
Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999
Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115
Integrated control system for a gas turbine engine
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Thrust reverser for a long duct fan engine
[NASA-CASE-LEW-13199-1] c 07 N82-26293
Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603
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[NASA-CASE-LEW-13142-1] c 07 N83-36029
Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560
Air modulation apparatus
[NASA-CASE-LEW-13524-1] c 07 N84-33410
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[NASA-CASE-LEW-13142-2] c 07 N86-20389

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[NASA-CASE-LEW-12917-1] c 07 N78-18067

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[NASA-CASE-XHQ-03903] c 15 N69-21922
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[NASA-CASE-XGS-02011] c 15 N71-20739
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[NASA-CASE-MSC-13917-1] c 05 N72-15098
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[NASA-CASE-MSC-13609-1] c 05 N72-25122
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[NASA-CASE-MFS-21441-1] c 14 N73-30392
Inverter ratio failure detector
[NASA-CASE-NPO-13160-1] c 35 N74-18090
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[NASA-CASE-MFS-21395-1] c 25 N74-26948
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[NASA-CASE-MFS-21394-1] c 34 N74-27744
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[NASA-CASE-MSC-13601-2] c 54 N75-27759
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[NASA-CASE-MSC-14640-1] c 54 N76-14804
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[NASA-CASE-NPO-14467-1] c 44 N79-31753
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[NASA-CASE-GSC-12347-1] c 33 N80-18286

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[NASA-CASE-LEW-10219-1] c 18 N71-28729

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[NASA-CASE-MFS-21931-1] c 37 N75-26372

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[NASA-CASE-ARC-10266-1] c 33 N75-29318
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[NASA-CASE-MSC-16394-1] c 28 N81-24280
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[NASA-CASE-GSC-11353-1] c 74 N74-21304
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[NASA-CASE-GSC-12059-1] c 35 N77-27366
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[NASA-CASE-XNP-00459] c 11 N70-38675
Ejection unit Patent
[NASA-CASE-XNP-00676] c 15 N70-38996
Time-division multiplexer Patent
[NASA-CASE-XNP-00431] c 09 N70-38998
Trajectory-correction propulsion system Patent
[NASA-CASE-XNP-01104] c 28 N70-39931
Electrically-operated rotary shutter Patent
[NASA-CASE-XNP-00637] c 14 N70-40273
Zero gravity starting means for liquid propellant motors Patent
[NASA-CASE-XNP-01390] c 28 N70-41275
Parallel motion suspension device Patent
[NASA-CASE-XNP-01567] c 15 N70-41310
Ignition means for monopropellant Patent
[NASA-CASE-XNP-00876] c 28 N70-41311
Reinforcing means for diaphragms Patent
[NASA-CASE-XNP-01962] c 32 N70-41370
High pressure filter Patent
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Phase-locked loop with sideband rejecting properties Patent
[NASA-CASE-XNP-02723] c 07 N70-41680
Digital television camera control system Patent
[NASA-CASE-XNP-01472] c 14 N70-41807
Antiflutter ball check valve Patent
[NASA-CASE-XNP-01152] c 15 N70-41811
Roll attitude star sensor system Patent
[NASA-CASE-XNP-01307] c 21 N70-41856
Process for preparing sterile solid propellants Patent
[NASA-CASE-XNP-01749] c 27 N70-41897
Solenoid construction Patent
[NASA-CASE-XNP-01951] c 09 N70-41929
Closed loop ranging system Patent
[NASA-CASE-XNP-01501] c 21 N70-41930
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[NASA-CASE-XNP-05082] c 15 N70-41960
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[NASA-CASE-XNP-00911] c 08 N70-41961
Baseline stabilization system for ionization detector Patent
[NASA-CASE-XNP-03128] c 10 N70-41991
Single or joint amplitude distribution analyzer Patent
[NASA-CASE-XNP-01383] c 09 N71-10659
Dual waveguide mode source having control means for adjusting the relative amplitude of two modes Patent
[NASA-CASE-XNP-03134] c 07 N71-10676
Method for determining the state of charge of batteries by the use of tracers Patent
[NASA-CASE-XNP-01464] c 03 N71-10728
High pressure regulator valve Patent
[NASA-CASE-XNP-00710] c 15 N71-10778
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[NASA-CASE-XNP-06506] c 03 N71-11050
Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051
Solar cell submodule Patent
[NASA-CASE-XNP-05821] c 03 N71-11056
Reflectometer for receiver input impedance match measurement Patent
[NASA-CASE-XNP-10843] c 07 N71-11267
Means for generating a sync signal in an FM communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11281
Multi-feed cone Cassegrain antenna Patent
[NASA-CASE-NPO-10539] c 07 N71-11285
Thermionic diode switch Patent
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Anti-backlash circuit for hydraulic drive system Patent
[NASA-CASE-XNP-01020] c 03 N71-12260
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[NASA-CASE-NPO-10112] c 08 N71-12502
Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503
Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505
Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506
Magnetic counter Patent
[NASA-CASE-XNP-08836] c 09 N71-12515
Operational integrator Patent
[NASA-CASE-NPO-10230] c 09 N71-12520
Starting circuit for vapor lamps and the like Patent
[NASA-CASE-XNP-01058] c 09 N71-12540
Matched thermistors for microwave power meters Patent
[NASA-CASE-NPO-10348] c 10 N71-12554
Micro current measuring device using plural logarithmic response heated filamentary type diodes Patent
[NASA-CASE-XNP-00384] c 09 N71-13530
Automatic thermal switch Patent
[NASA-CASE-XNP-03796] c 23 N71-15467
Photoelectric energy spectrometer Patent
[NASA-CASE-XNP-04161] c 14 N71-15599
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[NASA-CASE-NPO-10337] c 14 N71-15604
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[NASA-CASE-NPO-10117] c 15 N71-15608
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[NASA-CASE-XNP-04111] c 14 N71-15622
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[NASA-CASE-XNP-03459-2] c 18 N71-15688
Intermittent type silica gel adsorption refrigerator Patent
[NASA-CASE-XNP-00920] c 15 N71-15906
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[NASA-CASE-XNP-01057] c 07 N71-15907
Means for controlling rupture of shock tube diaphragms Patent
[NASA-CASE-XAC-00731] c 11 N71-15960
Insertion loss measuring apparatus having transformer means connected across a pair of bolometers Patent
[NASA-CASE-XNP-01193] c 10 N71-16057
Polarimeter for transient measurement Patent
[NASA-CASE-XNP-08883] c 23 N71-16101
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[NASA-CASE-XNP-08837] c 18 N71-16210
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[NASA-CASE-NPO-10138] c 33 N71-16357
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[NASA-CASE-XNP-08840] c 23 N71-16365
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[NASA-CASE-XNP-01153] c 32 N71-17645
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Interferometer servo system Patent
[NASA-CASE-NPO-10300] c 14 N71-17662
Electrical spot terminal assembly Patent
[NASA-CASE-NPO-10034] c 15 N71-17685
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[NASA-CASE-NPO-10064] c 15 N71-17693
Incremental motion drive system Patent
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[NASA-CASE-NPO-10144] c 14 N71-17701
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[NASA-CASE-NPO-10174] c 14 N71-18465
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[NASA-CASE-NPO-10066] c 09 N71-18598
High impact pressure regulator Patent
[NASA-CASE-NPO-10175] c 14 N71-18625
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[NASA-CASE-NPO-10201] c 08 N71-18694
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[NASA-CASE-NPO-10373] c 03 N71-18698
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[NASA-CASE-XNP-09450] c 10 N71-18723
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[NASA-CASE-XNP-03263] c 09 N71-18843
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[NASA-CASE-NPO-10068] c 08 N71-19288
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[NASA-CASE-XNP-09453] c 08 N71-19420
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Solar cell matrix Patent
[NASA-CASE-NPO-10821] c 03 N71-19545
Electrical switching device Patent
[NASA-CASE-NPO-10037] c 09 N71-19610
Drift compensation circuit for analog to digital converter Patent
[NASA-CASE-XNP-04780] c 08 N71-19687
Roll-up solar array Patent
[NASA-CASE-NPO-10188] c 03 N71-20273
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[NASA-CASE-XNP-09770] c 15 N71-20440

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[NASA-CASE-XNP-09775] c 09 N71-20445
Synchronous servo loop control system Patent
[NASA-CASE-XNP-03744] c 10 N71-20448
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[NASA-CASE-XNP-09763] c 14 N71-20461
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[NASA-CASE-XNP-05254] c 07 N71-20791
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[NASA-CASE-XNP-01306] c 07 N71-20814
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[NASA-CASE-XNP-05381] c 09 N71-20842
Coaxial cable connector Patent
[NASA-CASE-XNP-04732] c 09 N71-20851
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[NASA-CASE-XNP-03459] c 15 N71-21078
Miniature stress transducer Patent
[NASA-CASE-XNP-02983] c 14 N71-21091
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[NASA-CASE-XNP-03637] c 15 N71-21311
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[NASA-CASE-XNP-06914] c 15 N71-21489
Light position locating system Patent
[NASA-CASE-XNP-01059] c 23 N71-21821
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[NASA-CASE-XNP-04124] c 28 N71-21822
Data compressor Patent
[NASA-CASE-XNP-04067] c 08 N71-22707
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[NASA-CASE-XNP-02748] c 08 N71-22749
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[NASA-CASE-XNP-01753] c 08 N71-22897
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[NASA-CASE-XNP-08680] c 14 N71-22995
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[NASA-CASE-XNP-01641] c 15 N71-22997
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[NASA-CASE-XNP-01747] c 15 N71-23024
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[NASA-CASE-XNP-08877] c 15 N71-23025
Reduced bandwidth video communication system utilizing sampling techniques Patent
[NASA-CASE-XNP-02791] c 07 N71-23026
Model launcher for wind tunnels Patent
[NASA-CASE-XNP-03578] c 11 N71-23030
Drive circuit utilizing two cores Patent
[NASA-CASE-XNP-01318] c 10 N71-23033
Solar vane actuator Patent
[NASA-CASE-XNP-05535] c 14 N71-23040
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[NASA-CASE-XNP-01056] c 14 N71-23041
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[NASA-CASE-XNP-03918] c 14 N71-23087
Circulator having quarter wavelength resonant post and parametric amplifier circuits utilizing the same Patent
[NASA-CASE-XNP-02140] c 09 N71-23097
Method of resolving clock synchronization error and means therefor Patent
[NASA-CASE-XNP-08875] c 10 N71-23099
Impact testing machine Patent
[NASA-CASE-XNP-04817] c 14 N71-23225
Zeta potential flowmeter Patent
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[NASA-CASE-XNP-04819] c 08 N71-23295
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[NASA-CASE-XNP-03835] c 06 N71-23499
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[NASA-CASE-XNP-03250] c 06 N71-23500
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[NASA-CASE-XNP-09832] c 30 N71-23723
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[NASA-CASE-XNP-06510] c 14 N71-23797
High speed phase detector Patent
[NASA-CASE-XNP-01306-2] c 09 N71-24596
Apparatus for testing polymeric materials Patent
[NASA-CASE-XNP-09699] c 06 N71-24607
Digital synchronizer Patent
[NASA-CASE-NPO-10851] c 07 N71-24613
Signal processing apparatus for multiplex transmission Patent
[NASA-CASE-NPO-10388] c 07 N71-24622
Self-testing and repairing computer Patent
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Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24650
Detenting servomotor Patent
[NASA-CASE-XNP-06936] c 15 N71-24695
Reversible motion drive system Patent
[NASA-CASE-NPO-10173] c 15 N71-24696
Decoder system Patent
[NASA-CASE-NPO-10118] c 07 N71-24741
Television signal processing system Patent
[NASA-CASE-NPO-10140] c 07 N71-24742
Switching circuit Patent
[NASA-CASE-XNP-06505] c 10 N71-24799
Magnetic power switch Patent
[NASA-CASE-NPO-10242] c 09 N71-24803
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[NASA-CASE-NPO-10198] c 09 N71-24806
Broadband microwave waveguide window Patent
[NASA-CASE-XNP-08880] c 09 N71-24808
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[NASA-CASE-XNP-08961] c 14 N71-24809
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[NASA-CASE-NPO-10548] c 16 N71-24831
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[NASA-CASE-NPO-10123] c 15 N71-24835
Temperature telemetric transmitter Patent
[NASA-CASE-NPO-10649] c 07 N71-24840
Tuning arrangement for an electron discharge device or the like Patent
[NASA-CASE-XNP-09771] c 09 N71-24841
Noise limiter Patent
[NASA-CASE-NPO-10169] c 10 N71-24844
Noninterruptable digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891
Drive circuit for minimizing power consumption in inductive load Patent
[NASA-CASE-NPO-10716] c 09 N71-24892
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[NASA-CASE-NPO-10141] c 11 N71-24964
Process for reducing secondary electron emission Patent
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Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917
Novel polycarboxylic prepolymeric materials and polymers thereof Patent
[NASA-CASE-NPO-10596] c 06 N71-25929
Current steering switch Patent
[NASA-CASE-XNP-08567] c 09 N71-26000
Dual polarity full wave dc motor drive Patent
[NASA-CASE-XNP-07477] c 09 N71-26092
High impact antenna Patent
[NASA-CASE-NPO-10231] c 07 N71-26101
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[NASA-CASE-XNP-06611] c 07 N71-26102
Parallel generation of the check bits of a PN sequence Patent
[NASA-CASE-XNP-04623] c 10 N71-26103
Phase multiplying electronic scanning system Patent
[NASA-CASE-NPO-10302] c 10 N71-26142
Electron beam tube containing a multiple cathode array employing indexing means for cathode substitution Patent
[NASA-CASE-NPO-10625] c 09 N71-26182
Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199
Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266
Time synchronization system utilizing moon reflected coded signals Patent
[NASA-CASE-NPO-10143] c 10 N71-26326
Broadband stable power multiplier Patent
[NASA-CASE-XNP-10854] c 10 N71-26331
Cascaded complementary pair broadband transistor amplifiers Patent
[NASA-CASE-NPO-10003] c 10 N71-26415
Digital memory in which the driving of each word location is controlled by a switch core Patent
[NASA-CASE-XNP-01466] c 10 N71-26434
Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475
Analog signal integration and reconstruction system Patent
[NASA-CASE-NPO-10344] c 10 N71-26544
Rapid sync acquisition system Patent
[NASA-CASE-NPO-10214] c 10 N71-26577
Cryogenic cooling system Patent
[NASA-CASE-NPO-10467] c 23 N71-26654
Vacuum evaporator with electromagnetic ion steering Patent
[NASA-CASE-NPO-10331] c 09 N71-26701
Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754
Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27036
Pressure seal Patent
[NASA-CASE-NPO-10796] c 15 N71-27068
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[NASA-CASE-NPO-10755] c 15 N71-27084
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[NASA-CASE-NPO-10556] c 14 N71-27185
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[NASA-CASE-NPO-10607] c 09 N71-27232
Black body cavity radiometer Patent
[NASA-CASE-NPO-10810] c 14 N71-27323
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[NASA-CASE-NPO-10343] c 07 N71-27341
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[NASA-CASE-NPO-10808] c 15 N71-27432
Cavity emitter for thermionic converter Patent
[NASA-CASE-NPO-10412] c 09 N71-28421
Frictionless universal joint Patent
[NASA-CASE-NPO-10646] c 15 N71-28467
Epoxy-aziridine polymer product Patent
[NASA-CASE-NPO-10701] c 06 N71-28620
Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747
Wind tunnel microphone structure Patent
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Digital memory sense amplifying means Patent
[NASA-CASE-XNP-01012] c 08 N71-28925
Digital filter for reducing sampling jitter in digital control systems Patent
[NASA-CASE-NPO-11088] c 08 N71-29034
Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125
Rotable accurate reflector system for telscopes Patent
[NASA-CASE-NPO-10468] c 23 N71-33229
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[NASA-CASE-NPO-10342] c 10 N71-33407
High power microwave power divider Patent
[NASA-CASE-NPO-11031] c 07 N71-33606
A dc servosystem including an ac motor Patent
[NASA-CASE-NPO-10700] c 07 N71-33613
Solar cell matrix
[NASA-CASE-NPO-11190] c 03 N71-34044
Manually actuated heat pump
[NASA-CASE-NPO-10677] c 05 N72-11084
Virtual wall slot circularly polarized planar array antenna
[NASA-CASE-NPO-10301] c 07 N72-11148
System for controlling the operation of a variable signal device
[NASA-CASE-NPO-11064] c 07 N72-11150
Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171
Apparatus for remote measurement of displacement of marks on a specimen undergoing a tensile test
[NASA-CASE-NPO-10778] c 14 N72-11364
Vibration isolation system using compression springs
[NASA-CASE-NPO-11012] c 15 N72-11391
Feed system for an ion thruster
[NASA-CASE-NPO-10737] c 28 N72-11709
Thermostatic actuator
[NASA-CASE-NPO-10637] c 15 N72-12409
High voltage transistor amplifier with constant current load
[NASA-CASE-NPO-11023] c 09 N72-17155
Reference voltage switching unit
[NASA-CASE-NPO-11253] c 09 N72-17157
Valving device for automatic refilling in cryogenic liquid systems
[NASA-CASE-NPO-11177] c 15 N72-17453
Expansible support means
[NASA-CASE-NPO-11059] c 15 N72-17454
Breakaway connector
[NASA-CASE-NPO-11140] c 15 N72-17455
Modular encoder
[NASA-CASE-NPO-10629] c 08 N72-18184
Transition tracking bit synchronization system
[NASA-CASE-NPO-10844] c 07 N72-20140
Data compression system
[NASA-CASE-NPO-11243] c 07 N72-20154
Digital quasi-exponential function generator
[NASA-CASE-NPO-11130] c 08 N72-20176
Method and apparatus for high resolution spectral analysis
[NASA-CASE-NPO-10748] c 08 N72-20177
Flow rate switch
[NASA-CASE-NPO-10722] c 09 N72-20199

Electrical connector
[NASA-CASE-NPO-10694] c 09 N72-20200
Wide band doubler and sine wave quadrature generator
[NASA-CASE-NPO-11133] c 10 N72-20223
Signal phase estimator
[NASA-CASE-NPO-11203] c 10 N72-20224
Optimal control system for an electric motor driven vehicle
[NASA-CASE-NPO-11210] c 11 N72-20244
Impact energy absorbing system utilizing fracturable material
[NASA-CASE-NPO-10671] c 15 N72-20443
Torsional disconnect unit
[NASA-CASE-NPO-10704] c 15 N72-20445
Solid propellant rocket motor
[NASA-CASE-XNP-03282] c 28 N72-20758
Shell side liquid metal boiler
[NASA-CASE-NPO-10831] c 33 N72-20915
Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118
Current steering commutator
[NASA-CASE-NPO-10743] c 08 N72-21199
Automated equipotential plotter
[NASA-CASE-NPO-11134] c 09 N72-21246
Pressure transducer
[NASA-CASE-NPO-10832] c 14 N72-21405
Positioning mechanism
[NASA-CASE-NPO-10679] c 15 N72-21462
Solid state matrices
[NASA-CASE-NPO-10591] c 03 N72-22041
Solar cell panels with light transmitting plate
[NASA-CASE-NPO-10747] c 03 N72-22042
Data multiplexer using tree switching configuration
[NASA-CASE-NPO-11333] c 08 N72-22162
System for quantizing graphic displays
[NASA-CASE-NPO-10745] c 08 N72-22164
Digital function generator
[NASA-CASE-NPO-11104] c 08 N72-22165
Analog-to-digital converter analyzing system
[NASA-CASE-NPO-10560] c 08 N72-22166
Feedback shift register with states decomposed into cycles of equal length
[NASA-CASE-NPO-11082] c 08 N72-22167
Self-obturating, gas operated launcher
[NASA-CASE-NPO-11013] c 11 N72-22247
Optical binocular scanning apparatus
[NASA-CASE-NPO-11002] c 14 N72-22441
Ionene membrane separator
[NASA-CASE-NPO-11091] c 18 N72-22567
Deployable solar cell array
[NASA-CASE-NPO-10883] c 31 N72-22874
Thermal to electrical power conversion system with solid-state switches with Seebeck effect compensation
[NASA-CASE-NPO-11388] c 03 N72-23048
Optical frequency waveguide and transmission system
[NASA-CASE-HQN-10541-3] c 23 N72-23695
Bipropellant injector
[NASA-CASE-XNP-09461] c 28 N72-23809
Solid propellant rocket motor nozzle
[NASA-CASE-NPO-11458] c 28 N72-23810
Analysis of hydrogen-deuterium mixtures
[NASA-CASE-NPO-11322] c 06 N72-25146
Flexible computer accessed telemetry
[NASA-CASE-NPO-11358] c 07 N72-25172
Multi-purpose antenna employing dish reflector with plural coaxial horn feeds
[NASA-CASE-NPO-11264] c 07 N72-25174
Communications link for computers
[NASA-CASE-NPO-11161] c 08 N72-25207
Method and apparatus for frequency-division multiplex communications by digital phase shift of carrier
[NASA-CASE-NPO-11338] c 08 N72-25208
Binary coded sequential acquisition ranging system
[NASA-CASE-NPO-11194] c 08 N72-25209
MOD 2 sequential function generator for multibit binary sequence
[NASA-CASE-NPO-10636] c 08 N72-25210
Digital video display system using cathode ray tube
[NASA-CASE-NPO-11342] c 09 N72-25248
Inverter oscillator with voltage feedback
[NASA-CASE-NPO-10760] c 09 N72-25254
Thermal motor
[NASA-CASE-NPO-11283] c 09 N72-25260
Two phase flow system with discrete impinging two-phase jets
[NASA-CASE-NPO-11556] c 12 N72-25292
Atmospheric sampling devices
[NASA-CASE-NPO-11373] c 13 N72-25323
Light sensor
[NASA-CASE-NPO-11311] c 14 N72-25414
Quick disconnect coupling
[NASA-CASE-NPO-11202] c 15 N72-25450
Coaxial injector for reaction motors
[NASA-CASE-NPO-11095] c 15 N72-25455
Ball screw linear actuator
[NASA-CASE-NPO-11222] c 15 N72-25456
Helium refrigerator and method for decontaminating the refrigerator
[NASA-CASE-NPO-10634] c 23 N72-25619
Uninsulated in-core thermionic diode
[NASA-CASE-NPO-10542] c 09 N72-27228
Audio frequency marker system
[NASA-CASE-NPO-11147] c 14 N72-27408
Light direction sensor
[NASA-CASE-NPO-11201] c 14 N72-27409
Adjustable support
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[NASA-CASE-NPO-10633] c 03 N72-28025
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Thin film temperature sensor and method of making same
[NASA-CASE-NPO-11775] c 26 N72-28761
Circularly polarized antenna
[NASA-CASE-ERC-10214] c 09 N72-31235
Singly-curved reflector for use in high-gain antennas
[NASA-CASE-NPO-11361] c 07 N72-32169
Digital slope threshold data compressor
[NASA-CASE-NPO-11630] c 08 N72-33172
Continuously variable voltage controlled phase shifter
[NASA-CASE-NPO-11129] c 09 N72-33204
Pseudonoise sequence generators with three tap linear feedback shift registers
[NASA-CASE-NPO-11406] c 08 N73-12175
Versatile arithmetic unit for high speed sequential decoder
[NASA-CASE-NPO-11371] c 08 N73-12177
Dual frequency microwave reflex feed
[NASA-CASE-NPO-13091-1] c 09 N73-12214
Audio system with means for reducing noise effects
[NASA-CASE-NPO-11631] c 10 N73-12244
Interferometer-polarimeter
[NASA-CASE-NPO-11239] c 14 N73-12446
Irradiance measuring device
[NASA-CASE-NPO-11493] c 14 N73-12447
Program for computer aided reliability estimation
[NASA-CASE-NPO-13086-1] c 15 N73-12495
Apparatus for deriving synchronizing pulses from pulses in a single channel PCM communications system
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[NASA-CASE-GSC-11215-1] c 09 N73-28083
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Generator for a space power system Patent
[NASA-CASE-XLE-04250] c 09 N71-20446
Method of making electrical contact on silicon solar cell and resultant product Patent
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Small plasma probe Patent
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Combined electrolysis device and fuel cell and method of operation Patent
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Pressure monitoring with a plurality of ionization gauges controlled at a central location Patent
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[NASA-CASE-XLE-04788] c 09 N71-22987
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[NASA-CASE-XLE-02531] c 05 N71-23080
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Electronic cathode having a brush-like structure and a relatively thick oxide emissive coating Patent
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[NASA-CASE-XLE-04503] c 14 N71-24864
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[NASA-CASE-XMF-03290] c 15 N71-23256
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[NASA-CASE-XMF-07808] c 15 N71-23812
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[NASA-CASE-XMF-07069] c 15 N71-23815
Docking structure for spacecraft Patent
[NASA-CASE-XMF-05941] c 31 N71-23912
High pressure helium purifier Patent
[NASA-CASE-XMF-06888] c 15 N71-24044
Horizontal cryostat for fatigue testing Patent
[NASA-CASE-XMF-10968] c 14 N71-24234
Method for leakage testing of tanks Patent
[NASA-CASE-XMF-02392] c 32 N71-24285
Internal flare angle gauge Patent
[NASA-CASE-XMF-04415] c 14 N71-24693
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[NASA-CASE-XMF-08804] c 09 N71-24717
System for maintaining a motor at a predetermined speed utilizing digital feedback means Patent
[NASA-CASE-XMF-06892] c 09 N71-24805
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[NASA-CASE-MFS-14114-2] c 09 N71-24807
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[NASA-CASE-XMF-03793] c 15 N71-24833
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[NASA-CASE-XMF-06617] c 09 N71-24843
Transistor servo system including a unique differential amplifier circuit Patent
[NASA-CASE-XMF-05195] c 10 N71-24861
RC rate generator for slow speed measurement Patent
[NASA-CASE-XMF-02966] c 10 N71-24863
Method and apparatus for precision sizing and joining of large diameter tubes Patent
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[NASA-CASE-MFS-14711] c 15 N71-26185
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[NASA-CASE-XMF-03844-1] c 14 N71-26474
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[NASA-CASE-MFS-20261] c 14 N71-27005
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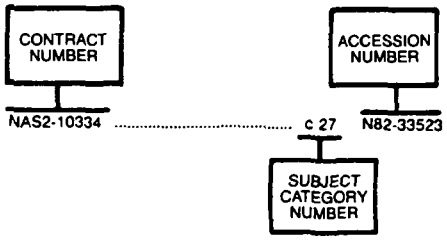

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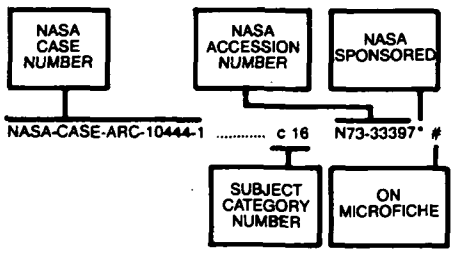

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NAS 1.71:LAR-13325-1-SB ..... c 37 N86-20805 * #
NAS 1.71:LAR-13330-1 ..... c 18 N86-20470 * #
NAS 1.71:LAR-13342-1 ..... c 35 N85-20297 * #
NAS 1.71:LAR-13351-1 ..... c 27 N85-21360 * #
NAS 1.71:LAR-13353-1 ..... c 27 N85-20128 * #
NAS 1.71:LAR-13354-1 ..... c 27 N86-20566 * #
NAS 1.71:LAR-13393-1 ..... c 54 N86-21147 * #
NAS 1.71:LAR-13440-1 ..... c 71 N86-22307 * #
NAS 1.71:LAR-13444-1-CU ..... c 27 N86-19462 * #
NAS 1.71:LAR:13066-1 ..... c 27 N86-20564 * #
NAS 1.71:LEW-12995-1 ..... c 37 N84-33808 * #
NAS 1.71:LEW-13324-2 ..... c 24 N85-21266 * #
NAS 1.71:LEW-13414-1 ..... c 44 N85-20530 * #
NAS 1.71:LEW-13495-1 ..... c 33 N84-33663 * #
NAS 1.71:LEW-13524-1 ..... c 07 N84-33410 * #
NAS 1.71:LEW-13639-1 ..... c 26 N84-33555 * #
NAS 1.71:LEW-13770-3 ..... c 27 N85-21350 * #
NAS 1.71:LEW-13770-4 ..... c 27 N85-21351 * #
NAS 1.71:LEW-13770-5 ..... c 27 N85-21352 * #
NAS 1.71:LEW-13827-1 ..... c 44 N85-21768 * #
NAS 1.71:LEW-13833-1 ..... c 33 N85-21492 * #
NAS 1.71:LEW-13837-2 ..... c 24 N85-21267 * #
NAS 1.71:LEW-13881-1 ..... c 20 N85-21256 * #
NAS 1.71:LEW-13899-1 ..... c 31 N86-20587 * #
NAS 1.71:LEW-13935-1 ..... c 33 N85-20248 * #
NAS 1.71:LEW-14037-1 ..... c 20 N84-32425 * #
NAS 1.71:LEW-14072-2 ..... c 27 N86-19463 * #
NAS 1.71:LEW-14080-1 ..... c 31 N85-20153 * #
NAS 1.71:LEW-14108-1 ..... c 33 N85-29149 * #
NAS 1.71:LEW-14127-1 ..... c 33 N86-20680 * #
NAS 1.71:LEW-14130-1 ..... c 31 N85-20156 * #
NAS 1.71:LEW-14170-1 ..... c 37 N85-20377 * #
NAS 1.71:LEW-14177-1 ..... c 44 N85-20535 * #
NAS 1.71:MFG-25989-1 ..... c 20 N85-20008 * #
NAS 1.71:MFS-19796-1 ..... c 37 N86-20802 * #
NAS 1.71:MFS-25302-2 ..... c 33 N84-33660 * #
NAS 1.71:MFS-25637-1 ..... c 44 N85-21769 * #
NAS 1.71:MFS-25717-1 ..... c 35 N84-33768 * #
NAS 1.71:MFS-25721-1 ..... c 25 N85-21280 * #
NAS 1.71:MFS-25825-1 ..... c 35 N85-20298 * #
NAS 1.71:MFS-25852-1 ..... c 33 N84-33661 * #
NAS 1.71:MFS-25861-1 ..... c 33 N85-22877 * #
NAS 1.71:MFS-25862-1 ..... c 27 N85-20126 * #
NAS 1.71:MFS-25862-2 ..... c 37 N84-33807 * #
NAS 1.71:MFS-25962-1 ..... c 09 N84-32398 * #
NAS 1.71:MFS-25964-1 ..... c 37 N85-20378 * #
NAS 1.71:MFS-25966-1 ..... c 15 N85-11122 * #
NAS 1.71:MFS-25978-1 ..... c 44 N84-32913 * #
NAS 1.71:MFS-25981-1 ..... c 35 N85-20299 * #
NAS 1.71:MFS-26009-1SB ..... c 54 N86-22114 * #
NAS 1.71:MFS-28001-1 ..... c 37 N85-29289 * #
NAS 1.71:MFS-28008-1 ..... c 35 N85-20300 * #
NAS 1.71:MFS-28013-1 ..... c 89 N86-22459 * #
NAS 1.71:MFS-28030-1 ..... c 35 N85-30286 * #
NAS 1.71:MFS-28057-1 ..... c 09 N85-28951 * #
NAS 1.71:MFS-28059-1 ..... c 37 N85-29288 * #
NAS 1.71:MFS-28060-1 ..... c 76 N85-30932 * #
NAS 1.71:MFS-28080-1 ..... c 33 N86-20682 * #
NAS 1.71:MFS-28090-1 ..... c 27 N86-21684 * #
NAS 1.71:MFS-29134-1 ..... c 74 N86-20130 * #
NAS 1.71:MSC-18578-1 ..... c 32 N85-21427 * #
NAS 1.71:MSC-20112-1 ..... c 37 N85-20338 * #
NAS 1.71:MSC-20162-1 ..... c 37 N86-20803 * #
NAS 1.71:MSC-20187-1 ..... c 33 N85-20249 * #
NAS 1.71:MSC-20275-1 ..... c 35 N85-21595 * #
NAS 1.71:MSC-20319-1 ..... c 37 N85-21649 * #
NAS 1.71:MSC-20475-1 ..... c 37 N85-29290 * #
NAS 1.71:MSC-20549-1 ..... c 37 N86-19612 * #
NAS 1.71:MSC-20635-1 ..... c 18 N84-32424 * #
NAS 1.71:MSC-20653-1 ..... c 35 N85-20301 * #
NAS 1.71:MSC-20783-1 ..... c 35 N86-20756 * #
NAS 1.71:MSC-20797-1 ..... c 37 N86-20806 * #
NAS 1.71:MSC-20812-1 ..... c 34 N84-32748 * #
NAS 1.71:MSC-20821-1 ..... c 17 N86-20466 * #
NAS 1.71:MSC-20841-1 ..... c 34 N86-20721 * #
NAS 1.71:MSC-20857 ..... c 37 N86-20807 * #
NAS 1.71:MSC-20906-1 ..... c 18 N86-19344 * #
NAS 1.71:MSC-20910-1 ..... c 37 N86-19613 * #
NAS 1.71:MSC-20921-1 ..... c 18 N86-20471 * #
NAS 1.71:MSC-20979-1 ..... c 37 N86-19614 * #
NAS 1.71:NPO-13556-1 ..... c 35 N84-33766 * #
NAS 1.71:NPO-15155-1 ..... c 74 N85-22139 * #
NAS 1.71:NPO-15295-1 ..... c 60 N85-21992 * #
NAS 1.71:NPO-15341-1 ..... c 35 N84-33769 * #
NAS 1.71:NPO-15430-1 ..... c 46 N85-21846 * #
NAS 1.71:NPO-15433-1 ..... c 32 N85-21428 * #
NAS 1.71:NPO-15466-1 ..... c 71 N85-22104 * #
NAS 1.71:NPO-15483-1 ..... c 37 N85-21650 * #
NAS 1.71:NPO-15493-2 ..... c 35 N85-34373 * #
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NAS 1.71:NPO-15519-1 ..... c 32 N84-34651 * #
NAS 1.71:NPO-15558-1 ..... c 35 N84-34705 * #
NAS 1.71:NPO-15560-1 ..... c 33 N85-21491 * #
NAS 1.71:NPO-15644-1 ..... c 35 N84-33767 * #
NAS 1.71:NPO-15651-1 ..... c 43 N85-21723 * #
NAS 1.71:NPO-15753-1 ..... c 27 N84-33589 * #
NAS 1.71:NPO-15759-1 ..... c 35 N85-21596 * #
NAS 1.71:NPO-15790-1 ..... c 36 N85-21631 * #
NAS 1.71:NPO-15800-2 ..... c 76 N85-22178 * #
NAS 1.71:NPO-15801-1 ..... c 74 N85-23396 * #
NAS 1.71:NPO-15808-1 ..... c 44 N84-34792 * #
NAS 1.71:NPO-15813-2 ..... c 76 N85-30933 * #
NAS 1.71:NPO-15851-1 ..... c 37 N85-21652 * #
NAS 1.71:NPO-15920-1 ..... c 33 N85-21493 * #
NAS 1.71:NPO-15977-1-CU ..... c 33 N86-20673 * #
NAS 1.71:NPO-15982-1 ..... c 60 N85-20680 * #
NAS 1.71:NPO-16022-1 ..... c 71 N85-22105 * #
NAS 1.71:NPO-16027-1 ..... c 35 N85-21597 * #
NAS 1.71:NPO-16045-1 ..... c 76 N84-33211 * #
NAS 1.71:NPO-16061-1-CU ..... c 72 N85-29701 * #
NAS 1.71:NPO-16233-1 ..... c 37 N86-20801 * #
NAS 1.71:NPO-16256-1 ..... c 32 N84-32620 * #
NAS 1.71:NPO-16294-1 ..... c 74 N84-33179 * #
NAS 1.71:NPO-16299-1 ..... c 33 N85-20250 * #
NAS 1.71:NPO-16306-1-CU ..... c 76 N85-30934 * #
NAS 1.71:NPO-16321-1 ..... c 37 N85-29291 * #
NAS 1.71:NPO-16322-1 ..... c 37 N85-29291 * #
NAS 1.71:NPO-163371-1 ..... c 33 N85-20251 * #
NAS 1.71:NPO-16372-1 ..... c 72 N85-30779 * #
NAS 1.71:NPO-16392-1 ..... c 44 N84-32912 * #
NAS 1.71:NPO-16393-1-CU ..... c 31 N85-29084 * #
NAS 1.71:NPO-16394-1 ..... c 76 N85-20906 * #
NAS 1.71:NPO-16397-1-CU ..... c 33 N86-19517 * #
NAS 1.71:NPO-16402-1 ..... c 36 N85-29265 * #
NAS 1.71:NPO-16413-1 ..... c 26 N85-21325 * #
NAS 1.71:NPO-16414-1-CU ..... c 32 N85-29121 * #
NAS 1.71:NPO-16420-1 ..... c 33 N86-20681 * #
NAS 1.71:NPO-16423-1-CU ..... c 37 N86-19610 * #
NAS 1.71:NPO-16433-1 ..... c 36 N86-20778 * #
NAS 1.71:NPO-16479-1-CU ..... c 35 N85-29219 * #
NAS 1.71:NPO-16494-1-CU ..... c 34 N85-29182 * #
NAS 1.71:NPO-16497-1-CU ..... c 36 N86-20779 * #
NAS 1.71:NPO-16526-1CU ..... c 44 N86-21981 * #
NAS 1.71:NPO-16542-1-CU ..... c 36 N86-20780 * #
NAS 1.71:NPO-16544-1-CU ..... c 35 N86-20755 * #
NAS 1.71:NPO-16558-1-CU ..... c 74 N86-20129 * #
NAS 1.71:NPO-16567-1-CU ..... c 36 N86-20777 * #
NAS 1.71:NPO-16675-1-CU ..... c 71 N86-20087 * #
NAS 1.71:NPO-16681-1-CU ..... c 76 N86-21401 * #
NAS 1.71:WLP-10055-2 ..... c 35 N85-21598 * #
NAS 1.71:13178-1 ..... c 27 N86-20565 * #
NAS 1:71:MFS-28058-1 ..... c 37 N86-19611 * #

NASA 1.71:MFS-26011-1-SB ..... c 52 N85-20639 * #

NASA-CASE-ARC-10003-1 ..... c 09 N71-25866 *
NASA-CASE-ARC-10009-1 ..... c 15 N71-17822 *

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NASA-CASE-ARC-10020 ..... c 10 N72-17172 * #
NASA-CASE-ARC-10030 ..... c 09 N71-12521 * #
NASA-CASE-ARC-10042-2 ..... c 10 N72-11256 *
NASA-CASE-ARC-10043-1 ..... c 05 N71-11193 * #
NASA-CASE-ARC-10050 ..... c 03 N71-33409 *
NASA-CASE-ARC-10097-2 ..... c 07 N73-25160 * #
NASA-CASE-ARC-10098-1 ..... c 06 N71-24739 *
NASA-CASE-ARC-10099-1 ..... c 18 N71-15469 *
NASA-CASE-ARC-10100-1 ..... c 05 N71-24738 *
NASA-CASE-ARC-10101-1 ..... c 09 N71-33109 *
NASA-CASE-ARC-10105 ..... c 09 N72-17153 * #
NASA-CASE-ARC-10106-1 ..... c 28 N72-22769 * #
NASA-CASE-ARC-10131-1 ..... c 15 N71-27754 *
NASA-CASE-ARC-10132-1 ..... c 09 N71-24597 *
NASA-CASE-ARC-10134 ..... c 30 N72-17873 * #
NASA-CASE-ARC-10136-1 ..... c 09 N72-22202 * #
NASA-CASE-ARC-10137-1 ..... c 09 N71-28468 *
NASA-CASE-ARC-10138-1 ..... c 14 N72-24477 * #
NASA-CASE-ARC-10140-1 ..... c 15 N71-17653 *
NASA-CASE-ARC-10153 ..... c 05 N71-28619 *
NASA-CASE-ARC-10154-1 ..... c 14 N72-22440 * #
NASA-CASE-ARC-10160-1 ..... c 23 N72-27728 * #
NASA-CASE-ARC-10176-1 ..... c 15 N72-21464 * #
NASA-CASE-ARC-10178-1 ..... c 09 N72-17152 * #
NASA-CASE-ARC-10179-1 ..... c 21 N72-22619 * #
NASA-CASE-ARC-10180-1 ..... c 28 N72-20767 * #
NASA-CASE-ARC-10180-1 ..... c 27 N74-12814 * #
NASA-CASE-ARC-10192 ..... c 09 N72-21245 * #
NASA-CASE-ARC-10194-1 ..... c 23 N73-20741 * #
NASA-CASE-ARC-10196-1 ..... c 18 N73-13562 * #
NASA-CASE-ARC-10197-1 ..... c 33 N74-17929 * #
NASA-CASE-ARC-10198 ..... c 34 N78-17336 * #
NASA-CASE-ARC-10199 ..... c 34 N78-17337 * #
NASA-CASE-ARC-10263-1 ..... c 14 N72-22438 * #
NASA-CASE-ARC-10264-1 ..... c 09 N73-20231 * #
NASA-CASE-ARC-10265-1 ..... c 10 N72-28240 * #
NASA-CASE-ARC-10266-1 ..... c 33 N75-29318 * #
NASA-CASE-ARC-10269-1 ..... c 10 N72-16172 * #
NASA-CASE-ARC-10275-1 ..... c 05 N72-22092 * #
NASA-CASE-ARC-10278-1 ..... c 14 N73-25463 * #
NASA-CASE-ARC-10302-1 ..... c 51 N74-15778 * #
NASA-CASE-ARC-10304-1 ..... c 18 N73-26572 * #
NASA-CASE-ARC-10304-2 ..... c 27 N74-27037 * #
NASA-CASE-ARC-10308-1 ..... c 06 N72-31141 * #
NASA-CASE-ARC-10322-1 ..... c 35 N76-18403 * #
NASA-CASE-ARC-10325 ..... c 06 N72-25147 * #
NASA-CASE-ARC-10329-1 ..... c 05 N73-26072 * #
NASA-CASE-ARC-10330-1 ..... c 09 N73-32112 * #
NASA-CASE-ARC-10344-2 ..... c 35 N75-26334 * #
NASA-CASE-ARC-10345-1 ..... c 15 N73-12488 * #
NASA-CASE-ARC-10348-1 ..... c 33 N75-19518 * #
NASA-CASE-ARC-10362-1 ..... c 14 N73-32326 * #
NASA-CASE-ARC-10364-2 ..... c 33 N75-25041 * #
NASA-CASE-ARC-10364-3 ..... c 33 N75-19520 * #
NASA-CASE-ARC-10370-1 ..... c 36 N75-31426 * #
NASA-CASE-ARC-10441-1 ..... c 35 N74-15126 * #
NASA-CASE-ARC-10442-1 ..... c 35 N74-15093 * #
NASA-CASE-ARC-10443-1 ..... c 14 N73-20477 * #
NASA-CASE-ARC-10444-1 ..... c 16 N73-33397 * #
NASA-CASE-ARC-10445-1 ..... c 31 N76-31365 * #
NASA-CASE-ARC-10447-1 ..... c 52 N74-22771 * #
NASA-CASE-ARC-10448-2 ..... c 74 N75-12732 * #
NASA-CASE-ARC-10448-3 ..... c 35 N77-14408 * #
NASA-CASE-ARC-10456-1 ..... c 05 N75-12930 * #
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NASA-CASE-ARC-10462-1 ..... c 37 N74-27901 * #
NASA-CASE-ARC-10463-1 ..... c 09 N73-32111 * #
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NASA-CASE-ARC-10467-1 ..... c 09 N73-14214 * #
NASA-CASE-ARC-10468-1 ..... c 14 N73-33361 * #
NASA-CASE-ARC-10469-1 ..... c 25 N75-12086 * #
NASA-CASE-ARC-10470-1 ..... c 02 N73-26005 * #
NASA-CASE-ARC-10470-3 ..... c 05 N76-29217 * #
NASA-CASE-ARC-10516-1 ..... c 70 N74-21300 * #
NASA-CASE-ARC-10519-2 ..... c 05 N75-25915 * #
NASA-CASE-ARC-10583-1 ..... c 52 N76-29894 * #
NASA-CASE-ARC-10592-1 ..... c 27 N74-21156 * #
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NASA-CASE-ARC-10597-1 ..... c 52 N74-20726 * #
NASA-CASE-ARC-10598-1 ..... c 75 N74-30156 * #
NASA-CASE-ARC-10599-1 ..... c 05 N73-26071 * #
NASA-CASE-ARC-10631-1 ..... c 74 N76-20958 * #
NASA-CASE-ARC-10633-1 ..... c 25 N74-26947 * #
NASA-CASE-ARC-10637-1 ..... c 35 N75-16783 * #
NASA-CASE-ARC-10639-1 ..... c 35 N78-13400 * #
NASA-CASE-ARC-10642-1 ..... c 36 N76-14447 * #
NASA-CASE-ARC-10643-1 ..... c 25 N75-12087 * #
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NASA-CASE-ARC-10716-1 ..... c 35 N77-20399 * #
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NASA-CASE-ARC-10722-1 ..... c 51 N75-25503 * #
NASA-CASE-ARC-10753-1 ..... c 54 N75-27760 * #
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NASA-CASE-ARC-10802-1 ..... c 35 N75-30502 * #
NASA-CASE-ARC-10806-1 ..... c 35 N75-29381 * #
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NASA-CASE-ARC-10807-1 ..... c 05 N77-17029 * #
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NASA-CASE-ARC-10812-1 ..... c 07 N83-33884 * #
NASA-CASE-ARC-10813-1 ..... c 27 N76-16230 * #
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NASA-CASE-ARC-10816-1 ..... c 35 N76-24525 * #
NASA-CASE-ARC-10820-1 ..... c 35 N78-19466 * #
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NASA-CASE-ARC-10913-1 ..... c 24 N78-15180 * #
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NASA-CASE-ARC-10985-1 ..... c 52 N79-10724 * #
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NASA-CASE-ARC-10994-1 ..... c 52 N76-33835 * #
NASA-CASE-ARC-10994-2 ..... c 52 N79-26771 * #
NASA-CASE-ARC-11007-1 ..... c 52 N77-14736 * #
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NASA-CASE-ARC-11040-2 ..... c 24 N78-27184 * #
NASA-CASE-ARC-11042-1 ..... c 24 N78-14096 * #
NASA-CASE-ARC-11043-1 ..... c 24 N78-27180 * #
NASA-CASE-ARC-11045-1 ..... c 05 N79-17847 * #
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NASA-CASE-ARC-11107-1 ..... c 25 N80-16116 * #
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NASA-CASE-ARC-11118-1 ..... c 52 N81-29764 * #
NASA-CASE-ARC-11118-2 ..... c 52 N81-14613 * #
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NASA-CASE-ARC-11121-1 ..... c 25 N79-14169 * #
NASA-CASE-ARC-11154-1 ..... c 25 N80-23383 * #
NASA-CASE-ARC-11157-1 ..... c 37 N80-18393 * #
NASA-CASE-ARC-11158-1 ..... c 09 N82-24212 * #
NASA-CASE-ARC-11164-1 ..... c 44 N83-34448 * #
NASA-CASE-ARC-11167-1 ..... c 52 N81-25662 * #
NASA-CASE-ARC-11169-1 ..... c 24 N79-24062 * #
NASA-CASE-ARC-11170-1 ..... c 27 N79-11215 * #
NASA-CASE-ARC-11174-1 ..... c 24 N81-13999 * #
NASA-CASE-ARC-11176-1 ..... c 27 N82-18389 * #
NASA-CASE-ARC-11176-2 ..... c 27 N81-27271 * #
NASA-CASE-ARC-11241-1 ..... c 25 N81-14016 * #
NASA-CASE-ARC-11243-2 ..... c 23 N85-33187 * #
NASA-CASE-ARC-11244-1 ..... c 23 N82-16174 * #
NASA-CASE-ARC-11245-1 ..... c 28 N82-18401 * #
NASA-CASE-ARC-11246-1 ..... c 31 N83-34073 * #
NASA-CASE-ARC-11248-1 ..... c 27 N81-17259 * #
NASA-CASE-ARC-11251-1 ..... c 37 N81-17433 * #
NASA-CASE-ARC-11252-1 ..... c 25 N83-36118 * #
NASA-CASE-ARC-11253-1 ..... c 27 N81-17262 * #
NASA-CASE-ARC-11253-2 ..... c 27 N82-24338 * #
NASA-CASE-ARC-11253-3 ..... c 27 N81-24256 * #
NASA-CASE-ARC-11256-1 ..... c 15 N82-24272 * #
NASA-CASE-ARC-11257-1 ..... c 04 N81-21047 * #
NASA-CASE-ARC-11258-1 ..... c 52 N80-33081 * #
NASA-CASE-ARC-11261-1 ..... c 24 N83-25789 * #
NASA-CASE-ARC-11264-2 ..... c 52 N83-29991 * #
NASA-CASE-ARC-11267-2 ..... c 23 N82-28353 * #
NASA-CASE-ARC-11310-1 ..... c 27 N82-24339 * #
NASA-CASE-ARC-11311-1 ..... c 74 N83-13978 * #
NASA-CASE-ARC-11312-1 ..... c 36 N83-34304 * #
NASA-CASE-ARC-11314-1 ..... c 54 N82-26987 * #
NASA-CASE-ARC-11317-1 ..... c 35 N83-34272 * #
NASA-CASE-ARC-11321-1 ..... c 27 N81-27272 * #
NASA-CASE-ARC-11322-1 ..... c 51 N83-28849 * #
NASA-CASE-ARC-11325-1 ..... c 37 N82-22496 * #
NASA-CASE-ARC-11326-1 ..... c 25 N83-33977 * #
NASA-CASE-ARC-11349-1 ..... c 37 N86-20797 * #
NASA-CASE-ARC-11354-1 ..... c 74 N83-21949 * #
NASA-CASE-ARC-11359-1 ..... c 51 N84-28361 * #
NASA-CASE-ARC-11361-1 ..... c 35 N84-22934 * #
NASA-CASE-ARC-11363-1 ..... c 31 N83-28281 * #
NASA-CASE-ARC-11367-1 ..... c 33 N83-21238 * #
NASA-CASE-ARC-11368-1 ..... c 27 N83-31854 * #
NASA-CASE-ARC-11368-2 ..... c 27 N85-21347 * #
NASA-CASE-ARC-11368-3 ..... c 27 N84-22745 * #
NASA-CASE-ARC-11370-1 ..... c 27 N84-22750 * #
NASA-CASE-ARC-11372-1 ..... c 08 N83-12098 * #
NASA-CASE-ARC-11400-1 ..... c 27 N84-14322 * #
NASA-CASE-ARC-11402-1 ..... c 27 N84-22744 * #
NASA-CASE-ARC-11402-3 ..... c 23 N86-21582 * #
NASA-CASE-ARC-11405-1 ..... c 27 N84-27884 * #
NASA-CASE-ARC-11405-2 ..... c 27 N86-19455 * #
NASA-CASE-ARC-11413-1 ..... c 27 N85-21348 * #
NASA-CASE-ARC-11414-1 ..... c 37 N83-20152 * #
NASA-CASE-ARC-11418-1 ..... c 24 N84-11213 * #
NASA-CASE-ARC-11421-1 ..... c 27 N84-16340 * #
NASA-CASE-ARC-11422-1 ..... c 35 N84-20808 * #
NASA-CASE-ARC-11422-1 ..... c 35 N86-20751 * #
NASA-CASE-ARC-11423-1 ..... c 03 N84-33394 * #
NASA-CASE-ARC-11424-1 ..... c 27 N85-34281 * #
NASA-CASE-ARC-11425-1 ..... c 23 N83-28076 * #
NASA-CASE-ARC-11425-2 ..... c 23 N86-20499 * #
NASA-CASE-ARC-11426-1 ..... c 09 N84-12193 * #
NASA-CASE-ARC-11427-1 ..... c 24 N86-19380 * #
NASA-CASE-ARC-11428-1 ..... c 23 N86-19376 * #
NASA-CASE-ARC-11429-1-CU .... c 27 N84-16341 * #
NASA-CASE-ARC-11429-1-CU .... c 27 N86-20560 * #
NASA-CASE-ARC-11444-1 ..... c 05 N85-29947 * #
NASA-CASE-ARC-11502-1 ..... c 74 N86-20125 * #
NASA-CASE-ARC-11503-1 ..... c 35 N85-34374 * #
NASA-CASE-ARC-11504-1 ..... c 09 N84-16221 * #
NASA-CASE-ARC-11505-1 ..... c 18 N84-22612 * #
NASA-CASE-ARC-11510-1 ..... c 35 N84-25015 * #
NASA-CASE-ARC-11511-1 ..... c 23 N84-16259 * #
NASA-CASE-ARC-11511-2 ..... c 27 N86-19461 * #
NASA-CASE-ARC-11512-1 ..... c 27 N84-20702 * #
NASA-CASE-ARC-11512-2 ..... c 27 N85-21362 * #
NASA-CASE-ARC-11522-2 ..... c 27 N85-34280 * #
NASA-CASE-ARC-11533-1 ..... c 27 N85-21364 * #
NASA-CASE-ARC-11534-1 ..... c 54 N84-33021 * #
NASA-CASE-ARC-11536-1 ..... c 33 N85-30202 * #
NASA-CASE-ARC-11538-1-SB .... c 24 N85-30033 * #
NASA-CASE-ARC-11538-1SB .... c 24 N86-21590 * #
NASA-CASE-ARC-11543-1 ..... c 54 N85-21986 * #
NASA-CASE-ARC-11547-1 ..... c 36 N85-20320 * #
NASA-CASE-ARC-11548-1 ..... c 27 N86-21686 * #
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NASA-CASE-ARC-11613-1 ..... c 33 N85-29150 * #
NASA-CASE-ARC-11615-1-SB .... c 24 N85-28976 * #
NASA-CASE-ARC-11616-1 ..... c 54 N85-21987 * #
NASA-CASE-ARC-11620-1 ..... c 37 N86-21859 * #
NASA-CASE-ARC-11622-1 ..... c 44 N86-21982 * #
NASA-CASE-ARC-14408-1 ..... c 27 N82-33523 * #

NASA-CASE-ERC-10001 ..... c 23 N71-24868 *
NASA-CASE-ERC-10011 ..... c 07 N71-29065 *
NASA-CASE-ERC-10013 ..... c 09 N71-26678 *
NASA-CASE-ERC-10014 ..... c 14 N71-28863 *
NASA-CASE-ERC-10015-2 ..... c 10 N72-27246 * #
NASA-CASE-ERC-10017 ..... c 16 N71-15567 *
NASA-CASE-ERC-10019 ..... c 16 N71-15551 *
NASA-CASE-ERC-10020 ..... c 16 N71-26154 *
NASA-CASE-ERC-10022 ..... c 15 N71-26635 *
NASA-CASE-ERC-10031 ..... c 12 N71-18603 *
NASA-CASE-ERC-10032 ..... c 10 N71-25900 *

NASA-CASE-ERC-10033 ..... c 14 N71-26672 *
NASA-CASE-ERC-10034 ..... c 15 N71-24896 *
NASA-CASE-ERC-10041 ..... c 08 N71-29138 *
NASA-CASE-ERC-10044-1 ..... c 14 N71-27090 *
NASA-CASE-ERC-10045 ..... c 15 N71-24910 *
NASA-CASE-ERC-10046 ..... c 10 N71-18722 *
NASA-CASE-ERC-10048 ..... c 09 N72-25251 * #
NASA-CASE-ERC-10065 ..... c 09 N71-27364 *
NASA-CASE-ERC-10072 ..... c 09 N70-11148 * #
NASA-CASE-ERC-10073-1 ..... c 24 N74-19769 * #
NASA-CASE-ERC-10075-2 ..... c 09 N72-22196 * #
NASA-CASE-ERC-10075 ..... c 09 N71-24800 *
NASA-CASE-ERC-10081 ..... c 14 N72-28437 * #
NASA-CASE-ERC-10087-2 ..... c 14 N72-31446 * #
NASA-CASE-ERC-10087 ..... c 14 N71-27334 *
NASA-CASE-ERC-10088 ..... c 26 N71-25490 *
NASA-CASE-ERC-10089 ..... c 23 N72-17747 * #
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NASA-CASE-ERC-10098 ..... c 09 N71-28618 *
NASA-CASE-ERC-10100 ..... c 09 N71-33519 *
NASA-CASE-ERC-10108 ..... c 06 N72-21094 * #
NASA-CASE-ERC-10112 ..... c 07 N72-21119 * #
NASA-CASE-ERC-10113 ..... c 09 N71-27053 *
NASA-CASE-ERC-10119 ..... c 26 N72-21701 * #
NASA-CASE-ERC-10120 ..... c 26 N69-33482 * #
NASA-CASE-ERC-10125 ..... c 09 N71-24893 *
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NASA-CASE-ERC-10139 ..... c 09 N72-17154 * #
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NASA-CASE-ERC-10151 ..... c 16 N71-29131 *
NASA-CASE-ERC-10174 ..... c 14 N72-25409 * #
NASA-CASE-ERC-10178 ..... c 16 N71-24832 *
NASA-CASE-ERC-10179 ..... c 07 N72-20141 * #
NASA-CASE-ERC-10180-1 ..... c 60 N74-20836 * #
NASA-CASE-ERC-10187 ..... c 16 N69-31343 * #
NASA-CASE-ERC-10208 ..... c 15 N70-10867 * #
NASA-CASE-ERC-10214 ..... c 09 N72-31235 * #
NASA-CASE-ERC-10222 ..... c 09 N72-22199 * #
NASA-CASE-ERC-10224-2 ..... c 09 N73-27150 * #
NASA-CASE-ERC-10224 ..... c 09 N72-25261 * #
NASA-CASE-ERC-10226-1 ..... c 14 N73-16483 * #
NASA-CASE-ERC-10248 ..... c 14 N72-17323 * #
NASA-CASE-ERC-10267 ..... c 09 N72-23173 * #
NASA-CASE-ERC-10268 ..... c 09 N72-25252 * #
NASA-CASE-ERC-10275 ..... c 26 N72-25680 * #
NASA-CASE-ERC-10276 ..... c 14 N73-26432 * #
NASA-CASE-ERC-10283 ..... c 16 N72-25485 * #
NASA-CASE-ERC-10285 ..... c 10 N73-16206 * #
NASA-CASE-ERC-10292 ..... c 14 N72-25410 * #
NASA-CASE-ERC-10307 ..... c 08 N72-21198 * #
NASA-CASE-ERC-10324 ..... c 07 N72-25173 * #
NASA-CASE-ERC-10325 ..... c 15 N72-25457 * #
NASA-CASE-ERC-10338 ..... c 04 N72-33072 * #
NASA-CASE-ERC-10339-1 ..... c 18 N73-30532 * #
NASA-CASE-ERC-10350 ..... c 14 N73-20474 * #
NASA-CASE-ERC-10363 ..... c 18 N72-25541 * #
NASA-CASE-ERC-10364 ..... c 18 N72-25540 * #
NASA-CASE-ERC-10365-1 ..... c 31 N73-32749 * #
NASA-CASE-ERC-10392 ..... c 21 N73-14692 * #
NASA-CASE-ERC-10403-1 ..... c 10 N73-26228 * #
NASA-CASE-ERC-10412-1 ..... c 09 N73-12211 * #
NASA-CASE-ERC-10419-1 ..... c 03 N75-30132 * #
NASA-CASE-ERC-10439 ..... c 02 N73-19004 * #
NASA-CASE-ERC-10468 ..... c 09 N72-20206 * #
NASA-CASE-ERC-10552 ..... c 09 N71-12539 * #
NASA-CASE-ERC-11020 ..... c 14 N71-26774 *

NASA-CASE-FRC-10005 ..... c 15 N71-26145 *
NASA-CASE-FRC-10010 ..... c 10 N71-24862 *
NASA-CASE-FRC-10012 ..... c 14 N72-17329 * #
NASA-CASE-FRC-10019 ..... c 15 N73-12487 * #
NASA-CASE-FRC-10022 ..... c 12 N71-26546 *
NASA-CASE-FRC-10029-2 ..... c 05 N72-25121 * #
NASA-CASE-FRC-10029 ..... c 09 N71-24618 *
NASA-CASE-FRC-10036 ..... c 09 N72-22200 * #
NASA-CASE-FRC-10038 ..... c 15 N72-20444 * #
NASA-CASE-FRC-10049-1 ..... c 04 N74-13420 * #
NASA-CASE-FRC-10051-1 ..... c 35 N74-13129 * #
NASA-CASE-FRC-10053 ..... c 14 N70-35587 * #
NASA-CASE-FRC-10060-1 ..... c 14 N73-27379 * #
NASA-CASE-FRC-10063 ..... c 01 N71-12217 * #
NASA-CASE-FRC-10071-1 ..... c 32 N74-20813 * #
NASA-CASE-FRC-10072-1 ..... c 33 N74-14939 * #
NASA-CASE-FRC-10081-1 ..... c 37 N77-14477 * #
NASA-CASE-FRC-10090-1 ..... c 33 N78-18308 * #
NASA-CASE-FRC-10092-1 ..... c 05 N79-12061 * #
NASA-CASE-FRC-10093-1 ..... c 35 N80-20560 * #
NASA-CASE-FRC-10111-1 ..... c 37 N79-10419 * #
NASA-CASE-FRC-10112-1 ..... c 35 N81-26431 * #
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NASA-CASE-FRC-10116-1 ..... c 33 N79-23345 * #
NASA-CASE-FRC-11005-1 ..... c 06 N82-16075 * #
NASA-CASE-FRC-11007-2 ..... c 05 N82-26277 * #
NASA-CASE-FRC-11009-1 ..... c 06 N80-18036 * #
NASA-CASE-FRC-11012-1 ..... c 52 N80-23969 * #
NASA-CASE-FRC-11013-1 ..... c 43 N81-17499 * #
NASA-CASE-FRC-11014-1 ..... c 33 N82-18494 * #
NASA-CASE-FRC-11024-1 ..... c 02 N80-28300 * #
NASA-CASE-FRC-11025-1 ..... c 33 N82-24417 * #
NASA-CASE-FRC-11026-1 ..... c 24 N82-24296 * #
NASA-CASE-FRC-11029-1 ..... c 06 N81-17057 * #
NASA-CASE-FRC-11041-1 ..... c 33 N82-18493 * #
NASA-CASE-FRC-11042-1 ..... c 60 N82-24839 * #
NASA-CASE-FRC-11043-1 ..... c 06 N83-33882 * #
NASA-CASE-FRC-11044-1 ..... c 37 N81-33483 * #
NASA-CASE-FRC-11052-1 ..... c 04 N82-23231 * #
NASA-CASE-FRC-11055-1 ..... c 33 N80-29583 * #
NASA-CASE-FRC-11058-1 ..... c 85 N82-33288 * #
NASA-CASE-FRC-11062-1 ..... c 71 N82-16800 * #
NASA-CASE-FRC-11065-1 ..... c 05 N83-19737 * #
NASA-CASE-FRC-11068-1 ..... c 35 N84-12443 * #
NASA-CASE-FRC-11072-1 ..... c 05 N83-27975 * #

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NASA-CASE-GSC-10017-1 ..... c 44 N82-24643 * #
NASA-CASE-GSC-10018-1 ..... c 44 N82-24644 * #
NASA-CASE-GSC-10019-1 ..... c 44 N82-24641 * #
NASA-CASE-GSC-10021-1 ..... c 09 N71-24595 *
NASA-CASE-GSC-10022-1 ..... c 10 N71-25882 *
NASA-CASE-GSC-10041-1 ..... c 10 N71-19418 *
NASA-CASE-GSC-10062 ..... c 14 N71-15605 * #
NASA-CASE-GSC-10064-1 ..... c 10 N72-22235 * #
NASA-CASE-GSC-10065-1 ..... c 10 N71-27136 *
NASA-CASE-GSC-10072 ..... c 18 N71-14014 * #
NASA-CASE-GSC-10082-1 ..... c 10 N72-20221 * #
NASA-CASE-GSC-10083-1 ..... c 30 N71-16090 *
NASA-CASE-GSC-10087-1 ..... c 02 N71-19287 *
NASA-CASE-GSC-10087-2 ..... c 21 N71-13958 * #
NASA-CASE-GSC-10087-3 ..... c 07 N72-12080 *
NASA-CASE-GSC-10087-4 ..... c 07 N73-20174 * #
NASA-CASE-GSC-10097-1 ..... c 08 N71-27210 *
NASA-CASE-GSC-10114-1 ..... c 10 N71-27366 *
NASA-CASE-GSC-10118-1 ..... c 07 N71-24621 *
NASA-CASE-GSC-10131-1 ..... c 07 N71-24624 *
NASA-CASE-GSC-10135 ..... c 33 N78-17296 * #
NASA-CASE-GSC-10185-1 ..... c 07 N72-12081 *
NASA-CASE-GSC-10186 ..... c 08 N71-33110 *
NASA-CASE-GSC-10188-1 ..... c 23 N71-24725 *
NASA-CASE-GSC-10216-1 ..... c 23 N71-26722 *
NASA-CASE-GSC-10218-1 ..... c 15 N72-21465 * #
NASA-CASE-GSC-10220-1 ..... c 07 N71-27233 *
NASA-CASE-GSC-10221-1 ..... c 09 N72-23171 * #
NASA-CASE-GSC-10225-1 ..... c 06 N73-27086 * #
NASA-CASE-GSC-10299-1 ..... c 09 N71-24804 *
NASA-CASE-GSC-10303 ..... c 15 N72-22487 * #
NASA-CASE-GSC-10306-1 ..... c 15 N71-24694 *
NASA-CASE-GSC-10344-1 ..... c 03 N72-27053 * #
NASA-CASE-GSC-10349-1 ..... c 44 N82-24645 * #
NASA-CASE-GSC-10350-1 ..... c 44 N82-24642 * #
NASA-CASE-GSC-10361-1 ..... c 18 N72-23581 * #
NASA-CASE-GSC-10366-1 ..... c 10 N71-18772 *
NASA-CASE-GSC-10373-1 ..... c 07 N71-19773 *
NASA-CASE-GSC-10376-1 ..... c 14 N71-27407 *
NASA-CASE-GSC-10390-1 ..... c 07 N72-11149 *
NASA-CASE-GSC-10413 ..... c 10 N71-26531 *
NASA-CASE-GSC-10441-1 ..... c 14 N71-27325 *
NASA-CASE-GSC-10452 ..... c 07 N71-12396 * #
NASA-CASE-GSC-10487-1 ..... c 03 N71-24719 *
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NASA-CASE-GSC-10514-1 ..... c 14 N72-20379 * #
NASA-CASE-GSC-10518-1 ..... c 15 N72-22489 * #
NASA-CASE-GSC-10553-1 ..... c 07 N71-19854 *
NASA-CASE-GSC-10554-1 ..... c 08 N71-29033 *
NASA-CASE-GSC-10555-1 ..... c 21 N71-27324 *
NASA-CASE-GSC-10556-1 ..... c 31 N71-26537 *
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NASA-CASE-GSC-10565-1 ..... c 06 N72-25149 * #
NASA-CASE-GSC-10566-1 ..... c 15 N72-18477 * #
NASA-CASE-GSC-10590-1 ..... c 31 N73-14853 * #
NASA-CASE-GSC-10607-1 ..... c 15 N72-20442 * #
NASA-CASE-GSC-10614-1 ..... c 09 N72-11224 *
NASA-CASE-GSC-10640-1 ..... c 28 N72-18766 * #
NASA-CASE-GSC-10656-1 ..... c 09 N72-25249 * #
NASA-CASE-GSC-10667-1 ..... c 10 N71-33129 *
NASA-CASE-GSC-10668-1 ..... c 07 N71-28430 *
NASA-CASE-GSC-10669-1 ..... c 03 N72-20031 * #
NASA-CASE-GSC-10695-1 ..... c 09 N72-25259 * #
NASA-CASE-GSC-10700 ..... c 23 N71-30027 *
NASA-CASE-GSC-10709-1 ..... c 28 N71-25213 *
NASA-CASE-GSC-10710-1 ..... c 28 N71-27094 *
NASA-CASE-GSC-10735-1 ..... c 10 N71-26085 *
NASA-CASE-GSC-10780-1 ..... c 14 N72-16283 * #
NASA-CASE-GSC-10786-1 ..... c 10 N72-28241 * #
NASA-CASE-GSC-10791-1 ..... c 15 N73-14469 * #
NASA-CASE-GSC-10814-1 ..... c 03 N73-20039 * #
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NASA-CASE-GSC-10878-1 ..... c 10 N72-22236 * #
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NASA-CASE-GSC-10880-1 ..... c 08 N72-11172 *
NASA-CASE-GSC-10890-1 ..... c 21 N73-30640 * #
NASA-CASE-GSC-10891-1 ..... c 10 N71-26626 *
NASA-CASE-GSC-10903-1 ..... c 14 N73-12444 * #
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NASA-CASE-GSC-10949-1 ..... c 07 N71-28965 * #
NASA-CASE-GSC-10975-1 ..... c 08 N73-13187 * #
NASA-CASE-GSC-10984-1 ..... c 37 N75-26371 * #
NASA-CASE-GSC-10990-1 ..... c 09 N73-26195 * #
NASA-CASE-GSC-11013-1 ..... c 09 N73-19234 * #
NASA-CASE-GSC-11018-1 ..... c 31 N73-30829 * #
NASA-CASE-GSC-11046-1 ..... c 07 N73-28013 * #
NASA-CASE-GSC-11063-1 ..... c 37 N77-27400 * #
NASA-CASE-GSC-11074-1 ..... c 14 N73-28489 * #
NASA-CASE-GSC-11077-1 ..... c 02 N73-13008 * #
NASA-CASE-GSC-11079-1 ..... c 37 N75-18574 * #
NASA-CASE-GSC-11092-2 ..... c 04 N73-27052 * #
NASA-CASE-GSC-11095-1 ..... c 14 N72-10375 * #
NASA-CASE-GSC-11126-1 ..... c 09 N72-25253 * #
NASA-CASE-GSC-11127-1 ..... c 09 N75-24758 * #
NASA-CASE-GSC-11133-1 ..... c 23 N72-11568 * #
NASA-CASE-GSC-11139 ..... c 09 N71-27016 *
NASA-CASE-GSC-11149-1 ..... c 15 N73-30457 * #
NASA-CASE-GSC-11163-1 ..... c 15 N73-32360 * #
NASA-CASE-GSC-11169-2 ..... c 05 N73-32011 * #
NASA-CASE-GSC-11182-1 ..... c 15 N75-13007 * #
NASA-CASE-GSC-11188-1 ..... c 14 N73-32320 * #
NASA-CASE-GSC-11188-2 ..... c 21 N73-19630 * #
NASA-CASE-GSC-11188-3 ..... c 74 N74-20008 * #
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NASA-CASE-GSC-11353-1 ..... c 74 N74-21304 * #
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NASA-CASE-GSC-11367-1 ..... c 44 N74-19692 * #
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NASA-CASE-GSC-11368-1 ..... c 09 N73-32108 * #
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NASA-CASE-HQN-00937 ..... c 07 N71-28979 *
NASA-CASE-HQN-00938 ..... c 33 N71-29053 *
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NASA-CASE-LAR-10184 ..... c 14 N72-22445 * #
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NASA-CASE-LAR-10241-1 ..... c 54 N74-14845 * #
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NASA-CASE-LAR-12738-2 ..... c 37 N85-30335 * #
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NASA-CASE-LAR-12868-1 ..... c 37 N85-21651 * #
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NASA-CASE-LAR-12966-1 ..... c 35 N85-30282 * #
NASA-CASE-LAR-12967-1 ..... c 35 N84-22932 * #
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NASA-CASE-LEW-10281-1 ..... c 14 N72-17327 * #
NASA-CASE-LEW-10286-1 ..... c 28 N71-28915 *
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NASA-CASE-LEW-13770-5 ..... c 27 N85-21352 * #
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NASA-CASE-MFS-14023 ..... c 33 N71-25351 *
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NASA-CASE-MFS-15063 ..... c 14 N72-25412 * #
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NASA-CASE-MFS-20242 ..... c 14 N73-19421 * #
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NASA-CASE-MFS-22189-1 ..... c 35 N75-19615 * #
NASA-CASE-MFS-22208-1 ..... c 33 N75-26244 * #
NASA-CASE-MFS-22234-1 ..... c 32 N79-10264 * #
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NASA-CASE-MFS-25949-1 ..... c 37 N86-19603 * #
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NASA-CASE-MFS-26011-1SB ..... c 52 N85-20639 * #
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NASA-CASE-MFS-28008-1 ..... c 35 N85-20300 * #
NASA-CASE-MFS-28013-1 ..... c 89 N86-22459 * #
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NASA-CASE-MFS-28080-1 ..... c 33 N86-20682 * #
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NASA-CASE-MFS-29134-1 ..... c 74 N86-20130 * #

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NASA-CASE-MSC-12165-1 ..... c 07 N71-33696 *
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NASA-CASE-MSC-12259-2 ..... c 07 N72-33146 * #
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NASA-CASE-MSC-13972-1 ..... c 52 N74-10975 * #
NASA-CASE-MSC-13999-1 ..... c 52 N74-26626 * #
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NASA-CASE-MSC-14070-1 ..... c 32 N74-32598 * #
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NASA-CASE-MSC-14130-1 ..... c 33 N74-32711 * #
NASA-CASE-MSC-14131-1 ..... c 33 N75-19515 * #
NASA-CASE-MSC-14143-1 ..... c 77 N75-20139 * #
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NASA-CASE-NPO-10175 ..... c 14 N71-18625 *
NASA-CASE-NPO-10185 ..... c 10 N71-26339 *
NASA-CASE-NPO-10188 ..... c 03 N71-20273 *
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NASA-CASE-NPO-10194 ..... c 03 N71-20407 *
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NASA-CASE-NPO-10300 ..... c 14 N71-17662 *
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NASA-CASE-NPO-10302 ..... c 10 N71-26142 *
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NASA-CASE-NPO-10567 ..... c 08 N71-24633 *
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NASA-CASE-NPO-10870-1 ..... c 33 N77-22386 * #
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NASA-CASE-NPO-10883 ..... c 31 N72-22874 * #
NASA-CASE-NPO-10890 ..... c 11 N73-12265 * #
NASA-CASE-NPO-10893 ..... c 27 N73-22710 * #
NASA-CASE-NPO-10985 ..... c 14 N73-20478 * #
NASA-CASE-NPO-10998-1 ..... c 06 N73-32029 * #
NASA-CASE-NPO-10999-1 ..... c 06 N73-32029 * #
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NASA-CASE-NPO-11002 ..... c 14 N72-22441 * #
NASA-CASE-NPO-11012 ..... c 15 N72-11391 *
NASA-CASE-NPO-11013 ..... c 11 N72-22247 * #
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NASA-CASE-NPO-11018 ..... c 08 N72-21200 * #
NASA-CASE-NPO-11021 ..... c 03 N72-20032 * #
NASA-CASE-NPO-11023 ..... c 09 N72-17155 * #
NASA-CASE-NPO-11031 ..... c 07 N71-33606 *
NASA-CASE-NPO-11036 ..... c 15 N72-24522 * #
NASA-CASE-NPO-11059 ..... c 15 N72-17454 * #
NASA-CASE-NPO-11064 ..... c 07 N72-11150 *
NASA-CASE-NPO-11078 ..... c 09 N72-25262 * #
NASA-CASE-NPO-11082 ..... c 08 N72-22167 * #
NASA-CASE-NPO-11087 ..... c 23 N71-29125 *
NASA-CASE-NPO-11088 ..... c 08 N71-29034 *
NASA-CASE-NPO-11091 ..... c 18 N72-22567 * #
NASA-CASE-NPO-11095 ..... c 15 N72-25455 * #
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NASA-CASE-NPO-11104 ..... c 08 N72-22165 * #
NASA-CASE-NPO-11106 ..... c 14 N70-34697 * #
NASA-CASE-NPO-11118 ..... c 03 N72-25021 * #
NASA-CASE-NPO-11120-1 ..... c 34 N74-18552 * #
NASA-CASE-NPO-11129 ..... c 09 N72-33204 * #
NASA-CASE-NPO-11130 ..... c 08 N72-20176 * #
NASA-CASE-NPO-11133 ..... c 10 N72-20223 * #
NASA-CASE-NPO-11134 ..... c 09 N72-21246 * #
NASA-CASE-NPO-11138 ..... c 03 N70-34646 * #
NASA-CASE-NPO-11140 ..... c 15 N72-17455 * #
NASA-CASE-NPO-11147 ..... c 14 N72-27408 * #
NASA-CASE-NPO-11150 ..... c 35 N78-17359 * #
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NASA-CASE-NPO-11161 ..... c 08 N72-25207 * #
NASA-CASE-NPO-11177 ..... c 15 N72-17453 * #
NASA-CASE-NPO-11190 ..... c 03 N71-34044 * #
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NASA-CASE-NPO-11202 ..... c 15 N72-25450 * #
NASA-CASE-NPO-11203 ..... c 10 N72-20224 * #
NASA-CASE-NPO-11210 ..... c 11 N72-20244 * #
NASA-CASE-NPO-11213 ..... c 15 N73-20514 * #
NASA-CASE-NPO-11222 ..... c 15 N72-25456 * #
NASA-CASE-NPO-11239 ..... c 14 N73-12446 * #
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NASA-CASE-NPO-11253 ..... c 09 N72-17157 * #
NASA-CASE-NPO-11264 ..... c 07 N72-25174 * #

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NASA-CASE-NPO-11283 ..... c 09 N72-25260 * #
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NASA-CASE-NPO-11302-1 ..... c 07 N73-13149 * #
NASA-CASE-NPO-11302-2 ..... c 32 N74-10132 * #
NASA-CASE-NPO-11304 ..... c 14 N73-26430 * #
NASA-CASE-NPO-11307-1 ..... c 10 N73-30205 * #
NASA-CASE-NPO-11311 ..... c 14 N72-25414 * #
NASA-CASE-NPO-11317-2 ..... c 36 N74-13205 * #
NASA-CASE-NPO-11322 ..... c 06 N72-25146 * #
NASA-CASE-NPO-11330 ..... c 33 N73-26958 * #
NASA-CASE-NPO-11333 ..... c 08 N72-22162 * #
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NASA-CASE-NPO-11337-1 ..... c 74 N81-19896 * #
NASA-CASE-NPO-11338 ..... c 08 N72-25208 * #
NASA-CASE-NPO-11340 ..... c 15 N72-33477 * #
NASA-CASE-NPO-11342 ..... c 09 N72-25248 * #
NASA-CASE-NPO-11358 ..... c 07 N72-25172 * #
NASA-CASE-NPO-11361 ..... c 07 N72-32169 * #
NASA-CASE-NPO-11366 ..... c 11 N73-26238 * #
NASA-CASE-NPO-11369 ..... c 15 N73-13467 * #
NASA-CASE-NPO-11371 ..... c 08 N73-12177 * #
NASA-CASE-NPO-11373 ..... c 13 N72-25323 * #
NASA-CASE-NPO-11377 ..... c 15 N73-27406 * #
NASA-CASE-NPO-11387 ..... c 14 N73-14429 * #
NASA-CASE-NPO-11388 ..... c 03 N72-23048 * #
NASA-CASE-NPO-11403-1 ..... c 33 N77-22386 * #
NASA-CASE-NPO-11406 ..... c 08 N73-12175 * #
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NASA-CASE-NPO-11426 ..... c 07 N73-26119 * #
NASA-CASE-NPO-11429-1 ..... c 74 N77-21941 * #
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NASA-CASE-NPO-11437 ..... c 16 N72-28521 * #
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NASA-CASE-NPO-11493 ..... c 14 N73-12447 * #
NASA-CASE-NPO-11497 ..... c 08 N73-25206 * #
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NASA-CASE-NPO-11548 ..... c 07 N73-26118 * #
NASA-CASE-NPO-11556 ..... c 12 N72-25292 * #
NASA-CASE-NPO-11559 ..... c 28 N73-24784 * #
NASA-CASE-NPO-11569 ..... c 10 N73-26229 * #
NASA-CASE-NPO-11572 ..... c 07 N73-16121 * #
NASA-CASE-NPO-11575-1 ..... c 74 N81-19896 * #
NASA-CASE-NPO-11593-1 ..... c 07 N73-28012 * #
NASA-CASE-NPO-11609-2 ..... c 27 N77-31308 * #
NASA-CASE-NPO-11623-1 ..... c 71 N74-31148 * #
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NASA-CASE-NPO-11630 ..... c 08 N72-33172 * #
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NASA-CASE-NPO-11738-1 ..... c 09 N73-30185 * #
NASA-CASE-NPO-11743-1 ..... c 28 N74-27425 * #
NASA-CASE-NPO-11749 ..... c 14 N73-28486 * #
NASA-CASE-NPO-11751 ..... c 07 N73-24176 * #
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NASA-CASE-NPO-11771 ..... c 03 N73-20040 * #
NASA-CASE-NPO-11775 ..... c 26 N72-28761 * #
NASA-CASE-NPO-11806-1 ..... c 44 N74-19693 * #
NASA-CASE-NPO-11820-1 ..... c 32 N74-19788 * #
NASA-CASE-NPO-11821-1 ..... c 08 N73-26175 * #
NASA-CASE-NPO-11850-1 ..... c 32 N74-12912 * #
NASA-CASE-NPO-11856-1 ..... c 36 N74-15145 * #
NASA-CASE-NPO-11861-1 ..... c 36 N74-20009 * #
NASA-CASE-NPO-11868 ..... c 10 N73-20254 * #
NASA-CASE-NPO-11880 ..... c 28 N73-24783 * #
NASA-CASE-NPO-11905-1 ..... c 33 N74-12887 * #
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NASA-CASE-NPO-11961-1 ..... c 44 N76-18643 * #
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NASA-CASE-NPO-12122-1 ..... c 24 N76-14203 * #
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NASA-CASE-NPO-12134-1 ..... c 33 N76-31409 * #
NASA-CASE-NPO-12142-1 ..... c 38 N76-28563 * #
NASA-CASE-NPO-12148-1 ..... c 44 N78-27515 * #
NASA-CASE-NPO-13044-1 ..... c 35 N74-15094 * #
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NASA-CASE-NPO-13063-1 ..... c 25 N76-18245 * #
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NASA-CASE-NPO-13067-1 ..... c 60 N76-18800 * #
NASA-CASE-NPO-13081-1 ..... c 33 N74-22814 * #
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NASA-CASE-NPO-13114-2 ..... c 73 N78-28913 * #
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NASA-CASE-NPO-13848-2 ..... c 85 N79-17747 * #
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NASA-CASE-NPO-13859-1 ..... c 28 N79-11231 * #
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NASA-CASE-NPO-13867-1 ..... c 27 N78-14164 * #
NASA-CASE-NPO-13872-1 ..... c 33 N78-10377 * #
NASA-CASE-NPO-13877-1 ..... c 45 N82-11634 * #
NASA-CASE-NPO-13886-1 ..... c 32 N78-24391 * #

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NASA-CASE-NPO-13904-1 ..... c 25 N79-11152 * #
NASA-CASE-NPO-13906-1 ..... c 54 N79-24652 * #
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NASA-CASE-NPO-13909-1 ..... c 33 N78-25319 * #
NASA-CASE-NPO-13910-1 ..... c 52 N79-27836 * #
NASA-CASE-NPO-13913-1 ..... c 52 N79-12694 * #
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NASA-CASE-NPO-13918-1 ..... c 76 N79-11920 * #
NASA-CASE-NPO-13921-1 ..... c 44 N79-14526 * #
NASA-CASE-NPO-13930-1 ..... c 52 N79-14749 * #
NASA-CASE-NPO-13935-1 ..... c 52 N79-14751 * #
NASA-CASE-NPO-13937-1 ..... c 44 N78-31527 * #
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NASA-CASE-NPO-13944-1 ..... c 52 N79-14751 * #
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NASA-CASE-NPO-13958-1 ..... c 25 N79-11151 * #
NASA-CASE-NPO-13969-1 ..... c 76 N79-23798 * #
NASA-CASE-NPO-13970-1 ..... c 33 N81-20352 * #
NASA-CASE-NPO-13982-1 ..... c 32 N79-14267 * #
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NASA-CASE-NPO-14124-1 ..... c 46 N80-14603 * #
NASA-CASE-NPO-14126-1 ..... c 44 N79-11470 * #
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NASA-CASE-NPO-14163-1 ..... c 33 N81-14220 * #
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NASA-CASE-NPO-14237-1 ..... c 44 N80-20808 * #
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NASA-CASE-NPO-14273-1 ..... c 25 N82-11144 * #
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NASA-CASE-NPO-14297-1 ..... c 33 N81-19389 * #
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NASA-CASE-NPO-14303-1 ..... c 44 N80-18550 * #
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NASA-CASE-NPO-14328-1 ..... c 32 N80-18253 * #
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NASA-CASE-NPO-14340-1 ..... c 45 N80-14579 * #
NASA-CASE-NPO-14350-1 ..... c 33 N80-14332 * #
NASA-CASE-NPO-14361-1 ..... c 32 N82-23376 * #
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NASA-CASE-NPO-14406-1 ..... c 37 N80-29703 * #
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NASA-CASE-NPO-14596-3 ..... c 31 N83-31896 * #
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NASA-CASE-NPO-15351-1 ..... c 06 N83-10040 * #
NASA-CASE-NPO-15351-2 ..... c 06 N84-34443 * #
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NASA-CASE-NPO-15629-1 ..... c 76 N84-35113 * #
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NASA-CASE-NPO-15980-1 ..... c 36 N85-30305 * #
NASA-CASE-NPO-15982-1 ..... c 60 N85-20680 * #
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NASA-CASE-NPO-16027-1 ..... c 35 N85-21597 * #
NASA-CASE-NPO-16030-1 ..... c 36 N84-25037 * #
NASA-CASE-NPO-16038-1 ..... c 37 N86-19605 * #

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NASA-CASE-NPO-16103-1 ..... c 27 N85-29043 * #
NASA-CASE-NPO-16112-1 ..... c 33 N86-19516 * #
NASA-CASE-NPO-16116-1 ..... c 60 N84-25306 * #
NASA-CASE-NPO-16135-1 ..... c 25 N83-24572 * #
NASA-CASE-NPO-16142-1-CU .... c 35 N86-20752 * #
NASA-CASE-NPO-16147-1-CU .... c 71 N85-29693 * #
NASA-CASE-NPO-16155-1 ..... c 44 N85-30475 * #
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NASA-CASE-NPO-16294-1 ..... c 74 N84-33179 * #
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NASA-CASE-NPO-16394-1 ..... c 76 N85-29906 * #
NASA-CASE-NPO-16397-1-CU .... c 33 N86-19517 * #
NASA-CASE-NPO-16402-1 ..... c 36 N85-29265 * #
NASA-CASE-NPO-16413-1 ..... c 26 N85-21325 * #
NASA-CASE-NPO-16414-1-CU .... c 32 N85-29121 * #
NASA-CASE-NPO-16420-1 ..... c 33 N86-20681 * #
NASA-CASE-NPO-16423-1-CU .... c 37 N86-19610 * #
NASA-CASE-NPO-16433-1 ..... c 36 N86-20778 * #
NASA-CASE-NPO-16479-1-CU .... c 35 N85-29219 * #
NASA-CASE-NPO-16494-1-CU .... c 34 N85-29182 * #
NASA-CASE-NPO-16497-1-CU .... c 36 N86-20779 * #
NASA-CASE-NPO-16526-1CU .... c 44 N86-21981 * #
NASA-CASE-NPO-16542-1-CU .... c 36 N86-20780 * #
NASA-CASE-NPO-16544-1-CU .... c 35 N86-20755 * #
NASA-CASE-NPO-16558-1-CU .... c 74 N86-20129 * #
NASA-CASE-NPO-16567-1-CU .... c 36 N86-20777 * #
NASA-CASE-NPO-16675-1-CU .... c 71 N86-20087 * #
NASA-CASE-NPO-16681-1-CU .... c 76 N86-21401 * #

NASA-CASE-NSTL-10 ..... c 45 N84-12654 * #

NASA-CASE-NUC-10107-1 ..... c 33 N74-17930 * #

NASA-CASE-WLP-10002 ..... c 15 N72-17451 * #
NASA-CASE-WLP-10055-1 ..... c 35 N84-28015 * #
NASA-CASE-WLP-10055-2 ..... c 35 N85-21598 * #

NASA-CASE-WOO-00428-1 ..... c 32 N79-19186 * #
NASA-CASE-WOO-00625 ..... c 37 N78-17385 * #

NASA-CASE-XAC-00001 ..... c 15 N71-28952 *
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NASA-CASE-XAC-00042 ..... c 14 N70-34816 * #
NASA-CASE-XAC-00048 ..... c 02 N71-29128 *
NASA-CASE-XAC-00060 ..... c 09 N70-39915 * #
NASA-CASE-XAC-00073 ..... c 14 N70-34813 * #
NASA-CASE-XAC-00074 ..... c 15 N70-34817 * #
NASA-CASE-XAC-00086 ..... c 09 N70-33182 *
NASA-CASE-XAC-00139 ..... c 02 N70-34856 * #
NASA-CASE-XAC-00319 ..... c 25 N70-41628 * #
NASA-CASE-XAC-00399 ..... c 11 N70-34815 * #
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NASA-CASE-XAC-00405 ..... c 05 N70-41819 * #
NASA-CASE-XAC-00435 ..... c 09 N70-35440 * #
NASA-CASE-XAC-00472 ..... c 15 N70-40180 * #
NASA-CASE-XAC-00648 ..... c 14 N70-40400 * #
NASA-CASE-XAC-00731 ..... c 11 N71-15960 *
NASA-CASE-XAC-00812 ..... c 14 N71-15598 * #
NASA-CASE-XAC-00942 ..... c 10 N71-16042 *
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NASA-CASE-XAC-01158 ..... c 15 N71-23051 *
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NASA-CASE-XAC-01591 ..... c 31 N71-17729 *
NASA-CASE-XAC-01662 ..... c 14 N71-23037 *
NASA-CASE-XAC-01677 ..... c 09 N71-20816 *
NASA-CASE-XAC-02058 ..... c 02 N71-16087 *
NASA-CASE-XAC-02405 ..... c 09 N71-16089 *
NASA-CASE-XAC-02407 ..... c 14 N69-27423 * #
NASA-CASE-XAC-02807 ..... c 09 N71-23021 *
NASA-CASE-XAC-02877 ..... c 14 N70-41681 * #
NASA-CASE-XAC-02970 ..... c 14 N69-39896 * #
NASA-CASE-XAC-02981 ..... c 14 N71-21072 *
NASA-CASE-XAC-03107 ..... c 23 N71-16098 *
NASA-CASE-XAC-03392 ..... c 03 N70-41954 * #
NASA-CASE-XAC-03740 ..... c 14 N71-26135 *
NASA-CASE-XAC-03777 ..... c 10 N71-15909 *
NASA-CASE-XAC-04030 ..... c 10 N71-19472 *
NASA-CASE-XAC-04031 ..... c 08 N71-18594 *
NASA-CASE-XAC-04458 ..... c 14 N71-24232 *
NASA-CASE-XAC-04885 ..... c 14 N71-23790 *
NASA-CASE-XAC-04886-1 ..... c 14 N71-20439 *

NASA-CASE-XAC-05333 ..... c 11 N71-22875 *
NASA-CASE-XAC-05422 ..... c 04 N71-23185 *
NASA-CASE-XAC-05462-2 ..... c 10 N72-17171 * #
NASA-CASE-XAC-05506-1 ..... c 24 N71-16095 *
NASA-CASE-XAC-05632 ..... c 32 N71-23971 *
NASA-CASE-XAC-05695 ..... c 25 N71-16073 *
NASA-CASE-XAC-05706 ..... c 05 N71-12342 * #
NASA-CASE-XAC-05902 ..... c 11 N71-18578 *
NASA-CASE-XAC-06029-1 ..... c 31 N71-24813 *
NASA-CASE-XAC-06302 ..... c 08 N71-19763 *
NASA-CASE-XAC-06956 ..... c 15 N71-21177 *
NASA-CASE-XAC-07043 ..... c 05 N71-23161 *
NASA-CASE-XAC-08494 ..... c 30 N71-15990 *
NASA-CASE-XAC-08972 ..... c 02 N71-20570 *
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NASA-CASE-XAC-10019 ..... c 15 N71-23809 *
NASA-CASE-XAC-10607 ..... c 10 N71-23669 *
NASA-CASE-XAC-10608-1 ..... c 09 N71-12517 * #
NASA-CASE-XAC-10768 ..... c 09 N71-18830 *
NASA-CASE-XAC-10770-1 ..... c 16 N71-24828 *
NASA-CASE-XAC-11225 ..... c 14 N69-27486 * #

NASA-CASE-XAR-01547 ..... c 05 N69-21473 * #
NASA-CASE-XAR-03786 ..... c 09 N69-21313 * #

NASA-CASE-XER-07894 ..... c 09 N71-18721 *
NASA-CASE-XER-07895 ..... c 26 N72-25679 * #
NASA-CASE-XER-07896-2 ..... c 23 N72-22673 * #
NASA-CASE-XER-08476-1 ..... c 26 N72-17820 * #
NASA-CASE-XER-09213 ..... c 07 N71-12390 * #
NASA-CASE-XER-09519 ..... c 14 N71-18483 *
NASA-CASE-XER-09521 ..... c 09 N72-12136 *
NASA-CASE-XER-11019 ..... c 09 N71-23598 *
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NASA-CASE-XER-11046 ..... c 09 N72-22203 * #
NASA-CASE-XER-11203 ..... c 14 N71-28994 *

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NASA-CASE-XFR-00756 ..... c 02 N71-13421 * #
NASA-CASE-XFR-00811 ..... c 15 N70-36901 * #
NASA-CASE-XFR-00929 ..... c 31 N70-34966 * #
NASA-CASE-XFR-02007 ..... c 12 N71-24692 *
NASA-CASE-XFR-03107 ..... c 09 N71-19449 *
NASA-CASE-XFR-03802 ..... c 33 N71-23085 *
NASA-CASE-XFR-04104 ..... c 03 N70-42073 * #
NASA-CASE-XFR-04147 ..... c 11 N71-10748 * #
NASA-CASE-XFR-05302 ..... c 15 N71-23254 *
NASA-CASE-XFR-05421 ..... c 15 N71-22994 *
NASA-CASE-XFR-05637 ..... c 09 N71-19480 *
NASA-CASE-XFR-07172 ..... c 05 N71-27234 *
NASA-CASE-XFR-07658-1 ..... c 05 N71-26293 *
NASA-CASE-XFR-08403 ..... c 05 N71-11202 * #
NASA-CASE-XFR-09479 ..... c 14 N69-27503 * #
NASA-CASE-XFR-10856 ..... c 05 N71-11189 * #

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NASA-CASE-XGS-00174 ..... c 08 N70-34743 * #
NASA-CASE-XGS-00260 ..... c 31 N70-37924 * #
NASA-CASE-XGS-00359 ..... c 14 N70-34158 * #
NASA-CASE-XGS-00373 ..... c 23 N71-15978 *
NASA-CASE-XGS-00381 ..... c 09 N70-34819 * #
NASA-CASE-XGS-00458 ..... c 09 N70-38604 * #
NASA-CASE-XGS-00466 ..... c 21 N70-34297 * #
NASA-CASE-XGS-00473 ..... c 03 N70-38713 * #
NASA-CASE-XGS-00587 ..... c 15 N70-35087 * #
NASA-CASE-XGS-00619 ..... c 30 N70-40016 * #
NASA-CASE-XGS-00689 ..... c 08 N70-34787 * #
NASA-CASE-XGS-00740 ..... c 07 N71-23098 *
NASA-CASE-XGS-00769 ..... c 14 N70-41647 * #
NASA-CASE-XGS-00783 ..... c 30 N71-17788 *
NASA-CASE-XGS-00809 ..... c 21 N70-35427 * #
NASA-CASE-XGS-00823 ..... c 10 N71-15910 *
NASA-CASE-XGS-00824 ..... c 15 N71-16078 *
NASA-CASE-XGS-00829-1 ..... c 44 N79-19447 * #
NASA-CASE-XGS-00886 ..... c 03 N71-11053 * #
NASA-CASE-XGS-00938 ..... c 32 N70-41367 * #
NASA-CASE-XGS-00963 ..... c 15 N69-39735 * #
NASA-CASE-XGS-01013 ..... c 14 N71-23725 *
NASA-CASE-XGS-01021 ..... c 08 N71-21042 *
NASA-CASE-XGS-01022 ..... c 07 N71-16088 *
NASA-CASE-XGS-01023 ..... c 14 N71-22992 *
NASA-CASE-XGS-01036 ..... c 14 N70-40003 * #
NASA-CASE-XGS-01052 ..... c 14 N71-15992 *
NASA-CASE-XGS-01110 ..... c 07 N69-24334 * #
NASA-CASE-XGS-01118 ..... c 10 N71-23662 *
NASA-CASE-XGS-01143 ..... c 31 N71-15647 * #
NASA-CASE-XGS-01155 ..... c 10 N71-21483 *
NASA-CASE-XGS-01159 ..... c 21 N71-10678 * #
NASA-CASE-XGS-01222 ..... c 10 N71-20841 *
NASA-CASE-XGS-01223 ..... c 07 N71-10609 * #
NASA-CASE-XGS-01230 ..... c 08 N71-19544 *
NASA-CASE-XGS-01231 ..... c 14 N70-41676 * #
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NASA-CASE-XGS-01286-1 ..... c 37 N79-33469 * #
NASA-CASE-XGS-01293-1 ..... c 35 N79-33450 * #

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NASA-CASE-XGS-01395 ..... c 03 N69-21539 * #
NASA-CASE-XGS-01418 ..... c 09 N71-23573 *
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NASA-CASE-XGS-01451 ..... c 09 N71-10677 * #
NASA-CASE-XGS-01473 ..... c 09 N71-10673 * #
NASA-CASE-XGS-01475 ..... c 03 N71-11058 * #
NASA-CASE-XGS-01504 ..... c 16 N70-41578 * #
NASA-CASE-XGS-01513 ..... c 03 N71-23336 *
NASA-CASE-XGS-01537 ..... c 07 N71-23405 *
NASA-CASE-XGS-01587 ..... c 14 N71-15962 *
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NASA-CASE-XGS-01593 ..... c 03 N70-35408 * #
NASA-CASE-XGS-01654 ..... c 31 N71-24750 *
NASA-CASE-XGS-01674 ..... c 03 N71-29129 *
NASA-CASE-XGS-01725 ..... c 14 N69-39982 * #
NASA-CASE-XGS-01784 ..... c 10 N71-20782 *
NASA-CASE-XGS-01812 ..... c 07 N71-23001 *
NASA-CASE-XGS-01881 ..... c 09 N70-40123 * #
NASA-CASE-XGS-01971 ..... c 15 N71-15922 *
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NASA-CASE-XGS-02011 ..... c 15 N71-20739 *
NASA-CASE-XGS-02171 ..... c 09 N69-24324 * #
NASA-CASE-XGS-02290 ..... c 07 N71-28809 *
NASA-CASE-XGS-02317 ..... c 09 N71-23525 *
NASA-CASE-XGS-02319 ..... c 14 N71-22965 *
NASA-CASE-XGS-02401 ..... c 14 N69-27485 * #
NASA-CASE-XGS-02422 ..... c 15 N71-21529 *
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NASA-CASE-XGS-03230 ..... c 14 N71-23401 *
NASA-CASE-XGS-03303 ..... c 08 N71-18595 *
NASA-CASE-XGS-03304 ..... c 09 N71-22988 *
NASA-CASE-XGS-03351 ..... c 31 N71-16081 *
NASA-CASE-XGS-03390 ..... c 03 N71-23187 *
NASA-CASE-XGS-03427 ..... c 10 N71-23029 *
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NASA-CASE-XGS-03556 ..... c 27 N70-35534 * #
NASA-CASE-XGS-03632 ..... c 09 N71-23311 *
NASA-CASE-XGS-03644 ..... c 16 N71-18614 * #
NASA-CASE-XGS-03736 ..... c 14 N72-22443 * #
NASA-CASE-XGS-03864 ..... c 15 N69-24320 * #
NASA-CASE-XGS-03865 ..... c 14 N69-21363 * #
NASA-CASE-XGS-04047-2 ..... c 03 N72-11062 *
NASA-CASE-XGS-04119 ..... c 18 N69-39979 * #
NASA-CASE-XGS-04173 ..... c 19 N71-26674 *
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NASA-CASE-XGS-04224 ..... c 10 N71-26418 *
NASA-CASE-XGS-04227 ..... c 15 N71-21744 *
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NASA-CASE-XGS-04478 ..... c 14 N71-24233 *
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NASA-CASE-XGS-04548 ..... c 15 N71-24045 *
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NASA-CASE-XGS-05003 ..... c 09 N69-24318 * #
NASA-CASE-XGS-05180 ..... c 18 N71-25881 *
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NASA-CASE-XGS-05289 ..... c 09 N71-19470 *
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NASA-CASE-XGS-05432 ..... c 03 N71-19438 *
NASA-CASE-XGS-05434 ..... c 03 N71-20491 *
NASA-CASE-XGS-05441 ..... c 10 N71-22962 *
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NASA-CASE-XGS-05579 ..... c 31 N71-15676 *
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NASA-CASE-XGS-05680 ..... c 14 N71-17585 *
NASA-CASE-XGS-05715 ..... c 23 N71-16100 *
NASA-CASE-XGS-05718 ..... c 26 N71-16037 *
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NASA-CASE-XGS-06306 ..... c 17 N71-16044 *
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NASA-CASE-XGS-07375-1 ..... c 25 N82-29370 * #
NASA-CASE-XGS-07397-1 ..... c 25 N82-29370 * #
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NASA-CASE-XGS-08269 ..... c 23 N71-26206 *
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NASA-CASE-XGS-09190 ..... c 31 N71-16102 *
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NASA-CASE-XGS-11177 ..... c 09 N71-27001 *

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NASA-CASE-XHQ-01897 ..... c 28 N70-35381 * #
NASA-CASE-XHQ-02146 ..... c 18 N75-27040 * #
NASA-CASE-XHQ-03673 ..... c 33 N71-29046 *
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NASA-CASE-XKS-06167 ..... c 08 N71-24890 *
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NASA-CASE-XKS-10804 ..... c 05 N71-24606 *

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NASA-CASE-XLA-00062 ..... c 14 N70-33254 *
NASA-CASE-XLA-00087 ..... c 02 N70-33332 *
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NASA-CASE-XLA-00112 ..... c 11 N70-33287 *
NASA-CASE-XLA-00113 ..... c 14 N70-33386 *
NASA-CASE-XLA-00115 ..... c 03 N70-33343 *
NASA-CASE-XLA-00117 ..... c 31 N71-17680 *
NASA-CASE-XLA-00118 ..... c 05 N70-33285 *
NASA-CASE-XLA-00119 ..... c 11 N70-33329 *
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NASA-CASE-XLA-00138 ..... c 31 N70-37981 * #
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NASA-CASE-XLA-00158 ..... c 26 N70-36805 * #
NASA-CASE-XLA-00165 ..... c 31 N70-33242 *
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NASA-CASE-XLA-00937 ..... c 31 N71-17691 *
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NASA-CASE-XLA-01090 ..... c 07 N71-12389 * #
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NASA-CASE-XLA-01127 ..... c 07 N70-41372 * #
NASA-CASE-XLA-01131 ..... c 14 N71-10774 * #
NASA-CASE-XLA-01141 ..... c 15 N71-13789 * #
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NASA-CASE-XLA-04143 ..... c 15 N71-17687 *
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NASA-CASE-XLA-11189 ..... c 10 N72-20222 * #
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NASA-CASE-XLE-05079 ..... c 15 N71-17652 *
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NASA-CASE-XLE-05230-2 ..... c 14 N73-13417 * #
NASA-CASE-XLE-05230 ..... c 14 N72-27410 * #
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NASA-CASE-XLE-08569 ..... c 03 N71-23449 *
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NASA-CASE-XLE-09527 ..... c 15 N71-17688 *
NASA-CASE-XLE-10326-2 ..... c 15 N72-29488 * #
NASA-CASE-XLE-10326-4 ..... c 37 N74-15125 * #
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NASA-CASE-XLE-10529 ..... c 14 N69-23191 * #
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NASA-CASE-XLE-10717 ..... c 37 N75-29426 * #
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NASA-CASE-XMF-01371 ..... c 15 N70-41829 * #
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NASA-CASE-XMF-01483 ..... c 14 N69-27431 * #
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NASA-CASE-XMF-02330 ..... c 15 N71-23798 * #
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NASA-CASE-XMF-02527-1 ..... c 27 N79-21190 * #
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NASA-CASE-XMF-03198 ..... c 30 N70-40353 * #
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NASA-CASE-XMF-03290 ..... c 15 N71-23256 *
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NASA-CASE-XMF-03793 ..... c 15 N71-24833 *
NASA-CASE-XMF-03844-1 ..... c 14 N71-26474 *
NASA-CASE-XMF-03856 ..... c 31 N70-34159 * #
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NASA-CASE-XMF-05757-1 ..... c 31 N79-21227 * #
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NASA-CASE-XMF-05882 ..... c 35 N75-27329 * #
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NASA-CASE-XMF-06409 ..... c 06 N71-23230 *
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NASA-CASE-XMF-08804 ..... c 09 N71-24717 *
NASA-CASE-XMF-09422 ..... c 07 N71-19436 *
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NASA-CASE-XMS-02184 ..... c 15 N71-20813 *
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NASA-CASE-XMS-03542 ..... c 09 N71-28926 *
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NASA-CASE-XMS-04072 ..... c 15 N70-42017 * #
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NASA-CASE-XMS-04300 ..... c 09 N71-19479 *
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NASA-CASE-XNP-00611 ..... c 09 N70-35219 * #
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NASA-CASE-XNP-00708 ..... c 14 N70-35394 * #
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NASA-CASE-XNP-00732 ..... c 28 N70-41447 * #
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NASA-CASE-XNP-00748 ..... c 07 N70-36911 * #
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NASA-CASE-XNP-01660 ..... c 14 N71-23036 *
NASA-CASE-XNP-01735 ..... c 07 N71-22750 *
NASA-CASE-XNP-01747 ..... c 15 N71-23024 *
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NASA-CASE-XNP-01848 ..... c 15 N71-28959 *
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NASA-CASE-XNP-01961 ..... c 26 N71-29156 *
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NASA-CASE-XNP-02092 ..... c 15 N70-42033 * #
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NASA-CASE-XNP-02251 ..... c 12 N71-20896 *
NASA-CASE-XNP-02278 ..... c 15 N71-28951 *
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NASA-CASE-XNP-02923 ..... c 28 N71-23081 *
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NASA-CASE-XNP-02983 ..... c 14 N71-21091 *
NASA-CASE-XNP-03063 ..... c 17 N71-23365 *
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NASA-CASE-XNP-03263 ..... c 09 N71-18843 *
NASA-CASE-XNP-03282 ..... c 28 N72-20758 * #
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NASA-CASE-XNP-03378 ..... c 03 N71-11051 * #
NASA-CASE-XNP-03413 ..... c 03 N71-26726 *
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NASA-CASE-XNP-03796 ..... c 23 N71-15467 *
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NASA-CASE-XNP-04161 ..... c 14 N71-15599 * #
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NASA-CASE-XNP-04167-3 ..... c 36 N77-19416 * #
NASA-CASE-XNP-04180 ..... c 07 N69-39736 * #
NASA-CASE-XNP-04183 ..... c 09 N69-24329 * #
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NASA-CASE-XNP-04623 ..... c 10 N71-26103 *
NASA-CASE-XNP-04731 ..... c 15 N71-24042 *
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NASA-CASE-XNP-04758 ..... c 03 N71-24605 *
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NASA-CASE-XNP-05535 ..... c 14 N71-23040 *
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NASA-CASE-XNP-08836 ..... c 09 N71-12515 * #
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US-PATENT-APPL-SN-043912 ..... c 43 N81-17499 * #
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US-PATENT-APPL-SN-053652 ..... c 33 N82-18494 * #
US-PATENT-APPL-SN-054501 ..... c 23 N82-16174 * #
US-PATENT-APPL-SN-057465 ..... c 37 N81-17433 * #
US-PATENT-APPL-SN-057466 ..... c 71 N81-15767 * #
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US-PATENT-APPL-SN-065676 ..... c 35 N80-18364 * #
US-PATENT-APPL-SN-065676 ..... c 44 N81-12542 * #
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US-PATENT-APPL-SN-070771 ..... c 27 N81-17260 * #
US-PATENT-APPL-SN-070774 ..... c 33 N82-26571 * #
US-PATENT-APPL-SN-072857 ..... c 24 N82-32417 * #
US-PATENT-APPL-SN-073477 ..... c 36 N82-32712 * #
US-PATENT-APPL-SN-073579 ..... c 33 N82-24415 * #
US-PATENT-APPL-SN-076643 ..... c 32 N81-29308 * #
US-PATENT-APPL-SN-078521 ..... c 32 N81-14186 * #
US-PATENT-APPL-SN-078611 ..... c 04 N81-21047 * #
US-PATENT-APPL-SN-078612 ..... c 46 N82-12685 * #
US-PATENT-APPL-SN-079913 ..... c 05 N82-28279 * #
US-PATENT-APPL-SN-088663 ..... c 28 N82-18401 * #
US-PATENT-APPL-SN-089779 ..... c 26 N81-25188 * #
US-PATENT-APPL-SN-090584 ..... c 74 N81-19896 * #
US-PATENT-APPL-SN-0914 ..... c 28 N70-38711 * #
US-PATENT-APPL-SN-092141 ..... c 27 N81-29229 * #
US-PATENT-APPL-SN-092142 ..... c 27 N82-11206 * #
US-PATENT-APPL-SN-092143 ..... c 32 N82-18443 * #
US-PATENT-APPL-SN-092145 ..... c 37 N82-12442 * #
US-PATENT-APPL-SN-093714 ..... c 44 N81-29525 * #
US-PATENT-APPL-SN-095217 ..... c 74 N81-19898 * #
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US-PATENT-APPL-SN-096257 ..... c 37 N82-24490 * #
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US-PATENT-APPL-SN-098569 ..... c 44 N82-16474 * #
US-PATENT-APPL-SN-098570 ..... c 44 N82-18686 * #
US-PATENT-APPL-SN-100611 ..... c 37 N82-32732 * #
US-PATENT-APPL-SN-100637 ..... c 37 N75-18574 * #
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US-PATENT-APPL-SN-101214 ..... c 14 N73-26430 * #
US-PATENT-APPL-SN-101354 ..... c 10 N73-16205 * #
US-PATENT-APPL-SN-10161 ..... c 33 N72-20915 * #
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US-PATENT-APPL-SN-102003 ..... c 26 N82-30371 * #
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US-PATENT-APPL-SN-102593 ..... c 37 N82-16408 * #
US-PATENT-APPL-SN-103077 ..... c 25 N72-32688 * #
US-PATENT-APPL-SN-103078 ..... c 15 N73-12486 * #
US-PATENT-APPL-SN-103091 ..... c 37 N74-23070 * #
US-PATENT-APPL-SN-103229 ..... c 14 N72-22439 * #
US-PATENT-APPL-SN-103230 ..... c 15 N73-14468 * #
US-PATENT-APPL-SN-10329 ..... c 09 N72-25251 * #
US-PATENT-APPL-SN-103551 ..... c 31 N73-14854 * #
US-PATENT-APPL-SN-103836 ..... c 37 N80-18402 * #
US-PATENT-APPL-SN-103836 ..... c 37 N81-24443 * #
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US-PATENT-APPL-SN-104048 ..... c 31 N73-14855 * #
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US-PATENT-APPL-SN-104188 ..... c 09 N70-34819 * #
US-PATENT-APPL-SN-104346 ..... c 14 N73-28488 * #
US-PATENT-APPL-SN-104884 ..... c 15 N72-33476 * #
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US-PATENT-APPL-SN-106106 ..... c 91 N74-13130 * #
US-PATENT-APPL-SN-106118 ..... c 32 N80-16261 * #
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US-PATENT-APPL-SN-106136 ..... c 33 N82-26572 * #
US-PATENT-APPL-SN-106188 ..... c 27 N80-16163 * #
US-PATENT-APPL-SN-106192 ..... c 34 N83-28356 * #
US-PATENT-APPL-SN-106424 ..... c 17 N73-24569 * #
US-PATENT-APPL-SN-106465 ..... c 30 N73-12884 * #
US-PATENT-APPL-SN-107298 ..... c 32 N73-13921 * #
US-PATENT-APPL-SN-107376 ..... c 15 N73-25513 * #
US-PATENT-APPL-SN-107379 ..... c 10 N72-33230 * #
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US-PATENT-APPL-SN-107659 ..... c 23 N73-20741 * #
US-PATENT-APPL-SN-107866 ..... c 17 N70-36616 * #
US-PATENT-APPL-SN-107870 ..... c 15 N70-36411 * #
US-PATENT-APPL-SN-108107 ..... c 37 N82-18601 * #
US-PATENT-APPL-SN-10812 ..... c 28 N70-40367 * #
US-PATENT-APPL-SN-10827 ..... c 14 N72-28436 * #
US-PATENT-APPL-SN-108810 ..... c 33 N77-22386 * #
US-PATENT-APPL-SN-108824 ..... c 31 N73-13898 * #
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US-PATENT-APPL-SN-110402 ..... c 09 N72-27226 * #
US-PATENT-APPL-SN-110591 ..... c 15 N70-39896 * #
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US-PATENT-APPL-SN-11220 ..... c 14 N73-30389 * #
US-PATENT-APPL-SN-112366 ..... c 06 N72-10138 * #
US-PATENT-APPL-SN-112988 ..... c 07 N72-32169 * #
US-PATENT-APPL-SN-112998 ..... c 14 N73-12445 * #
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US-PATENT-APPL-SN-114849 ..... c 09 N72-27227 * #
US-PATENT-APPL-SN-114873 ..... c 09 N73-28083 * #
US-PATENT-APPL-SN-115082 ..... c 18 N73-13562 * #
US-PATENT-APPL-SN-115083 ..... c 07 N73-25160 * #
US-PATENT-APPL-SN-115134 ..... c 06 N73-13128 * #
US-PATENT-APPL-SN-115536 ..... c 33 N82-24417 * #
US-PATENT-APPL-SN-115944 ..... c 03 N71-34044 * #
US-PATENT-APPL-SN-116777 ..... c 09 N73-19235 * #
US-PATENT-APPL-SN-116778 ..... c 09 N72-33205 * #
US-PATENT-APPL-SN-116786 ..... c 07 N72-25172 * #
US-PATENT-APPL-SN-116790 ..... c 14 N73-30388 * #
US-PATENT-APPL-SN-117575 ..... c 08 N73-12177 * #
US-PATENT-APPL-SN-118169 ..... c 14 N70-35220 * #
US-PATENT-APPL-SN-118200 ..... c 15 N70-34247 * #
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US-PATENT-APPL-SN-118203 ..... c 14 N70-38602 * #
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US-PATENT-APPL-SN-123253 ..... c 10 N73-12244 * #
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US-PATENT-APPL-SN-124909 ..... c 14 N73-16483 * #
US-PATENT-APPL-SN-125234 ..... c 07 N73-16121 * #
US-PATENT-APPL-SN-125235 ..... c 51 N77-25769 * #
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US-PATENT-APPL-SN-126064 ..... c 33 N82-18493 * #
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US-PATENT-APPL-SN-128229 ..... c 35 N82-24471 * #
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US-PATENT-APPL-SN-128419 ..... c 14 N73-20477 * #
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US-PATENT-APPL-SN-129073 ..... c 15 N73-13464 * #
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US-PATENT-APPL-SN-129778 ..... c 60 N82-24839 * #
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US-PATENT-APPL-SN-132364 ..... c 07 N83-36029 * #
US-PATENT-APPL-SN-13266 ..... c 05 N72-23085 * #
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US-PATENT-APPL-SN-138229 ..... c 15 N72-32487 * #
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US-PATENT-APPL-SN-139007 ..... c 28 N70-37245 * #
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US-PATENT-APPL-SN-139250 ..... c 04 N73-27052 * #
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US-PATENT-APPL-SN-156778 ..... c 17 N72-28535 * #
US-PATENT-APPL-SN-156790 ..... c 25 N82-29371 * #
US-PATENT-APPL-SN-157150 ..... c 37 N84-33808 * #
US-PATENT-APPL-SN-158530 ..... c 27 N83-19900 * #
US-PATENT-APPL-SN-158914 ..... c 11 N70-36913 * #
US-PATENT-APPL-SN-158916 ..... c 05 N70-41819 * #
US-PATENT-APPL-SN-159804 ..... c 11 N70-38196 * #
US-PATENT-APPL-SN-159857 ..... c 05 N73-26072 * #
US-PATENT-APPL-SN-159966 ..... c 31 N73-26876 * #
US-PATENT-APPL-SN-160093 ..... c 04 N78-17031 * #
US-PATENT-APPL-SN-160859 ..... c 32 N73-26910 * #
US-PATENT-APPL-SN-160860 ..... c 18 N73-32437 * #
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US-PATENT-APPL-SN-161254 ..... c 27 N82-28441 * #
US-PATENT-APPL-SN-161255 ..... c 28 N81-24280 * #
US-PATENT-APPL-SN-161256 ..... c 44 N82-32841 * #
US-PATENT-APPL-SN-161257 ..... c 37 N85-29282 * #
US-PATENT-APPL-SN-162100 ..... c 33 N74-14939 * #
US-PATENT-APPL-SN-162101 ..... c 14 N73-24473 * #
US-PATENT-APPL-SN-162230 ..... c 26 N72-28761 * #
US-PATENT-APPL-SN-162380 ..... c 36 N74-21091 * #
US-PATENT-APPL-SN-163122 ..... c 07 N83-31603 * #
US-PATENT-APPL-SN-163151 ..... c 74 N75-25706 * #
US-PATENT-APPL-SN-163152 ..... c 17 N73-27446 * #
US-PATENT-APPL-SN-163837 ..... c 47 N83-32232 * #
US-PATENT-APPL-SN-163838 ..... c 23 N82-28353 * #
US-PATENT-APPL-SN-163840 ..... c 37 N81-33482 * #
US-PATENT-APPL-SN-164-584 ... c 24 N83-33950 * #
US-PATENT-APPL-SN-164428 ..... c 09 N70-35440 * #
US-PATENT-APPL-SN-164617 ..... c 06 N81-17057 * #
US-PATENT-APPL-SN-165910 ..... c 32 N83-31918 * #
US-PATENT-APPL-SN-166487 ..... c 11 N73-32152 * #
US-PATENT-APPL-SN-166541 ..... c 14 N73-13415 * #
US-PATENT-APPL-SN-166969 ..... c 15 N70-34249 * #
US-PATENT-APPL-SN-166970 ..... c 15 N70-36409 * #
US-PATENT-APPL-SN-167719 ..... c 16 N73-33397 * #
US-PATENT-APPL-SN-16808 ..... c 14 N72-22445 * #
US-PATENT-APPL-SN-168560 ..... c 02 N70-34856 * #
US-PATENT-APPL-SN-168650 ..... c 14 N73-13416 * #
US-PATENT-APPL-SN-168943 ..... c 54 N82-26987 * #
US-PATENT-APPL-SN-168944 ..... c 37 N82-32731 * #
US-PATENT-APPL-SN-169671 ..... c 10 N73-30205 * #
US-PATENT-APPL-SN-169962 ..... c 34 N74-30608 * #
US-PATENT-APPL-SN-169977 ..... c 14 N70-34794 * #
US-PATENT-APPL-SN-170440 ..... c 15 N73-13462 * #
US-PATENT-APPL-SN-170544 ..... c 36 N77-19416 * #
US-PATENT-APPL-SN-170680 ..... c 34 N74-15652 * #
US-PATENT-APPL-SN-170681 ..... c 10 N73-25240 * #
US-PATENT-APPL-SN-17101 ..... c 28 N72-18766 * #
US-PATENT-APPL-SN-171928 ..... c 33 N82-26570 * #
US-PATENT-APPL-SN-171933 ..... c 37 N82-12441 * #
US-PATENT-APPL-SN-171934 ..... c 35 N82-26628 * #
US-PATENT-APPL-SN-172098 ..... c 33 N80-29583 * #
US-PATENT-APPL-SN-172099 ..... c 32 N82-27558 * #
US-PATENT-APPL-SN-172100 ..... c 27 N82-33520 * #
US-PATENT-APPL-SN-172459 ..... c 06 N73-16106 * #
US-PATENT-APPL-SN-172727 ..... c 33 N81-26360 * #
US-PATENT-APPL-SN-172807 ..... c 07 N73-28012 * #
US-PATENT-APPL-SN-173081 ..... c 28 N70-36806 * #
US-PATENT-APPL-SN-173178 ..... c 33 N77-21315 * #
US-PATENT-APPL-SN-173185 ..... c 23 N73-13660 * #
US-PATENT-APPL-SN-173190 ..... c 05 N73-32015 * #
US-PATENT-APPL-SN-173518 ..... c 60 N82-29013 * #
US-PATENT-APPL-SN-173519 ..... c 44 N82-26776 * #
US-PATENT-APPL-SN-173520 ..... c 31 N83-27058 * #
US-PATENT-APPL-SN-173524 ..... c 35 N82-32659 * #
US-PATENT-APPL-SN-173981 ..... c 14 N70-35666 * #
US-PATENT-APPL-SN-174684 ..... c 33 N75-31331 * #
US-PATENT-APPL-SN-175267 ..... c 14 N73-28486 * #
US-PATENT-APPL-SN-175452 ..... c 27 N81-27272 * #
US-PATENT-APPL-SN-175452 ..... c 27 N85-21347 * #
US-PATENT-APPL-SN-175453 ..... c 85 N82-33288 * #
US-PATENT-APPL-SN-175497 ..... c 08 N73-28045 * #
US-PATENT-APPL-SN-175852 ..... c 25 N73-25760 * #
US-PATENT-APPL-SN-175881 ..... c 09 N73-15235 * #
US-PATENT-APPL-SN-175981 ..... c 16 N73-30476 * #
US-PATENT-APPL-SN-175983 ..... c 31 N73-32750 * #
US-PATENT-APPL-SN-177684 ..... c 28 N70-34860 * #
US-PATENT-APPL-SN-177753 ..... c 07 N72-20154 * #
US-PATENT-APPL-SN-177985 ..... c 35 N74-15831 * #
US-PATENT-APPL-SN-178192 ..... c 25 N83-33977 * #
US-PATENT-APPL-SN-178193 ..... c 52 N82-29862 * #
US-PATENT-APPL-SN-178195 ..... c 35 N82-24470 * #
US-PATENT-APPL-SN-178213 ..... c 25 N70-33267 *
US-PATENT-APPL-SN-178215 ..... c 25 N70-34661 * #
US-PATENT-APPL-SN-178721 ..... c 03 N70-35408 * #
US-PATENT-APPL-SN-178771 ..... c 23 N75-14834 * #
US-PATENT-APPL-SN-180230 ..... c 33 N83-18996 * #
US-PATENT-APPL-SN-180370 ..... c 28 N70-33375 *
US-PATENT-APPL-SN-180374 ..... c 28 N70-38181 * #
US-PATENT-APPL-SN-180377 ..... c 15 N70-36908 * #
US-PATENT-APPL-SN-180379 ..... c 21 N70-35395 * #
US-PATENT-APPL-SN-180380 ..... c 09 N70-38998 * #
US-PATENT-APPL-SN-180381 ..... c 21 N70-35089 * #
US-PATENT-APPL-SN-180382 ..... c 28 N70-38645 * #
US-PATENT-APPL-SN-180384 ..... c 11 N70-38675 * #
US-PATENT-APPL-SN-180391 ..... c 28 N70-38249 * #
US-PATENT-APPL-SN-180392 ..... c 09 N71-13530 * #
US-PATENT-APPL-SN-180394 ..... c 15 N70-38603 * #
US-PATENT-APPL-SN-180395 ..... c 15 N70-36947 * #
US-PATENT-APPL-SN-180396 ..... c 11 N70-38202 * #
US-PATENT-APPL-SN-180473 ..... c 28 N73-27699 * #
US-PATENT-APPL-SN-180683 ..... c 10 N73-25241 * #
US-PATENT-APPL-SN-180963 ..... c 14 N73-27378 * #
US-PATENT-APPL-SN-181023 ..... c 15 N73-26472 * #
US-PATENT-APPL-SN-181024 ..... c 07 N73-26117 * #
US-PATENT-APPL-SN-181828 ..... c 02 N70-34858 * #
US-PATENT-APPL-SN-181829 ..... c 31 N70-38010 * #
US-PATENT-APPL-SN-182033 ..... c 33 N73-27796 * #
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US-PATENT-APPL-SN-182696 ..... c 21 N70-36938 * #
US-PATENT-APPL-SN-182698 ..... c 15 N70-38620 * #
US-PATENT-APPL-SN-182699 ..... c 28 N70-38504 * #
US-PATENT-APPL-SN-182879 ..... c 37 N82-32730 * #
US-PATENT-APPL-SN-182880 ..... c 37 N83-19091 * #
US-PATENT-APPL-SN-182881 ..... c 18 N83-28064 * #
US-PATENT-APPL-SN-182977 ..... c 39 N74-13131 * #
US-PATENT-APPL-SN-182978 ..... c 16 N73-13489 * #
US-PATENT-APPL-SN-183240 ..... c 06 N73-30098 * #
US-PATENT-APPL-SN-183707 ..... c 23 N85-33187 * #
US-PATENT-APPL-SN-183977 ..... c 28 N70-38505 * #
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US-PATENT-APPL-SN-184090 ..... c 14 N73-32327 * #
US-PATENT-APPL-SN-18427 ..... c 09 N72-23172 * #
US-PATENT-APPL-SN-184649 ..... c 07 N70-36911 * #
US-PATENT-APPL-SN-184960 ..... c 06 N73-27980 * #
US-PATENT-APPL-SN-185865 ..... c 52 N80-33081 * #
US-PATENT-APPL-SN-185867 ..... c 44 N82-26777 * #
US-PATENT-APPL-SN-185868 ..... c 24 N84-16262 * #
US-PATENT-APPL-SN-185869 ..... c 71 N82-16800 * #
US-PATENT-APPL-SN-186700 ..... c 32 N74-12912 * #
US-PATENT-APPL-SN-186881 ..... c 74 N82-30071 * #
US-PATENT-APPL-SN-187106 ..... c 74 N83-17305 * #
US-PATENT-APPL-SN-187143 ..... c 36 N74-13205 * #
US-PATENT-APPL-SN-187262 ..... c 15 N73-27406 * #
US-PATENT-APPL-SN-187365 ..... c 35 N74-15127 * #
US-PATENT-APPL-SN-187446 ..... c 31 N70-37924 * #
US-PATENT-APPL-SN-18776 ..... c 28 N70-33284 *
US-PATENT-APPL-SN-18780 ..... c 12 N70-33305 *
US-PATENT-APPL-SN-188160 ..... c 74 N82-19029 * #
US-PATENT-APPL-SN-188594 ..... c 15 N70-34967 * #
US-PATENT-APPL-SN-188836 ..... c 35 N74-34857 * #
US-PATENT-APPL-SN-188927 ..... c 08 N73-32081 * #
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US-PATENT-APPL-SN-189290 ..... c 14 N73-27379 * #
US-PATENT-APPL-SN-189375 ..... c 18 N73-14584 * #
US-PATENT-APPL-SN-189438 ..... c 35 N76-15431 * #
US-PATENT-APPL-SN-189648 ..... c 32 N70-36536 * #
US-PATENT-APPL-SN-18982 ..... c 28 N72-11708 *
US-PATENT-APPL-SN-190316 ..... c 17 N73-32414 * #
US-PATENT-APPL-SN-191301 ..... c 25 N74-12813 * #
US-PATENT-APPL-SN-191744 ..... c 33 N82-29538 * #
US-PATENT-APPL-SN-191746 ..... c 26 N81-16209 * #
US-PATENT-APPL-SN-191746 ..... c 26 N82-30371 * #
US-PATENT-APPL-SN-191748 ..... c 35 N82-31659 * #
US-PATENT-APPL-SN-192016 ..... c 03 N70-36778 * #
US-PATENT-APPL-SN-192101 ..... c 10 N73-20254 * #
US-PATENT-APPL-SN-192141 ..... c 07 N73-24176 * #
US-PATENT-APPL-SN-192803 ..... c 07 N73-22076 * #
US-PATENT-APPL-SN-192803 ..... c 35 N76-16391 * #
US-PATENT-APPL-SN-192970 ..... c 23 N73-30665 * #
US-PATENT-APPL-SN-193456 ..... c 10 N73-25243 * #
US-PATENT-APPL-SN-193671 ..... c 15 N73-12488 * #
US-PATENT-APPL-SN-193672 ..... c 54 N74-14845 * #
US-PATENT-APPL-SN-193814 ..... c 14 N73-30393 * #
US-PATENT-APPL-SN-193947 ..... c 14 N73-13420 * #
US-PATENT-APPL-SN-193980 ..... c 31 N74-13177 * #
US-PATENT-APPL-SN-195061 ..... c 05 N73-25125 * #
US-PATENT-APPL-SN-195223 ..... c 35 N83-21311 * #
US-PATENT-APPL-SN-195226 ..... c 31 N83-31895 * #
US-PATENT-APPL-SN-195227 ..... c 74 N83-32577 * #
US-PATENT-APPL-SN-195228 ..... c 74 N83-10900 * #
US-PATENT-APPL-SN-195346 ..... c 15 N70-36492 * #
US-PATENT-APPL-SN-195347 ..... c 31 N70-34135 * #
US-PATENT-APPL-SN-195547 ..... c 33 N81-15194 * #
US-PATENT-APPL-SN-195547 ..... c 32 N83-18975 * #
US-PATENT-APPL-SN-19572 ..... c 35 N77-27368 * #
US-PATENT-APPL-SN-19585 ..... c 15 N72-25455 * #
US-PATENT-APPL-SN-196399 ..... c 07 N73-25161 * #
US-PATENT-APPL-SN-196877 ..... c 35 N84-17555 * #
US-PATENT-APPL-SN-196898 ..... c 38 N74-15130 * #
US-PATENT-APPL-SN-196931 ..... c 35 N74-17885 * #
US-PATENT-APPL-SN-196970 ..... c 15 N73-33383 * #
US-PATENT-APPL-SN-197183 ..... c 02 N76-22154 * #
US-PATENT-APPL-SN-197548 ..... c 09 N70-34502 * #
US-PATENT-APPL-SN-197551 ..... c 31 N70-34296 * #
US-PATENT-APPL-SN-197553 ..... c 08 N70-34778 * #
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US-PATENT-APPL-SN-197689 ..... c 31 N74-14133 * #
US-PATENT-APPL-SN-197689 ..... c 31 N75-13111 * #
US-PATENT-APPL-SN-197870 ..... c 14 N73-32322 * #
US-PATENT-APPL-SN-198093 ..... c 39 N83-20280 * #
US-PATENT-APPL-SN-198285 ..... c 09 N73-13208 * #
US-PATENT-APPL-SN-198289 ..... c 14 N73-32326 * #
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US-PATENT-APPL-SN-198362 ..... c 14 N73-28489 * #
US-PATENT-APPL-SN-198379 ..... c 15 N73-32359 * #
US-PATENT-APPL-SN-198472 ..... c 27 N74-12812 * #
US-PATENT-APPL-SN-198763 ..... c 31 N74-18124 * #
US-PATENT-APPL-SN-198763 ..... c 31 N74-32920 * #
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US-PATENT-APPL-SN-199765 ..... c 33 N81-12330 * #
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US-PATENT-APPL-SN-199767 ..... c 33 N83-16626 * #
US-PATENT-APPL-SN-199768 ..... c 27 N84-22746 * #
US-PATENT-APPL-SN-199768 ..... c 27 N85-20123 * #
US-PATENT-APPL-SN-199769 ..... c 26 N82-31505 * #
US-PATENT-APPL-SN-199957 ..... c 10 N73-26229 * #
US-PATENT-APPL-SN-200040 ..... c 52 N74-10975 * #
US-PATENT-APPL-SN-200085 ..... c 26 N73-26751 * #
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US-PATENT-APPL-SN-200717 ..... c 09 N73-19234 * #
US-PATENT-APPL-SN-200762 ..... c 03 N73-20040 * #
US-PATENT-APPL-SN-200770 ..... c 09 N79-21084 * #
US-PATENT-APPL-SN-201700 ..... c 33 N74-17930 * #
US-PATENT-APPL-SN-201782 ..... c 15 N73-19458 * #
US-PATENT-APPL-SN-201904 ..... c 15 N73-30458 * #
US-PATENT-APPL-SN-201904 ..... c 37 N74-15128 * #
US-PATENT-APPL-SN-201904 ..... c 37 N74-21064 * #
US-PATENT-APPL-SN-202024 ..... c 14 N70-34156 * #
US-PATENT-APPL-SN-202029 ..... c 11 N70-34786 * #
US-PATENT-APPL-SN-202030 ..... c 31 N71-10747 * #

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US-PATENT-APPL-SN-202228 ..... c 34 N85-29179 * #
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US-PATENT-APPL-SN-203271 ..... c 51 N74-15778 * #
US-PATENT-APPL-SN-203405 ..... c 02 N73-26006 * #
US-PATENT-APPL-SN-203409 ..... c 28 N70-38197 * #
US-PATENT-APPL-SN-203411 ..... c 33 N70-34812 * #
US-PATENT-APPL-SN-20370 ..... c 33 N79-33393 * #
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US-PATENT-APPL-SN-205675 ..... c 14 N73-30386 * #
US-PATENT-APPL-SN-206266 ..... c 76 N74-20329 * #
US-PATENT-APPL-SN-206266 ..... c 76 N75-25730 * #
US-PATENT-APPL-SN-206279 ..... c 02 N73-26005 * #
US-PATENT-APPL-SN-206279 ..... c 05 N76-29217 * #
US-PATENT-APPL-SN-206506 ..... c 33 N82-24422 * #
US-PATENT-APPL-SN-206698 ..... c 15 N73-30459 * #
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US-PATENT-APPL-SN-209478 ..... c 07 N70-38200 * #
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US-PATENT-APPL-SN-209801 ..... c 08 N70-40125 * #
US-PATENT-APPL-SN-210405 ..... c 74 N84-11921 * #
US-PATENT-APPL-SN-210491 ..... c 02 N81-19016 * #
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US-PATENT-APPL-SN-210506 ..... c 39 N83-32081 * #
US-PATENT-APPL-SN-210632 ..... c 26 N83-10170 * #
US-PATENT-APPL-SN-211332 ..... c 02 N74-10034 * #
US-PATENT-APPL-SN-211411 ..... c 11 N73-20267 * #
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US-PATENT-APPL-SN-212173 ..... c 02 N71-13421 * #
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US-PATENT-APPL-SN-212900 ..... c 14 N73-25462 * #
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US-PATENT-APPL-SN-212977 ..... c 15 N73-30460 * #
US-PATENT-APPL-SN-213004 ..... c 14 N73-19421 * #
US-PATENT-APPL-SN-213836 ..... c 15 N70-38601 * #
US-PATENT-APPL-SN-213949 ..... c 07 N73-20175 * #
US-PATENT-APPL-SN-214006 ..... c 37 N74-18126 * #
US-PATENT-APPL-SN-214084 ..... c 37 N74-18123 * #
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US-PATENT-APPL-SN-216710 ..... c 12 N70-38997 * #
US-PATENT-APPL-SN-216711 ..... c 03 N70-34157 * #
US-PATENT-APPL-SN-216939 ..... c 14 N70-40400 * #
US-PATENT-APPL-SN-217213 ..... c 37 N74-11301 * #
US-PATENT-APPL-SN-21732 ..... c 15 N70-26819 * #
US-PATENT-APPL-SN-217336 ..... c 27 N82-29456 * #
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US-PATENT-APPL-SN-218586 ..... c 36 N81-22344 * #
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US-PATENT-APPL-SN-219806 ..... c 07 N74-28226 * #
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US-PATENT-APPL-SN-220785 ..... c 85 N74-34672 * #
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US-PATENT-APPL-SN-221685 ..... c 35 N74-21062 * #
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US-PATENT-APPL-SN-221833 ..... c 09 N73-27150 * #
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US-PATENT-APPL-SN-22265 ..... c 14 N72-21405 * #
US-PATENT-APPL-SN-223003 ..... c 33 N70-36846 * #
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US-PATENT-APPL-SN-223560 ..... c 10 N73-32144 * #
US-PATENT-APPL-SN-224231 ..... c 06 N83-10040 * #
US-PATENT-APPL-SN-224231 ..... c 06 N84-34443 * #
US-PATENT-APPL-SN-224232 ..... c 36 N83-29680 * #
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US-PATENT-APPL-SN-225499 ..... c 37 N84-12491 * #
US-PATENT-APPL-SN-225501 ..... c 44 N82-28780 * #
US-PATENT-APPL-SN-226476 ..... c 10 N73-32143 * #
US-PATENT-APPL-SN-226477 ..... c 74 N74-27866 * #
US-PATENT-APPL-SN-226551 ..... c 06 N73-26100 * #
US-PATENT-APPL-SN-227682 ..... c 14 N70-34161 * #
US-PATENT-APPL-SN-227683 ..... c 02 N70-36804 * #
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US-PATENT-APPL-SN-228150 ..... c 05 N73-32013 * #
US-PATENT-APPL-SN-228163 ..... c 44 N74-19693 * #
US-PATENT-APPL-SN-228189 ..... c 35 N74-11283 * #
US-PATENT-APPL-SN-228190 ..... c 23 N73-30666 * #
US-PATENT-APPL-SN-228229 ..... c 27 N77-31308 * #
US-PATENT-APPL-SN-228507 ..... c 11 N70-38182 * #
US-PATENT-APPL-SN-228569 ..... c 14 N71-16014 *
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US-PATENT-APPL-SN-229143 ..... c 09 N72-21248 * #
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US-PATENT-APPL-SN-229239 ..... c 31 N83-31897 * #
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US-PATENT-APPL-SN-229413 ..... c 14 N73-32323 * #
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US-PATENT-APPL-SN-229916 ..... c 46 N74-13011 * #
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US-PATENT-APPL-SN-231604 ..... c 28 N70-39925 * #
US-PATENT-APPL-SN-231662 ..... c 14 N73-30392 * #
US-PATENT-APPL-SN-232021 ..... c 04 N74-13420 * #
US-PATENT-APPL-SN-232318 ..... c 11 N71-15960 *
US-PATENT-APPL-SN-232914 ..... c 15 N70-36412 * #
US-PATENT-APPL-SN-233098 ..... c 12 N73-25262 * #
US-PATENT-APPL-SN-233173 ..... c 12 N73-28144 * #
US-PATENT-APPL-SN-233269 ..... c 76 N82-30105 * #
US-PATENT-APPL-SN-233270 ..... c 52 N83-27578 * #
US-PATENT-APPL-SN-233271 ..... c 27 N83-34043 * #
US-PATENT-APPL-SN-233519 ..... c 20 N74-13502 * #
US-PATENT-APPL-SN-233587 ..... c 16 N72-22520 * #
US-PATENT-APPL-SN-233743 ..... c 37 N74-13179 * #
US-PATENT-APPL-SN-234222 ..... c 34 N85-21568 * #
US-PATENT-APPL-SN-234223 ..... c 35 N83-21312 * #
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US-PATENT-APPL-SN-234225 ..... c 33 N83-36357 * #
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US-PATENT-APPL-SN-235266 ..... c 26 N73-32571 * #
US-PATENT-APPL-SN-235268 ..... c 36 N74-15145 * #
US-PATENT-APPL-SN-235269 ..... c 09 N73-30181 * #
US-PATENT-APPL-SN-235295 ..... c 09 N73-30185 * #
US-PATENT-APPL-SN-23532 ..... c 07 N72-21117 * #
US-PATENT-APPL-SN-235338 ..... c 71 N74-31148 * #
US-PATENT-APPL-SN-235363 ..... c 74 N81-24907 * #
US-PATENT-APPL-SN-235472 ..... c 60 N84-28492 * #
US-PATENT-APPL-SN-235588 ..... c 28 N71-28928 *
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US-PATENT-APPL-SN-235797 ..... c 44 N83-32175 * #
US-PATENT-APPL-SN-235868 ..... c 34 N83-29625 * #
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US-PATENT-APPL-SN-235962 ..... c 36 N74-11313 * #
US-PATENT-APPL-SN-236052 ..... c 14 N72-25428 * #
US-PATENT-APPL-SN-236281 ..... c 09 N73-20232 * #
US-PATENT-APPL-SN-236285 ..... c 08 N73-26175 * #
US-PATENT-APPL-SN-236748 ..... c 14 N70-40157 * #
US-PATENT-APPL-SN-236749 ..... c 15 N70-40180 * #
US-PATENT-APPL-SN-236985 ..... c 44 N74-19692 * #
US-PATENT-APPL-SN-237029 ..... c 09 N73-32108 * #
US-PATENT-APPL-SN-237491 ..... c 05 N75-12930 * #
US-PATENT-APPL-SN-237694 ..... c 35 N74-11284 * #
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US-PATENT-APPL-SN-238257 ..... c 07 N84-33410 * #
US-PATENT-APPL-SN-238263 ..... c 35 N74-10415 * #
US-PATENT-APPL-SN-238264 ..... c 37 N74-21061 * #
US-PATENT-APPL-SN-238264 ..... c 37 N74-32921 * #
US-PATENT-APPL-SN-238264 ..... c 37 N76-15461 * #
US-PATENT-APPL-SN-238421 ..... c 28 N71-29153 *
US-PATENT-APPL-SN-238785 ..... c 44 N83-14693 * #
US-PATENT-APPL-SN-238786 ..... c 37 N83-26078 * #
US-PATENT-APPL-SN-238790 ..... c 44 N82-29708 * #
US-PATENT-APPL-SN-238791 ..... c 71 N84-14873 * #
US-PATENT-APPL-SN-238826 ..... c 28 N77-10213 * #
US-PATENT-APPL-SN-238887 ..... c 37 N81-22360 * #
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US-PATENT-APPL-SN-239573 ..... c 33 N74-10223 * #
US-PATENT-APPL-SN-239574 ..... c 09 N73-32107 * #
US-PATENT-APPL-SN-239575 ..... c 09 N74-19528 * #
US-PATENT-APPL-SN-239576 ..... c 33 N74-14935 * #
US-PATENT-APPL-SN-239577 ..... c 35 N74-13132 * #
US-PATENT-APPL-SN-239803 ..... c 70 N74-13436 * #
US-PATENT-APPL-SN-240760 ..... c 15 N71-16075 *
US-PATENT-APPL-SN-241061 ..... c 06 N72-27151 * #
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US-PATENT-APPL-SN-241155 ..... c 27 N84-14324 * #
US-PATENT-APPL-SN-24154 ..... c 15 N70-35679 * #
US-PATENT-APPL-SN-24154 ..... c 15 N72-17450 * #
US-PATENT-APPL-SN-24155 ..... c 14 N73-26432 * #
US-PATENT-APPL-SN-241614 ..... c 10 N73-27171 * #
US-PATENT-APPL-SN-241615 ..... c 09 N73-32111 * #
US-PATENT-APPL-SN-242027 ..... c 52 N74-12778 * #
US-PATENT-APPL-SN-242028 ..... c 21 N73-30641 * #
US-PATENT-APPL-SN-24224 ..... c 09 N72-20200 * #
US-PATENT-APPL-SN-242662 ..... c 74 N74-15095 * #
US-PATENT-APPL-SN-242790 ..... c 06 N83-33882 * #
US-PATENT-APPL-SN-242795 ..... c 18 N83-20996 * #
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US-PATENT-APPL-SN-242797 ..... c 74 N85-22139 * #
US-PATENT-APPL-SN-243374 ..... c 15 N77-10112 * #
US-PATENT-APPL-SN-243682 ..... c 74 N83-19596 * #
US-PATENT-APPL-SN-243683 ..... c 33 N81-22280 * #
US-PATENT-APPL-SN-243683 ..... c 33 N83-28319 * #
US-PATENT-APPL-SN-243683 ..... c 33 N84-14424 * #
US-PATENT-APPL-SN-243683 ..... c 33 N84-33660 * #
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US-PATENT-APPL-SN-243685 ..... c 07 N81-27096 * #
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US-PATENT-APPL-SN-244566 ..... c 74 N74-20008 * #
US-PATENT-APPL-SN-245063 ..... c 33 N74-11049 * #
US-PATENT-APPL-SN-245279 ..... c 25 N74-30502 * #
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US-PATENT-APPL-SN-245941 ..... c 33 N71-17897 *
US-PATENT-APPL-SN-246056 ..... c 38 N74-15395 * #
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US-PATENT-APPL-SN-246773 ..... c 35 N83-29650 * #
US-PATENT-APPL-SN-246774 ..... c 34 N83-31993 * #
US-PATENT-APPL-SN-246777 ..... c 45 N83-25217 * #
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US-PATENT-APPL-SN-247055 ..... c 37 N74-11300 * #
US-PATENT-APPL-SN-247090 ..... c 37 N74-18128 * #
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US-PATENT-APPL-SN-247419 ..... c 14 N70-36907 * #
US-PATENT-APPL-SN-247423 ..... c 01 N71-13410 * #
US-PATENT-APPL-SN-247434 ... c 25 N76-29379 * #
US-PATENT-APPL-SN-247434 ..... c 25 N76-27383 * #
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US-PATENT-APPL-SN-248761 ..... c 15 N74-27360 * #
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US-PATENT-APPL-SN-249539 ..... c 28 N71-15658 *
US-PATENT-APPL-SN-249540 ..... c 15 N70-34861 * #
US-PATENT-APPL-SN-249542 ..... c 28 N70-41576 * #
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US-PATENT-APPL-SN-250585 ..... c 32 N85-21428 * #
US-PATENT-APPL-SN-250766 ..... c 07 N73-30115 * #
US-PATENT-APPL-SN-250974 ..... c 31 N71-15664 * #
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US-PATENT-APPL-SN-251449 ..... c 07 N70-40063 * #
US-PATENT-APPL-SN-251451 ..... c 09 N70-35425 * #
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US-PATENT-APPL-SN-251621 ..... c 16 N73-32391 * #
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US-PATENT-APPL-SN-252259 ..... c 33 N70-34545 * #
US-PATENT-APPL-SN-253249 ..... c 33 N74-11050 * #
US-PATENT-APPL-SN-253405 ..... c 10 N73-26228 * #
US-PATENT-APPL-SN-253725 ..... c 35 N74-13129 * #
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US-PATENT-APPL-SN-254173 ..... c 35 N75-13213 * #
US-PATENT-APPL-SN-254177 ..... c 10 N73-26230 * #
US-PATENT-APPL-SN-254323 ..... c 35 N76-15434 * #
US-PATENT-APPL-SN-254575 ..... c 25 N83-10126 * #
US-PATENT-APPL-SN-254688 ..... c 52 N83-27577 * #

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US-PATENT-APPL-SN-25488 ..... c 08 N72-25206 * #
US-PATENT-APPL-SN-255132 ..... c 14 N71-15598 * #
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US-PATENT-APPL-SN-258152 ..... c 35 N74-15090 * #
US-PATENT-APPL-SN-258171 ..... c 34 N74-27744 * #
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US-PATENT-APPL-SN-258623 ..... c 60 N83-32342 * #
US-PATENT-APPL-SN-258931 ..... c 14 N70-40203 * #
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US-PATENT-APPL-SN-259208 ..... c 44 N85-30474 * #
US-PATENT-APPL-SN-259209 ..... c 01 N83-35992 * #
US-PATENT-APPL-SN-259210 ..... c 32 N83-27085 * #
US-PATENT-APPL-SN-259211 ..... c 44 N84-14583 * #
US-PATENT-APPL-SN-259212 ..... c 35 N84-22931 * #
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US-PATENT-APPL-SN-261183 ..... c 09 N74-30597 * #
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US-PATENT-APPL-SN-261917 ..... c 09 N70-40272 * #
US-PATENT-APPL-SN-261918 ..... c 28 N70-41447 * #
US-PATENT-APPL-SN-262430 ..... c 35 N74-18323 * #
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US-PATENT-APPL-SN-264380 ..... c 44 N83-14692 * #
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US-PATENT-APPL-SN-264381 ..... c 52 N84-28389 * #
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US-PATENT-APPL-SN-264735 ..... c 28 N70-33265 *
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US-PATENT-APPL-SN-266256 ..... c 24 N83-13171 * #
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US-PATENT-APPL-SN-266925 ..... c 54 N74-17853 * #
US-PATENT-APPL-SN-266928 ..... c 26 N74-10521 * #
US-PATENT-APPL-SN-266930 ..... c 54 N74-12779 * #
US-PATENT-APPL-SN-266940 ..... c 32 N74-32598 * #
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US-PATENT-APPL-SN-269073 ..... c 52 N74-26625 * #
US-PATENT-APPL-SN-269212 ..... c 07 N71-10775 * #
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US-PATENT-APPL-SN-270118 ..... c 33 N71-17610 *
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US-PATENT-APPL-SN-272234 ..... c 25 N83-13188 * #
US-PATENT-APPL-SN-272406 ..... c 33 N84-14422 * #
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US-PATENT-APPL-SN-280031 ..... c 26 N73-26752 * #
US-PATENT-APPL-SN-280032 ..... c 35 N74-15093 * #
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US-PATENT-APPL-SN-280154 ..... c 33 N83-10345 * #
US-PATENT-APPL-SN-280155 ..... c 24 N84-11214 * #
US-PATENT-APPL-SN-280305 ..... c 34 N74-23039 * #
US-PATENT-APPL-SN-280362 ..... c 14 N71-28935 *
US-PATENT-APPL-SN-280390 ..... c 37 N74-15128 * #
US-PATENT-APPL-SN-280580 ..... c 12 N71-21089 *
US-PATENT-APPL-SN-280776 ..... c 14 N70-40273 * #
US-PATENT-APPL-SN-280777 ..... c 08 N70-41961 * #
US-PATENT-APPL-SN-281069 ..... c 14 N70-35394 * #
US-PATENT-APPL-SN-28175 ..... c 21 N70-33279 *
US-PATENT-APPL-SN-281875 ..... c 25 N74-18551 * #
US-PATENT-APPL-SN-281876 ..... c 52 N74-20726 * #
US-PATENT-APPL-SN-281877 ..... c 35 N74-15146 * #
US-PATENT-APPL-SN-281908 ..... c 25 N75-12086 * #
US-PATENT-APPL-SN-282129 ..... c 24 N83-25789 * #
US-PATENT-APPL-SN-282191 ..... c 35 N83-29651 * #
US-PATENT-APPL-SN-282192 ..... c 74 N83-21949 * #
US-PATENT-APPL-SN-282298 ..... c 33 N85-29144 * #
US-PATENT-APPL-SN-28235 ..... c 10 N72-17171 * #
US-PATENT-APPL-SN-282817 ..... c 15 N70-40156 * #
US-PATENT-APPL-SN-282818 ..... c 14 N71-14996 * #
US-PATENT-APPL-SN-283502 ..... c 37 N74-21060 * #
US-PATENT-APPL-SN-284245 ..... c 33 N74-17928 * #
US-PATENT-APPL-SN-284265 ..... c 14 N70-34799 * #
US-PATENT-APPL-SN-284266 ..... c 15 N71-16077 *
US-PATENT-APPL-SN-284286 ..... c 44 N84-28203 * #
US-PATENT-APPL-SN-284287 ..... c 32 N84-27951 * #
US-PATENT-APPL-SN-284288 ..... c 33 N83-36356 * #
US-PATENT-APPL-SN-284289 ..... c 34 N84-22903 * #
US-PATENT-APPL-SN-284290 ..... c 33 N83-34191 * #
US-PATENT-APPL-SN-284314 ..... c 33 N84-16454 * #
US-PATENT-APPL-SN-285705 ..... c 37 N74-21056 * #
US-PATENT-APPL-SN-286620 ..... c 15 N71-30028 *
US-PATENT-APPL-SN-286824 ..... c 44 N79-19447 * #
US-PATENT-APPL-SN-287149 ..... c 35 N74-32878 * #
US-PATENT-APPL-SN-287150 ..... c 37 N74-21065 * #
US-PATENT-APPL-SN-288267 ..... c 27 N83-31854 * #
US-PATENT-APPL-SN-288267 ..... c 27 N84-22745 * #
US-PATENT-APPL-SN-288267 ..... c 27 N85-21347 * #
US-PATENT-APPL-SN-288847 ..... c 33 N74-27862 * #
US-PATENT-APPL-SN-288856 ..... c 33 N74-20859 * #
US-PATENT-APPL-SN-288857 ..... c 14 N73-33361 * #
US-PATENT-APPL-SN-289017 ..... c 37 N74-27905 * #
US-PATENT-APPL-SN-289018 ..... c 08 N74-30421 * #
US-PATENT-APPL-SN-289033 ..... c 15 N73-32358 * #
US-PATENT-APPL-SN-289033 ..... c 37 N74-21055 * #
US-PATENT-APPL-SN-289048 ..... c 37 N74-21057 * #
US-PATENT-APPL-SN-289049 ..... c 19 N74-15089 * #
US-PATENT-APPL-SN-289050 ..... c 20 N74-32919 * #
US-PATENT-APPL-SN-290021 ..... c 37 N74-23064 * #
US-PATENT-APPL-SN-290022 ..... c 09 N73-12214 * #
US-PATENT-APPL-SN-290030 ..... c 33 N74-12887 * #
US-PATENT-APPL-SN-290043 ..... c 18 N75-27040 * #
US-PATENT-APPL-SN-290867 ..... c 28 N70-39931 * #
US-PATENT-APPL-SN-290868 ..... c 31 N70-34966 * #
US-PATENT-APPL-SN-290870 ..... c 15 N70-38996 * #
US-PATENT-APPL-SN-290873 ..... c 10 N71-16058 *
US-PATENT-APPL-SN-290915 ..... c 32 N74-11000 * #
US-PATENT-APPL-SN-291131 ..... c 33 N83-31953 * #
US-PATENT-APPL-SN-291132 ..... c 33 N83-35227 * #
US-PATENT-APPL-SN-291645 ..... c 60 N85-21992 * #
US-PATENT-APPL-SN-291845 ..... c 52 N74-27566 * #
US-PATENT-APPL-SN-292340 ..... c 52 N79-21750 * #
US-PATENT-APPL-SN-292382 ..... c 27 N74-17283 * #
US-PATENT-APPL-SN-292477 ..... c 15 N73-12495 * #
US-PATENT-APPL-SN-292596 ..... c 10 N71-29135 *
US-PATENT-APPL-SN-292681 ..... c 33 N74-10194 * #
US-PATENT-APPL-SN-292682 ..... c 14 N73-32319 * #
US-PATENT-APPL-SN-292685 ..... c 32 N74-20864 * #
US-PATENT-APPL-SN-292686 ..... c 20 N74-31269 * #
US-PATENT-APPL-SN-292698 ..... c 09 N73-32109 * #
US-PATENT-APPL-SN-293412 ..... c 27 N83-34039 * #
US-PATENT-APPL-SN-293414 ..... c 37 N84-16560 * #
US-PATENT-APPL-SN-293417 ..... c 37 N82-26673 * #
US-PATENT-APPL-SN-293418 ..... c 26 N83-31795 * #
US-PATENT-APPL-SN-293419 ..... c 33 N82-24427 * #
US-PATENT-APPL-SN-293725 ..... c 89 N74-30886 * #
US-PATENT-APPL-SN-293726 ..... c 37 N74-21055 * #
US-PATENT-APPL-SN-293727 ..... c 33 N74-14956 * #
US-PATENT-APPL-SN-293739 ..... c 35 N74-28097 * #
US-PATENT-APPL-SN-294727 ..... c 73 N77-18891 * #
US-PATENT-APPL-SN-294738 ..... c 73 N78-28913 * #
US-PATENT-APPL-SN-295855 ..... c 23 N71-17802 *
US-PATENT-APPL-SN-296137 ..... c 74 N84-28590 * #
US-PATENT-APPL-SN-296622 ..... c 44 N76-31666 * #
US-PATENT-APPL-SN-296879 ..... c 26 N71-18064 *
US-PATENT-APPL-SN-297127 ..... c 33 N74-27705 * #
US-PATENT-APPL-SN-297128 ..... c 32 N74-26654 * #
US-PATENT-APPL-SN-297436 ..... c 33 N79-11314 * #
US-PATENT-APPL-SN-297486 ..... c 35 N83-24828 * #
US-PATENT-APPL-SN-297488 ..... c 37 N84-16561 * #
US-PATENT-APPL-SN-297524 ..... c 33 N84-14424 * #
US-PATENT-APPL-SN-297524 ..... c 33 N84-22886 * #
US-PATENT-APPL-SN-298156 ..... c 37 N75-13261 * #
US-PATENT-APPL-SN-298156 ..... c 26 N75-19408 * #
US-PATENT-APPL-SN-298157 ..... c 33 N74-21850 * #
US-PATENT-APPL-SN-298799 ..... c 14 N71-15962 *
US-PATENT-APPL-SN-298800 ..... c 14 N70-34705 * #
US-PATENT-APPL-SN-299042 ..... c 15 N71-15918 *
US-PATENT-APPL-SN-29917 ..... c 15 N73-13465 * #
US-PATENT-APPL-SN-29917 ..... c 26 N74-10521 * #
US-PATENT-APPL-SN-29917 ..... c 37 N74-13179 * #
US-PATENT-APPL-SN-29979 ..... c 09 N75-15662 * #
US-PATENT-APPL-SN-300113 ..... c 33 N70-33344 *
US-PATENT-APPL-SN-300712 ..... c 15 N70-35407 * #
US-PATENT-APPL-SN-300957 ..... c 33 N71-29053 *
US-PATENT-APPL-SN-301039 ..... c 37 N74-27903 * #
US-PATENT-APPL-SN-301075 ..... c 25 N83-29324 * #
US-PATENT-APPL-SN-301077 ..... c 33 N84-14421 * #
US-PATENT-APPL-SN-301078 ..... c 08 N85-19985 * #
US-PATENT-APPL-SN-301417 ..... c 71 N74-21014 * #
US-PATENT-APPL-SN-301418 ..... c 52 N76-29894 * #
US-PATENT-APPL-SN-301419 ..... c 34 N76-17317 * #
US-PATENT-APPL-SN-301683 ..... c 07 N71-15907 *
US-PATENT-APPL-SN-302681 ..... c 37 N75-12326 * #
US-PATENT-APPL-SN-302749 ..... c 14 N70-40201 * #
US-PATENT-APPL-SN-302913 ..... c 76 N79-16678 * #
US-PATENT-APPL-SN-303670 ..... c 37 N82-11469 * #
US-PATENT-APPL-SN-303671 ..... c 31 N83-31896 * #
US-PATENT-APPL-SN-303672 ..... c 71 N83-32516 * #
US-PATENT-APPL-SN-304430 ..... c 52 N74-27864 * #
US-PATENT-APPL-SN-304698 ..... c 32 N70-41579 * #
US-PATENT-APPL-SN-304705 ..... c 32 N74-20810 * #
US-PATENT-APPL-SN-304749 ..... c 11 N71-16028 *
US-PATENT-APPL-SN-30498 ..... c 37 N74-21063 * #
US-PATENT-APPL-SN-305012 ..... c 35 N74-15094 * #
US-PATENT-APPL-SN-305013 ..... c 14 N73-13435 * #
US-PATENT-APPL-SN-305020 ..... c 21 N70-34295 * #
US-PATENT-APPL-SN-305638 ..... c 34 N74-23066 * #
US-PATENT-APPL-SN-305639 ..... c 37 N74-27904 * #
US-PATENT-APPL-SN-306652 ..... c 33 N74-32712 * #
US-PATENT-APPL-SN-307269 ..... c 24 N71-10560 * #
US-PATENT-APPL-SN-307270 ..... c 10 N71-16030 *
US-PATENT-APPL-SN-307271 ..... c 09 N71-22999 *
US-PATENT-APPL-SN-307714 ..... c 03 N76-32140 * #
US-PATENT-APPL-SN-307727 ..... c 32 N74-20813 * #
US-PATENT-APPL-SN-307728 ..... c 34 N74-27861 * #
US-PATENT-APPL-SN-307729 ..... c 31 N74-27900 * #
US-PATENT-APPL-SN-308007 ..... c 44 N83-34448 * #
US-PATENT-APPL-SN-308009 ..... c 33 N83-36355 * #
US-PATENT-APPL-SN-308201 ..... c 27 N83-28240 * #
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US-PATENT-APPL-SN-308203 ..... c 34 N84-12406 * #
US-PATENT-APPL-SN-308204 ..... c 31 N82-11312 * #
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US-PATENT-APPL-SN-309291 ..... c 37 N82-20544 * #
US-PATENT-APPL-SN-309292 ..... c 37 N84-28085 * #
US-PATENT-APPL-SN-309293 ..... c 25 N83-13187 * #
US-PATENT-APPL-SN-309354 ..... c 11 N71-15926 *
US-PATENT-APPL-SN-310034 ..... c 32 N74-30524 * #
US-PATENT-APPL-SN-310193 ..... c 33 N74-27682 * #
US-PATENT-APPL-SN-310506 ..... c 10 N71-16042 *
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US-PATENT-APPL-SN-310615 ..... c 37 N74-27901 * #
US-PATENT-APPL-SN-310616 ..... c 35 N74-21017 * #
US-PATENT-APPL-SN-310624 ..... c 33 N74-17929 * #
US-PATENT-APPL-SN-310714 ..... c 33 N82-11360 * #
US-PATENT-APPL-SN-311175 ..... c 52 N74-22771 * #
US-PATENT-APPL-SN-311234 ..... c 35 N74-23040 * #

US-PATENT-APPL-SN-311387 ..... c 23 N71-30027 *
US-PATENT-APPL-SN-312269 ..... c 28 N71-14043 * #
US-PATENT-APPL-SN-31242 ..... c 28 N70-33374 *
US-PATENT-APPL-SN-312443 ..... c 10 N71-21473 *
US-PATENT-APPL-SN-313132 ..... c 28 N70-34175 * #
US-PATENT-APPL-SN-313135 ..... c 15 N70-35087 * #
US-PATENT-APPL-SN-313136 ..... c 09 N71-12540 * #
US-PATENT-APPL-SN-313381 ..... c 35 N74-15091 * #
US-PATENT-APPL-SN-314074 ..... c 15 N71-16079 *
US-PATENT-APPL-SN-314570 ..... c 10 N71-28960 *
US-PATENT-APPL-SN-314572 ..... c 14 N71-15992 *
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US-PATENT-APPL-SN-314702 ..... c 71 N84-16940 * #
US-PATENT-APPL-SN-314928 ..... c 32 N84-34651 * #
US-PATENT-APPL-SN-314929 ..... c 71 N83-32515 * #
US-PATENT-APPL-SN-315048 ..... c 34 N74-27730 * #
US-PATENT-APPL-SN-315069 ..... c 33 N74-20862 * #
US-PATENT-APPL-SN-315070 ..... c 60 N76-23850 * #
US-PATENT-APPL-SN-315096 ..... c 12 N70-40124 * #
US-PATENT-APPL-SN-3151 ..... c 05 N72-27102 * #
US-PATENT-APPL-SN-315278 ..... c 51 N83-28849 * #
US-PATENT-APPL-SN-315583 ..... c 35 N84-33769 * #
US-PATENT-APPL-SN-315584 ..... c 23 N84-16255 * #
US-PATENT-APPL-SN-315587 ..... c 25 N83-31743 * #
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US-PATENT-APPL-SN-316477 ..... c 18 N71-10772 * #
US-PATENT-APPL-SN-316618 ..... c 07 N74-15453 * #
US-PATENT-APPL-SN-31702 ..... c 16 N73-16536 * #
US-PATENT-APPL-SN-31703 ..... c 09 N72-21244 * #
US-PATENT-APPL-SN-317310 ..... c 36 N77-25502 * #
US-PATENT-APPL-SN-317389 ..... c 18 N70-41583 * #
US-PATENT-APPL-SN-317391 ..... c 15 N71-15968 *
US-PATENT-APPL-SN-317567 ..... c 36 N75-15029 * #
US-PATENT-APPL-SN-317658 ..... c 36 N84-16542 * #
US-PATENT-APPL-SN-317977 ..... c 25 N83-36118 * #
US-PATENT-APPL-SN-318151 ..... c 75 N74-30156 * #
US-PATENT-APPL-SN-318152 ..... c 52 N74-20728 * #
US-PATENT-APPL-SN-318357 ..... c 35 N74-21019 * #
US-PATENT-APPL-SN-318358 ..... c 27 N74-27037 * #
US-PATENT-APPL-SN-318443 ..... c 03 N70-34667 * #
US-PATENT-APPL-SN-318848 ..... c 35 N77-14408 * #
US-PATENT-APPL-SN-31885 ..... c 10 N72-17172 * #
US-PATENT-APPL-SN-319150 ..... c 33 N75-19519 * #
US-PATENT-APPL-SN-319410 ..... c 37 N74-20063 * #
US-PATENT-APPL-SN-319892 ..... c 07 N71-10609 * #
US-PATENT-APPL-SN-319893 ..... c 14 N70-41647 * #
US-PATENT-APPL-SN-319894 ..... c 03 N71-11053 * #
US-PATENT-APPL-SN-319905 ..... c 14 N71-10781 * #
US-PATENT-APPL-SN-320233 ..... c 33 N71-15625 *
US-PATENT-APPL-SN-320595 ..... c 26 N70-40015 * #
US-PATENT-APPL-SN-320621 ..... c 27 N83-34040 * #
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US-PATENT-APPL-SN-322312 ..... c 25 N84-22709 * #
US-PATENT-APPL-SN-322314 ..... c 35 N84-12443 * #
US-PATENT-APPL-SN-322316 ..... c 31 N83-19947 * #
US-PATENT-APPL-SN-322317 ..... c 46 N85-21846 * #
US-PATENT-APPL-SN-322321 ..... c 37 N85-21651 * #
US-PATENT-APPL-SN-322545 ..... c 14 N71-10774 * #
US-PATENT-APPL-SN-322565 ..... c 37 N75-27376 * #
US-PATENT-APPL-SN-322997 ..... c 37 N75-15992 * #
US-PATENT-APPL-SN-322997 ..... c 24 N79-25143 * #
US-PATENT-APPL-SN-322998 ..... c 35 N74-32877 * #
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US-PATENT-APPL-SN-324029 ..... c 32 N74-27612 * #
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US-PATENT-APPL-SN-325885 ..... c 35 N82-25484 * #
US-PATENT-APPL-SN-325886 ..... c 33 N83-34190 * #
US-PATENT-APPL-SN-325931 ..... c 37 N82-26674 * #
US-PATENT-APPL-SN-325932 ..... c 33 N84-16455 * #
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US-PATENT-APPL-SN-326327 ..... c 44 N74-27519 * #
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US-PATENT-APPL-SN-32665 ..... c 14 N72-22444 * #
US-PATENT-APPL-SN-327163 ..... c 03 N71-20895 *
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US-PATENT-APPL-SN-328140 ..... c 18 N71-21651 *
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US-PATENT-APPL-SN-329243 ..... c 28 N74-33209 * #
US-PATENT-APPL-SN-329331 ..... c 15 N71-15906 *
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US-PATENT-APPL-SN-333537 ..... c 44 N83-32176 * #
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US-PATENT-APPL-SN-334349 ..... c 35 N75-19611 * #
US-PATENT-APPL-SN-334672 ..... c 14 N70-41330 * #
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US-PATENT-APPL-SN-336319 ..... c 44 N74-33379 * #
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US-PATENT-APPL-SN-339806 ..... c 07 N74-27490 * #
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US-PATENT-APPL-SN-340791 ..... c 35 N74-26945 * #
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US-PATENT-APPL-SN-340871 ..... c 44 N74-19870 * #
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US-PATENT-APPL-SN-344410 ..... c 07 N74-33218 * #
US-PATENT-APPL-SN-344793 ..... c 03 N71-11058 * #
US-PATENT-APPL-SN-345372 ..... c 33 N74-22814 * #
US-PATENT-APPL-SN-346356 ..... c 14 N70-41676 * #
US-PATENT-APPL-SN-346361 ..... c 37 N74-21064 * #
US-PATENT-APPL-SN-346372 ..... c 35 N75-12270 * #
US-PATENT-APPL-SN-346483 ..... c 37 N74-32921 * #
US-PATENT-APPL-SN-346483 ..... c 37 N76-15461 * #
US-PATENT-APPL-SN-347101 ..... c 09 N70-41675 * #
US-PATENT-APPL-SN-347626 ..... c 15 N70-40204 * #
US-PATENT-APPL-SN-347952 ..... c 37 N75-13265 * #
US-PATENT-APPL-SN-347953 ..... c 05 N75-24716 * #
US-PATENT-APPL-SN-347960 ..... c 03 N70-39930 * #
US-PATENT-APPL-SN-348422 ..... c 27 N76-15311 * #
US-PATENT-APPL-SN-348600 ..... c 28 N71-29154 *
US-PATENT-APPL-SN-348787 ..... c 33 N75-19521 * #
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US-PATENT-APPL-SN-349782 ..... c 09 N71-16086 *
US-PATENT-APPL-SN-34989 ..... c 36 N74-13205 * #
US-PATENT-APPL-SN-350249 ..... c 36 N75-15028 * #
US-PATENT-APPL-SN-350250 ..... c 27 N75-27160 * #
US-PATENT-APPL-SN-350300 ..... c 31 N74-32920 * #
US-PATENT-APPL-SN-350471 ..... c 35 N85-29213 * #
US-PATENT-APPL-SN-350472 ..... c 33 N84-14424 * #
US-PATENT-APPL-SN-350473 ..... c 07 N84-22559 * #
US-PATENT-APPL-SN-350474 ..... c 35 N84-22928 * #
US-PATENT-APPL-SN-350475 ..... c 35 N84-28017 * #
US-PATENT-APPL-SN-350476 ..... c 26 N84-22734 * #
US-PATENT-APPL-SN-350477 ..... c 35 N84-33765 * #
US-PATENT-APPL-SN-351259 ..... c 15 N71-10672 * #
US-PATENT-APPL-SN-351929 ..... c 33 N75-14957 * #
US-PATENT-APPL-SN-351950 ..... c 33 N75-27249 * #
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US-PATENT-APPL-SN-352381 ..... c 37 N76-14461 * #
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US-PATENT-APPL-SN-352383 ..... c 35 N75-16783 * #
US-PATENT-APPL-SN-352400 ..... c 26 N71-10607 * #
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US-PATENT-APPL-SN-352827 ..... c 35 N84-28015 * #
US-PATENT-APPL-SN-352827 ..... c 35 N85-21598 * #
US-PATENT-APPL-SN-352831 ..... c 35 N84-16523 * #
US-PATENT-APPL-SN-353162 ..... c 33 N75-26243 * #
US-PATENT-APPL-SN-353632 ..... c 15 N71-13789 * #
US-PATENT-APPL-SN-353634 ..... c 15 N70-41829 * #
US-PATENT-APPL-SN-353637 ..... c 02 N70-34160 * #
US-PATENT-APPL-SN-353644 ..... c 07 N71-23098 *
US-PATENT-APPL-SN-353645 ..... c 15 N71-15922 *
US-PATENT-APPL-SN-354060 ..... c 74 N76-19935 * #
US-PATENT-APPL-SN-354126 ..... c 37 N82-22496 * #
US-PATENT-APPL-SN-354182 ..... c 10 N71-20841 *
US-PATENT-APPL-SN-354406 ..... c 52 N76-14757 * #
US-PATENT-APPL-SN-354407 ..... c 33 N74-22865 * #
US-PATENT-APPL-SN-354408 ..... c 35 N75-19614 * #
US-PATENT-APPL-SN-354611 ..... c 25 N74-26947 * #
US-PATENT-APPL-SN-354612 ..... c 35 N75-30504 * #
US-PATENT-APPL-SN-355126 ..... c 17 N71-15644 * #
US-PATENT-APPL-SN-355129 ..... c 14 N70-41957 * #
US-PATENT-APPL-SN-355130 ..... c 15 N70-40354 * #
US-PATENT-APPL-SN-356488 ..... c 08 N71-19544 *
US-PATENT-APPL-SN-356554 ..... c 24 N75-33181 * #
US-PATENT-APPL-SN-356555 ..... c 37 N75-19685 * #
US-PATENT-APPL-SN-356664 ..... c 31 N75-12161 * #
US-PATENT-APPL-SN-356692 ..... c 15 N70-41371 * #
US-PATENT-APPL-SN-357126 ..... c 35 N74-34857 * #
US-PATENT-APPL-SN-357312 ..... c 27 N76-16229 * #
US-PATENT-APPL-SN-357334 ..... c 03 N71-12258 * #
US-PATENT-APPL-SN-357336 ..... c 03 N71-12259 * #
US-PATENT-APPL-SN-357337 ..... c 15 N71-10782 * #
US-PATENT-APPL-SN-357340 ..... c 23 N71-15673 *
US-PATENT-APPL-SN-358088 ..... c 35 N84-33767 * #
US-PATENT-APPL-SN-358089 ..... c 71 N84-23233 * #
US-PATENT-APPL-SN-358127 ..... c 05 N71-12335 * #
US-PATENT-APPL-SN-358398 ..... c 36 N84-22944 * #
US-PATENT-APPL-SN-359039 ..... c 32 N74-30523 * #
US-PATENT-APPL-SN-359156 ..... c 14 N75-24794 * #
US-PATENT-APPL-SN-359157 ..... c 35 N74-18090 * #
US-PATENT-APPL-SN-359382 ..... c 32 N85-34327 * #
US-PATENT-APPL-SN-359388 ..... c 44 N83-32177 * #
US-PATENT-APPL-SN-359532 ..... c 15 N71-28959 *
US-PATENT-APPL-SN-359626 ..... c 35 N84-28018 * #
US-PATENT-APPL-SN-359627 ..... c 35 N82-26631 * #
US-PATENT-APPL-SN-359627 ..... c 35 N85-29214 * #
US-PATENT-APPL-SN-359957 ..... c 07 N74-32418 * #
US-PATENT-APPL-SN-359958 ..... c 37 N74-26976 * #
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US-PATENT-APPL-SN-360182 ..... c 31 N70-36654 * #
US-PATENT-APPL-SN-360878 ..... c 03 N71-11051 * #
US-PATENT-APPL-SN-361215 ..... c 27 N84-14323 * #
US-PATENT-APPL-SN-361216 ..... c 35 N84-28016 * #
US-PATENT-APPL-SN-361217 ..... c 71 N85-22104 * #
US-PATENT-APPL-SN-361666 ..... c 33 N75-30428 * #
US-PATENT-APPL-SN-361711 ..... c 24 N82-26387 * #
US-PATENT-APPL-SN-361711 ..... c 24 N84-16262 * #
US-PATENT-APPL-SN-361906 ..... c 33 N74-20861 * #
US-PATENT-APPL-SN-361907 ..... c 35 N74-27865 * #
US-PATENT-APPL-SN-362145 ..... c 32 N75-26194 * #
US-PATENT-APPL-SN-362146 ..... c 33 N75-18479 * #
US-PATENT-APPL-SN-362261 ..... c 14 N73-32325 * #
US-PATENT-APPL-SN-362278 ..... c 37 N78-17385 * #
US-PATENT-APPL-SN-363130 ..... c 25 N81-19244 * #
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US-PATENT-APPL-SN-363653 ..... c 07 N70-41331 * #
US-PATENT-APPL-SN-363654 ..... c 07 N70-41372 * #
US-PATENT-APPL-SN-363691 ..... c 20 N76-14190 * #
US-PATENT-APPL-SN-364041 ..... c 76 N85-30923 * #
US-PATENT-APPL-SN-364072 ..... c 70 N84-28565 * #
US-PATENT-APPL-SN-364092 ..... c 76 N83-35888 * #
US-PATENT-APPL-SN-364093 ..... c 37 N83-34323 * #
US-PATENT-APPL-SN-364094 ..... c 37 N84-28083 * #
US-PATENT-APPL-SN-364097 ..... c 71 N82-27086 * #
US-PATENT-APPL-SN-364126 ..... c 36 N84-22943 * #
US-PATENT-APPL-SN-364867 ..... c 09 N71-10673 * #
US-PATENT-APPL-SN-365244 ..... c 37 N78-17386 * #
US-PATENT-APPL-SN-36531 ..... c 07 N72-25174 * #
US-PATENT-APPL-SN-36534 ..... c 21 N73-14692 * #
US-PATENT-APPL-SN-3654 ..... c 35 N77-27367 * #
US-PATENT-APPL-SN-365644 ..... c 35 N74-26946 * #
US-PATENT-APPL-SN-365950 ..... c 27 N83-18908 * #
US-PATENT-APPL-SN-366025 ..... c 27 N84-22744 * #
US-PATENT-APPL-SN-366103 ..... c 76 N84-35112 * #
US-PATENT-APPL-SN-366226 ..... c 10 N71-16057 *
US-PATENT-APPL-SN-367121 ..... c 24 N82-26389 * #
US-PATENT-APPL-SN-367132 ..... c 32 N85-21427 * #
US-PATENT-APPL-SN-367134 ..... c 44 N83-34449 * #
US-PATENT-APPL-SN-367136 ..... c 35 N85-21596 * #
US-PATENT-APPL-SN-367187 ..... c 04 N84-14132 * #
US-PATENT-APPL-SN-367268 ..... c 05 N75-25914 * #
US-PATENT-APPL-SN-367293 ..... c 36 N75-19655 * #
US-PATENT-APPL-SN-367294 ..... c 76 N75-12810 * #
US-PATENT-APPL-SN-367606 ..... c 75 N75-13625 * #
US-PATENT-APPL-SN-367606 ..... c 75 N76-17951 * #
US-PATENT-APPL-SN-368123 ..... c 09 N71-10618 * #

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US-PATENT-APPL-SN-368188 ..... c 33 N84-33663 * #
US-PATENT-APPL-SN-368189 ..... c 18 N84-22605 * #
US-PATENT-APPL-SN-36819 ..... c 23 N72-22673 * #
US-PATENT-APPL-SN-36926 ..... c 28 N72-23810 * #
US-PATENT-APPL-SN-369334 ..... c 21 N71-22880 *
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US-PATENT-APPL-SN-369337 ..... c 15 N70-41811 * #
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US-PATENT-APPL-SN-3696 ..... c 10 N72-20224 * #
US-PATENT-APPL-SN-370134 ..... c 30 N70-40353 * #
US-PATENT-APPL-SN-370135 ..... c 11 N70-41677 * #
US-PATENT-APPL-SN-370255 ..... c 33 N75-18477 * #
US-PATENT-APPL-SN-370271 ..... c 32 N75-24981 * #
US-PATENT-APPL-SN-37050 ..... c 33 N74-26732 * #
US-PATENT-APPL-SN-370582 ..... c 18 N76-14186 * #
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US-PATENT-APPL-SN-370989 ..... c 23 N71-29049 *
US-PATENT-APPL-SN-370999 ..... c 74 N78-15879 * #
US-PATENT-APPL-SN-371322 ..... c 44 N76-14600 * #
US-PATENT-APPL-SN-371351 ..... c 76 N84-35113 * #
US-PATENT-APPL-SN-371352 ..... c 52 N84-11744 * #
US-PATENT-APPL-SN-371353 ..... c 37 N82-26676 * #
US-PATENT-APPL-SN-371856 ..... c 15 N70-42033 * #
US-PATENT-APPL-SN-371857 ..... c 07 N70-41680 * #
US-PATENT-APPL-SN-372148 ..... c 35 N74-26949 * #
US-PATENT-APPL-SN-372149 ..... c 37 N75-15050 * #
US-PATENT-APPL-SN-372279 ..... c 35 N84-28019 * #
US-PATENT-APPL-SN-372438 ..... c 30 N71-17788 *
US-PATENT-APPL-SN-372648 ..... c 27 N71-16348 *
US-PATENT-APPL-SN-372727 ..... c 31 N70-36845 * #
US-PATENT-APPL-SN-372730 ..... c 28 N71-28850 *
US-PATENT-APPL-SN-373587 ..... c 33 N74-32711 * #
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US-PATENT-APPL-SN-373771 ..... c 35 N84-22934 * #
US-PATENT-APPL-SN-373839 ..... c 33 N84-22887 * #
US-PATENT-APPL-SN-374421 ..... c 27 N76-24405 * #
US-PATENT-APPL-SN-374422 ..... c 32 N75-24982 * #
US-PATENT-APPL-SN-374423 ..... c 36 N75-31427 * #
US-PATENT-APPL-SN-374424 ..... c 74 N75-12732 * #
US-PATENT-APPL-SN-374441 ..... c 35 N75-19616 * #
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US-PATENT-APPL-SN-374810 ..... c 27 N80-32514 * #
US-PATENT-APPL-SN-375401 ..... c 17 N71-16025 * #
US-PATENT-APPL-SN-375405 ..... c 31 N71-15675 *
US-PATENT-APPL-SN-375620 ..... c 43 N85-21723 * #
US-PATENT-APPL-SN-375674 ..... c 28 N70-41582 * #
US-PATENT-APPL-SN-375680 ..... c 10 N71-28739 *
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US-PATENT-APPL-SN-375684 ..... c 44 N85-21769 * #
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US-PATENT-APPL-SN-375784 ..... c 24 N85-21266 * #
US-PATENT-APPL-SN-375784 ..... c 24 N85-35233 * #
US-PATENT-APPL-SN-376306 ..... c 25 N84-12262 * #
US-PATENT-APPL-SN-377146 ..... c 14 N71-23041 *
US-PATENT-APPL-SN-377777 ..... c 32 N70-42003 * #
US-PATENT-APPL-SN-377780 ..... c 11 N71-10604 * #
US-PATENT-APPL-SN-377784 ..... c 28 N70-41311 * #
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US-PATENT-APPL-SN-377892 ..... c 33 N83-24763 * #
US-PATENT-APPL-SN-378080 ..... c 12 N71-24692 *
US-PATENT-APPL-SN-378126 ..... c 44 N76-18643 * #
US-PATENT-APPL-SN-378127 ..... c 44 N76-18641 * #
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US-PATENT-APPL-SN-378535 ..... c 74 N84-23248 * #
US-PATENT-APPL-SN-379019 ..... c 09 N75-12969 * #
US-PATENT-APPL-SN-379049 ..... c 31 N75-13111 * #
US-PATENT-APPL-SN-379072 ..... c 15 N71-16078 *
US-PATENT-APPL-SN-379417 ..... c 02 N70-41863 * #
US-PATENT-APPL-SN-379601 ..... c 71 N85-30765 * #
US-PATENT-APPL-SN-379602 ..... c 44 N84-23018 * #
US-PATENT-APPL-SN-379768 ..... c 28 N71-10780 * #
US-PATENT-APPL-SN-379771 ..... c 33 N71-28852 *
US-PATENT-APPL-SN-380046 ..... c 25 N76-29379 * #
US-PATENT-APPL-SN-380630 ..... c 37 N75-21631 * #
US-PATENT-APPL-SN-380960 ..... c 15 N70-41993 * #
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US-PATENT-APPL-SN-382261 ..... c 35 N76-14430 * #
US-PATENT-APPL-SN-382262 ..... c 37 N74-21058 * #
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US-PATENT-APPL-SN-382976 ..... c 15 N71-21179 *
US-PATENT-APPL-SN-383063 ..... c 37 N84-12493 * #
US-PATENT-APPL-SN-383068 ..... c 44 N84-34792 * #
US-PATENT-APPL-SN-383083 ..... c 33 N84-16453 * #
US-PATENT-APPL-SN-383086 ..... c 36 N85-21639 * #
US-PATENT-APPL-SN-383384 ..... c 06 N84-27733 * #
US-PATENT-APPL-SN-384010 ..... c 10 N71-28859 *
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US-PATENT-APPL-SN-385013 ..... c 35 N75-19613 * #
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US-PATENT-APPL-SN-385220 ..... c 36 N85-30305 * #
US-PATENT-APPL-SN-385520 ..... c 14 N71-23037 *
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US-PATENT-APPL-SN-387332 ..... c 15 N70-33226 *
US-PATENT-APPL-SN-387342 ..... c 37 N76-18457 * #
US-PATENT-APPL-SN-387646 ..... c 37 N85-30336 * #
US-PATENT-APPL-SN-387647 ..... c 33 N85-34333 * #
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US-PATENT-APPL-SN-38814 ..... c 15 N72-11385 *
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US-PATENT-APPL-SN-390468 ..... c 36 N75-19652 * #
US-PATENT-APPL-SN-391343 ..... c 05 N69-21473 * #
US-PATENT-APPL-SN-39185 ..... c 16 N72-25485 * #
US-PATENT-APPL-SN-392092 ..... c 51 N84-28361 * #
US-PATENT-APPL-SN-392093 ..... c 33 N82-28549 * #
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US-PATENT-APPL-SN-392104 ..... c 37 N85-20338 * #
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US-PATENT-APPL-SN-392944 ..... c 76 N85-29800 * #
US-PATENT-APPL-SN-392965 ..... c 18 N71-22998 *
US-PATENT-APPL-SN-392969 ..... c 09 N71-23573 *
US-PATENT-APPL-SN-392970 ..... c 32 N70-41367 * #
US-PATENT-APPL-SN-392973 ..... c 07 N71-23001 *
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US-PATENT-APPL-SN-39343 ..... c 34 N74-18552 * #
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US-PATENT-APPL-SN-393525 ..... c 31 N74-32917 * #
US-PATENT-APPL-SN-393526 ..... c 77 N75-20139 * #
US-PATENT-APPL-SN-393527 ..... c 15 N75-13007 * #
US-PATENT-APPL-SN-393528 ..... c 36 N75-19654 * #
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US-PATENT-APPL-SN-393585 ..... c 37 N82-31690 * #
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US-PATENT-APPL-SN-394206 ..... c 76 N75-25730 * #
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US-PATENT-APPL-SN-39755 ..... c 08 N72-21198 * #
US-PATENT-APPL-SN-397665 ..... c 10 N70-41991 * #
US-PATENT-APPL-SN-398131 ..... c 05 N70-41297 * #
US-PATENT-APPL-SN-398132 ..... c 15 N70-41808 * #
US-PATENT-APPL-SN-398885 ..... c 27 N76-15310 * #
US-PATENT-APPL-SN-398886 ..... c 07 N75-24736 * #
US-PATENT-APPL-SN-398901 ..... c 37 N75-25186 * #
US-PATENT-APPL-SN-399074 ..... c 33 N83-13360 * #
US-PATENT-APPL-SN-399419 ..... c 21 N71-23289 *
US-PATENT-APPL-SN-400467 ..... c 33 N75-30431 * #
US-PATENT-APPL-SN-400613 ..... c 15 N71-21528 *
US-PATENT-APPL-SN-400617 ..... c 31 N71-17629 *
US-PATENT-APPL-SN-400857 ..... c 31 N79-21225 * #
US-PATENT-APPL-SN-401224 ..... c 38 N78-17396 * #
US-PATENT-APPL-SN-401225 ..... c 38 N78-17395 * #
US-PATENT-APPL-SN-401282 ..... c 18 N85-29991 * #
US-PATENT-APPL-SN-401288 ..... c 37 N84-28081 * #
US-PATENT-APPL-SN-401466 ..... c 09 N75-24758 * #
US-PATENT-APPL-SN-401919 ..... c 24 N76-24363 * #
US-PATENT-APPL-SN-401920 ..... c 37 N75-25185 * #
US-PATENT-APPL-SN-401921 ..... c 24 N76-14203 * #
US-PATENT-APPL-SN-402205 ..... c 33 N85-30187 * #
US-PATENT-APPL-SN-402365 ..... c 31 N71-17730 *
US-PATENT-APPL-SN-402865 ..... c 33 N74-32660 * #
US-PATENT-APPL-SN-402867 ..... c 35 N75-33367 * #
US-PATENT-APPL-SN-402868 ..... c 35 N75-19612 * #
US-PATENT-APPL-SN-402978 ..... c 10 N71-23084 *
US-PATENT-APPL-SN-403154 ..... c 37 N77-22480 * #
US-PATENT-APPL-SN-403371 ..... c 27 N82-33523 * #
US-PATENT-APPL-SN-403378 ..... c 26 N84-33555 * #
US-PATENT-APPL-SN-403694 ..... c 54 N75-12616 * #
US-PATENT-APPL-SN-403695 ..... c 35 N77-20399 * #
US-PATENT-APPL-SN-403847 ..... c 31 N83-35176 * #
US-PATENT-APPL-SN-403848 ..... c 33 N85-21493 * #
US-PATENT-APPL-SN-403849 ..... c 35 N82-33681 * #
US-PATENT-APPL-SN-403959 ..... c 14 N70-41994 * #
US-PATENT-APPL-SN-403960 ..... c 14 N70-41366 * #
US-PATENT-APPL-SN-404212 ..... c 14 N73-32324 * #
US-PATENT-APPL-SN-404809 ..... c 27 N84-27885 * #
US-PATENT-APPL-SN-404809 ..... c 25 N85-28982 * #
US-PATENT-APPL-SN-405341 ..... c 37 N76-15460 * #
US-PATENT-APPL-SN-405342 ..... c 35 N75-19615 * #
US-PATENT-APPL-SN-405346 ..... c 37 N75-30562 * #
US-PATENT-APPL-SN-405629 ..... c 09 N71-10677 * #
US-PATENT-APPL-SN-405630 ..... c 14 N71-10616 * #
US-PATENT-APPL-SN-405632 ..... c 21 N71-15582 *
US-PATENT-APPL-SN-406097 ..... c 14 N71-21088 *
US-PATENT-APPL-SN-406296 ..... c 25 N79-10163 * #
US-PATENT-APPL-SN-406715 ..... c 35 N75-15014 * #
US-PATENT-APPL-SN-406820 ..... c 74 N83-13982 * #
US-PATENT-APPL-SN-407240 ..... c 27 N83-34041 * #
US-PATENT-APPL-SN-407240 ..... c 27 N85-20124 * #
US-PATENT-APPL-SN-407323 ..... c 32 N75-21485 * #
US-PATENT-APPL-SN-407595 ..... c 28 N70-41992 * #
US-PATENT-APPL-SN-407599 ..... c 14 N71-21091 *
US-PATENT-APPL-SN-407603 ..... c 05 N71-11199 * #
US-PATENT-APPL-SN-408435 ..... c 15 N71-28937 *
US-PATENT-APPL-SN-408438 ..... c 07 N71-22750 *
US-PATENT-APPL-SN-408442 ..... c 10 N71-23662 *
US-PATENT-APPL-SN-408575 ..... c 35 N83-32026 * #
US-PATENT-APPL-SN-409126 ..... c 18 N71-21068 *
US-PATENT-APPL-SN-409678 ..... c 09 N84-27749 * #
US-PATENT-APPL-SN-409679 ..... c 33 N82-33634 * #
US-PATENT-APPL-SN-409679 ..... c 33 N84-22884 * #
US-PATENT-APPL-SN-409680 ..... c 35 N85-20294 * #
US-PATENT-APPL-SN-409990 ..... c 35 N75-27330 * #
US-PATENT-APPL-SN-409991 ..... c 33 N75-13139 * #
US-PATENT-APPL-SN-410325 ..... c 18 N71-23088 *
US-PATENT-APPL-SN-410326 ..... c 09 N71-21449 *
US-PATENT-APPL-SN-410330 ..... c 26 N71-23043 *
US-PATENT-APPL-SN-410331 ..... c 02 N70-41589 * #
US-PATENT-APPL-SN-410332 ..... c 14 N71-23039 *
US-PATENT-APPL-SN-411572 ..... c 35 N75-15932 * #
US-PATENT-APPL-SN-411767 ..... c 74 N83-30222 * #
US-PATENT-APPL-SN-411944 ..... c 15 N70-41629 * #
US-PATENT-APPL-SN-411945 ..... c 18 N71-23047 *
US-PATENT-APPL-SN-411949 ..... c 27 N71-15635 *
US-PATENT-APPL-SN-412039 ..... c 06 N84-34443 * #
US-PATENT-APPL-SN-412079 ..... c 37 N75-13266 * #
US-PATENT-APPL-SN-412080 ..... c 36 N75-19653 * #
US-PATENT-APPL-SN-412379 ..... c 32 N77-10392 * #
US-PATENT-APPL-SN-413101 ..... c 07 N86-20389 * #
US-PATENT-APPL-SN-41345 ..... c 09 N72-29172 * #
US-PATENT-APPL-SN-41346 ..... c 15 N72-24522 * #
US-PATENT-APPL-SN-41347 ..... c 09 N72-25256 * #
US-PATENT-APPL-SN-41348 ..... c 09 N72-23173 * #
US-PATENT-APPL-SN-413661 ..... c 15 N71-23024 *
US-PATENT-APPL-SN-413662 ..... c 09 N70-41929 * #
US-PATENT-APPL-SN-414042 ..... c 35 N79-17192 * #
US-PATENT-APPL-SN-414043 ..... c 27 N76-32315 * #
US-PATENT-APPL-SN-41404 ..... c 03 N73-20039 * #
US-PATENT-APPL-SN-414106 ..... c 54 N84-16803 * #
US-PATENT-APPL-SN-414107 ..... c 35 N84-22932 * #
US-PATENT-APPL-SN-414237 ..... c 35 N85-30282 * #
US-PATENT-APPL-SN-41430 ..... c 10 N72-20221 * #
US-PATENT-APPL-SN-41431 ..... c 37 N77-27400 * #
US-PATENT-APPL-SN-414482 ..... c 10 N71-10578 * #
US-PATENT-APPL-SN-41455 ..... c 02 N70-33255 *
US-PATENT-APPL-SN-415486 ..... c 37 N75-19683 * #
US-PATENT-APPL-SN-415878 ..... c 08 N83-12098 * #
US-PATENT-APPL-SN-415879 ..... c 37 N85-21652 * #
US-PATENT-APPL-SN-415880 ..... c 27 N84-27884 * #
US-PATENT-APPL-SN-415960 ..... c 37 N85-20337 * #

US-PATENT-APPL-SN-416135 ..... c 32 N75-15854 * #
US-PATENT-APPL-SN-416938 ..... c 11 N71-10746 * #
US-PATENT-APPL-SN-416940 ..... c 21 N71-21708 *
US-PATENT-APPL-SN-416941 ..... c 31 N70-34159 * #
US-PATENT-APPL-SN-416943 ..... c 14 N71-23269 *
US-PATENT-APPL-SN-416945 ..... c 10 N71-23543 *
US-PATENT-APPL-SN-416946 ..... c 28 N71-15563 *
US-PATENT-APPL-SN-417253 ..... c 11 N71-23042 *
US-PATENT-APPL-SN-418137 ..... c 16 N84-22601 * #
US-PATENT-APPL-SN-418138 ..... c 16 N84-27784 * #
US-PATENT-APPL-SN-418139 ..... c 24 N84-27829 * #
US-PATENT-APPL-SN-418362 ..... c 14 N71-20741 *
US-PATENT-APPL-SN-418931 ..... c 05 N70-42000 * #
US-PATENT-APPL-SN-418933 ..... c 15 N71-23022 *
US-PATENT-APPL-SN-419319 ..... c 34 N76-17317 * #
US-PATENT-APPL-SN-419747 ..... c 17 N76-21250 * #
US-PATENT-APPL-SN-419748 ..... c 27 N76-14264 * #
US-PATENT-APPL-SN-419831 ..... c 35 N75-21582 * #
US-PATENT-APPL-SN-419831 ..... c 35 N77-17426 * #
US-PATENT-APPL-SN-42022 ..... c 15 N70-35409 * #
US-PATENT-APPL-SN-420245 ..... c 08 N71-22749 *
US-PATENT-APPL-SN-420250 ..... c 15 N71-23051 *
US-PATENT-APPL-SN-420424 ..... c 34 N75-26282 * #
US-PATENT-APPL-SN-420466 ..... c 14 N71-23092 *
US-PATENT-APPL-SN-420813 ..... c 36 N75-32441 * #
US-PATENT-APPL-SN-42088 ..... c 34 N78-17336 * #
US-PATENT-APPL-SN-421702 ..... c 44 N75-32581 * #
US-PATENT-APPL-SN-421702 ..... c 44 N76-23675 * #
US-PATENT-APPL-SN-422092 ..... c 14 N71-22989 *
US-PATENT-APPL-SN-422095 ..... c 07 N71-10676 * #
US-PATENT-APPL-SN-422096 ..... c 03 N71-29044 *
US-PATENT-APPL-SN-422097 ..... c 11 N71-21481 *
US-PATENT-APPL-SN-422098 ..... c 15 N71-22797 *
US-PATENT-APPL-SN-422099 ..... c 14 N71-22964 *
US-PATENT-APPL-SN-422864 ..... c 05 N69-21925 * #
US-PATENT-APPL-SN-422865 ..... c 31 N70-41631 * #
US-PATENT-APPL-SN-422867 ..... c 15 N70-40062 * #
US-PATENT-APPL-SN-422868 ..... c 15 N71-10617 * #
US-PATENT-APPL-SN-422869 ..... c 14 N71-10779 * #
US-PATENT-APPL-SN-423016 ..... c 36 N85-21631 * #
US-PATENT-APPL-SN-423412 ..... c 08 N71-22897 *
US-PATENT-APPL-SN-424013 ..... c 34 N76-27517 * #
US-PATENT-APPL-SN-424038 ..... c 24 N75-30260 * #
US-PATENT-APPL-SN-424153 ..... c 15 N71-21234 *
US-PATENT-APPL-SN-424156 ..... c 02 N71-23007 *
US-PATENT-APPL-SN-424157 ..... c 28 N70-41275 * #
US-PATENT-APPL-SN-425096 ..... c 05 N71-23080 *
US-PATENT-APPL-SN-425201 ..... c 04 N86-19304 * #
US-PATENT-APPL-SN-425202 ..... c 74 N85-34629 * #
US-PATENT-APPL-SN-425203 ..... c 35 N84-22930 * #
US-PATENT-APPL-SN-425204 ..... c 32 N85-29117 * #
US-PATENT-APPL-SN-425205 ..... c 35 N85-21595 * #
US-PATENT-APPL-SN-425362 ..... c 15 N71-10658 * #
US-PATENT-APPL-SN-425363 ..... c 09 N71-20658 *
US-PATENT-APPL-SN-425364 ..... c 33 N71-15623 *
US-PATENT-APPL-SN-425365 ..... c 32 N71-21045 *
US-PATENT-APPL-SN-425972 ..... c 03 N71-23006 *
US-PATENT-APPL-SN-426155 ..... c 33 N75-15874 * #
US-PATENT-APPL-SN-426405 ..... c 25 N75-26043 * #
US-PATENT-APPL-SN-426455 ..... c 28 N71-15661 *
US-PATENT-APPL-SN-426702 ..... c 15 N70-42034 * #
US-PATENT-APPL-SN-427395 ..... c 54 N75-27760 * #
US-PATENT-APPL-SN-427775 ..... c 27 N76-22376 * #
US-PATENT-APPL-SN-427990 ..... c 06 N71-23527 *
US-PATENT-APPL-SN-428444 ..... c 44 N76-18642 * #
US-PATENT-APPL-SN-428444 ..... c 44 N76-29704 * #
US-PATENT-APPL-SN-428882 ..... c 31 N70-41948 * #
US-PATENT-APPL-SN-428887 ..... c 33 N71-29051 *
US-PATENT-APPL-SN-428890 ..... c 02 N70-41630 * #
US-PATENT-APPL-SN-428992 ..... c 34 N77-18382 * #
US-PATENT-APPL-SN-428993 ..... c 45 N75-27585 * #
US-PATENT-APPL-SN-428994 ..... c 32 N75-21486 * #
US-PATENT-APPL-SN-428994 ..... c 32 N76-16249 * #
US-PATENT-APPL-SN-428995 ..... c 51 N75-25503 * #
US-PATENT-APPL-SN-429437 ..... c 35 N75-23910 * #
US-PATENT-APPL-SN-429932 ..... c 05 N71-20268 *
US-PATENT-APPL-SN-430192 ..... c 18 N71-27170 *
US-PATENT-APPL-SN-430226 ..... c 18 N71-23658 *
US-PATENT-APPL-SN-430496 ..... c 26 N75-29236 * #
US-PATENT-APPL-SN-430748 ..... c 76 N79-21910 * #
US-PATENT-APPL-SN-430776 ..... c 03 N70-41954 * #
US-PATENT-APPL-SN-430777 ..... c 18 N71-24184 *
US-PATENT-APPL-SN-430778 ..... c 03 N71-10728 * #
US-PATENT-APPL-SN-430780 ..... c 03 N71-12260 * #
US-PATENT-APPL-SN-431235 ..... c 15 N71-16052 *
US-PATENT-APPL-SN-431420 ..... c 37 N85-29282 * #
US-PATENT-APPL-SN-431448 ..... c 37 N84-22957 * #
US-PATENT-APPL-SN-431886 ..... c 18 N84-27787 * #
US-PATENT-APPL-SN-432025 ..... c 15 N71-21531 *
US-PATENT-APPL-SN-432026 ..... c 07 N71-23405 *
US-PATENT-APPL-SN-432027 ..... c 21 N70-41930 * #
US-PATENT-APPL-SN-432028 ..... c 15 N71-22723 *
US-PATENT-APPL-SN-432030 ..... c 12 N71-20896 *
US-PATENT-APPL-SN-432032 ..... c 15 N69-24322 * #
US-PATENT-APPL-SN-432057 ..... c 33 N84-14423 * #
US-PATENT-APPL-SN-432433 ..... c 15 N71-22705 *
US-PATENT-APPL-SN-433196 ..... c 44 N84-23019 * #
US-PATENT-APPL-SN-43327 ..... c 15 N72-26371 * #
US-PATENT-APPL-SN-433598 ..... c 27 N84-22747 * #
US-PATENT-APPL-SN-433821 ..... c 09 N71-16089 *
US-PATENT-APPL-SN-433968 ..... c 33 N75-25041 * #
US-PATENT-APPL-SN-434084 ..... c 33 N84-27974 * #
US-PATENT-APPL-SN-434085 ..... c 33 N85-29145 * #
US-PATENT-APPL-SN-434087 ..... c 27 N86-19457 * #
US-PATENT-APPL-SN-434143 ..... c 15 N71-15871 *
US-PATENT-APPL-SN-434148 ..... c 31 N71-24750 *
US-PATENT-APPL-SN-434672 ..... c 34 N84-14461 * #
US-PATENT-APPL-SN-434674 ..... c 34 N83-35307 * #
US-PATENT-APPL-SN-435387 ..... c 10 N70-42032 * #
US-PATENT-APPL-SN-435433 ..... c 14 N71-30026 *
US-PATENT-APPL-SN-435511 ..... c 27 N84-27886 * #
US-PATENT-APPL-SN-435756 ..... c 12 N71-16894 *
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US-PATENT-APPL-SN-436317 ..... c 37 N76-24575 * #
US-PATENT-APPL-SN-437556 ..... c 27 N76-16230 * #
US-PATENT-APPL-SN-437611 ..... c 09 N71-22796 *
US-PATENT-APPL-SN-437912 ..... c 33 N85-29142 * #
US-PATENT-APPL-SN-437913 ..... c 33 N83-12334 * #
US-PATENT-APPL-SN-437917 ..... c 60 N85-33701 * #
US-PATENT-APPL-SN-438135 ..... c 09 N71-23027 *
US-PATENT-APPL-SN-438147 ..... c 75 N76-14931 * #
US-PATENT-APPL-SN-438446 ..... c 74 N86-20126 * #
US-PATENT-APPL-SN-438797 ..... c 14 N71-10500 * #
US-PATENT-APPL-SN-43883 ..... c 18 N73-30532 * #
US-PATENT-APPL-SN-43884 ..... c 15 N72-25457 * #
US-PATENT-APPL-SN-439489 ..... c 09 N70-41717 * #
US-PATENT-APPL-SN-439490 ..... c 23 N69-24332 * #
US-PATENT-APPL-SN-440033 ..... c 27 N70-41897 * #
US-PATENT-APPL-SN-440036 ..... c 09 N71-23097 *
US-PATENT-APPL-SN-440039 ..... c 09 N71-22888 *
US-PATENT-APPL-SN-440656 ..... c 27 N85-21348 * #
US-PATENT-APPL-SN-440916 ..... c 33 N75-27252 * #
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US-PATENT-APPL-SN-441936 ..... c 14 N69-39975 * #
US-PATENT-APPL-SN-442558 ..... c 15 N71-10799 * #
US-PATENT-APPL-SN-442835 ..... c 26 N71-29156 *
US-PATENT-APPL-SN-444087 ..... c 02 N71-11041 * #
US-PATENT-APPL-SN-444124 ..... c 52 N84-23095 * #
US-PATENT-APPL-SN-444125 ..... c 20 N83-17588 * #
US-PATENT-APPL-SN-444149 ..... c 47 N84-28292 * #
US-PATENT-APPL-SN-444150 ..... c 35 N84-22933 * #
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US-PATENT-APPL-SN-446131 ..... c 14 N71-22992 *
US-PATENT-APPL-SN-446560 ..... c 12 N76-15189 * #
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US-PATENT-APPL-SN-446568 ..... c 37 N76-23570 * #
US-PATENT-APPL-SN-446569 ..... c 77 N75-20140 * #
US-PATENT-APPL-SN-447124 ..... c 35 N75-30503 * #
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US-PATENT-APPL-SN-447928 ..... c 15 N71-10577 * #
US-PATENT-APPL-SN-447930 ..... c 14 N69-39896 * #
US-PATENT-APPL-SN-447933 ..... c 03 N69-21337 * #
US-PATENT-APPL-SN-448320 ..... c 91 N76-30131 * #
US-PATENT-APPL-SN-448321 ..... c 27 N78-32261 * #
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US-PATENT-APPL-SN-448325 ..... c 33 N75-26244 * #
US-PATENT-APPL-SN-448365 ..... c 10 N71-26414 *
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US-PATENT-APPL-SN-448898 ..... c 15 N70-41310 * #
US-PATENT-APPL-SN-449118 ..... c 33 N75-19524 * #
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US-PATENT-APPL-SN-452465 ..... c 25 N83-17628 * #
US-PATENT-APPL-SN-452466 ..... c 03 N84-33394 * #
US-PATENT-APPL-SN-452761 ..... c 33 N75-19522 * #
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US-PATENT-APPL-SN-453115 ..... c 32 N76-14321 * #
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US-PATENT-APPL-SN-455163 ..... c 32 N75-26195 * #
US-PATENT-APPL-SN-455165 ..... c 36 N75-30524 * #
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US-PATENT-APPL-SN-458484 ..... c 44 N76-14595 * #
US-PATENT-APPL-SN-459138 ..... c 14 N71-10773 * #
US-PATENT-APPL-SN-459407 ..... c 14 N73-30391 * #
US-PATENT-APPL-SN-459736 ..... c 33 N75-26245 * #
US-PATENT-APPL-SN-459842 ..... c 35 N85-30281 * #
US-PATENT-APPL-SN-460509 ..... c 37 N84-33807 * #
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US-PATENT-APPL-SN-460733 ..... c 37 N83-20154 * #
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US-PATENT-APPL-SN-460877 ..... c 33 N71-23085 *
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US-PATENT-APPL-SN-461714 ..... c 37 N83-20152 * #
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US-PATENT-APPL-SN-461765 ..... c 17 N71-23046 *
US-PATENT-APPL-SN-461788 ..... c 27 N85-21349 * #
US-PATENT-APPL-SN-462341 ..... c 44 N76-31666 * #
US-PATENT-APPL-SN-462424 ..... c 24 N77-19171 * #
US-PATENT-APPL-SN-462497 ..... c 25 N85-21279 * #
US-PATENT-APPL-SN-462508 ..... c 35 N83-20085 #
US-PATENT-APPL-SN-462508 ..... c 35 N86-19580 * #
US-PATENT-APPL-SN-462705 ..... c 37 N75-19684 * #
US-PATENT-APPL-SN-462762 ..... c 12 N69-21466 * #
US-PATENT-APPL-SN-462763 ..... c 14 N71-22991 *
US-PATENT-APPL-SN-462844 ..... c 33 N75-19520 * #
US-PATENT-APPL-SN-462903 ..... c 37 N76-14461 * #
US-PATENT-APPL-SN-463456 ..... c 37 N85-30333 * #
US-PATENT-APPL-SN-463925 ..... c 74 N76-30053 * #
US-PATENT-APPL-SN-464720 ..... c 32 N76-16249 * #
US-PATENT-APPL-SN-464721 ..... c 37 N75-26372 * #
US-PATENT-APPL-SN-464722 ..... c 35 N76-22509 * #
US-PATENT-APPL-SN-464723 ..... c 33 N75-30429 * #
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US-PATENT-APPL-SN-464879 ..... c 14 N71-21072 *
US-PATENT-APPL-SN-464880 ..... c 33 N71-21586 *
US-PATENT-APPL-SN-464885 ..... c 15 N71-22997 *
US-PATENT-APPL-SN-465363 ..... c 52 N84-28389 * #
US-PATENT-APPL-SN-465364 ..... c 44 N85-20530 * #
US-PATENT-APPL-SN-465365 ..... c 43 N86-19711 * #
US-PATENT-APPL-SN-465366 ..... c 27 N85-20126 * #
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US-PATENT-APPL-SN-465370 ..... c 52 N83-29991 * #
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US-PATENT-APPL-SN-466868 ..... c 22 N71-23599 *
US-PATENT-APPL-SN-466873 ..... c 17 N71-20743 *
US-PATENT-APPL-SN-466875 ..... c 08 N71-22707 *
US-PATENT-APPL-SN-467820 ..... c 28 N71-26779 *
US-PATENT-APPL-SN-468614 ..... c 60 N77-14751 * #
US-PATENT-APPL-SN-468614 ..... c 60 N77-32731 * #
US-PATENT-APPL-SN-468614 ..... c 60 N78-10709 * #
US-PATENT-APPL-SN-468647 ..... c 21 N71-10771 * #
US-PATENT-APPL-SN-468655 ..... c 15 N69-21471 * #
US-PATENT-APPL-SN-469011 ..... c 11 N69-21540 * #
US-PATENT-APPL-SN-469012 ..... c 25 N71-20747 *
US-PATENT-APPL-SN-469013 ..... c 14 N69-27423 * #
US-PATENT-APPL-SN-469371 ..... c 05 N86-19310 * #
US-PATENT-APPL-SN-469864 ..... c 37 N86-19605 * #
US-PATENT-APPL-SN-469865 ..... c 37 N83-20156 * #
US-PATENT-APPL-SN-469866 ..... c 27 N84-22749 * #
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US-PATENT-APPL-SN-470114 ..... c 25 N83-24572 * #
US-PATENT-APPL-SN-470428 ..... c 33 N76-16332 * #
US-PATENT-APPL-SN-470429 ..... c 33 N75-31329 * #
US-PATENT-APPL-SN-47061 ..... c 26 N72-25680 * #
US-PATENT-APPL-SN-47062 ..... c 15 N72-17451 * #
US-PATENT-APPL-SN-47063 ..... c 33 N72-25911 * #
US-PATENT-APPL-SN-47063 ..... c 33 N73-25952 * #

US-PATENT-APPL-SN-470902 ..... c 06 N71-28808 *
US-PATENT-APPL-SN-471154 ..... c 09 N73-28084 * #
US-PATENT-APPL-SN-47120 ..... c 31 N70-33242 *
US-PATENT-APPL-SN-47121 ..... c 09 N70-39915 * #
US-PATENT-APPL-SN-47122 ..... c 14 N70-34813 * #
US-PATENT-APPL-SN-47123 ..... c 15 N70-34817 * #
US-PATENT-APPL-SN-472066 ..... c 31 N70-42075 * #
US-PATENT-APPL-SN-472372 ..... c 07 N71-20791 *
US-PATENT-APPL-SN-472643 ..... c 33 N79-21265 * #
US-PATENT-APPL-SN-472747 ..... c 31 N71-16081 *
US-PATENT-APPL-SN-472775 ..... c 35 N75-33369 * #
US-PATENT-APPL-SN-473498 ..... c 20 N85-21256 * #
US-PATENT-APPL-SN-473499 ..... c 74 N86-21348 * #
US-PATENT-APPL-SN-473535 ..... c 31 N71-15637 *
US-PATENT-APPL-SN-473537 ..... c 08 N71-15908 *
US-PATENT-APPL-SN-473827 ..... c 35 N83-21316 * #
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US-PATENT-APPL-SN-47440 ..... c 07 N73-20174 * #
US-PATENT-APPL-SN-47441 ..... c 09 N70-34559 * #
US-PATENT-APPL-SN-47443 ..... c 09 N72-17152 * #
US-PATENT-APPL-SN-474531 ..... c 31 N71-23009 *
US-PATENT-APPL-SN-474744 ..... c 35 N76-14431 * #
US-PATENT-APPL-SN-474745 ..... c 37 N76-14463 * #
US-PATENT-APPL-SN-474815 ..... c 33 N79-21264 * #
US-PATENT-APPL-SN-475299 ..... c 31 N71-17679 *
US-PATENT-APPL-SN-475336 ..... c 54 N75-27758 * #
US-PATENT-APPL-SN-475337 ..... c 51 N76-29891 * #
US-PATENT-APPL-SN-475338 ..... c 35 N76-15431 * #
US-PATENT-APPL-SN-476244 ..... c 33 N84-22885 * #
US-PATENT-APPL-SN-476759 ..... c 03 N70-42073 * #
US-PATENT-APPL-SN-476761 ..... c 11 N71-10748 * #
US-PATENT-APPL-SN-476763 ..... c 09 N69-21313 * #
US-PATENT-APPL-SN-477333 ..... c 28 N70-41922 * #
US-PATENT-APPL-SN-478129 ..... c 25 N83-29325 * #
US-PATENT-APPL-SN-478130 ..... c 74 N85-23396 * #
US-PATENT-APPL-SN-478131 ..... c 26 N83-24639 * #
US-PATENT-APPL-SN-478491 ..... c 14 N69-21363 * #
US-PATENT-APPL-SN-478800 ..... c 37 N76-19436 * #
US-PATENT-APPL-SN-478802 ..... c 06 N74-27872 * #
US-PATENT-APPL-SN-478802 ..... c 35 N75-29381 * #
US-PATENT-APPL-SN-478803 ..... c 31 N76-14284 * #
US-PATENT-APPL-SN-479353 ..... c 15 N71-23256 *
US-PATENT-APPL-SN-479357 ..... c 36 N77-19416 * #
US-PATENT-APPL-SN-480210 ..... c 11 N71-21474 *
US-PATENT-APPL-SN-480211 ..... c 14 N71-26135 *
US-PATENT-APPL-SN-481020 ..... c 36 N83-29681 * #
US-PATENT-APPL-SN-481086 ..... c 33 N84-33660 * #
US-PATENT-APPL-SN-481106 ..... c 09 N84-34448 * #
US-PATENT-APPL-SN-482104 ..... c 27 N76-22377 * #
US-PATENT-APPL-SN-482105 ..... c 27 N76-23426 * #
US-PATENT-APPL-SN-482307 ..... c 15 N71-21060 *
US-PATENT-APPL-SN-482311 ..... c 05 N71-22748 *
US-PATENT-APPL-SN-482313 ..... c 11 N69-24321 * #
US-PATENT-APPL-SN-482670 ..... c 14 N71-21007 *
US-PATENT-APPL-SN-482952 ..... c 09 N71-28926 *
US-PATENT-APPL-SN-482953 ..... c 74 N76-18913 * #
US-PATENT-APPL-SN-482967 ..... c 34 N76-18364 * #
US-PATENT-APPL-SN-483301 ..... c 36 N77-26477 * #
US-PATENT-APPL-SN-483817 ..... c 27 N79-21190 * #
US-PATENT-APPL-SN-483850 ..... c 37 N76-14460 * #
US-PATENT-APPL-SN-483851 ..... c 35 N76-15435 * #
US-PATENT-APPL-SN-483852 ..... c 33 N75-30430 * #
US-PATENT-APPL-SN-483857 ..... c 44 N76-14601 * #
US-PATENT-APPL-SN-483858 ..... c 35 N76-18400 * #
US-PATENT-APPL-SN-483885 ..... c 04 N71-23185 *
US-PATENT-APPL-SN-483886 ..... c 09 N71-22988 *
US-PATENT-APPL-SN-483891 ..... c 14 N69-39982 * #
US-PATENT-APPL-SN-484156 ..... c 11 N71-21475 *
US-PATENT-APPL-SN-484208 ..... c 35 N75-30502 * #
US-PATENT-APPL-SN-484209 ..... c 35 N76-18403 * #
US-PATENT-APPL-SN-484485 ..... c 01 N71-23497 *
US-PATENT-APPL-SN-484489 ..... c 10 N71-15909 *
US-PATENT-APPL-SN-484490 ..... c 24 N71-20518 *
US-PATENT-APPL-SN-484745 ..... c 35 N85-20295 * #
US-PATENT-APPL-SN-484855 ..... c 09 N71-19480 *
US-PATENT-APPL-SN-485058 ..... c 06 N71-23500 *
US-PATENT-APPL-SN-485656 ..... c 28 N71-10574 * #
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US-PATENT-APPL-SN-485958 ..... c 15 N71-24047 *
US-PATENT-APPL-SN-485960 ..... c 15 N70-42017 * #
US-PATENT-APPL-SN-48621 ..... c 20 N78-32179 * #
US-PATENT-APPL-SN-486470 ..... c 44 N85-21768 * #
US-PATENT-APPL-SN-486471 ..... c 33 N85-21492 * #
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US-PATENT-APPL-SN-486884 ..... c 15 N73-32362 * #
US-PATENT-APPL-SN-487156 ..... c 44 N77-10636 * #
US-PATENT-APPL-SN-487341 ..... c 14 N71-19431 *
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US-PATENT-APPL-SN-487344 ..... c 15 N69-21472 * #
US-PATENT-APPL-SN-487352 ..... c 14 N71-18699 *
US-PATENT-APPL-SN-487852 ..... c 23 N76-15268 * #
US-PATENT-APPL-SN-487929 ..... c 33 N74-20859 * #
US-PATENT-APPL-SN-487934 ..... c 15 N71-21530 *
US-PATENT-APPL-SN-487939 ..... c 14 N71-23040 *
US-PATENT-APPL-SN-487940 ..... c 10 N71-26434 *
US-PATENT-APPL-SN-488381 ..... c 14 N73-32321 * #
US-PATENT-APPL-SN-488616 ..... c 07 N76-18117 * #
US-PATENT-APPL-SN-488745 ..... c 26 N75-27127 * #
US-PATENT-APPL-SN-489008 ..... c 23 N75-30256 * #
US-PATENT-APPL-SN-489009 ..... c 33 N76-19339 * #
US-PATENT-APPL-SN-489442 ..... c 25 N69-39884 * #
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US-PATENT-APPL-SN-491059 ..... c 09 N71-23015 *
US-PATENT-APPL-SN-491113 ..... c 35 N86-19581 * #
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US-PATENT-APPL-SN-491416 ..... c 35 N75-33368 * #
US-PATENT-APPL-SN-491417 ..... c 37 N76-19437 * #
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US-PATENT-APPL-SN-491419 ..... c 32 N76-15330 * #
US-PATENT-APPL-SN-491845 ..... c 28 N71-15659 *
US-PATENT-APPL-SN-492282 ..... c 27 N85-20124 * #
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US-PATENT-APPL-SN-493179 ..... c 23 N85-35227 * #
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US-PATENT-APPL-SN-493864 ..... c 23 N83-28076 * #
US-PATENT-APPL-SN-493865 ..... c 24 N86-19380 * #
US-PATENT-APPL-SN-493866 ..... c 71 N84-28568 * #
US-PATENT-APPL-SN-493942 ..... c 14 N71-17659 *
US-PATENT-APPL-SN-493943 ..... c 15 N71-21529 *
US-PATENT-APPL-SN-494280 ..... c 28 N71-23081 *
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US-PATENT-APPL-SN-494283 ..... c 31 N71-24035 *
US-PATENT-APPL-SN-494287 ..... c 03 N71-22974 *
US-PATENT-APPL-SN-494739 ..... c 07 N71-26291 *
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US-PATENT-APPL-SN-495022 ..... c 60 N77-12721 * #
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US-PATENT-APPL-SN-495381 ..... c 24 N85-21267 * #
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US-PATENT-APPL-SN-496779 ..... c 05 N76-29217 * #
US-PATENT-APPL-SN-498167 ..... c 03 N71-10608 * #
US-PATENT-APPL-SN-498168 ..... c 28 N71-21822 *
US-PATENT-APPL-SN-499122 ..... c 15 N71-24164 *
US-PATENT-APPL-SN-499126 ..... c 23 N86-19376 * #
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US-PATENT-APPL-SN-500446 ..... c 10 N71-23029 *
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US-PATENT-APPL-SN-50207 ..... c 07 N72-20141 * #
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US-PATENT-APPL-SN-502135 ..... c 35 N76-15433 * #
US-PATENT-APPL-SN-502136 ..... c 35 N75-27331 * #
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US-PATENT-APPL-SN-502709 ..... c 31 N71-21881 *
US-PATENT-APPL-SN-502710 ..... c 15 N71-23048 *
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US-PATENT-APPL-SN-505321 ..... c 10 N71-22962 *
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US-PATENT-APPL-SN-507625 ..... c 76 N86-20150 * #
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US-PATENT-APPL-SN-517156 ..... c 14 N71-23093 *
US-PATENT-APPL-SN-517157 ..... c 15 N71-22722 *
US-PATENT-APPL-SN-517158 ..... c 14 N71-23401 *
US-PATENT-APPL-SN-517159 ..... c 15 N71-20740 *
US-PATENT-APPL-SN-517858 ..... c 14 N71-21006 *
US-PATENT-APPL-SN-517869 ..... c 15 N71-23050 *
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US-PATENT-APPL-SN-518546 ..... c 26 N76-18257 * #
US-PATENT-APPL-SN-518684 ..... c 44 N76-22657 * #
US-PATENT-APPL-SN-518685 ..... c 35 N76-14429 * #
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US-PATENT-APPL-SN-520838 ..... c 08 N71-18595 *
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US-PATENT-APPL-SN-521006 ..... c 34 N77-10463 * #
US-PATENT-APPL-SN-521601 ..... c 60 N76-14818 * #
US-PATENT-APPL-SN-521602 ..... c 37 N76-18454 * #
US-PATENT-APPL-SN-521603 ..... c 35 N75-29380 * #
US-PATENT-APPL-SN-521620 ..... c 09 N77-10071 * #
US-PATENT-APPL-SN-521753 ..... c 15 N70-41960 * #
US-PATENT-APPL-SN-521754 ..... c 07 N71-22984 *
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US-PATENT-APPL-SN-521816 ..... c 35 N77-19385 * #
US-PATENT-APPL-SN-521817 ..... c 45 N76-21742 * #
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US-PATENT-APPL-SN-521996 ..... c 15 N69-27871 * #
US-PATENT-APPL-SN-521998 ..... c 07 N69-24323 * #
US-PATENT-APPL-SN-521999 ..... c 12 N71-20815 *
US-PATENT-APPL-SN-522109 ..... c 07 N78-17056 * #
US-PATENT-APPL-SN-522551 ..... c 76 N76-20994 * #
US-PATENT-APPL-SN-522552 ..... c 35 N76-16390 * #
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US-PATENT-APPL-SN-523991 ..... c 35 N86-20751 * #
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US-PATENT-APPL-SN-526438 ..... c 25 N76-22323 * #
US-PATENT-APPL-SN-526448 ..... c 44 N76-14602 * #
US-PATENT-APPL-SN-526449 ..... c 54 N76-14804 * #
US-PATENT-APPL-SN-526450 ..... c 35 N77-14409 * #
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US-PATENT-APPL-SN-526664 ..... c 07 N69-24334 * #
US-PATENT-APPL-SN-526665 ..... c 14 N69-24331 * #
US-PATENT-APPL-SN-526739 ..... c 37 N83-36484 * #
US-PATENT-APPL-SN-526741 ..... c 09 N84-12193 * #
US-PATENT-APPL-SN-526750 ..... c 71 N85-22105 * #
US-PATENT-APPL-SN-526768 ..... c 25 N85-35253 * #
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US-PATENT-APPL-SN-533556 ..... c 36 N76-29575 * #
US-PATENT-APPL-SN-533608 ..... c 32 N76-21366 * #
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US-PATENT-APPL-SN-534265 ..... c 32 N76-21365 * #
US-PATENT-APPL-SN-534266 ..... c 35 N76-24523 * #
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US-PATENT-APPL-SN-536216 ..... c 10 N71-23315 *
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US-PATENT-APPL-SN-536786 ..... c 44 N77-32581 * #
US-PATENT-APPL-SN-537024 ..... c 44 N76-27664 * #
US-PATENT-APPL-SN-537480 ..... c 45 N76-31714 * #
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US-PATENT-APPL-SN-538063 ..... c 37 N86-19603 * #
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US-PATENT-APPL-SN-541399 ..... c 14 N71-20428 *
US-PATENT-APPL-SN-541526 ..... c 33 N85-20250 * #
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US-PATENT-APPL-SN-542192 ..... c 26 N75-27126 * #
US-PATENT-APPL-SN-542232 ..... c 33 N86-19516 * #
US-PATENT-APPL-SN-542557 ..... c 44 N85-30474 * #
US-PATENT-APPL-SN-54270 ..... c 07 N72-25173 * #
US-PATENT-APPL-SN-542713 ..... c 23 N71-23976 *
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US-PATENT-APPL-SN-545229 ..... c 03 N69-21469 * #
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US-PATENT-APPL-SN-545283 ..... c 32 N77-12239 * #
US-PATENT-APPL-SN-545284 ..... c 34 N76-27517 * #
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US-PATENT-APPL-SN-54552 ..... c 27 N70-34783 * #
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US-PATENT-APPL-SN-551815 ..... c 02 N71-11038 * #
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US-PATENT-APPL-SN-571459 ..... c 54 N78-14784 * #
US-PATENT-APPL-SN-571613 ..... c 74 N86-20124 * #
US-PATENT-APPL-SN-571614 ..... c 35 N86-20750 * #
US-PATENT-APPL-SN-571615 ..... c 74 N84-16986 * #
US-PATENT-APPL-SN-571616 ..... c 25 N86-19413 * #
US-PATENT-APPL-SN-571617 ..... c 26 N85-35267 * #
US-PATENT-APPL-SN-571821 ..... c 20 N76-22296 * #
US-PATENT-APPL-SN-57252 ..... c 14 N72-25414 * #
US-PATENT-APPL-SN-57253 ..... c 18 N72-25541 * #
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US-PATENT-APPL-SN-573029 ..... c 07 N79-14097 * #
US-PATENT-APPL-SN-573162 ..... c 37 N84-20859 * #
US-PATENT-APPL-SN-573432 ..... c 14 N71-23790 *
US-PATENT-APPL-SN-57399 ..... c 03 N72-20034 * #
US-PATENT-APPL-SN-574208 ..... c 37 N76-29590 * #
US-PATENT-APPL-SN-574218 ..... c 52 N76-29895 * #
US-PATENT-APPL-SN-574219 ..... c 35 N76-31490 * #
US-PATENT-APPL-SN-574280 ..... c 15 N69-21460 * #
US-PATENT-APPL-SN-574282 ..... c 15 N69-23190 * #
US-PATENT-APPL-SN-574282 ..... c 15 N71-23025 *
US-PATENT-APPL-SN-574283 ..... c 14 N69-24257 * #
US-PATENT-APPL-SN-574284 ..... c 08 N71-19763 *
US-PATENT-APPL-SN-574290 ..... c 14 N71-20439 *
US-PATENT-APPL-SN-575291 ..... c 33 N71-29151 *
US-PATENT-APPL-SN-575475 ..... c 05 N69-23192 * #
US-PATENT-APPL-SN-575930 ..... c 06 N71-23230 *
US-PATENT-APPL-SN-576182 ..... c 33 N71-24276 *
US-PATENT-APPL-SN-576183 ..... c 09 N71-23525 *
US-PATENT-APPL-SN-576195 ..... c 14 N71-21079 *
US-PATENT-APPL-SN-576308 ..... c 07 N85-35194 * #
US-PATENT-APPL-SN-576488 ..... c 44 N76-28635 * #
US-PATENT-APPL-SN-576521 ..... c 09 N71-20864 *
US-PATENT-APPL-SN-576774 ..... c 60 N77-19760 * #
US-PATENT-APPL-SN-576792 ..... c 14 N71-26136 *
US-PATENT-APPL-SN-576797 ..... c 09 N69-24318 * #
US-PATENT-APPL-SN-577114 ..... c 15 N69-24320 * #
US-PATENT-APPL-SN-577115 ..... c 15 N71-17647 *
US-PATENT-APPL-SN-577545 ..... c 08 N71-18693 *
US-PATENT-APPL-SN-577546 ..... c 31 N71-23008 *
US-PATENT-APPL-SN-577548 ..... c 09 N69-27422 * #
US-PATENT-APPL-SN-577548 ..... c 14 N72-28438 * #
US-PATENT-APPL-SN-577549 ..... c 15 N71-22721 *
US-PATENT-APPL-SN-577775 ..... c 14 N71-17574 *
US-PATENT-APPL-SN-577778 ..... c 03 N71-11050 * #
US-PATENT-APPL-SN-578240 ..... c 34 N77-18382 * #
US-PATENT-APPL-SN-578241 ..... c 52 N76-29896 * #
US-PATENT-APPL-SN-578387 ..... c 06 N84-20522 * #
US-PATENT-APPL-SN-578388 ..... c 06 N84-32383 * #
US-PATENT-APPL-SN-578390 ..... c 44 N85-30475 * #
US-PATENT-APPL-SN-578397 ..... c 20 N79-21124 * #
US-PATENT-APPL-SN-578700 ..... c 43 N82-13465 * #
US-PATENT-APPL-SN-578916 ..... c 14 N71-23036 *
US-PATENT-APPL-SN-578923 ..... c 15 N71-21403 *
US-PATENT-APPL-SN-578925 ..... c 23 N71-16355 *
US-PATENT-APPL-SN-578926 ..... c 06 N69-39936 * #
US-PATENT-APPL-SN-578928 ..... c 26 N71-21824 *
US-PATENT-APPL-SN-578931 ..... c 23 N71-21882 *
US-PATENT-APPL-SN-578932 ..... c 08 N71-12505 * #
US-PATENT-APPL-SN-579121 ..... c 15 N71-29136 *
US-PATENT-APPL-SN-579300 ..... c 20 N79-21123 * #
US-PATENT-APPL-SN-579375 ..... c 07 N77-14025 * #
US-PATENT-APPL-SN-579376 ..... c 20 N79-21125 * #
US-PATENT-APPL-SN-579989 ..... c 34 N77-32413 * #
US-PATENT-APPL-SN-580365 ..... c 15 N71-23255 *
US-PATENT-APPL-SN-580397 ..... c 37 N84-20860 * #
US-PATENT-APPL-SN-580419 ..... c 34 N85-33433 * #
US-PATENT-APPL-SN-580573 ..... c 44 N85-34441 * #
US-PATENT-APPL-SN-580574 ..... c 18 N84-22610 * #
US-PATENT-APPL-SN-58147 ..... c 28 N70-33356 *
US-PATENT-APPL-SN-581514 ..... c 70 N75-26789 * #
US-PATENT-APPL-SN-581750 ..... c 07 N78-17055 * #
US-PATENT-APPL-SN-581751 ..... c 37 N78-10468 * #
US-PATENT-APPL-SN-581843 ..... c 31 N79-21226 * #
US-PATENT-APPL-SN-582171 ..... c 32 N71-16428 *
US-PATENT-APPL-SN-582213 ..... c 32 N74-22096 * #
US-PATENT-APPL-SN-582318 ..... c 33 N76-27472 * #
US-PATENT-APPL-SN-582492 ..... c 52 N85-30618 * #
US-PATENT-APPL-SN-582493 ..... c 24 N84-20649 * #
US-PATENT-APPL-SN-582494 ..... c 36 N84-25037 * #
US-PATENT-APPL-SN-582495 ..... c 44 N84-25164 * #
US-PATENT-APPL-SN-582609 ..... c 10 N71-19467 *
US-PATENT-APPL-SN-582643 ..... c 35 N85-34374 * #
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US-PATENT-APPL-SN-583056 ..... c 37 N78-17384 * #
US-PATENT-APPL-SN-583219 ..... c 43 N82-13465 * #
US-PATENT-APPL-SN-583485 ..... c 33 N77-28385 * #
US-PATENT-APPL-SN-583486 ..... c 33 N77-26386 * #
US-PATENT-APPL-SN-583487 ..... c 52 N76-19785 * #
US-PATENT-APPL-SN-584015 ..... c 14 N71-26475 *
US-PATENT-APPL-SN-584066 ..... c 10 N71-20852 *
US-PATENT-APPL-SN-584067 ..... c 07 N71-12392 * #
US-PATENT-APPL-SN-584070 ..... c 09 N69-27500 * #
US-PATENT-APPL-SN-584071 ..... c 26 N71-16037 *
US-PATENT-APPL-SN-584072 ..... c 15 N69-39786 * #
US-PATENT-APPL-SN-584094 ..... c 26 N77-20201 * #
US-PATENT-APPL-SN-584914 ..... c 54 N78-17679 * #
US-PATENT-APPL-SN-585217 ..... c 54 N78-17677 * #
US-PATENT-APPL-SN-585420 ..... c 35 N76-31489 * #
US-PATENT-APPL-SN-585988 ..... c 33 N75-29318 * #
US-PATENT-APPL-SN-586324 ..... c 05 N71-26293 *
US-PATENT-APPL-SN-586325 ..... c 31 N71-24315 *
US-PATENT-APPL-SN-586329 ..... c 05 N71-24623 *
US-PATENT-APPL-SN-586330 ..... c 05 N71-12344 * #
US-PATENT-APPL-SN-587749 ..... c 60 N84-25306 * #
US-PATENT-APPL-SN-588036 ..... c 18 N84-22612 * #
US-PATENT-APPL-SN-588039 ..... c 18 N84-32424 * #
US-PATENT-APPL-SN-588164 ..... c 31 N85-29082 * #
US-PATENT-APPL-SN-588635 ..... c 21 N71-15642 *
US-PATENT-APPL-SN-588651 ..... c 31 N71-24813 *
US-PATENT-APPL-SN-588671 ..... c 03 N71-23354 *
US-PATENT-APPL-SN-588721 ..... c 27 N78-33228 * #
US-PATENT-APPL-SN-589119 ..... c 32 N77-32342 * #
US-PATENT-APPL-SN-589172 ..... c 27 N79-14214 * #
US-PATENT-APPL-SN-589173 ..... c 32 N77-12240 * #
US-PATENT-APPL-SN-589233 ..... c 33 N77-14335 * #
US-PATENT-APPL-SN-590141 ..... c 03 N69-24267 * #
US-PATENT-APPL-SN-590144 ..... c 15 N71-15606 * #
US-PATENT-APPL-SN-590145 ..... c 07 N69-39980 * #
US-PATENT-APPL-SN-590146 ..... c 09 N69-21926 * #
US-PATENT-APPL-SN-590147 ..... c 15 N71-21489 *
US-PATENT-APPL-SN-590158 ..... c 05 N71-24147 *
US-PATENT-APPL-SN-590159 ..... c 09 N69-24324 * #
US-PATENT-APPL-SN-590182 ..... c 37 N76-29588 * #
US-PATENT-APPL-SN-590183 ..... c 74 N79-13855 * #
US-PATENT-APPL-SN-590921 ..... c 71 N86-21276 * #
US-PATENT-APPL-SN-590923 ..... c 35 N85-34375 * #
US-PATENT-APPL-SN-590925 ..... c 26 N84-20670 * #
US-PATENT-APPL-SN-590975 ..... c 44 N78-31525 * #
US-PATENT-APPL-SN-591000 ..... c 15 N71-24044 *
US-PATENT-APPL-SN-591004 ..... c 07 N71-11266 * #
US-PATENT-APPL-SN-591007 ..... c 16 N69-27491 * #
US-PATENT-APPL-SN-591014 ..... c 28 N71-24736 *
US-PATENT-APPL-SN-591089 ..... c 24 N85-21267 * #
US-PATENT-APPL-SN-591568 ..... c 74 N76-31998 * #
US-PATENT-APPL-SN-591569 ..... c 37 N77-12402 * #
US-PATENT-APPL-SN-591930 ..... c 03 N69-21330 * #
US-PATENT-APPL-SN-592159 ..... c 07 N76-27232 * #
US-PATENT-APPL-SN-592680 ..... c 15 N71-22877 *
US-PATENT-APPL-SN-592694 ..... c 05 N71-12342 * #
US-PATENT-APPL-SN-593142 ..... c 37 N77-17464 * #
US-PATENT-APPL-SN-593593 ..... c 06 N71-11239 * #
US-PATENT-APPL-SN-593594 ..... c 06 N71-11236 * #
US-PATENT-APPL-SN-593595 ..... c 06 N71-24740 *
US-PATENT-APPL-SN-593604 ..... c 11 N69-27466 * #
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US-PATENT-APPL-SN-593606 ..... c 06 N71-11243 * #
US-PATENT-APPL-SN-593607 ..... c 07 N71-26102 *
US-PATENT-APPL-SN-594134 ..... c 74 N86-20125 * #
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US-PATENT-APPL-SN-594587 ..... c 28 N71-21493 *
US-PATENT-APPL-SN-594633 ..... c 15 N71-24046 *
US-PATENT-APPL-SN-595197 ..... c 33 N77-10429 * #
US-PATENT-APPL-SN-595254 ..... c 17 N78-17140 * #
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US-PATENT-APPL-SN-595747 ..... c 37 N77-32500 * #
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US-PATENT-APPL-SN-596641 ..... c 07 N77-23106 * #
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US-PATENT-APPL-SN-596733 ..... c 15 N72-11389 *
US-PATENT-APPL-SN-596735 ..... c 32 N71-24285 *
US-PATENT-APPL-SN-596787 ..... c 37 N77-19458 * #
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US-PATENT-APPL-SN-596788 ..... c 33 N76-21390 * #
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US-PATENT-APPL-SN-597430 ..... c 44 N81-29525 * #
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US-PATENT-APPL-SN-598120 ..... c 08 N71-18602 *
US-PATENT-APPL-SN-598504 ..... c 37 N77-14477 * #
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US-PATENT-APPL-SN-59892 ..... c 15 N74-27360 * #
US-PATENT-APPL-SN-59893 ..... c 15 N72-25456 * #
US-PATENT-APPL-SN-59894 ..... c 23 N73-13662 * #
US-PATENT-APPL-SN-59895 ..... c 15 N72-20445 * #
US-PATENT-APPL-SN-598967 ..... c 31 N77-10229 * #
US-PATENT-APPL-SN-598968 ..... c 33 N77-17354 * #
US-PATENT-APPL-SN-598969 ..... c 44 N78-17460 * #
US-PATENT-APPL-SN-599284 ..... c 35 N77-14411 * #
US-PATENT-APPL-SN-59956 ..... c 14 N72-27411 * #
US-PATENT-APPL-SN-59966 ..... c 21 N72-25595 * #
US-PATENT-APPL-SN-59968 ..... c 15 N72-27484 * #
US-PATENT-APPL-SN-59969 ..... c 09 N72-25249 * #
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US-PATENT-APPL-SN-600682 ..... c 14 N71-20461 *
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US-PATENT-APPL-SN-602050 ..... c 37 N85-34402 * #
US-PATENT-APPL-SN-602617 ..... c 37 N77-23483 * #
US-PATENT-APPL-SN-602618 ..... c 44 N76-31667 * #
US-PATENT-APPL-SN-60276 ..... c 22 N73-32528 * #
US-PATENT-APPL-SN-602828 ..... c 09 N71-13531 * #
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US-PATENT-APPL-SN-603374 ..... c 37 N86-19606 * #
US-PATENT-APPL-SN-603396 ..... c 14 N69-23191 * #
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US-PATENT-APPL-SN-604337 ..... c 27 N85-29044 * #
US-PATENT-APPL-SN-604374 ..... c 44 N76-29699 * #
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US-PATENT-APPL-SN-605091 ..... c 15 N71-26346 *
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US-PATENT-APPL-SN-605093 ..... c 17 N71-24911 *
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US-PATENT-APPL-SN-605099 ..... c 09 N71-23548 *
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US-PATENT-APPL-SN-606431 ..... c 37 N84-25063 * #
US-PATENT-APPL-SN-606432 ..... c 74 N84-25450 * #
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US-PATENT-APPL-SN-606463 ..... c 14 N71-24864 *
US-PATENT-APPL-SN-606464 ..... c 15 N71-18579 *
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US-PATENT-APPL-SN-607484 ..... c 09 N71-26002 *
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US-PATENT-APPL-SN-608247 ..... c 15 N71-20813 *
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US-PATENT-APPL-SN-60883 ..... c 10 N73-13235 * #
US-PATENT-APPL-SN-608944 ..... c 15 N71-23798 * #
US-PATENT-APPL-SN-60950 ..... c 04 N73-27052 * #
US-PATENT-APPL-SN-610723 ..... c 14 N71-23755 *
US-PATENT-APPL-SN-610724 ..... c 31 N71-28851 *
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US-PATENT-APPL-SN-610802 ..... c 35 N77-20400 * #
US-PATENT-APPL-SN-611414 ..... c 46 N74-23068 * #
US-PATENT-APPL-SN-611414 ..... c 46 N74-23069 * #
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US-PATENT-APPL-SN-612568 ..... c 15 N71-28952 *
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US-PATENT-APPL-SN-612899 ..... c 07 N77-18154 * #
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US-PATENT-APPL-SN-612965 ..... c 52 N77-14735 * #
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US-PATENT-APPL-SN-612967 ..... c 74 N77-18893 * #
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US-PATENT-APPL-SN-619903 ..... c 15 N69-27505 * #
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US-PATENT-APPL-SN-631341 ..... c 60 N78-17691 * #
US-PATENT-APPL-SN-63144 ..... c 16 N72-28521 * #
US-PATENT-APPL-SN-631848 ..... c 09 N71-12514 * #
US-PATENT-APPL-SN-63195 ..... c 14 N72-27408 * #
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US-PATENT-APPL-SN-632111 ..... c 37 N79-10422 * #
US-PATENT-APPL-SN-632112 ..... c 35 N77-22449 * #
US-PATENT-APPL-SN-632152 ..... c 10 N71-24798 *
US-PATENT-APPL-SN-632154 ..... c 09 N69-39984 * #
US-PATENT-APPL-SN-632162 ..... c 14 N69-39937 * #
US-PATENT-APPL-SN-632163 ..... c 30 N71-23723 *
US-PATENT-APPL-SN-632164 ..... c 15 N69-24319 * #
US-PATENT-APPL-SN-632165 ..... c 14 N71-26266 *
US-PATENT-APPL-SN-633178 ..... c 25 N84-32447 * #
US-PATENT-APPL-SN-633179 ..... c 34 N86-12547 * #
US-PATENT-APPL-SN-633180 ..... c 09 N84-32398 * #
US-PATENT-APPL-SN-633363 ..... c 44 N84-32912 * #
US-PATENT-APPL-SN-63383 ..... c 08 N72-20177 * #
US-PATENT-APPL-SN-63384 ..... c 05 N72-22093 * #
US-PATENT-APPL-SN-633876 ..... c 27 N78-19302 * #
US-PATENT-APPL-SN-633877 ..... c 27 N77-13217 * #
US-PATENT-APPL-SN-634038 ..... c 25 N71-16073 *
US-PATENT-APPL-SN-634040 ..... c 15 N71-19489 *
US-PATENT-APPL-SN-634060 ..... c 09 N69-39897 * #
US-PATENT-APPL-SN-634205 ..... c 35 N77-14406 * #
US-PATENT-APPL-SN-634214 ..... c 73 N78-28913 * #
US-PATENT-APPL-SN-634304 ..... c 27 N79-18052 * #
US-PATENT-APPL-SN-635325 ..... c 14 N69-27431 * #
US-PATENT-APPL-SN-635326 ..... c 14 N71-18482 *
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US-PATENT-APPL-SN-635328 ..... c 09 N69-21467 * #
US-PATENT-APPL-SN-63532 ..... c 08 N72-25209 * #
US-PATENT-APPL-SN-635519 ..... c 35 N77-24455 * #
US-PATENT-APPL-SN-635531 ..... c 33 N77-14334 * #
US-PATENT-APPL-SN-635970 ..... c 15 N69-21465 * #
US-PATENT-APPL-SN-635972 ..... c 18 N71-23710 *
US-PATENT-APPL-SN-63610 ..... c 06 N72-25147 * #
US-PATENT-APPL-SN-636193 ..... c 74 N78-15880 * #
US-PATENT-APPL-SN-636459 ..... c 44 N84-32913 * #
US-PATENT-APPL-SN-636463 ..... c 20 N84-32425 * #
US-PATENT-APPL-SN-636465 ..... c 37 N85-29284 * #
US-PATENT-APPL-SN-636796 ..... c 35 N78-17358 * #
US-PATENT-APPL-SN-636878 ..... c 14 N71-20442 *
US-PATENT-APPL-SN-637247 ..... c 35 N77-10493 * #
US-PATENT-APPL-SN-637249 ..... c 38 N76-28563 * #
US-PATENT-APPL-SN-637268 ..... c 47 N77-10753 * #
US-PATENT-APPL-SN-637269 ..... c 52 N77-28717 * #
US-PATENT-APPL-SN-637882 ..... c 15 N71-17650 *
US-PATENT-APPL-SN-638192 ..... c 10 N71-26415 *
US-PATENT-APPL-SN-638194 ..... c 33 N71-21507 *
US-PATENT-APPL-SN-638541 ..... c 33 N86-20671 * #
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US-PATENT-APPL-SN-638585 ..... c 74 N84-33179 * #
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US-PATENT-APPL-SN-639589 ..... c 28 N70-33372 *
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US-PATENT-APPL-SN-640449 ..... c 09 N71-19516 *
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US-PATENT-APPL-SN-640452 ..... c 09 N71-12513 * #
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US-PATENT-APPL-SN-640460 ..... c 14 N69-21541 * #
US-PATENT-APPL-SN-640462 ..... c 15 N71-20443 *
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US-PATENT-APPL-SN-640781 ..... c 03 N69-25146 * #
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US-PATENT-APPL-SN-641146 ..... c 76 N84-33211 * #
US-PATENT-APPL-SN-641147 ..... c 27 N85-21364 * #
US-PATENT-APPL-SN-641152 ..... c 23 N86-20499 * #
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US-PATENT-APPL-SN-641420 ..... c 03 N71-23449 *
US-PATENT-APPL-SN-641431 ..... c 30 N71-16090 *
US-PATENT-APPL-SN-641441 ..... c 08 N71-18751 * #
US-PATENT-APPL-SN-641784 ..... c 37 N77-32499 * #
US-PATENT-APPL-SN-641802 ..... c 34 N77-30399 * #
US-PATENT-APPL-SN-641803 ..... c 35 N78-18391 * #
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US-PATENT-APPL-SN-64226 ..... c 17 N70-38198 * #
US-PATENT-APPL-SN-642310 ..... c 44 N86-19721 * #
US-PATENT-APPL-SN-642602 ..... c 54 N84-33021 * #
US-PATENT-APPL-SN-643041 ..... c 44 N78-19599 * #
US-PATENT-APPL-SN-643043 ..... c 35 N78-13400 * #
US-PATENT-APPL-SN-643332 ..... c 15 N71-14932 * #
US-PATENT-APPL-SN-643522 ..... c 15 N85-11122 * #
US-PATENT-APPL-SN-643524 ..... c 27 N85-20128 * #
US-PATENT-APPL-SN-643589 ..... c 27 N85-21360 * #
US-PATENT-APPL-SN-643897 ..... c 73 N78-32848 * #
US-PATENT-APPL-SN-64391 ..... c 31 N72-25842 * #
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US-PATENT-APPL-SN-644446 ..... c 14 N71-24693 *
US-PATENT-APPL-SN-644447 ..... c 14 N71-24234 *
US-PATENT-APPL-SN-644448 ..... c 17 N69-25147 * #
US-PATENT-APPL-SN-644799 ..... c 17 N71-15468 *
US-PATENT-APPL-SN-645500 ..... c 74 N77-28932 * #
US-PATENT-APPL-SN-645502 ..... c 24 N79-25143 * #
US-PATENT-APPL-SN-645507 ..... c 26 N77-32280 * #
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US-PATENT-APPL-SN-645510 ..... c 32 N77-30308 * #
US-PATENT-APPL-SN-645563 ..... c 31 N71-20396 *
US-PATENT-APPL-SN-645571 ..... c 35 N77-14407 * #
US-PATENT-APPL-SN-645573 ..... c 24 N71-25555 *
US-PATENT-APPL-SN-645584 ..... c 08 N71-12494 * #
US-PATENT-APPL-SN-646044 ..... c 37 N85-34403 * #
US-PATENT-APPL-SN-646124 ..... c 15 N71-23817 *
US-PATENT-APPL-SN-646333 ..... c 35 N80-26635 * #
US-PATENT-APPL-SN-646424 ..... c 07 N69-27460 * #
US-PATENT-APPL-SN-646704 ..... c 36 N77-25499 * #
US-PATENT-APPL-SN-646934 ..... c 08 N71-18692 *
US-PATENT-APPL-SN-64709 ..... c 10 N72-28240 * #
US-PATENT-APPL-SN-64723 ..... c 07 N72-25170 * #
US-PATENT-APPL-SN-647298 ..... c 31 N71-16102 *
US-PATENT-APPL-SN-648034 ..... c 09 N79-21083 * #
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US-PATENT-APPL-SN-649076 ..... c 08 N71-24890 *
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US-PATENT-APPL-SN-649360 ..... c 23 N71-16365 *
US-PATENT-APPL-SN-650166 ..... c 09 N71-23191 *
US-PATENT-APPL-SN-651002 ..... c 08 N79-14108 * #
US-PATENT-APPL-SN-651007 ..... c 74 N78-17865 * #
US-PATENT-APPL-SN-651009 ..... c 26 N78-18182 * #
US-PATENT-APPL-SN-651627 ..... c 26 N72-25679 * #
US-PATENT-APPL-SN-651972 ..... c 27 N74-23125 * #
US-PATENT-APPL-SN-652948 ..... c 52 N77-14736 * #
US-PATENT-APPL-SN-652979 ..... c 45 N82-11634 * #
US-PATENT-APPL-SN-653277 ..... c 31 N71-23912 *
US-PATENT-APPL-SN-653278 ..... c 14 N69-27503 * #
US-PATENT-APPL-SN-653316 ..... c 25 N77-32255 * #
US-PATENT-APPL-SN-653422 ..... c 35 N77-20401 * #
US-PATENT-APPL-SN-653682 ..... c 39 N78-10493 * #
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US-PATENT-APPL-SN-655149 ..... c 07 N77-23106 * #
US-PATENT-APPL-SN-65548 ..... c 18 N70-39897 * #
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US-PATENT-APPL-SN-655605 ..... c 52 N85-20639 * #
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US-PATENT-APPL-SN-657310 ..... c 35 N85-20299 * #
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US-PATENT-APPL-SN-657903 ..... c 07 N83-33884 * #
US-PATENT-APPL-SN-657907 ..... c 27 N78-17213 * #
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US-PATENT-APPL-SN-657997 ..... c 60 N77-32731 * #
US-PATENT-APPL-SN-657998 ..... c 27 N78-32262 * #
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US-PATENT-APPL-SN-658133 ..... c 71 N78-10837 * #
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US-PATENT-APPL-SN-658956 ..... c 15 N71-15607 * #
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US-PATENT-APPL-SN-658964 ..... c 19 N71-26674 *
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US-PATENT-APPL-SN-659475 ..... c 31 N85-20156 * #
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US-PATENT-APPL-SN-660572 ..... c 15 N71-15571 *
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US-PATENT-APPL-SN-665680 ..... c 24 N71-16213 *
US-PATENT-APPL-SN-665681 ..... c 15 N71-18616 *
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US-PATENT-APPL-SN-677508 ..... c 16 N71-15551 *
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US-PATENT-APPL-SN-679862 ..... c 20 N71-16340 *
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US-PATENT-APPL-SN-679987 ..... c 44 N82-24644 * #
US-PATENT-APPL-SN-679996 ..... c 44 N82-24643 * #
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US-PATENT-APPL-SN-680048 ..... c 44 N82-24641 * #
US-PATENT-APPL-SN-680067 ..... c 07 N77-27116 * #
US-PATENT-APPL-SN-68023 ..... c 05 N72-33096 * #
US-PATENT-APPL-SN-68024 ..... c 17 N72-22535 * #
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US-PATENT-APPL-SN-680939 ..... c 44 N78-10554 * #
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US-PATENT-APPL-SN-680958 ..... c 74 N78-18905 * #
US-PATENT-APPL-SN-681000 ..... c 34 N78-25350 * #
US-PATENT-APPL-SN-681001 ..... c 74 N76-22993 * #
US-PATENT-APPL-SN-681017 ..... c 44 N77-32583 * #
US-PATENT-APPL-SN-681096 ..... c 44 N77-32582 * #
US-PATENT-APPL-SN-681687 ..... c 03 N71-20273 *
US-PATENT-APPL-SN-681692 ..... c 08 N71-12506 * #
US-PATENT-APPL-SN-681693 ..... c 09 N71-18598 *
US-PATENT-APPL-SN-681942 ..... c 18 N71-15688 *
US-PATENT-APPL-SN-682416 ..... c 34 N77-24423 * #
US-PATENT-APPL-SN-682435 ..... c 27 N77-32308 * #
US-PATENT-APPL-SN-683073 ..... c 44 N81-29525 * #
US-PATENT-APPL-SN-683073 ..... c 44 N82-28780 * #
US-PATENT-APPL-SN-683101 ..... c 33 N85-20247 * #
US-PATENT-APPL-SN-683110 ..... c 37 N86-20805 * #
US-PATENT-APPL-SN-683111 ..... c 33 N85-20251 * #
US-PATENT-APPL-SN-683465 ..... c 27 N82-29451 * #
US-PATENT-APPL-SN-683507 ..... c 15 N71-15609 * #
US-PATENT-APPL-SN-683606 ..... c 09 N71-24717 *
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US-PATENT-APPL-SN-684178 ..... c 15 N71-23812 *
US-PATENT-APPL-SN-684186 ..... c 35 N85-20297 * #
US-PATENT-APPL-SN-684190 ..... c 54 N85-20666 * #
US-PATENT-APPL-SN-684192 ..... c 54 N85-21986 * #
US-PATENT-APPL-SN-684193 ..... c 54 N85-21987 * #
US-PATENT-APPL-SN-684194 ..... c 35 N85-20300 * #
US-PATENT-APPL-SN-684209 ..... c 10 N71-19418 *
US-PATENT-APPL-SN-684807 ..... c 75 N78-27913 * #
US-PATENT-APPL-SN-684894 ..... c 17 N71-26773 *
US-PATENT-APPL-SN-685027 ..... c 25 N78-10225 * #
US-PATENT-APPL-SN-685463 ..... c 15 N71-23254 *
US-PATENT-APPL-SN-685473 ..... c 17 N71-16044 *
US-PATENT-APPL-SN-685497 ..... c 07 N69-39974 * #
US-PATENT-APPL-SN-685607 ..... c 37 N86-21850 * #
US-PATENT-APPL-SN-685748 ..... c 07 N71-11282 * #
US-PATENT-APPL-SN-685750 ..... c 27 N71-16392 *
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US-PATENT-APPL-SN-686248 ..... c 14 N71-26774 *
US-PATENT-APPL-SN-686296 ..... c 18 N71-14014 * #
US-PATENT-APPL-SN-686331 ..... c 38 N78-32447 * #
US-PATENT-APPL-SN-686344 ..... c 15 N71-17688 *
US-PATENT-APPL-SN-686449 ..... c 34 N78-18355 * #
US-PATENT-APPL-SN-686796 ..... c 15 N70-33311 *
US-PATENT-APPL-SN-686933 ..... c 14 N71-17588 *
US-PATENT-APPL-SN-686959 ..... c 02 N85-28922 * #
US-PATENT-APPL-SN-687251 ..... c 52 N79-12694 * #
US-PATENT-APPL-SN-687822 ..... c 44 N78-14625 * #
US-PATENT-APPL-SN-688742 ..... c 15 N71-20441 *
US-PATENT-APPL-SN-688743 ..... c 15 N71-20393 *
US-PATENT-APPL-SN-688805 ..... c 14 N71-17701 *
US-PATENT-APPL-SN-688807 ..... c 03 N71-23239 *
US-PATENT-APPL-SN-688852 ..... c 44 N78-28594 * #
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US-PATENT-APPL-SN-688856 ..... c 54 N78-32720 * #
US-PATENT-APPL-SN-688868 ..... c 15 N71-17686 *
US-PATENT-APPL-SN-689455 ..... c 54 N74-32546 * #
US-PATENT-APPL-SN-690163 ..... c 14 N71-18465 *
US-PATENT-APPL-SN-690172 ..... c 11 N72-22245 * #
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US-PATENT-APPL-SN-690274 ..... c 05 N85-19981 * #
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US-PATENT-APPL-SN-690815 ..... c 32 N77-24328 * #
US-PATENT-APPL-SN-690816 ..... c 37 N78-25426 * #
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US-PATENT-APPL-SN-690998 ..... c 30 N71-15990 *
US-PATENT-APPL-SN-691046 ..... c 36 N77-25501 * #
US-PATENT-APPL-SN-691256 ..... c 35 N77-31465 * #
US-PATENT-APPL-SN-691647 ..... c 52 N82-11770 * #
US-PATENT-APPL-SN-691735 ..... c 09 N71-12520 * #
US-PATENT-APPL-SN-691736 ..... c 18 N71-16210 *
US-PATENT-APPL-SN-691737 ..... c 07 N71-24742 *
US-PATENT-APPL-SN-691738 ..... c 08 N71-18694 *
US-PATENT-APPL-SN-691739 ..... c 32 N71-15974 *
US-PATENT-APPL-SN-691909 ..... c 05 N71-24606 *
US-PATENT-APPL-SN-691936 ..... c 26 N77-32279 * #
US-PATENT-APPL-SN-69209 ..... c 15 N72-21463 * #
US-PATENT-APPL-SN-692284 ..... c 27 N78-14164 * #
US-PATENT-APPL-SN-692331 ..... c 10 N71-26326 *
US-PATENT-APPL-SN-692332 ..... c 07 N71-11281 * #
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US-PATENT-APPL-SN-692414 ..... c 32 N77-24331 * #
US-PATENT-APPL-SN-692471 ..... c 09 N71-12518 * #
US-PATENT-APPL-SN-692636 ..... c 27 N81-24258 * #
US-PATENT-APPL-SN-692740 ..... c 33 N86-20673 * #
US-PATENT-APPL-SN-692745 ..... c 36 N85-20320 * #
US-PATENT-APPL-SN-692801 ..... c 37 N85-20378 * #
US-PATENT-APPL-SN-692802 ..... c 37 N85-29291 * #
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US-PATENT-APPL-SN-693420 ..... c 31 N71-16080 *
US-PATENT-APPL-SN-694246 ..... c 15 N71-26673 *
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US-PATENT-APPL-SN-694340 ..... c 11 N71-17600 *
US-PATENT-APPL-SN-694345 ..... c 10 N71-23669 *
US-PATENT-APPL-SN-694406 ..... c 35 N79-10389 * #
US-PATENT-APPL-SN-694407 ..... c 27 N80-23452 * #
US-PATENT-APPL-SN-694855 ..... c 33 N77-30365 * #
US-PATENT-APPL-SN-69488 ..... c 23 N75-14834 * #
US-PATENT-APPL-SN-695513 ..... c 07 N78-25089 * #
US-PATENT-APPL-SN-695973 ..... c 05 N71-12343 * #
US-PATENT-APPL-SN-696374 ..... c 44 N80-29835 * #
US-PATENT-APPL-SN-696679 ..... c 38 N79-14398 * #
US-PATENT-APPL-SN-696989 ..... c 27 N77-30237 * #
US-PATENT-APPL-SN-697075 ..... c 15 N71-27184 *
US-PATENT-APPL-SN-697341 ..... c 09 N71-23188 *
US-PATENT-APPL-SN-698239 ..... c 33 N78-17294 * #
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US-PATENT-APPL-SN-698629 ..... c 09 N71-12516 * #
US-PATENT-APPL-SN-698630 ..... c 09 N71-24841 *
US-PATENT-APPL-SN-698641 ..... c 74 N85-20868 * #
US-PATENT-APPL-SN-698646 ..... c 24 N78-15180 * #
US-PATENT-APPL-SN-699002 ..... c 32 N78-15323 * #
US-PATENT-APPL-SN-699012 ..... c 33 N78-27326 * #
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US-PATENT-APPL-SN-700120 ..... c 15 N71-20440 *
US-PATENT-APPL-SN-700142 ..... c 21 N71-14159 * #
US-PATENT-APPL-SN-700174 ..... c 02 N71-20570 *
US-PATENT-APPL-SN-700255 ..... c 33 N85-20248 * #
US-PATENT-APPL-SN-70032 ..... c 11 N73-12264 * #
US-PATENT-APPL-SN-700467 ..... c 52 N79-14749 * #
US-PATENT-APPL-SN-700541 ..... c 10 N71-25139 *
US-PATENT-APPL-SN-700586 ..... c 15 N71-19570 *
US-PATENT-APPL-SN-700673 ..... c 39 N77-28511 * #
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US-PATENT-APPL-SN-700985 ..... c 15 N69-23190 * #
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US-PATENT-APPL-SN-700987 ..... c 09 N71-19610 *
US-PATENT-APPL-SN-701244 ..... c 05 N72-20096 * #
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US-PATENT-APPL-SN-701654 ..... c 03 N71-11049 * #
US-PATENT-APPL-SN-701679 ..... c 02 N71-19287 *
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US-PATENT-APPL-SN-701733 ..... c 10 N71-24844 *
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US-PATENT-APPL-SN-701767 ..... c 07 N71-26101 *
US-PATENT-APPL-SN-702115 ..... c 71 N79-14871 * #
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US-PATENT-APPL-SN-702967 ..... c 06 N71-24739 *
US-PATENT-APPL-SN-703107 ..... c 37 N77-22479 * #
US-PATENT-APPL-SN-703847 ..... c 72 N85-30779 * #
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US-PATENT-APPL-SN-704180 ..... c 36 N78-27402 * #
US-PATENT-APPL-SN-704224 ..... c 18 N71-15469 *
US-PATENT-APPL-SN-704299 ..... c 10 N71-26577 *
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US-PATENT-APPL-SN-706013 ..... c 33 N71-27862 *
US-PATENT-APPL-SN-706073 ..... c 76 N79-11920 * #
US-PATENT-APPL-SN-706424 ..... c 27 N78-32256 * #
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US-PATENT-APPL-SN-706425 ..... c 33 N78-10376 * #
US-PATENT-APPL-SN-706564 ..... c 14 N71-17587 *
US-PATENT-APPL-SN-706564 ..... c 76 N85-30933 * #
US-PATENT-APPL-SN-706565 ..... c 76 N85-30932 * #
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US-PATENT-APPL-SN-706682 ..... c 24 N85-28976 * #
US-PATENT-APPL-SN-707124 ..... c 44 N77-22606 * #
US-PATENT-APPL-SN-707125 ..... c 39 N78-16387 * #
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US-PATENT-APPL-SN-709255 ..... c 37 N85-29288 * #
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US-PATENT-APPL-SN-709622 ..... c 33 N71-24858 *
US-PATENT-APPL-SN-70967 ..... c 07 N73-13149 * #
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US-PATENT-APPL-SN-719798 ..... c 76 N85-30934 * #
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US-PATENT-APPL-SN-734805 ..... c 14 N70-34816 * #
US-PATENT-APPL-SN-734901 ..... c 27 N78-17205 * #
US-PATENT-APPL-SN-734902 ..... c 24 N78-14096 * #
US-PATENT-APPL-SN-735911 ..... c 14 N70-41946 * #
US-PATENT-APPL-SN-736286 ..... c 32 N79-11265 * #
US-PATENT-APPL-SN-736848 ..... c 23 N71-16212 *
US-PATENT-APPL-SN-736909 ..... c 37 N79-11404 * #
US-PATENT-APPL-SN-736910 ..... c 27 N78-32260 * #
US-PATENT-APPL-SN-737018 ..... c 37 N86-20801 * #
US-PATENT-APPL-SN-737974 ..... c 33 N78-18308 * #
US-PATENT-APPL-SN-737975 ..... c 32 N84-27952 * #
US-PATENT-APPL-SN-738119 ..... c 18 N71-15545 *
US-PATENT-APPL-SN-738218 ..... c 37 N78-27425 * #
US-PATENT-APPL-SN-738314 ..... c 12 N71-17573 *
US-PATENT-APPL-SN-738315 ..... c 14 N71-27334 *
US-PATENT-APPL-SN-738315 ..... c 14 N72-31446 * #
US-PATENT-APPL-SN-73834 ..... c 15 N72-23497 * #
US-PATENT-APPL-SN-738816 ..... c 27 N86-20564 * #
US-PATENT-APPL-SN-738931 ..... c 35 N86-20756 * #
US-PATENT-APPL-SN-739072 ..... c 33 N75-27251 * #
US-PATENT-APPL-SN-73922 ..... c 14 N73-25461 * #
US-PATENT-APPL-SN-73932 ..... c 15 N72-22485 * #
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US-PATENT-APPL-SN-739792 ..... c 33 N85-29150 * #
US-PATENT-APPL-SN-739908 ..... c 15 N78-25119 * #
US-PATENT-APPL-SN-739909 ..... c 37 N78-24545 * #
US-PATENT-APPL-SN-739914 ..... c 33 N78-10375 * #
US-PATENT-APPL-SN-739915 ..... c 37 N78-24544 * #
US-PATENT-APPL-SN-739927 ..... c 32 N71-16103 *
US-PATENT-APPL-SN-740153 ..... c 28 N79-11231 * #
US-PATENT-APPL-SN-740155 ..... c 74 N78-27904 * #
US-PATENT-APPL-SN-740156 ..... c 71 N78-14867 * #
US-PATENT-APPL-SN-740457 ..... c 35 N78-32395 * #
US-PATENT-APPL-SN-741056 ..... c 07 N81-19116 * #
US-PATENT-APPL-SN-741405 ..... c 23 N86-21582 * #
US-PATENT-APPL-SN-741461 ..... c 12 N71-18603 *
US-PATENT-APPL-SN-741749 ..... c 52 N79-14751 * #
US-PATENT-APPL-SN-741824 ..... c 07 N71-12389 * #
US-PATENT-APPL-SN-742034 ..... c 33 N78-10377 * #
US-PATENT-APPL-SN-742816 ..... c 14 N71-17656 *
US-PATENT-APPL-SN-743249 ..... c 35 N77-32456 * #
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US-PATENT-APPL-SN-743525 ..... c 07 N71-28430 *
US-PATENT-APPL-SN-744477 ..... c 33 N78-25319 * #
US-PATENT-APPL-SN-744522 ..... c 33 N77-21314 * #
US-PATENT-APPL-SN-744573 ..... c 44 N78-25531 * #
US-PATENT-APPL-SN-744574 ..... c 25 N78-14104 * #
US-PATENT-APPL-SN-744577 ..... c 35 N79-10391 * #
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US-PATENT-APPL-SN-745337 ..... c 28 N72-20758 * #
US-PATENT-APPL-SN-745384 ..... c 25 N79-11151 * #
US-PATENT-APPL-SN-745766 ..... c 37 N79-11403 * #
US-PATENT-APPL-SN-745852 ..... c 12 N71-17661 *
US-PATENT-APPL-SN-745973 ..... c 36 N86-19596 * #
US-PATENT-APPL-SN-745977 ..... c 35 N86-20754 * #
US-PATENT-APPL-SN-746160 ..... c 37 N86-20797 * #
US-PATENT-APPL-SN-746162 ..... c 18 N86-20471 * #
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US-PATENT-APPL-SN-746579 ..... c 33 N81-27397 * #
US-PATENT-APPL-SN-746580 ..... c 34 N78-17335 * #
US-PATENT-APPL-SN-746809 ..... c 35 N86-20755 * #
US-PATENT-APPL-SN-746901 ..... c 27 N86-20566 * #
US-PATENT-APPL-SN-74759 ..... c 14 N73-20478 * #
US-PATENT-APPL-SN-747674 ..... c 27 N80-26446 * #
US-PATENT-APPL-SN-747675 ..... c 37 N78-31426 * #
US-PATENT-APPL-SN-748532 ..... c 37 N86-20798 * #
US-PATENT-APPL-SN-748536 ..... c 33 N86-20680 * #
US-PATENT-APPL-SN-74861 ..... c 27 N72-25699 * #
US-PATENT-APPL-SN-74862 ..... c 27 N73-16764 * #
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US-PATENT-APPL-SN-749148 ..... c 10 N71-19421 *
US-PATENT-APPL-SN-749149 ..... c 15 N71-24897 *
US-PATENT-APPL-SN-749181 ..... c 09 N71-24803 *
US-PATENT-APPL-SN-749320 ..... c 14 N72-22443 * #
US-PATENT-APPL-SN-749420 ..... c 04 N82-16059 * #
US-PATENT-APPL-SN-749548 ..... c 10 N71-33129 *
US-PATENT-APPL-SN-750031 ..... c 05 N73-32012 * #
US-PATENT-APPL-SN-750235 ..... c 25 N75-14844 * #
US-PATENT-APPL-SN-750655 ..... c 74 N78-32854 * #
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US-PATENT-APPL-SN-750787 ..... c 10 N71-27126 * #
US-PATENT-APPL-SN-750792 ..... c 37 N79-11402 * #
US-PATENT-APPL-SN-750798 ..... c 85 N79-17747 * #
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US-PATENT-APPL-SN-751215 ..... c 22 N72-20597 * #
US-PATENT-APPL-SN-751266 ..... c 15 N71-33518 *
US-PATENT-APPL-SN-751643 ..... c 33 N86-19517 * #
US-PATENT-APPL-SN-751644 ..... c 85 N86-22452 * #
US-PATENT-APPL-SN-751691 ..... c 37 N86-19611 * #
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US-PATENT-APPL-SN-752050 ..... c 07 N81-19115 * #
US-PATENT-APPL-SN-752729 ..... c 09 N71-26787 *
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US-PATENT-APPL-SN-752946 ..... c 15 N71-29032 *
US-PATENT-APPL-SN-752947 ..... c 31 N71-15689 *
US-PATENT-APPL-SN-753103 ..... c 37 N80-14397 * #
US-PATENT-APPL-SN-753452 ..... c 07 N79-14096 * #
US-PATENT-APPL-SN-753964 ..... c 24 N78-27180 * #
US-PATENT-APPL-SN-753965 ..... c 54 N78-31735 * #
US-PATENT-APPL-SN-753965 ..... c 54 N79-24651 * #
US-PATENT-APPL-SN-753971 ..... c 71 N84-14873 * #
US-PATENT-APPL-SN-753974 ..... c 16 N71-33410 *
US-PATENT-APPL-SN-753976 ..... c 54 N78-17675 * #
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US-PATENT-APPL-SN-753978 ..... c 54 N78-32721 * #
US-PATENT-APPL-SN-754019 ..... c 09 N71-25999 *
US-PATENT-APPL-SN-754020 ..... c 12 N71-27332 *
US-PATENT-APPL-SN-754055 ..... c 07 N71-24624 *
US-PATENT-APPL-SN-754066 ..... c 39 N78-15512 * #
US-PATENT-APPL-SN-75431 ..... c 21 N72-31637 * #
US-PATENT-APPL-SN-754362 ..... c 27 N86-19461 * #
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US-PATENT-APPL-SN-754707 ..... c 33 N86-20679 * #
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US-PATENT-APPL-SN-755323 ..... c 74 N79-11865 * #
US-PATENT-APPL-SN-756260 ..... c 23 N71-26722 *
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US-PATENT-APPL-SN-758390 ..... c 28 N71-26642 *
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US-PATENT-APPL-SN-758942 ..... c 27 N71-14090 * #
US-PATENT-APPL-SN-759220 ..... c 27 N78-17214 * #
US-PATENT-APPL-SN-759256 ..... c 07 N71-27233 *
US-PATENT-APPL-SN-759457 ..... c 33 N71-16357 *
US-PATENT-APPL-SN-759460 ..... c 09 N71-24597 *
US-PATENT-APPL-SN-759665 ..... c 14 N71-18481 *
US-PATENT-APPL-SN-759965 ..... c 52 N79-26771 * #
US-PATENT-APPL-SN-760057 ..... c 44 N79-14527 * #
US-PATENT-APPL-SN-760114 ..... c 28 N72-11709 *
US-PATENT-APPL-SN-760378 ..... c 37 N86-20799 * #
US-PATENT-APPL-SN-760389 ..... c 09 N71-24618 *
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US-PATENT-APPL-SN-760809 ..... c 24 N78-24290 * #
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US-PATENT-APPL-SN-760819 ..... c 14 N70-34820 * #
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US-PATENT-APPL-SN-762363 ..... c 44 N79-24432 * #
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US-PATENT-APPL-SN-762956 ..... c 14 N71-26627 *
US-PATENT-APPL-SN-762957 ..... c 08 N71-27210 *
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US-PATENT-APPL-SN-763706 ..... c 15 N71-24896 *
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US-PATENT-APPL-SN-765123 ..... c 31 N71-15687 *
US-PATENT-APPL-SN-765138 ..... c 44 N79-10513 * #
US-PATENT-APPL-SN-765139 ..... c 44 N78-31526 * #
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US-PATENT-APPL-SN-765167 ..... c 32 N79-10263 * #
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US-PATENT-APPL-SN-766697 ..... c 09 N71-33519 *
US-PATENT-APPL-SN-7668 ..... c 15 N71-26611 *
US-PATENT-APPL-SN-766999 ..... c 33 N80-23559 * #
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US-PATENT-APPL-SN-767911 ..... c 09 N78-31129 * #
US-PATENT-APPL-SN-767912 ..... c 27 N79-14214 * #
US-PATENT-APPL-SN-768336 ..... c 15 N71-17648 *
US-PATENT-APPL-SN-768470 ..... c 09 N71-28421 *
US-PATENT-APPL-SN-768473 ..... c 14 N71-17657 *
US-PATENT-APPL-SN-768662 ..... c 07 N73-25160 * #
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US-PATENT-APPL-SN-768795 ..... c 33 N79-10339 * #
US-PATENT-APPL-SN-768942 ..... c 46 N74-23068 * #
US-PATENT-APPL-SN-76899 ..... c 09 N72-22201 * #
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US-PATENT-APPL-SN-770203 ..... c 05 N71-11195 * #
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US-PATENT-APPL-SN-770371 ..... c 15 N71-24599 *
US-PATENT-APPL-SN-770398 ..... c 06 N71-27254 *
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US-PATENT-APPL-SN-773530 ..... c 25 N75-29192 * #
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US-PATENT-APPL-SN-782464 ..... c 32 N79-14267 * #
US-PATENT-APPL-SN-782480 ..... c 33 N78-32340 * #
US-PATENT-APPL-SN-782481 ..... c 44 N78-32542 * #
US-PATENT-APPL-SN-782482 ..... c 33 N79-11315 * #
US-PATENT-APPL-SN-782544 ..... c 14 N71-27325 *
US-PATENT-APPL-SN-782693 ..... c 33 N79-10337 * #
US-PATENT-APPL-SN-782955 ..... c 07 N71-33108 *
US-PATENT-APPL-SN-782956 ..... c 10 N71-25865 *
US-PATENT-APPL-SN-783374 ..... c 15 N71-27147 *
US-PATENT-APPL-SN-783375 ..... c 07 N71-24621 *
US-PATENT-APPL-SN-783377 ..... c 05 N71-28619 *
US-PATENT-APPL-SN-783378 ..... c 07 N71-19436 *
US-PATENT-APPL-SN-783379 ..... c 15 N71-17653 *
US-PATENT-APPL-SN-783886 ..... c 37 N86-20807 * #
US-PATENT-APPL-SN-783887 ..... c 36 N86-20779 * #
US-PATENT-APPL-SN-783888 ..... c 37 N86-19613 * #
US-PATENT-APPL-SN-783890 ..... c 74 N86-20130 * #
US-PATENT-APPL-SN-784055 ..... c 15 N72-11390 *
US-PATENT-APPL-SN-784521 ..... c 14 N71-15620 * #
US-PATENT-APPL-SN-784544 ..... c 15 N72-12408 *
US-PATENT-APPL-SN-785078 ..... c 03 N72-27053 * #
US-PATENT-APPL-SN-785257 ..... c 44 N79-14526 * #
US-PATENT-APPL-SN-785279 ..... c 27 N81-14077 * #
US-PATENT-APPL-SN-785546 ..... c 10 N71-25882 *
US-PATENT-APPL-SN-785595 ..... c 10 N71-24861 *
US-PATENT-APPL-SN-785611 ..... c 15 N71-24600 *
US-PATENT-APPL-SN-785613 ..... c 05 N72-25119 * #
US-PATENT-APPL-SN-785615 ..... c 05 N72-20098 * #
US-PATENT-APPL-SN-785620 ..... c 21 N71-27324 *
US-PATENT-APPL-SN-785710 ..... c 05 N71-24730 *
US-PATENT-APPL-SN-785780 ..... c 18 N71-28729 *
US-PATENT-APPL-SN-786322 ..... c 32 N79-20296 * #
US-PATENT-APPL-SN-7867 ..... c 14 N72-17324 * #
US-PATENT-APPL-SN-7868 ..... c 10 N72-17173 * #
US-PATENT-APPL-SN-786913 ..... c 27 N79-12221 * #
US-PATENT-APPL-SN-78703 ..... c 15 N73-20514 * #
US-PATENT-APPL-SN-78704 ..... c 05 N72-25121 * #
US-PATENT-APPL-SN-78717 ..... c 05 N73-13114 * #
US-PATENT-APPL-SN-787393 ..... c 23 N71-26206 *
US-PATENT-APPL-SN-787410 ..... c 15 N71-19213 *
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US-PATENT-APPL-SN-787846 ..... c 23 N71-33229 *
US-PATENT-APPL-SN-787906 ..... c 03 N71-26084 *
US-PATENT-APPL-SN-787911 ..... c 03 N71-28579 *
US-PATENT-APPL-SN-788045 ..... c 24 N79-25142 * #
US-PATENT-APPL-SN-788705 ..... c 35 N78-24515 * #
US-PATENT-APPL-SN-789043 ..... c 10 N71-26531 *
US-PATENT-APPL-SN-789044 ..... c 14 N72-20381 * #
US-PATENT-APPL-SN-789045 ..... c 15 N72-22489 * #
US-PATENT-APPL-SN-789266 ..... c 71 N86-20087 * #
US-PATENT-APPL-SN-789278 ..... c 15 N71-24694 *
US-PATENT-APPL-SN-789903 ..... c 07 N71-28429 *
US-PATENT-APPL-SN-790420 ..... c 09 N71-24595 *
US-PATENT-APPL-SN-790556 ..... c 08 N86-20397 * #
US-PATENT-APPL-SN-790594 ..... c 36 N86-20778 * #
US-PATENT-APPL-SN-790596 ..... c 37 N86-19612 * #
US-PATENT-APPL-SN-790597 ..... c 37 N86-21858 * #
US-PATENT-APPL-SN-790637 ..... c 44 N78-25529 * #
US-PATENT-APPL-SN-791267 ..... c 23 N72-17747 * #
US-PATENT-APPL-SN-791268 ..... c 33 N72-17947 * #
US-PATENT-APPL-SN-791288 ..... c 28 N71-25213 *
US-PATENT-APPL-SN-791364 ..... c 14 N72-17328 * #
US-PATENT-APPL-SN-791693 ..... c 05 N71-11203 * #
US-PATENT-APPL-SN-791888 ..... c 23 N71-24725 *
US-PATENT-APPL-SN-792067 ..... c 24 N78-17150 * #
US-PATENT-APPL-SN-792068 ..... c 51 N79-10693 * #
US-PATENT-APPL-SN-792069 ..... c 37 N79-10418 * #
US-PATENT-APPL-SN-792623 ..... c 14 N72-23457 * #
US-PATENT-APPL-SN-793006 ..... c 52 N86-19885 * #
US-PATENT-APPL-SN-793657 ..... c 17 N72-28536 * #
US-PATENT-APPL-SN-793770 ..... c 25 N71-15562 *
US-PATENT-APPL-SN-793771 ..... c 14 N72-22440 * #
US-PATENT-APPL-SN-793772 ..... c 10 N71-18722 *
US-PATENT-APPL-SN-793823 ..... c 09 N71-33109 *
US-PATENT-APPL-SN-794530 ..... c 15 N72-11386 *
US-PATENT-APPL-SN-794968 ..... c 15 N71-27146 *
US-PATENT-APPL-SN-795162 ..... c 07 N71-24840 *
US-PATENT-APPL-SN-795217 ..... c 33 N71-25351 *
US-PATENT-APPL-SN-795805 ..... c 08 N86-20396 * #
US-PATENT-APPL-SN-795945 ..... c 37 N86-21859 * #
US-PATENT-APPL-SN-796053 ..... c 37 N86-19614 * #
US-PATENT-APPL-SN-796256 ..... c 52 N80-18691 * #
US-PATENT-APPL-SN-796258 ..... c 52 N82-22875 * #
US-PATENT-APPL-SN-796263 ..... c 27 N79-28307 * #
US-PATENT-APPL-SN-796358 ..... c 05 N72-11085 *
US-PATENT-APPL-SN-796360 ..... c 15 N71-24696 *
US-PATENT-APPL-SN-796370 ..... c 10 N71-27366 *
US-PATENT-APPL-SN-796405 ..... c 14 N71-27185 *
US-PATENT-APPL-SN-796685 ..... c 26 N72-28762 * #
US-PATENT-APPL-SN-796690 ..... c 07 N72-21119 * #
US-PATENT-APPL-SN-796691 ..... c 10 N71-26334 *
US-PATENT-APPL-SN-797056 ..... c 15 N71-25975 *
US-PATENT-APPL-SN-797057 ..... c 15 N70-22192 * #
US-PATENT-APPL-SN-797058 ..... c 05 N71-24738 *
US-PATENT-APPL-SN-797059 ..... c 15 N71-28465 *
US-PATENT-APPL-SN-797210 ..... c 28 N78-31255 * #
US-PATENT-APPL-SN-797219 ..... c 03 N71-33409 *
US-PATENT-APPL-SN-797794 ..... c 07 N71-12396 * #
US-PATENT-APPL-SN-797795 ..... c 07 N71-27191 *
US-PATENT-APPL-SN-797796 ..... c 28 N71-14058 * #
US-PATENT-APPL-SN-798277 ..... c 23 N71-26654 *
US-PATENT-APPL-SN-798976 ..... c 52 N81-25661 * #
US-PATENT-APPL-SN-799013 ..... c 09 N71-28468 *
US-PATENT-APPL-SN-799023 ..... c 37 N79-10421 * #
US-PATENT-APPL-SN-799024 ..... c 24 N78-17149 * #
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US-PATENT-APPL-SN-799026 ..... c 44 N79-11468 * #
US-PATENT-APPL-SN-799353 ..... c 09 N71-27232 *
US-PATENT-APPL-SN-799832 ..... c 33 N79-15245 * #
US-PATENT-APPL-SN-800193 ..... c 37 N86-20804 * #
US-PATENT-APPL-SN-800204 ..... c 06 N72-17094 * #
US-PATENT-APPL-SN-80029 ..... c 14 N73-32320 * #
US-PATENT-APPL-SN-80029 ..... c 74 N74-20008 * #
US-PATENT-APPL-SN-800973 ..... c 16 N71-24832 *
US-PATENT-APPL-SN-801290 ..... c 37 N79-18318 * #
US-PATENT-APPL-SN-801290 ..... c 37 N80-26658 * #
US-PATENT-APPL-SN-801290 ..... c 37 N82-19540 * #
US-PATENT-APPL-SN-801312 ..... c 16 N71-15565 *
US-PATENT-APPL-SN-801336 ..... c 02 N71-13422 * #
US-PATENT-APPL-SN-801432 ..... c 33 N78-32341 * #
US-PATENT-APPL-SN-801452 ..... c 44 N79-11471 * #
US-PATENT-APPL-SN-801660 ..... c 14 N71-26672 *
US-PATENT-APPL-SN-802812 ..... c 10 N72-22235 * #
US-PATENT-APPL-SN-802813 ..... c 15 N72-22487 * #
US-PATENT-APPL-SN-802816 ..... c 31 N71-16346 *
US-PATENT-APPL-SN-802818 ..... c 07 N71-29065 *
US-PATENT-APPL-SN-802820 ..... c 10 N71-13545 * #
US-PATENT-APPL-SN-802948 ..... c 31 N71-33160 *
US-PATENT-APPL-SN-802972 ..... c 09 N71-26678 *
US-PATENT-APPL-SN-80368 ..... c 09 N73-20231 * #
US-PATENT-APPL-SN-80369 ..... c 09 N72-22198 * #
US-PATENT-APPL-SN-803822 ..... c 26 N79-22271 * #
US-PATENT-APPL-SN-803822 ..... c 26 N80-32484 * #
US-PATENT-APPL-SN-803823 ..... c 44 N79-11467 * #
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US-PATENT-APPL-SN-804172 ..... c 28 N71-26781 *
US-PATENT-APPL-SN-805011 ..... c 54 N86-22114 * #
US-PATENT-APPL-SN-805012 ..... c 27 N86-21684 * #
US-PATENT-APPL-SN-805298 ..... c 10 N71-25899 *
US-PATENT-APPL-SN-805405 ..... c 14 N71-27323 *
US-PATENT-APPL-SN-805406 ..... c 07 N71-24613 *
US-PATENT-APPL-SN-805549 ..... c 35 N79-16246 * #
US-PATENT-APPL-SN-806149 ..... c 27 N71-16223 *
US-PATENT-APPL-SN-806226 ..... c 14 N71-27407 *
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US-PATENT-APPL-SN-807703 ..... c 37 N78-27424 * #
US-PATENT-APPL-SN-807762 ..... c 27 N78-31233 * #
US-PATENT-APPL-SN-808192 ..... c 15 N71-27432 *
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US-PATENT-APPL-SN-809890 ..... c 44 N79-17314 * #
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US-PATENT-APPL-SN-809975 ..... c 44 N86-21981 * #
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US-PATENT-APPL-SN-810576 ..... c 15 N73-12492 * #
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US-PATENT-APPL-SN-810815 ..... c 06 N72-22107 * #
US-PATENT-APPL-SN-81095 ..... c 13 N72-25323 * #
US-PATENT-APPL-SN-81096 ..... c 14 N73-14427 * #
US-PATENT-APPL-SN-811037 ..... c 14 N71-26137 *
US-PATENT-APPL-SN-811038 ..... c 14 N72-20380 * #
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US-PATENT-APPL-SN-811542 ..... c 21 N71-24948 *
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US-PATENT-APPL-SN-813494 ..... c 08 N72-11171 *
US-PATENT-APPL-SN-814004 ..... c 33 N79-18193 * #
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US-PATENT-APPL-SN-814212 ..... c 14 N72-17326 * #
US-PATENT-APPL-SN-814378 ..... c 25 N79-10162 * #
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US-PATENT-APPL-SN-815367 ..... c 14 N71-28863 *
US-PATENT-APPL-SN-815760 ..... c 15 N71-27068 *
US-PATENT-APPL-SN-816733 ..... c 15 N71-27084 *
US-PATENT-APPL-SN-816988 ..... c 14 N71-26199 *
US-PATENT-APPL-SN-817413 ..... c 33 N79-12321 * #
US-PATENT-APPL-SN-817415 ..... c 74 N79-20857 * #
US-PATENT-APPL-SN-817481 ..... c 09 N72-11225 *
US-PATENT-APPL-SN-817482 ..... c 10 N71-27338 *
US-PATENT-APPL-SN-817569 ..... c 06 N69-31244 * #
US-PATENT-APPL-SN-818349 ..... c 21 N71-19212 *
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US-PATENT-APPL-SN-819898 ..... c 30 N72-17873 * #
US-PATENT-APPL-SN-8203 ..... c 15 N70-33180 *
US-PATENT-APPL-SN-820453 ..... c 03 N72-24037 * #
US-PATENT-APPL-SN-820498 ..... c 89 N79-10969 * #
US-PATENT-APPL-SN-820499 ..... c 76 N79-23798 * #
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US-PATENT-APPL-SN-820964 ..... c 15 N71-28740 *
US-PATENT-APPL-SN-820965 ..... c 09 N71-13486 * #
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US-PATENT-APPL-SN-821681 ..... c 35 N78-27384 * #
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US-PATENT-APPL-SN-822088 ..... c 15 N71-27135 *
US-PATENT-APPL-SN-822089 ..... c 23 N72-23695 * #
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US-PATENT-APPL-SN-822518 ..... c 09 N71-13522 * #
US-PATENT-APPL-SN-822519 ..... c 14 N71-28992 *
US-PATENT-APPL-SN-822534 ..... c 09 N72-11224 *
US-PATENT-APPL-SN-82279 ..... c 03 N76-32140 * #
US-PATENT-APPL-SN-82280 ..... c 09 N72-25262 * #
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US-PATENT-APPL-SN-823712 ..... c 44 N86-21982 * #
US-PATENT-APPL-SN-824024 ..... c 44 N79-18443 * #
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US-PATENT-APPL-SN-825253 ..... c 16 N69-31343 * #
US-PATENT-APPL-SN-825258 ..... c 26 N72-21701 * #
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US-PATENT-APPL-SN-826204 ..... c 37 N79-10420 * #
US-PATENT-APPL-SN-826326 ..... c 46 N79-22679 * #
US-PATENT-APPL-SN-82647 ..... c 28 N72-22772 * #
US-PATENT-APPL-SN-82648 ..... c 12 N72-25292 * #
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US-PATENT-APPL-SN-830458 ..... c 46 N79-23555 * #
US-PATENT-APPL-SN-830562 ..... c 39 N80-10507 * #
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US-PATENT-APPL-SN-837825 ..... c 15 N71-27006 *
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US-PATENT-APPL-SN-83816 ..... c 44 N74-14784 * #
US-PATENT-APPL-SN-838278 ..... c 60 N74-20836 * #
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US-PATENT-APPL-SN-843090 ..... c 27 N79-22300 * #
US-PATENT-APPL-SN-843251 ..... c 03 N72-11062 *
US-PATENT-APPL-SN-843308 ..... c 32 N79-14268 * #
US-PATENT-APPL-SN-844225 ..... c 05 N72-25120 * #
US-PATENT-APPL-SN-844243 ..... c 37 N75-29426 * #
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US-PATENT-APPL-SN-845973 ..... c 11 N71-24985 *
US-PATENT-APPL-SN-845974 ..... c 33 N71-25353 *
US-PATENT-APPL-SN-845990 ..... c 14 N71-27005 *
US-PATENT-APPL-SN-845991 ..... c 14 N71-29134 *
US-PATENT-APPL-SN-847023 ..... c 31 N70-37938 * #
US-PATENT-APPL-SN-847027 ..... c 03 N70-33343 *
US-PATENT-APPL-SN-847276 ..... c 37 N81-32510 * #
US-PATENT-APPL-SN-847277 ..... c 31 N79-28370 * #
US-PATENT-APPL-SN-847278 ..... c 34 N79-20335 * #
US-PATENT-APPL-SN-847596 ..... c 15 N70-10867 * #
US-PATENT-APPL-SN-847815 ..... c 52 N75-15270 * #
US-PATENT-APPL-SN-848282 ..... c 15 N72-21462 * #
US-PATENT-APPL-SN-848325 ..... c 06 N70-11251 * #
US-PATENT-APPL-SN-848351 ..... c 06 N70-11252 * #
US-PATENT-APPL-SN-848403 ..... c 33 N74-20859 * #
US-PATENT-APPL-SN-848403 ..... c 36 N75-27364 * #
US-PATENT-APPL-SN-848418 ..... c 43 N79-26439 * #
US-PATENT-APPL-SN-848419 ..... c 43 N80-23711 * #
US-PATENT-APPL-SN-848420 ..... c 43 N79-25443 * #
US-PATENT-APPL-SN-848421 ..... c 43 N80-14423 * #
US-PATENT-APPL-SN-848428 ..... c 25 N82-21268 * #
US-PATENT-APPL-SN-848481 ..... c 17 N70-33283 *
US-PATENT-APPL-SN-848776 ..... c 07 N72-22127 * #
US-PATENT-APPL-SN-848793 ..... c 43 N79-31706 * #
US-PATENT-APPL-SN-848794 ..... c 44 N79-24431 * #
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US-PATENT-APPL-SN-84961 ..... c 02 N70-34178 * #
US-PATENT-APPL-SN-84962 ..... c 21 N70-36943 * #
US-PATENT-APPL-SN-8497 ..... c 14 N72-11363 *
US-PATENT-APPL-SN-8498 ..... c 05 N71-24729 *
US-PATENT-APPL-SN-850504 ..... c 52 N81-14613 * #
US-PATENT-APPL-SN-850504 ..... c 52 N81-29764 * #
US-PATENT-APPL-SN-850507 ..... c 25 N79-14169 * #
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US-PATENT-APPL-SN-850587 ..... c 08 N72-21199 * #
US-PATENT-APPL-SN-851298 ..... c 15 N72-12409 *
US-PATENT-APPL-SN-851394 ..... c 09 N71-24892 *
US-PATENT-APPL-SN-852131 ..... c 15 N71-24836 *
US-PATENT-APPL-SN-852843 ..... c 09 N72-22195 * #
US-PATENT-APPL-SN-853349 ..... c 35 N81-33448 * #
US-PATENT-APPL-SN-853641 ..... c 33 N72-25913 * #
US-PATENT-APPL-SN-853677 ..... c 34 N79-31523 * #
US-PATENT-APPL-SN-853679 ..... c 35 N79-14346 * #
US-PATENT-APPL-SN-853705 ..... c 45 N79-12584 * #
US-PATENT-APPL-SN-853716 ..... c 09 N71-24904 *
US-PATENT-APPL-SN-853746 ..... c 02 N72-11018 *
US-PATENT-APPL-SN-853763 ..... c 07 N70-12616 * #
US-PATENT-APPL-SN-853763 ..... c 07 N72-33146 * #
US-PATENT-APPL-SN-853855 ..... c 17 N72-22530 * #
US-PATENT-APPL-SN-853855 ..... c 17 N72-28535 * #
US-PATENT-APPL-SN-853856 ..... c 16 N71-29131 *
US-PATENT-APPL-SN-853983 ..... c 14 N70-33254 *
US-PATENT-APPL-SN-853984 ..... c 21 N70-33181 *
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US-PATENT-APPL-SN-854920 ..... c 15 N79-26100 * #
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US-PATENT-APPL-SN-855364 ..... c 52 N81-27783 * #
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US-PATENT-APPL-SN-856253 ..... c 24 N74-19769 * #
US-PATENT-APPL-SN-856258 ..... c 05 N71-17599 *
US-PATENT-APPL-SN-856279 ..... c 07 N72-21118 * #
US-PATENT-APPL-SN-856282 ..... c 08 N72-22166 * #
US-PATENT-APPL-SN-856327 ..... c 05 N72-16015 * #
US-PATENT-APPL-SN-856328 ..... c 14 N72-22441 * #
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US-PATENT-APPL-SN-856461 ..... c 34 N79-12359 * #
US-PATENT-APPL-SN-856462 ..... c 34 N80-24573 * #
US-PATENT-APPL-SN-856462 ..... c 44 N81-24519 * #
US-PATENT-APPL-SN-856464 ..... c 36 N79-14362 * #
US-PATENT-APPL-SN-856465 ..... c 44 N80-14473 * #
US-PATENT-APPL-SN-856466 ..... c 72 N80-14877 * #
US-PATENT-APPL-SN-857241 ..... c 46 N74-23069 * #
US-PATENT-APPL-SN-857445 ..... c 05 N71-24728 *
US-PATENT-APPL-SN-857967 ..... c 15 N72-20443 * #
US-PATENT-APPL-SN-858596 ..... c 35 N78-18395 * #
US-PATENT-APPL-SN-858695 ..... c 11 N72-22247 * #
US-PATENT-APPL-SN-858762 ..... c 08 N79-23097 * #
US-PATENT-APPL-SN-858764 ..... c 33 N79-10338 * #
US-PATENT-APPL-SN-858765 ..... c 33 N79-11313 * #
US-PATENT-APPL-SN-858766 ..... c 27 N79-14213 * #
US-PATENT-APPL-SN-858767 ..... c 32 N83-19968 * #
US-PATENT-APPL-SN-858936 ..... c 07 N80-18039 * #
US-PATENT-APPL-SN-858950 ..... c 35 N78-17359 * #
US-PATENT-APPL-SN-86018 ..... c 23 N71-30292 *
US-PATENT-APPL-SN-860404 ..... c 37 N81-15364 * #
US-PATENT-APPL-SN-860405 ..... c 26 N79-22271 * #
US-PATENT-APPL-SN-860406 ..... c 24 N79-17916 * #
US-PATENT-APPL-SN-860492 ..... c 09 N72-20199 * #
US-PATENT-APPL-SN-860493 ..... c 14 N72-16283 * #
US-PATENT-APPL-SN-860635 ..... c 28 N72-17843 * #
US-PATENT-APPL-SN-860750 ..... c 08 N72-22165 * #
US-PATENT-APPL-SN-860751 ..... c 08 N72-18184 * #
US-PATENT-APPL-SN-860781 ..... c 18 N72-22567 * #
US-PATENT-APPL-SN-861152 ..... c 14 N70-33322 *
US-PATENT-APPL-SN-861390 ..... c 28 N79-28342 * #
US-PATENT-APPL-SN-861391 ..... c 44 N79-12541 * #
US-PATENT-APPL-SN-861392 ..... c 71 N79-23753 * #
US-PATENT-APPL-SN-861396 ..... c 35 N79-14349 * #
US-PATENT-APPL-SN-861649 ..... c 14 N72-17327 * #
US-PATENT-APPL-SN-862878 ..... c 09 N82-29330 * #

US-PATENT-APPL-SN-862880 ..... c 24 N79-31347 * #
US-PATENT-APPL-SN-862921 ..... c 31 N71-29050 *
US-PATENT-APPL-SN-863024 ..... c 46 N80-14603 * #
US-PATENT-APPL-SN-863276 ..... c 16 N72-12440 *
US-PATENT-APPL-SN-863280 ..... c 24 N72-33681 * #
US-PATENT-APPL-SN-8636 ..... c 15 N72-25451 * #
US-PATENT-APPL-SN-863770 ..... c 44 N79-18444 * #
US-PATENT-APPL-SN-863773 ..... c 44 N79-26475 * #
US-PATENT-APPL-SN-863913 ..... c 14 N71-28991 *
US-PATENT-APPL-SN-863914 ..... c 09 N72-31235 * #
US-PATENT-APPL-SN-863963 ..... c 10 N71-26085 *
US-PATENT-APPL-SN-863967 ..... c 11 N71-27036 *
US-PATENT-APPL-SN-864020 ..... c 15 N72-17454 * #
US-PATENT-APPL-SN-864039 ..... c 15 N72-22483 * #
US-PATENT-APPL-SN-864097 ..... c 07 N71-33606 *
US-PATENT-APPL-SN-86417 ..... c 07 N72-25171 * #
US-PATENT-APPL-SN-8650 ..... c 03 N72-25021 * #
US-PATENT-APPL-SN-865106 ..... c 09 N72-22202 * #
US-PATENT-APPL-SN-865109 ..... c 14 N71-28933 *
US-PATENT-APPL-SN-865274 ..... c 09 N72-17155 * #
US-PATENT-APPL-SN-865298 ..... c 15 N72-11388 *
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US-PATENT-APPL-SN-865811 ..... c 09 N71-27053 *
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US-PATENT-APPL-SN-868445 ..... c 14 N72-17323 * #
US-PATENT-APPL-SN-868529 ..... c 08 N72-22167 * #
US-PATENT-APPL-SN-868530 ..... c 05 N72-11084 *
US-PATENT-APPL-SN-868775 ..... c 09 N72-25261 * #
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US-PATENT-APPL-SN-870689 ..... c 06 N72-25148 * #
US-PATENT-APPL-SN-87222 ..... c 05 N72-27103 * #
US-PATENT-APPL-SN-872602 ..... c 09 N72-22200 * #
US-PATENT-APPL-SN-872664 ..... c 08 N70-34675 * #
US-PATENT-APPL-SN-873045 ..... c 14 N72-20379 * #
US-PATENT-APPL-SN-873259 ..... c 08 N72-21200 * #
US-PATENT-APPL-SN-873260 ..... c 33 N72-17948 * #
US-PATENT-APPL-SN-873793 ..... c 14 N72-21407 * #
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US-PATENT-APPL-SN-874674 ..... c 27 N82-29452 * #
US-PATENT-APPL-SN-874675 ..... c 27 N82-29455 * #
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US-PATENT-APPL-SN-874733 ..... c 15 N71-26635 *
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US-PATENT-APPL-SN-876438 ..... c 52 N79-26772 * #
US-PATENT-APPL-SN-876440 ..... c 51 N80-16714 * #
US-PATENT-APPL-SN-876441 ..... c 74 N79-20856 * #
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US-PATENT-APPL-SN-877445 ..... c 23 N82-29358 * #
US-PATENT-APPL-SN-877717 ..... c 14 N72-27410 * #
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US-PATENT-APPL-SN-877990 ..... c 14 N72-28437 * #
US-PATENT-APPL-SN-878253 ..... c 25 N81-33246 * #
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US-PATENT-APPL-SN-878541 ..... c 33 N81-14220 * #
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US-PATENT-APPL-SN-878731 ..... c 15 N71-26162 *
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US-PATENT-APPL-SN-880249 ..... c 15 N72-22482 * #
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US-PATENT-APPL-SN-880398 ..... c 15 N73-12487 * #
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US-PATENT-APPL-SN-880727 ..... c 35 N79-28527 * #
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US-PATENT-APPL-SN-883094 ..... c 54 N79-24651 * #
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US-PATENT-APPL-SN-88435 ..... c 35 N74-15090 * #
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US-PATENT-APPL-SN-885594 ..... c 15 N71-29133 *
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US-PATENT-APPL-SN-887698 ..... c 09 N72-17153 * #
US-PATENT-APPL-SN-887699 ..... c 15 N72-17452 * #
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US-PATENT-APPL-SN-889387 ..... c 09 N71-29035 *
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US-PATENT-APPL-SN-889682 ..... c 15 N72-25447 * #
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US-PATENT-APPL-SN-891358 ..... c 44 N80-14474 * #
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US-PATENT-APPL-SN-893865 ..... c 37 N81-24443 * #
US-PATENT-APPL-SN-893903 ..... c 60 N81-15706 * #
US-PATENT-APPL-SN-894213 ..... c 37 N80-23655 * #
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US-PATENT-APPL-SN-901055 ..... c 76 N80-32245 * #
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US-PATENT-APPL-SN-915050 ..... c 44 N81-12542 * #
US-PATENT-APPL-SN-91642 ..... c 14 N72-31446 * #
US-PATENT-APPL-SN-916654 ..... c 07 N81-29129 * #
US-PATENT-APPL-SN-916655 ..... c 44 N80-14472 * #
US-PATENT-APPL-SN-918533 ..... c 32 N79-23310 * #
US-PATENT-APPL-SN-918534 ..... c 33 N80-32650 * #
US-PATENT-APPL-SN-918535 ..... c 35 N80-18357 * #
US-PATENT-APPL-SN-918537 ..... c 26 N80-14229 * #
US-PATENT-APPL-SN-918705 ..... c 52 N82-33996 * #
US-PATENT-APPL-SN-920878 ..... c 24 N78-27184 * #
US-PATENT-APPL-SN-920879 ..... c 44 N79-31752 * #
US-PATENT-APPL-SN-921626 ..... c 25 N80-23383 * #
US-PATENT-APPL-SN-921627 ..... c 33 N80-14332 * #
US-PATENT-APPL-SN-923758 ..... c 20 N78-27176 * #
US-PATENT-APPL-SN-923758 ..... c 20 N80-10278 * #
US-PATENT-APPL-SN-9251 ..... c 03 N70-34646 * #
US-PATENT-APPL-SN-928128 ..... c 44 N80-18551 * #
US-PATENT-APPL-SN-928129 ..... c 35 N80-14371 * #
US-PATENT-APPL-SN-928130 ..... c 35 N80-20559 * #
US-PATENT-APPL-SN-928131 ..... c 09 N79-31228 * #
US-PATENT-APPL-SN-928133 ..... c 44 N80-18550 * #
US-PATENT-APPL-SN-928137 ..... c 52 N80-23969 * #
US-PATENT-APPL-SN-929083 ..... c 36 N80-16321 * #
US-PATENT-APPL-SN-929084 ..... c 37 N81-19455 * #
US-PATENT-APPL-SN-929086 ..... c 24 N81-13999 * #
US-PATENT-APPL-SN-929087 ..... c 35 N80-28687 * #
US-PATENT-APPL-SN-929088 ..... c 74 N80-24149 * #
US-PATENT-APPL-SN-931090 ..... c 37 N80-26658 * #
US-PATENT-APPL-SN-931090 ..... c 37 N82-19540 * #
US-PATENT-APPL-SN-931217 ..... c 37 N80-32716 * #
US-PATENT-APPL-SN-931218 ..... c 20 N80-18097 * #
US-PATENT-APPL-SN-933186 ..... c 27 N80-32515 * #
US-PATENT-APPL-SN-93329 ..... c 09 N73-26195 * #
US-PATENT-APPL-SN-934576 ..... c 35 N80-18358 * #
US-PATENT-APPL-SN-935827 ..... c 37 N80-18393 * #
US-PATENT-APPL-SN-93714 ..... c 44 N82-28780 * #
US-PATENT-APPL-SN-938293 ..... c 32 N80-32605 * #
US-PATENT-APPL-SN-938297 ..... c 25 N81-14015 * #
US-PATENT-APPL-SN-938298 ..... c 33 N81-17348 * #
US-PATENT-APPL-SN-938299 ..... c 33 N81-19389 * #
US-PATENT-APPL-SN-938300 ..... c 37 N80-23654 * #
US-PATENT-APPL-SN-938579 ..... c 76 N80-32244 * #
US-PATENT-APPL-SN-938581 ..... c 04 N80-32359 * #
US-PATENT-APPL-SN-938582 ..... c 37 N80-23653 * #
US-PATENT-APPL-SN-94049 ..... c 14 N73-20476 * #
US-PATENT-APPL-SN-940688 ..... c 24 N79-24062 * #
US-PATENT-APPL-SN-940689 ..... c 35 N80-28686 * #
US-PATENT-APPL-SN-940970 ..... c 72 N80-27163 * #
US-PATENT-APPL-SN-941711 ..... c 24 N80-26388 * #
US-PATENT-APPL-SN-94259 ..... c 27 N70-35534 * #
US-PATENT-APPL-SN-943086 ..... c 37 N80-32717 * #
US-PATENT-APPL-SN-943087 ..... c 15 N78-32168 * #
US-PATENT-APPL-SN-943088 ..... c 18 N80-14183 * #
US-PATENT-APPL-SN-943089 ..... c 74 N80-21140 * #
US-PATENT-APPL-SN-94347 ..... c 05 N72-25122 * #
US-PATENT-APPL-SN-94369 ..... c 07 N71-28965 * #
US-PATENT-APPL-SN-94374 ..... c 14 N72-25411 * #
US-PATENT-APPL-SN-945040 ..... c 37 N82-24492 * #
US-PATENT-APPL-SN-945041 ..... c 43 N80-18498 * #
US-PATENT-APPL-SN-945043 ..... c 33 N81-33403 * #
US-PATENT-APPL-SN-945044 ..... c 54 N81-26718 * #
US-PATENT-APPL-SN-945436 ..... c 46 N80-24906 * #
US-PATENT-APPL-SN-946990 ..... c 28 N80-23471 * #
US-PATENT-APPL-SN-946991 ..... c 31 N81-27324 * #
US-PATENT-APPL-SN-946992 ..... c 45 N80-14579 * #
US-PATENT-APPL-SN-946994 ..... c 44 N79-31753 * #
US-PATENT-APPL-SN-947000 ..... c 28 N81-15119 * #
US-PATENT-APPL-SN-94952 ..... c 14 N70-34158 * #
US-PATENT-APPL-SN-949886 ..... c 33 N80-18285 * #
US-PATENT-APPL-SN-950876 ..... c 37 N80-31790 * #
US-PATENT-APPL-SN-950877 ..... c 52 N81-25660 * #
US-PATENT-APPL-SN-951422 ..... c 51 N81-14605 * #
US-PATENT-APPL-SN-951423 ..... c 48 N80-18667 * #
US-PATENT-APPL-SN-951828 ..... c 37 N80-29703 * #
US-PATENT-APPL-SN-951829 ..... c 33 N80-18287 * #
US-PATENT-APPL-SN-951830 ..... c 28 N80-28536 * #
US-PATENT-APPL-SN-95183 ..... c 08 N73-12175 * #
US-PATENT-APPL-SN-95189 ..... c 74 N77-21941 * #
US-PATENT-APPL-SN-953313 ..... c 32 N81-14187 * #
US-PATENT-APPL-SN-953314 ..... c 37 N81-14319 * #
US-PATENT-APPL-SN-953389 ..... c 74 N79-14892 * #
US-PATENT-APPL-SN-953389 ..... c 74 N80-27185 * #
US-PATENT-APPL-SN-953390 ..... c 74 N80-21138 * #
US-PATENT-APPL-SN-953391 ..... c 72 N80-33186 * #
US-PATENT-APPL-SN-956160 ..... c 32 N80-18253 * #
US-PATENT-APPL-SN-956161 ..... c 27 N79-11215 * #
US-PATENT-APPL-SN-956166 ..... c 33 N81-19393 * #
US-PATENT-APPL-SN-956168 ..... c 27 N81-25209 * #
US-PATENT-APPL-SN-956529 ..... c 35 N80-26635 * #
US-PATENT-APPL-SN-957452 ..... c 32 N80-24510 * #
US-PATENT-APPL-SN-958573 ..... c 25 N80-20334 * #
US-PATENT-APPL-SN-958575 ..... c 27 N80-24437 * #

US-PATENT-APPL-SN-961831 ..... c 33 N81-25299 * #
US-PATENT-APPL-SN-961832 ..... c 37 N81-24442 * #
US-PATENT-APPL-SN-961833 ..... c 37 N82-21587 * #
US-PATENT-APPL-SN-964009 ..... c 02 N80-20224 * #
US-PATENT-APPL-SN-964754 ..... c 33 N80-20487 * #
US-PATENT-APPL-SN-964754 ..... c 44 N81-29524 * #
US-PATENT-APPL-SN-965367 ..... c 33 N81-14221 * #
US-PATENT-APPL-SN-965368 ..... c 74 N81-17888 * #
US-PATENT-APPL-SN-969755 ..... c 05 N81-19087 * #
US-PATENT-APPL-SN-969756 ..... c 37 N81-14317 * #
US-PATENT-APPL-SN-969757 ..... c 24 N84-16262 * #
US-PATENT-APPL-SN-969759 ..... c 25 N82-11144 * #
US-PATENT-APPL-SN-969760 ..... c 39 N81-25400 * #
US-PATENT-APPL-SN-969761 ..... c 32 N82-12297 * #
US-PATENT-APPL-SN-969762 ..... c 33 N82-29539 * #
US-PATENT-APPL-SN-97112 ..... c 21 N70-34539 * #
US-PATENT-APPL-SN-971473 ..... c 23 N81-29160 * #
US-PATENT-APPL-SN-971474 ..... c 20 N82-18314 * #
US-PATENT-APPL-SN-971475 ..... c 27 N81-24257 * #
US-PATENT-APPL-SN-971596 ..... c 27 N80-32516 * #
US-PATENT-APPL-SN-972252 ..... c 35 N81-33448 * #
US-PATENT-APPL-SN-97343 ..... c 10 N72-27246 * #
US-PATENT-APPL-SN-974292 ..... c 26 N80-23419 * #
US-PATENT-APPL-SN-974471 ..... c 32 N81-14185 * #
US-PATENT-APPL-SN-974472 ..... c 37 N81-15363 * #
US-PATENT-APPL-SN-974473 ..... c 60 N81-27814 * #
US-PATENT-APPL-SN-974474 ..... c 25 N81-19242 * #
US-PATENT-APPL-SN-974475 ..... c 33 N81-17349 * #
US-PATENT-APPL-SN-974476 ..... c 52 N81-14613 * #
US-PATENT-APPL-SN-97472 ..... c 14 N73-28487 * #
US-PATENT-APPL-SN-97829 ..... c 06 N73-13129 * #
US-PATENT-APPL-SN-98517 ..... c 09 N72-25250 * #
US-PATENT-APPL-SN-98640 ..... c 09 N72-25253 * #
US-PATENT-APPL-SN-98772 ..... c 08 N73-12176 * #
US-PATENT-APPL-SN-98773 ..... c 15 N72-22486 * #
US-PATENT-APPL-SN-98774 ..... c 14 N73-19419 * #
US-PATENT-APPL-SN-98798 ..... c 09 N73-13209 * #
US-PATENT-APPL-SN-99174 ..... c 14 N72-33377 * #
US-PATENT-APPL-SN-99175 ..... c 09 N72-25258 * #
US-PATENT-APPL-SN-99198 ..... c 31 N73-32749 * #
US-PATENT-APPL-SN-99201 ..... c 15 N73-25512 * #
US-PATENT-APPL-SN-99201 ..... c 37 N74-20063 * #
US-PATENT-APPL-SN-99524 ..... c 06 N72-27144 * #
US-PATENT-APPL-SN-99901 ..... c 37 N74-10474 * #
US-PATENT-APPL-SN-99903 ..... c 11 N73-12265 * #

US-PATENT-CASE-179-146-R ..... c 05 N83-27975 * #
US-PATENT-CASE-179-179 ..... c 05 N83-27975 * #
US-PATENT-CASE-244-121 ..... c 05 N83-19737 * #
US-PATENT-CASE-244-129.4 ..... c 05 N83-19737 * #
US-PATENT-CASE-292-254 ..... c 05 N83-19737 * #
US-PATENT-CASE-356-129 ..... c 36 N83-29680 * #
US-PATENT-CASE-367-906 ..... c 05 N83-27975 * #
US-PATENT-CASE-368-10 ..... c 35 N83-29651 * #
US-PATENT-CASE-368-118 ..... c 35 N83-29651 * #
US-PATENT-CASE-368-119 ..... c 35 N83-29651 * #
US-PATENT-CASE-368-120 ..... c 35 N83-29651 * #
US-PATENT-CASE-368-6 ..... c 35 N83-29651 * #
US-PATENT-CASE-368-9 ..... c 35 N83-29651 * #

US-PATENT-CLAS-165-27 ..... c 34 N83-34221 * #
US-PATENT-CLAS-361-90 ..... c 33 N83-34190 * #

US-PATENT-CLASS-D12-76 ..... c 05 N75-25914 * #
US-PATENT-CLASS-D71-1 ..... c 05 N74-10907 * #

US-PATENT-CLASS-100-299 ..... c 15 N72-20446 * #
US-PATENT-CLASS-100-8 ..... c 33 N74-17928 * #
US-PATENT-CLASS-101-395 ..... c 35 N84-22930 * #
US-PATENT-CLASS-101-407BP .. c 37 N84-12491 * #
US-PATENT-CLASS-102-101 ..... c 28 N71-26779 *
US-PATENT-CLASS-102-103 ..... c 20 N78-32179 * #
US-PATENT-CLASS-102-105 ..... c 33 N72-17947 * #
US-PATENT-CLASS-102-105 ..... c 33 N72-25911 * #
US-PATENT-CLASS-102-105 ..... c 33 N73-25952 * #
US-PATENT-CLASS-102-105 ..... c 27 N74-27037 * #
US-PATENT-CLASS-102-105 ..... c 24 N79-25142 * #
US-PATENT-CLASS-102-21.6 ..... c 46 N79-22679 * #
US-PATENT-CLASS-102-28EB .... c 28 N74-27425 * #
US-PATENT-CLASS-102-28R ..... c 28 N79-11231 * #
US-PATENT-CLASS-102-289 ..... c 27 N82-24339 * #
US-PATENT-CLASS-102-34.4 ..... c 07 N72-25171 * #
US-PATENT-CLASS-102-378 ..... c 01 N83-35992 * #
US-PATENT-CLASS-102-39 ..... c 20 N78-24275 * #
US-PATENT-CLASS-102-49.3 ..... c 20 N77-17143 * #
US-PATENT-CLASS-102-49.5 ..... c 31 N71-15687 *
US-PATENT-CLASS-102-49.5 ..... c 15 N71-22874 *
US-PATENT-CLASS-102-49.5 ..... c 31 N71-23008 *
US-PATENT-CLASS-102-49.5 ..... c 31 N73-14853 * #
US-PATENT-CLASS-102-49.7 ..... c 28 N73-24784 * #
US-PATENT-CLASS-102-49.7 ..... c 20 N78-24275 * #
US-PATENT-CLASS-102-49.8 ..... c 28 N73-24784 * #
US-PATENT-CLASS-102-49 ..... c 33 N70-36846 * #
US-PATENT-CLASS-102-49 ..... c 28 N70-38181 * #
US-PATENT-CLASS-102-49 ..... c 03 N70-39930 * #
US-PATENT-CLASS-102-49 ..... c 15 N70-41679 * #
US-PATENT-CLASS-102-49 ..... c 28 N70-41967 * #
US-PATENT-CLASS-102-49 ..... c 31 N71-10582 * #
US-PATENT-CLASS-102-49 ..... c 15 N71-13789 * #
US-PATENT-CLASS-102-49 ..... c 31 N71-15692 *
US-PATENT-CLASS-102-49 ..... c 31 N71-17730 *
US-PATENT-CLASS-102-504 ..... c 15 N82-24272 * #
US-PATENT-CLASS-102-50 ..... c 31 N71-24750 *
US-PATENT-CLASS-102-56R ..... c 02 N81-14968 * #
US-PATENT-CLASS-102-70.2A ... c 28 N74-27425 * #
US-PATENT-CLASS-102-70.2R ... c 19 N74-15089 * #
US-PATENT-CLASS-102-70.2 ..... c 09 N71-18599 *
US-PATENT-CLASS-102-70-2R ... c 28 N74-27425 * #
US-PATENT-CLASS-102-70R ..... c 20 N78-24275 * #
US-PATENT-CLASS-102-90 ..... c 15 N74-27360 * #
US-PATENT-CLASS-102-92.1 ..... c 02 N81-14968 * #
US-PATENT-CLASS-102-95 ..... c 11 N73-32152 * #
US-PATENT-CLASS-102-99 ..... c 28 N77-10213 * #
US-PATENT-CLASS-103.5R ..... c 04 N73-27052 * #
US-PATENT-CLASS-103-1 ..... c 26 N71-21824 *
US-PATENT-CLASS-103-37 ..... c 28 N71-14058 * #
US-PATENT-CLASS-103-48 ..... c 15 N71-24042 *
US-PATENT-CLASS-104-DIG.4 .... c 44 N84-23019 * #
US-PATENT-CLASS-104-138R .... c 85 N74-34672 * #
US-PATENT-CLASS-104-139 ..... c 05 N71-28619 *
US-PATENT-CLASS-104-1 ..... c 05 N71-28619 *
US-PATENT-CLASS-104-23FS .... c 85 N74-34672 * #
US-PATENT-CLASS-104-281 ..... c 37 N85-20337 * #
US-PATENT-CLASS-104-282 ..... c 37 N83-32067 * #
US-PATENT-CLASS-104-284 ..... c 37 N85-20337 * #
US-PATENT-CLASS-104-290 ..... c 37 N83-32067 * #
US-PATENT-CLASS-104-83 ..... c 37 N82-21587 * #
US-PATENT-CLASS-105-1A ..... c 37 N82-21587 * #
US-PATENT-CLASS-105-161 ..... c 43 N79-26439 * #
US-PATENT-CLASS-105-171 ..... c 37 N82-21587 * #
US-PATENT-CLASS-105-180 ..... c 37 N82-21587 * #
US-PATENT-CLASS-105-2R ..... c 85 N82-33288 * #
US-PATENT-CLASS-105-218R .... c 37 N82-21587 * #
US-PATENT-CLASS-106-1.2 ..... c 44 N79-31752 * #
US-PATENT-CLASS-106-13 ..... c 23 N75-14834 * #
US-PATENT-CLASS-106-15FP .... c 27 N74-27037 * #
US-PATENT-CLASS-106-15FP .... c 27 N76-24405 * #
US-PATENT-CLASS-106-15FP .... c 24 N78-15180 * #
US-PATENT-CLASS-106-15R ..... c 23 N75-14834 * #
US-PATENT-CLASS-106-15 ..... c 18 N71-14014 * #
US-PATENT-CLASS-106-15 ..... c 18 N71-15469 *
US-PATENT-CLASS-106-18.16 .... c 27 N82-16238 * #
US-PATENT-CLASS-106-18.24 .... c 27 N82-16238 * #
US-PATENT-CLASS-106-197 ..... c 25 N82-29370 * #
US-PATENT-CLASS-106-1 ..... c 44 N79-31752 * #
US-PATENT-CLASS-106-209 ..... c 05 N72-25120 * #
US-PATENT-CLASS-106-286 ..... c 18 N72-22566 * #
US-PATENT-CLASS-106-287SB .. c 23 N75-14834 * #
US-PATENT-CLASS-106-288B .... c 18 N72-22566 * #
US-PATENT-CLASS-106-292 ..... c 18 N72-17532 * #
US-PATENT-CLASS-106-292 ..... c 27 N77-30237 * #
US-PATENT-CLASS-106-296 ..... c 18 N71-26772 *
US-PATENT-CLASS-106-296 ..... c 27 N77-30237 * #
US-PATENT-CLASS-106-296 ..... c 24 N79-14156 * #
US-PATENT-CLASS-106-299 ..... c 18 N72-17532 * #
US-PATENT-CLASS-106-299 ..... c 27 N77-30237 * #
US-PATENT-CLASS-106-306 ..... c 24 N76-24363 * #
US-PATENT-CLASS-106-39.5 ..... c 27 N78-19302 * #
US-PATENT-CLASS-106-39R ..... c 18 N73-14584 * #
US-PATENT-CLASS-106-39 ..... c 26 N72-28762 * #
US-PATENT-CLASS-106-40 ..... c 18 N71-22998 *
US-PATENT-CLASS-106-43 ..... c 27 N78-17206 * #
US-PATENT-CLASS-106-43 ..... c 37 N81-25371 * #
US-PATENT-CLASS-106-46 ..... c 26 N72-28762 * #
US-PATENT-CLASS-106-48 ..... c 27 N75-27160 * #
US-PATENT-CLASS-106-48 ..... c 27 N78-32260 * #
US-PATENT-CLASS-106-50 ..... c 27 N82-29452 * #
US-PATENT-CLASS-106-50 ..... c 27 N82-29454 * #
US-PATENT-CLASS-106-50 ..... c 27 N82-29455 * #
US-PATENT-CLASS-106-52 ..... c 37 N74-21063 * #
US-PATENT-CLASS-106-52 ..... c 27 N82-29451 * #
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US-PATENT-CLASS-106-52 ..... c 27 N82-29455 * #
US-PATENT-CLASS-106-54 ..... c 27 N75-27160 * #
US-PATENT-CLASS-106-54 ..... c 27 N76-22377 * #
US-PATENT-CLASS-106-54 ..... c 27 N76-23426 * #
US-PATENT-CLASS-106-54 ..... c 27 N78-32260 * #
US-PATENT-CLASS-106-54 ..... c 27 N82-29452 * #
US-PATENT-CLASS-106-54 ..... c 27 N82-29454 * #
US-PATENT-CLASS-106-55 ..... c 18 N73-14584 * #
US-PATENT-CLASS-106-58 ..... c 18 N73-14584 * #
US-PATENT-CLASS-106-63 ..... c 18 N73-14584 * #
US-PATENT-CLASS-106-65 ..... c 27 N78-19302 * #
US-PATENT-CLASS-106-73.5 ..... c 27 N78-19302 * #
US-PATENT-CLASS-106-74 ..... c 18 N69-39979 * #
US-PATENT-CLASS-106-74 ..... c 24 N79-31347 * #
US-PATENT-CLASS-106-84 ..... c 18 N71-24183 *
US-PATENT-CLASS-106-84 ..... c 18 N71-24184 *
US-PATENT-CLASS-106-84 ..... c 18 N72-22566 * #
US-PATENT-CLASS-106-84 ..... c 18 N72-23581 * #
US-PATENT-CLASS-106-84 ..... c 24 N79-14156 * #
US-PATENT-CLASS-106-84 ..... c 24 N79-31347 * #
US-PATENT-CLASS-106-88 ..... c 18 N71-16124 *
US-PATENT-CLASS-108-136 ..... c 09 N75-12968 * #
US-PATENT-CLASS-109-49.5 ..... c 31 N81-19343 * #
US-PATENT-CLASS-109-58.5 ..... c 31 N81-19343 * #
US-PATENT-CLASS-110-186 ..... c 25 N84-16276 * #
US-PATENT-CLASS-110-218 ..... c 31 N81-15154 * #
US-PATENT-CLASS-110-229 ..... c 31 N81-15154 * #
US-PATENT-CLASS-110-232 ..... c 31 N81-15154 * #
US-PATENT-CLASS-110-234 ..... c 25 N82-11144 * #
US-PATENT-CLASS-110-245 ..... c 25 N82-11144 * #
US-PATENT-CLASS-110-255 ..... c 25 N82-11144 * #
US-PATENT-CLASS-110-262 ..... c 25 N84-16276 * #
US-PATENT-CLASS-110-263 ..... c 25 N84-16276 * #
US-PATENT-CLASS-110-265 ..... c 25 N84-16276 * #
US-PATENT-CLASS-110-266 ..... c 25 N82-11144 * #
US-PATENT-CLASS-110-343 ..... c 31 N81-15154 * #
US-PATENT-CLASS-110-347 ..... c 31 N81-15154 * #
US-PATENT-CLASS-112-402 ..... c 18 N71-26285 *
US-PATENT-CLASS-113-116 ..... c 15 N71-15597 * #
US-PATENT-CLASS-114-122 ..... c 02 N73-26006 * #
US-PATENT-CLASS-114-16.6 ..... c 37 N76-22540 * #
US-PATENT-CLASS-114-66.5 ..... c 12 N70-33305 *
US-PATENT-CLASS-115-103.5 .... c 51 N75-13502 * #
US-PATENT-CLASS-116-114.5 .... c 35 N75-25122 * #
US-PATENT-CLASS-116-114AH .. c 14 N72-25411 * #
US-PATENT-CLASS-116-114AH .. c 35 N75-33367 * #
US-PATENT-CLASS-116-117 ..... c 14 N70-42074 * #
US-PATENT-CLASS-117-104 ..... c 18 N71-26100 *
US-PATENT-CLASS-117-105.2 .... c 37 N74-11301 * #
US-PATENT-CLASS-117-105.2 .... c 24 N75-33181 * #
US-PATENT-CLASS-117-105.5 .... c 15 N73-32360 * #
US-PATENT-CLASS-117-105 ..... c 15 N73-32360 * #
US-PATENT-CLASS-117-106A .... c 70 N74-13436 * #
US-PATENT-CLASS-117-106A .... c 37 N75-15992 * #
US-PATENT-CLASS-117-106A .... c 25 N75-26043 * #
US-PATENT-CLASS-117-106 ..... c 33 N71-14032 * #
US-PATENT-CLASS-117-107.2 .... c 25 N75-26043 * #
US-PATENT-CLASS-117-107 ..... c 15 N72-25447 * #
US-PATENT-CLASS-117-107 ..... c 76 N79-16678 * #
US-PATENT-CLASS-117-119 ..... c 18 N71-16105 *
US-PATENT-CLASS-117-119 ..... c 76 N79-16678 * #
US-PATENT-CLASS-117-124C .... c 15 N72-25452 * #
US-PATENT-CLASS-117-124F .... c 23 N75-14834 * #
US-PATENT-CLASS-117-126GM . c 37 N75-26371 * #
US-PATENT-CLASS-117-126GR . c 27 N74-23125 * #
US-PATENT-CLASS-117-126R .... c 37 N75-26371 * #
US-PATENT-CLASS-117-129 ..... c 37 N74-21063 * #
US-PATENT-CLASS-117-129 ..... c 27 N75-27160 * #
US-PATENT-CLASS-117-130R .... c 15 N73-32360 * #
US-PATENT-CLASS-117-132B .... c 27 N74-23125 * #
US-PATENT-CLASS-117-132 ..... c 06 N72-25150 * #
US-PATENT-CLASS-117-135.5 .... c 23 N75-14834 * #
US-PATENT-CLASS-117-138.8R . c 15 N73-32360 * #
US-PATENT-CLASS-117-151 ..... c 15 N73-32360 * #
US-PATENT-CLASS-117-152 ..... c 15 N72-25452 * #
US-PATENT-CLASS-117-16R ..... c 15 N72-25452 * #
US-PATENT-CLASS-117-160R .... c 15 N73-32360 * #
US-PATENT-CLASS-117-161P .... c 06 N73-27980 * #
US-PATENT-CLASS-117-161UA .. c 25 N75-12087 * #
US-PATENT-CLASS-117-161UN . c 06 N73-27980 * #
US-PATENT-CLASS-117-161UN . c 27 N74-23125 * #
US-PATENT-CLASS-117-161UN . c 25 N75-12087 * #
US-PATENT-CLASS-117-161UZ .. c 25 N75-12087 * #
US-PATENT-CLASS-117-161 ..... c 06 N72-25150 * #
US-PATENT-CLASS-117-2R ..... c 32 N74-27612 * #
US-PATENT-CLASS-117-200 ..... c 09 N72-25259 * #
US-PATENT-CLASS-117-201 ..... c 15 N69-21460 * #
US-PATENT-CLASS-117-201 ..... c 18 N71-16046 *
US-PATENT-CLASS-117-201 ..... c 03 N72-24037 * #
US-PATENT-CLASS-117-201 ..... c 25 N75-26043 * #
US-PATENT-CLASS-117-211 ..... c 15 N72-25447 * #
US-PATENT-CLASS-117-212 ..... c 09 N71-20705 *
US-PATENT-CLASS-117-212 ..... c 15 N71-29032 *
US-PATENT-CLASS-117-212 ..... c 26 N72-28762 * #
US-PATENT-CLASS-117-217 ..... c 15 N72-25447 * #
US-PATENT-CLASS-117-217 ..... c 26 N72-28762 * #
US-PATENT-CLASS-117-21 ..... c 18 N69-39895 * #
US-PATENT-CLASS-117-224 ..... c 15 N71-28582 *
US-PATENT-CLASS-117-228 ..... c 06 N73-27980 * #
US-PATENT-CLASS-117-234 ..... c 76 N79-16678 * #
US-PATENT-CLASS-117-235 ..... c 76 N79-16678 * #
US-PATENT-CLASS-117-237 ..... c 76 N79-16678 * #
US-PATENT-CLASS-117-239 ..... c 76 N79-16678 * #
US-PATENT-CLASS-117-240 ..... c 76 N79-16678 * #
US-PATENT-CLASS-117-33.3 ..... c 70 N74-13436 * #
US-PATENT-CLASS-117-35R ..... c 06 N73-13128 * #
US-PATENT-CLASS-117-35 ..... c 32 N79-19186 * #
US-PATENT-CLASS-117-37 ..... c 15 N72-25452 * #
US-PATENT-CLASS-117-38 ..... c 24 N75-33181 * #
US-PATENT-CLASS-117-43 ..... c 31 N79-21227 * #
US-PATENT-CLASS-117-45 ..... c 74 N74-20008 * #
US-PATENT-CLASS-117-46FS .... c 24 N75-33181 * #
US-PATENT-CLASS-117-46 ..... c 15 N71-16077 *
US-PATENT-CLASS-117-47R ..... c 15 N72-25452 * #
US-PATENT-CLASS-117-50 ..... c 15 N71-15610 * #

US-PATENT-CLASS-117-62 ..... c 15 N72-25447 * #
US-PATENT-CLASS-117-62 ..... c 15 N72-25452 * #
US-PATENT-CLASS-117-65.2 ..... c 18 N71-10772 * #
US-PATENT-CLASS-117-66 ..... c 15 N73-32360 * #
US-PATENT-CLASS-117-69 ..... c 18 N70-36400 * #
US-PATENT-CLASS-117-69 ..... c 15 N71-16075 *
US-PATENT-CLASS-117-6 ..... c 14 N71-20461 *
US-PATENT-CLASS-117-6 ..... c 27 N81-15104 * #
US-PATENT-CLASS-117-72 ..... c 35 N75-25122 * #
US-PATENT-CLASS-117-8.5 ..... c 24 N75-33181 * #
US-PATENT-CLASS-117-93.1GD c 25 N75-12087 * #
US-PATENT-CLASS-117-93.16D . c 15 N72-25447 * #
US-PATENT-CLASS-117-93.3 ..... c 15 N72-25452 * #
US-PATENT-CLASS-117-93.3 ..... c 37 N75-15992 * #
US-PATENT-CLASS-117-95 ..... c 24 N74-19769 * #
US-PATENT-CLASS-117-95 ..... c 36 N75-15029 * #
US-PATENT-CLASS-117-97 ..... c 36 N75-15029 * #
US-PATENT-CLASS-118-11 ..... c 15 N71-17647 *
US-PATENT-CLASS-118-300 ..... c 71 N84-16940 * #
US-PATENT-CLASS-118-308 ..... c 17 N71-24911 *
US-PATENT-CLASS-118-313 ..... c 51 N77-27677 * #
US-PATENT-CLASS-118-320 ..... c 37 N82-24492 * #
US-PATENT-CLASS-118-423 ..... c 37 N82-12441 * #
US-PATENT-CLASS-118-43 ..... c 25 N75-29192 * #
US-PATENT-CLASS-118-48 ..... c 25 N75-26043 * #
US-PATENT-CLASS-118-49.1 ..... c 15 N72-32487 * #
US-PATENT-CLASS-118-49.1 ..... c 31 N75-12161 * #
US-PATENT-CLASS-118-49.1 ..... c 25 N75-26043 * #
US-PATENT-CLASS-118-49.5 ..... c 09 N71-26701 *
US-PATENT-CLASS-118-49 ..... c 25 N79-28253 * #
US-PATENT-CLASS-118-50.1 ..... c 71 N84-16940 * #
US-PATENT-CLASS-118-50.1 ..... c 36 N84-22944 * #
US-PATENT-CLASS-118-500 ..... c 37 N78-17383 * #
US-PATENT-CLASS-118-500 ..... c 37 N82-12441 * #
US-PATENT-CLASS-118-500 ..... c 37 N82-24492 * #
US-PATENT-CLASS-118-500 ..... c 71 N84-16940 * #
US-PATENT-CLASS-118-503 ..... c 37 N82-24492 * #
US-PATENT-CLASS-118-505 ..... c 37 N82-24492 * #
US-PATENT-CLASS-118-50 ..... c 37 N78-17383 * #
US-PATENT-CLASS-118-50 ..... c 37 N81-33482 * #
US-PATENT-CLASS-118-50 ..... c 71 N84-16940 * #
US-PATENT-CLASS-118-52 ..... c 37 N81-33482 * #
US-PATENT-CLASS-118-57 ..... c 71 N84-16940 * #
US-PATENT-CLASS-118-624 ..... c 36 N84-22944 * #
US-PATENT-CLASS-118-62 ..... c 71 N84-16940 * #
US-PATENT-CLASS-118-641 ..... c 36 N84-22944 * #
US-PATENT-CLASS-118-6 ..... c 51 N77-27677 * #
US-PATENT-CLASS-118-7 ..... c 51 N77-27677 * #
US-PATENT-CLASS-118-9 ..... c 51 N77-27677 * #
US-PATENT-CLASS-119-15 ..... c 11 N71-22875 *
US-PATENT-CLASS-119-17 ..... c 51 N81-32829 * #
US-PATENT-CLASS-119-18 ..... c 51 N81-32829 * #
US-PATENT-CLASS-119-29 ..... c 51 N78-27733 * #
US-PATENT-CLASS-119-51.11 .... c 35 N78-19466 * #
US-PATENT-CLASS-119-51.13 .... c 51 N74-15778 * #
US-PATENT-CLASS-119-51.5 ..... c 51 N74-15778 * #
US-PATENT-CLASS-119-51R ..... c 51 N74-15778 * #
US-PATENT-CLASS-119-52AF .... c 51 N74-15778 * #
US-PATENT-CLASS-119-54 ..... c 51 N74-15778 * #
US-PATENT-CLASS-119-72.5 ..... c 35 N78-19466 * #
US-PATENT-CLASS-119-96 ..... c 05 N71-28619 *
US-PATENT-CLASS-121-38 ..... c 15 N70-35409 * #
US-PATENT-CLASS-121-38 ..... c 02 N71-29128 *
US-PATENT-CLASS-122-32 ..... c 33 N72-20915 * #
US-PATENT-CLASS-122-366 ..... c 34 N85-29180 * #
US-PATENT-CLASS-122-4D ..... c 25 N82-11144 * #
US-PATENT-CLASS-123-DIG.12 . c 37 N76-18457 * #
US-PATENT-CLASS-123-DIG.12 . c 44 N78-33526 * #
US-PATENT-CLASS-123-DIG.12 . c 28 N80-10374 * #
US-PATENT-CLASS-123-DIG.8 .... c 37 N77-31497 * #
US-PATENT-CLASS-123-1A ..... c 44 N76-29700 * #
US-PATENT-CLASS-123-1A ..... c 44 N78-33526 * #
US-PATENT-CLASS-123-102 ..... c 11 N72-20244 * #
US-PATENT-CLASS-123-119A .... c 37 N77-31497 * #
US-PATENT-CLASS-123-119E .... c 37 N76-18457 * #
US-PATENT-CLASS-123-120 ..... c 37 N76-18457 * #
US-PATENT-CLASS-123-121 ..... c 37 N76-18457 * #
US-PATENT-CLASS-123-122AB .. c 28 N72-22772 * #
US-PATENT-CLASS-123-122AB .. c 37 N77-31497 * #
US-PATENT-CLASS-123-122E .... c 07 N77-23106 * #
US-PATENT-CLASS-123-122E .... c 37 N78-10467 * #
US-PATENT-CLASS-123-148CB .. c 33 N77-28385 * #
US-PATENT-CLASS-123-148DC .. c 37 N79-11405 * #
US-PATENT-CLASS-123-148E .... c 33 N77-28385 * #
US-PATENT-CLASS-123-148E .... c 37 N79-11405 * #
US-PATENT-CLASS-123-179R .... c 28 N80-10374 * #
US-PATENT-CLASS-123-197R .... c 37 N83-36483 * #
US-PATENT-CLASS-123-37 ..... c 37 N77-31497 * #
US-PATENT-CLASS-123-3 ..... c 44 N76-18642 * #
US-PATENT-CLASS-123-3 ..... c 44 N76-29700 * #
US-PATENT-CLASS-123-3 ..... c 44 N77-10636 * #
US-PATENT-CLASS-123-3 ..... c 37 N77-31497 * #
US-PATENT-CLASS-123-3 ..... c 44 N78-33526 * #
US-PATENT-CLASS-123-3 ..... c 28 N80-10374 * #
US-PATENT-CLASS-123-41.33 .... c 07 N77-23106 * #
US-PATENT-CLASS-123-41.33 .... c 37 N78-10467 * #
US-PATENT-CLASS-123-59E ..... c 37 N77-31497 * #
US-PATENT-CLASS-123-78E ..... c 37 N83-36483 * #
US-PATENT-CLASS-123-89A ..... c 37 N76-18457 * #
US-PATENT-CLASS-124-11R ..... c 75 N76-17951 * #
US-PATENT-CLASS-124-1 ..... c 75 N76-17951 * #
US-PATENT-CLASS-124-56 ..... c 18 N86-20469 * #
US-PATENT-CLASS-124-6 ..... c 09 N77-19076 * #
US-PATENT-CLASS-125-13R ..... c 37 N85-21650 * #
US-PATENT-CLASS-125-15 ..... c 37 N85-21650 * #
US-PATENT-CLASS-125-1 ..... c 46 N74-23069 * #
US-PATENT-CLASS-125-20 ..... c 31 N83-27058 * #
US-PATENT-CLASS-125-21 ..... c 37 N80-29703 * #
US-PATENT-CLASS-125-23R ..... c 76 N80-18951 * #
US-PATENT-CLASS-125-23R ..... c 37 N82-32730 * #
US-PATENT-CLASS-125-3 ..... c 46 N74-23069 * #
US-PATENT-CLASS-126-DIG.1 .... c 44 N85-30474 * #
US-PATENT-CLASS-126-263 ..... c 44 N77-32581 * #
US-PATENT-CLASS-126-263 ..... c 44 N78-17460 * #
US-PATENT-CLASS-126-263 ..... c 44 N80-20808 * #
US-PATENT-CLASS-126-263 ..... c 35 N85-29214 * #
US-PATENT-CLASS-126-270 ..... c 09 N70-40234 * #
US-PATENT-CLASS-126-270 ..... c 03 N70-41580 * #
US-PATENT-CLASS-126-270 ..... c 34 N74-23039 * #
US-PATENT-CLASS-126-270 ..... c 44 N76-14595 * #
US-PATENT-CLASS-126-270 ..... c 44 N76-23675 * #
US-PATENT-CLASS-126-270 ..... c 44 N76-24696 * #
US-PATENT-CLASS-126-270 ..... c 35 N77-20401 * #
US-PATENT-CLASS-126-270 ..... c 44 N77-32582 * #
US-PATENT-CLASS-126-270 ..... c 44 N78-15560 * #
US-PATENT-CLASS-126-270 ..... c 44 N78-19599 * #
US-PATENT-CLASS-126-270 ..... c 44 N78-31526 * #
US-PATENT-CLASS-126-270 ..... c 44 N79-11471 * #
US-PATENT-CLASS-126-270 ..... c 44 N79-14526 * #
US-PATENT-CLASS-126-270 ..... c 44 N79-23481 * #
US-PATENT-CLASS-126-270 ..... c 44 N79-24432 * #
US-PATENT-CLASS-126-271 ..... c 44 N75-32581 * #
US-PATENT-CLASS-126-271 ..... c 44 N76-14602 * #
US-PATENT-CLASS-126-271 ..... c 44 N76-22657 * #
US-PATENT-CLASS-126-271 ..... c 44 N76-24696 * #
US-PATENT-CLASS-126-271 ..... c 35 N77-20401 * #
US-PATENT-CLASS-126-271 ..... c 44 N77-32582 * #
US-PATENT-CLASS-126-271 ..... c 44 N78-10554 * #
US-PATENT-CLASS-126-271 ..... c 44 N78-17460 * #
US-PATENT-CLASS-126-271 ..... c 44 N78-31525 * #
US-PATENT-CLASS-126-271 ..... c 44 N78-31526 * #
US-PATENT-CLASS-126-271 ..... c 44 N79-11471 * #
US-PATENT-CLASS-126-271 ..... c 44 N79-14526 * #
US-PATENT-CLASS-126-271 ..... c 44 N79-14529 * #
US-PATENT-CLASS-126-271 ..... c 44 N79-18443 * #
US-PATENT-CLASS-126-271 ..... c 44 N79-23481 * #
US-PATENT-CLASS-126-271 ..... c 44 N79-24433 * #
US-PATENT-CLASS-126-400 ..... c 44 N78-15560 * #
US-PATENT-CLASS-126-400 ..... c 44 N79-24433 * #
US-PATENT-CLASS-126-400 ..... c 44 N85-30474 * #
US-PATENT-CLASS-126-415 ..... c 44 N84-34792 * #
US-PATENT-CLASS-126-415 ..... c 44 N85-30474 * #
US-PATENT-CLASS-126-417 ..... c 44 N80-16452 * #
US-PATENT-CLASS-126-417 ..... c 34 N84-22903 * #
US-PATENT-CLASS-126-418 ..... c 44 N84-28204 * #
US-PATENT-CLASS-126-419 ..... c 44 N80-20810 * #
US-PATENT-CLASS-126-419 ..... c 44 N81-17518 * #
US-PATENT-CLASS-126-419 ..... c 44 N84-28203 * #
US-PATENT-CLASS-126-419 ..... c 44 N85-30474 * #
US-PATENT-CLASS-126-422 ..... c 44 N82-18686 * #
US-PATENT-CLASS-126-429 ..... c 44 N82-18686 * #
US-PATENT-CLASS-126-430 ..... c 44 N82-18686 * #
US-PATENT-CLASS-126-434 ..... c 44 N80-20810 * #
US-PATENT-CLASS-126-437 ..... c 44 N80-20810 * #
US-PATENT-CLASS-126-438 ..... c 44 N80-14473 * #
US-PATENT-CLASS-126-438 ..... c 44 N82-16475 * #
US-PATENT-CLASS-126-438 ..... c 44 N84-28203 * #
US-PATENT-CLASS-126-438 ..... c 44 N84-28204 * #
US-PATENT-CLASS-126-440 ..... c 44 N84-28204 * #
US-PATENT-CLASS-126-442 ..... c 44 N80-14473 * #
US-PATENT-CLASS-126-451 ..... c 44 N84-28203 * #
US-PATENT-CLASS-126-900 ..... c 44 N85-30474 * #
US-PATENT-CLASS-126-901 ..... c 44 N80-16452 * #
US-PATENT-CLASS-126-901 ..... c 44 N83-34449 * #
US-PATENT-CLASS-126-91A ..... c 25 N79-11151 * #
US-PATENT-CLASS-128.2.06E .... c 05 N75-24716 * #
US-PATENT-CLASS-128.2.07 ..... c 52 N79-21750 * #
US-PATENT-CLASS-128-DIG.12 . c 37 N77-28487 * #
US-PATENT-CLASS-128-DIG.12 . c 51 N81-14605 * #
US-PATENT-CLASS-128-DIG.13 . c 52 N83-27577 * #
US-PATENT-CLASS-128-DIG.16 . c 51 N81-14605 * #
US-PATENT-CLASS-128-DIG.20 . c 52 N76-19785 * #
US-PATENT-CLASS-128-DIG.20 . c 37 N81-17433 * #
US-PATENT-CLASS-128-DIG.25 . c 52 N81-25660 * #
US-PATENT-CLASS-128-DIG.25 . c 52 N84-11744 * #
US-PATENT-CLASS-128-DIG.26 . c 51 N81-14605 * #
US-PATENT-CLASS-128-DIG.4 .... c 05 N72-27103 * #
US-PATENT-CLASS-128-DIG.4 .... c 05 N75-24716 * #
US-PATENT-CLASS-128-DIG.4 .... c 35 N76-24525 * #
US-PATENT-CLASS-128-DIG.4 .... c 52 N77-28717 * #
US-PATENT-CLASS-128-DIG.6 .... c 51 N81-14605 * #
US-PATENT-CLASS-128-DIG.9 .... c 52 N80-16725 * #
US-PATENT-CLASS-128-DIG.9 .... c 51 N81-14605 * #
US-PATENT-CLASS-128-1.2 ..... c 52 N82-22875 * #
US-PATENT-CLASS-128-1A ..... c 05 N73-32012 * #
US-PATENT-CLASS-128-1A ..... c 54 N84-16803 * #
US-PATENT-CLASS-128-1R ..... c 52 N77-25772 * #
US-PATENT-CLASS-128-1R ..... c 52 N77-28716 * #
US-PATENT-CLASS-128-1R ..... c 52 N81-25660 * #
US-PATENT-CLASS-128-1R ..... c 52 N84-11744 * #
US-PATENT-CLASS-128-142.2 .... c 54 N76-24900 * #
US-PATENT-CLASS-128-142.5 .... c 05 N71-11190 * #
US-PATENT-CLASS-128-142.5 .... c 05 N71-11203 * #
US-PATENT-CLASS-128-142.5 .... c 05 N71-17599 *
US-PATENT-CLASS-128-142.5 .... c 05 N72-20096 * #
US-PATENT-CLASS-128-142.5 .... c 05 N73-25125 * #
US-PATENT-CLASS-128-142.7 .... c 54 N78-32721 * #
US-PATENT-CLASS-128-142R .... c 54 N80-10799 * #
US-PATENT-CLASS-128-145.8 .... c 54 N75-27761 * #
US-PATENT-CLASS-128-15R ..... c 54 N84-16803 * #
US-PATENT-CLASS-128-191R .... c 25 N74-12813 * #
US-PATENT-CLASS-128-191R .... c 54 N80-10799 * #
US-PATENT-CLASS-128-1 ..... c 05 N70-41819 * #
US-PATENT-CLASS-128-1 ..... c 05 N71-20268 *
US-PATENT-CLASS-128-2.05A ... c 52 N74-26626 * #
US-PATENT-CLASS-128-2.05A ... c 54 N75-13531 * #
US-PATENT-CLASS-128-2.05E .... c 52 N74-27566 * #
US-PATENT-CLASS-128-2.05E .... c 52 N76-29896 * #
US-PATENT-CLASS-128-2.05F .... c 14 N73-32326 * #
US-PATENT-CLASS-128-2.05P .... c 54 N75-13531 * #
US-PATENT-CLASS-128-2.05R ... c 05 N73-27941 * #
US-PATENT-CLASS-128-2.05R ... c 52 N76-29895 * #
US-PATENT-CLASS-128-2.05R ... c 52 N79-10724 * #
US-PATENT-CLASS-128-2.05S .... c 52 N74-26626 * #
US-PATENT-CLASS-128-2.05T .... c 52 N74-12778 * #
US-PATENT-CLASS-128-2.05V .... c 35 N76-24525 * #
US-PATENT-CLASS-128-2.05Z .... c 54 N75-27760 * #
US-PATENT-CLASS-128-2.05Z .... c 52 N79-18580 * #
US-PATENT-CLASS-128-2.05 ..... c 05 N70-41329 * #
US-PATENT-CLASS-128-2.05 ..... c 04 N71-23185 *
US-PATENT-CLASS-128-2.05 ..... c 05 N71-27234 *
US-PATENT-CLASS-128-2.06B ... c 05 N75-24716 * #
US-PATENT-CLASS-128-2.06E .... c 52 N76-29896 * #
US-PATENT-CLASS-128-2.06F .... c 52 N74-12778 * #
US-PATENT-CLASS-128-2.06R ... c 05 N73-27941 * #
US-PATENT-CLASS-128-2.06R ... c 52 N76-14757 * #
US-PATENT-CLASS-128-2.06 ..... c 05 N69-21925 * #
US-PATENT-CLASS-128-2.06 ..... c 05 N71-22896 *
US-PATENT-CLASS-128-2.06 ..... c 09 N71-24618 *
US-PATENT-CLASS-128-2.06 ..... c 05 N71-26293 *
US-PATENT-CLASS-128-2.07 ..... c 05 N73-32015 * #
US-PATENT-CLASS-128-2.07 ..... c 52 N74-20728 * #
US-PATENT-CLASS-128-2.08 ..... c 05 N69-21473 * #
US-PATENT-CLASS-128-2.08 ..... c 05 N73-32015 * #
US-PATENT-CLASS-128-2.08 ..... c 52 N74-20728 * #
US-PATENT-CLASS-128-2.1A ..... c 09 N72-17153 * #
US-PATENT-CLASS-128-2.1A ..... c 09 N72-22202 * #
US-PATENT-CLASS-128-2.1A ..... c 52 N74-26625 * #
US-PATENT-CLASS-128-2.1A ..... c 52 N76-14757 * #
US-PATENT-CLASS-128-2.1A ..... c 52 N76-29894 * #
US-PATENT-CLASS-128-2.1A ..... c 52 N79-18580 * #
US-PATENT-CLASS-128-2.1E ..... c 05 N72-27103 * #
US-PATENT-CLASS-128-2.1E ..... c 35 N76-24525 * #
US-PATENT-CLASS-128-2.1E ..... c 52 N77-28717 * #
US-PATENT-CLASS-128-2.1R ..... c 05 N73-26072 * #
US-PATENT-CLASS-128-2.1Z ..... c 35 N76-24525 * #
US-PATENT-CLASS-128-2.1 ..... c 05 N71-11193 * #
US-PATENT-CLASS-128-2.1 ..... c 05 N71-12346 * #
US-PATENT-CLASS-128-2.1 ..... c 05 N71-24729 *
US-PATENT-CLASS-128-2.1 ..... c 09 N71-26002 *
US-PATENT-CLASS-128-2.1 ..... c 05 N72-25120 * #
US-PATENT-CLASS-128-2F ..... c 54 N76-14804 * #
US-PATENT-CLASS-128-2H ..... c 52 N76-14757 * #
US-PATENT-CLASS-128-2H ..... c 52 N76-29894 * #
US-PATENT-CLASS-128-2H ..... c 52 N77-10780 * #
US-PATENT-CLASS-128-2H ..... c 52 N77-14736 * #
US-PATENT-CLASS-128-2N ..... c 05 N72-25122 * #
US-PATENT-CLASS-128-2N ..... c 05 N73-13114 * #
US-PATENT-CLASS-128-2P ..... c 52 N76-29894 * #
US-PATENT-CLASS-128-2R ..... c 09 N72-22202 * #
US-PATENT-CLASS-128-2R ..... c 52 N79-12694 * #
US-PATENT-CLASS-128-2S ..... c 52 N74-10975 * #
US-PATENT-CLASS-128-2S ..... c 52 N74-27864 * #
US-PATENT-CLASS-128-2S ..... c 33 N75-31329 * #
US-PATENT-CLASS-128-2S ..... c 33 N76-19338 * #
US-PATENT-CLASS-128-2S ..... c 52 N76-29895 * #
US-PATENT-CLASS-128-2S ..... c 52 N76-29896 * #
US-PATENT-CLASS-128-2V ..... c 52 N74-20726 * #
US-PATENT-CLASS-128-2V ..... c 35 N75-12271 * #
US-PATENT-CLASS-128-2V ..... c 54 N75-27760 * #
US-PATENT-CLASS-128-2V ..... c 52 N79-14751 * #
US-PATENT-CLASS-128-2V ..... c 52 N79-18580 * #
US-PATENT-CLASS-128-203 ..... c 54 N76-24900 * #
US-PATENT-CLASS-128-204.18 .. c 51 N81-14605 * #
US-PATENT-CLASS-128-206F ..... c 14 N73-24473 * #
US-PATENT-CLASS-128-207.14 .. c 51 N81-14605 * #
US-PATENT-CLASS-128-207.28 .. c 51 N81-14605 * #
US-PATENT-CLASS-128-212 ..... c 54 N80-10799 * #

US-PATENT-CLASS-128-214D .... c 52 N79-14749 * #
US-PATENT-CLASS-128-214E ..... c 52 N74-22771 * #
US-PATENT-CLASS-128-214F ..... c 37 N77-28487 * #
US-PATENT-CLASS-128-230 ..... c 52 N75-33640 * #
US-PATENT-CLASS-128-236 ..... c 51 N81-14605 * #
US-PATENT-CLASS-128-24-A ..... c 52 N84-34913 * #
US-PATENT-CLASS-128-24A ..... c 05 N73-27062 * #
US-PATENT-CLASS-128-24A ..... c 54 N75-27760 * #
US-PATENT-CLASS-128-24 ..... c 05 N71-24738 *
US-PATENT-CLASS-128-25R ..... c 37 N74-18127 * #
US-PATENT-CLASS-128-25 ..... c 05 N71-24738 *
US-PATENT-CLASS-128-26 ..... c 52 N76-19785 * #
US-PATENT-CLASS-128-272 ..... c 15 N71-24835 *
US-PATENT-CLASS-128-272 ..... c 52 N79-14749 * #
US-PATENT-CLASS-128-275 ..... c 15 N71-24835 *
US-PATENT-CLASS-128-275 ..... c 52 N81-29763 * #
US-PATENT-CLASS-128-276 ..... c 52 N80-14684 * #
US-PATENT-CLASS-128-276 ..... c 52 N80-18690 * #
US-PATENT-CLASS-128-280 ..... c 24 N82-29362 * #
US-PATENT-CLASS-128-283 ..... c 05 N69-23192 * #
US-PATENT-CLASS-128-283 ..... c 24 N82-29362 * #
US-PATENT-CLASS-128-284 ..... c 24 N82-29362 * #
US-PATENT-CLASS-128-285 ..... c 24 N82-29362 * #
US-PATENT-CLASS-128-288 ..... c 24 N82-29362 * #
US-PATENT-CLASS-128-291 ..... c 24 N82-29362 * #
US-PATENT-CLASS-128-295 ..... c 05 N72-22093 * #
US-PATENT-CLASS-128-295 ..... c 52 N81-24711 * #
US-PATENT-CLASS-128-295 ..... c 52 N81-28740 * #
US-PATENT-CLASS-128-296 ..... c 24 N82-29362 * #
US-PATENT-CLASS-128-29 ..... c 05 N70-39922 * #
US-PATENT-CLASS-128-2 ..... c 05 N73-27062 * #
US-PATENT-CLASS-128-303B .... c 52 N83-25346 * #
US-PATENT-CLASS-128-303R .... c 52 N77-28716 * #
US-PATENT-CLASS-128-305 ..... c 05 N73-27062 * #
US-PATENT-CLASS-128-305 ..... c 52 N75-33640 * #
US-PATENT-CLASS-128-305 ..... c 52 N78-14773 * #
US-PATENT-CLASS-128-325 ..... c 52 N84-28388 * #
US-PATENT-CLASS-128-327 ..... c 52 N82-11770 * #
US-PATENT-CLASS-128-328 ..... c 52 N84-34913 * #
US-PATENT-CLASS-128-329R .... c 52 N79-27836 * #
US-PATENT-CLASS-128-346 ..... c 52 N81-25660 * #
US-PATENT-CLASS-128-346 ..... c 52 N84-11744 * #
US-PATENT-CLASS-128-346 ..... c 52 N84-28388 * #
US-PATENT-CLASS-128-348 ..... c 52 N80-16725 * #
US-PATENT-CLASS-128-379 ..... c 52 N77-14736 * #
US-PATENT-CLASS-128-38 ..... c 54 N84-16803 * #
US-PATENT-CLASS-128-400 ..... c 52 N77-14736 * #
US-PATENT-CLASS-128-402 ..... c 05 N72-20096 * #
US-PATENT-CLASS-128-402 ..... c 52 N77-14736 * #
US-PATENT-CLASS-128-410 ..... c 52 N77-28717 * #
US-PATENT-CLASS-128-417 ..... c 05 N72-25120 * #
US-PATENT-CLASS-128-417 ..... c 05 N72-27103 * #
US-PATENT-CLASS-128-418 ..... c 52 N76-29896 * #
US-PATENT-CLASS-128-418 ..... c 52 N77-14738 * #
US-PATENT-CLASS-128-419P .... c 52 N76-29896 * #
US-PATENT-CLASS-128-421 ..... c 52 N82-29863 * #
US-PATENT-CLASS-128-422 ..... c 52 N82-33996 * #
US-PATENT-CLASS-128-62A ..... c 52 N82-29862 * #
US-PATENT-CLASS-128-639 ..... c 52 N79-27836 * #
US-PATENT-CLASS-128-642 ..... c 52 N80-27072 * #
US-PATENT-CLASS-128-642 ..... c 52 N81-14612 * #
US-PATENT-CLASS-128-642 ..... c 52 N81-20703 * #
US-PATENT-CLASS-128-660 ..... c 52 N79-26771 * #
US-PATENT-CLASS-128-660 ..... c 52 N83-27578 * #
US-PATENT-CLASS-128-660 ..... c 52 N85-30618 * #
US-PATENT-CLASS-128-663 ..... c 52 N83-27578 * #
US-PATENT-CLASS-128-665 ..... c 52 N81-27783 * #
US-PATENT-CLASS-128-666 ..... c 52 N80-23969 * #
US-PATENT-CLASS-128-686 ..... c 52 N82-11770 * #
US-PATENT-CLASS-128-690 ..... c 52 N80-23969 * #
US-PATENT-CLASS-128-691 ..... c 52 N82-11770 * #
US-PATENT-CLASS-128-6 ..... c 52 N80-16725 * #
US-PATENT-CLASS-128-736 ..... c 52 N85-30618 * #
US-PATENT-CLASS-128-748 ..... c 52 N80-18691 * #
US-PATENT-CLASS-128-760 ..... c 52 N80-18690 * #
US-PATENT-CLASS-128-760 ..... c 52 N81-29763 * #
US-PATENT-CLASS-128-761 ..... c 52 N81-24711 * #
US-PATENT-CLASS-128-774 ..... c 52 N80-27072 * #
US-PATENT-CLASS-128-774 ..... c 52 N81-20703 * #
US-PATENT-CLASS-128-774 ..... c 52 N83-25346 * #
US-PATENT-CLASS-128-778 ..... c 52 N82-22875 * #
US-PATENT-CLASS-128-782 ..... c 52 N80-27072 * #
US-PATENT-CLASS-128-782 ..... c 39 N83-20280 * #
US-PATENT-CLASS-128-782 ..... c 52 N83-25346 * #
US-PATENT-CLASS-128-784 ..... c 52 N82-33996 * #
US-PATENT-CLASS-128-80-E ..... c 54 N86-22112 * #
US-PATENT-CLASS-128-80F ..... c 52 N81-25661 * #
US-PATENT-CLASS-128-804 ..... c 52 N82-33996 * #
US-PATENT-CLASS-128-89R ..... c 52 N81-25662 * #
US-PATENT-CLASS-128-903 ..... c 52 N80-18691 * #
US-PATENT-CLASS-128-92C ..... c 27 N78-17215 * #
US-PATENT-CLASS-128-92G ..... c 27 N78-17215 * #
US-PATENT-CLASS-129-16.7 ..... c 08 N71-15908 *
US-PATENT-CLASS-13-20 ..... c 11 N72-23215 * #
US-PATENT-CLASS-13-20 ..... c 12 N79-26075 * #
US-PATENT-CLASS-13-22 ..... c 12 N79-26075 * #
US-PATENT-CLASS-13-24 ..... c 12 N79-26075 * #
US-PATENT-CLASS-13-26 ..... c 33 N71-15625 *
US-PATENT-CLASS-13-26 ..... c 14 N71-23267 *
US-PATENT-CLASS-13-31 ..... c 11 N72-23215 * #
US-PATENT-CLASS-13-31 ..... c 31 N74-27900 * #
US-PATENT-CLASS-13-35 ..... c 33 N71-24145 *
US-PATENT-CLASS-134-137 ..... c 37 N82-12441 * #
US-PATENT-CLASS-134-17 ..... c 43 N81-26509 * #
US-PATENT-CLASS-134-21 ..... c 37 N76-18456 * #
US-PATENT-CLASS-134-37 ..... c 37 N76-18456 * #
US-PATENT-CLASS-134-37 ..... c 37 N85-21652 * #
US-PATENT-CLASS-135-1 ..... c 32 N70-36536 * #
US-PATENT-CLASS-136-100R .... c 03 N72-20034 * #
US-PATENT-CLASS-136-114 ..... c 44 N76-14601 * #
US-PATENT-CLASS-136-132 ..... c 03 N71-11053 * #
US-PATENT-CLASS-136-132 ..... c 03 N71-22974 *
US-PATENT-CLASS-136-133 ..... c 15 N69-24320 * #
US-PATENT-CLASS-136-133 ..... c 03 N71-23006 *
US-PATENT-CLASS-136-133 ..... c 03 N72-15986 * #
US-PATENT-CLASS-136-135 ..... c 03 N72-15986 * #
US-PATENT-CLASS-136-143 ..... c 44 N76-29699 * #
US-PATENT-CLASS-136-146 ..... c 03 N69-21337 * #
US-PATENT-CLASS-136-146 ..... c 24 N76-14204 * #
US-PATENT-CLASS-136-148 ..... c 24 N76-14204 * #
US-PATENT-CLASS-136-148 ..... c 44 N82-24645 * #
US-PATENT-CLASS-136-162 ..... c 44 N76-14601 * #
US-PATENT-CLASS-136-166 ..... c 03 N71-23336 *
US-PATENT-CLASS-136-166 ..... c 03 N72-20032 * #
US-PATENT-CLASS-136-170 ..... c 03 N71-11051 * #
US-PATENT-CLASS-136-175 ..... c 03 N72-20034 * #
US-PATENT-CLASS-136-179 ..... c 03 N70-41864 * #
US-PATENT-CLASS-136-182 ..... c 03 N71-10728 * #
US-PATENT-CLASS-136-182 ..... c 03 N71-20407 *
US-PATENT-CLASS-136-182 ..... c 03 N71-20491 *
US-PATENT-CLASS-136-182 ..... c 44 N74-27519 * #
US-PATENT-CLASS-136-182 ..... c 44 N76-14601 * #
US-PATENT-CLASS-136-202 ..... c 09 N72-12136 *
US-PATENT-CLASS-136-202 ..... c 03 N72-26031 * #
US-PATENT-CLASS-136-202 ..... c 44 N76-16612 * #
US-PATENT-CLASS-136-202 ..... c 35 N77-32454 * #
US-PATENT-CLASS-136-202 ..... c 35 N79-14346 * #
US-PATENT-CLASS-136-206 ..... c 03 N72-11062 *
US-PATENT-CLASS-136-206 ..... c 09 N72-12136 *
US-PATENT-CLASS-136-206 ..... c 44 N76-14595 * #
US-PATENT-CLASS-136-206 ..... c 44 N76-31666 * #
US-PATENT-CLASS-136-20 ..... c 44 N74-19693 * #
US-PATENT-CLASS-136-210 ..... c 44 N76-16612 * #
US-PATENT-CLASS-136-211 ..... c 35 N76-15434 * #
US-PATENT-CLASS-136-212 ..... c 35 N76-15434 * #
US-PATENT-CLASS-136-213 ..... c 14 N69-27459 * #
US-PATENT-CLASS-136-213 ..... c 34 N74-27861 * #
US-PATENT-CLASS-136-224 ..... c 14 N73-12447 * #
US-PATENT-CLASS-136-225 ..... c 14 N73-24472 * #
US-PATENT-CLASS-136-225 ..... c 35 N76-15434 * #
US-PATENT-CLASS-136-225 ..... c 44 N85-21768 * #
US-PATENT-CLASS-136-227 ..... c 09 N72-12136 *
US-PATENT-CLASS-136-228 ..... c 33 N71-15568 *
US-PATENT-CLASS-136-230 ..... c 14 N71-23039 *
US-PATENT-CLASS-136-230 ..... c 34 N74-27861 * #
US-PATENT-CLASS-136-232 ..... c 35 N77-14409 * #
US-PATENT-CLASS-136-233 ..... c 14 N72-27410 * #
US-PATENT-CLASS-136-233 ..... c 14 N73-13417 * #
US-PATENT-CLASS-136-233 ..... c 34 N74-27861 * #
US-PATENT-CLASS-136-233 ..... c 35 N77-14409 * #
US-PATENT-CLASS-136-236R .... c 35 N77-32454 * #
US-PATENT-CLASS-136-236 ..... c 35 N79-14346 * #
US-PATENT-CLASS-136-240 ..... c 35 N77-32454 * #
US-PATENT-CLASS-136-246 ..... c 44 N85-21768 * #
US-PATENT-CLASS-136-249 ..... c 44 N81-12542 * #
US-PATENT-CLASS-136-249 ..... c 44 N82-29709 * #
US-PATENT-CLASS-136-249 ..... c 44 N82-31764 * #
US-PATENT-CLASS-136-249 ..... c 44 N83-32177 * #
US-PATENT-CLASS-136-24 ..... c 09 N73-32108 * #
US-PATENT-CLASS-136-253 ..... c 44 N85-34441 * #
US-PATENT-CLASS-136-255 ..... c 44 N81-29525 * #
US-PATENT-CLASS-136-255 ..... c 44 N83-14692 * #
US-PATENT-CLASS-136-255 ..... c 33 N85-21492 * #
US-PATENT-CLASS-136-255 ..... c 44 N85-30475 * #
US-PATENT-CLASS-136-255 ..... c 76 N86-20150 * #
US-PATENT-CLASS-136-256 ..... c 44 N83-13579 * #
US-PATENT-CLASS-136-256 ..... c 44 N83-14692 * #
US-PATENT-CLASS-136-256 ..... c 44 N85-20530 * #
US-PATENT-CLASS-136-256 ..... c 44 N85-30475 * #
US-PATENT-CLASS-136-258 ..... c 44 N81-19558 * #
US-PATENT-CLASS-136-258 ..... c 44 N81-29525 * #
US-PATENT-CLASS-136-259 ..... c 44 N83-13579 * #
US-PATENT-CLASS-136-259 ..... c 44 N83-14692 * #
US-PATENT-CLASS-136-261 ..... c 44 N82-26777 * #
US-PATENT-CLASS-136-261 ..... c 44 N85-30475 * #
US-PATENT-CLASS-136-262 ..... c 44 N81-29525 * #
US-PATENT-CLASS-136-262 ..... c 76 N86-20150 * #
US-PATENT-CLASS-136-28 ..... c 03 N71-10608 * #
US-PATENT-CLASS-136-290 ..... c 44 N82-26777 * #
US-PATENT-CLASS-136-291 ..... c 44 N81-12542 * #
US-PATENT-CLASS-136-30 ..... c 44 N74-19693 * #
US-PATENT-CLASS-136-30 ..... c 44 N76-18643 * #
US-PATENT-CLASS-136-30 ..... c 44 N76-29699 * #
US-PATENT-CLASS-136-36 ..... c 44 N74-19692 * #
US-PATENT-CLASS-136-6LF ..... c 44 N76-18643 * #
US-PATENT-CLASS-136-6 ..... c 03 N71-26084 *
US-PATENT-CLASS-136-6 ..... c 03 N72-15986 * #
US-PATENT-CLASS-136-6 ..... c 44 N82-24641 * #
US-PATENT-CLASS-136-6 ..... c 44 N82-24642 * #
US-PATENT-CLASS-136-6 ..... c 44 N82-24643 * #
US-PATENT-CLASS-136-6 ..... c 44 N82-24644 * #
US-PATENT-CLASS-136-79 ..... c 03 N72-20032 * #
US-PATENT-CLASS-136-81 ..... c 03 N72-20032 * #
US-PATENT-CLASS-136-83R ..... c 03 N72-20034 * #
US-PATENT-CLASS-136-83R ..... c 44 N76-18641 * #
US-PATENT-CLASS-136-83 ..... c 03 N71-28579 *
US-PATENT-CLASS-136-86A ..... c 44 N76-27664 * #
US-PATENT-CLASS-136-86S ..... c 44 N76-18641 * #
US-PATENT-CLASS-136-86 ..... c 03 N71-11052 * #
US-PATENT-CLASS-136-86 ..... c 03 N71-20904 *
US-PATENT-CLASS-136-86 ..... c 15 N71-23022 *
US-PATENT-CLASS-136-86 ..... c 03 N71-29044 *
US-PATENT-CLASS-136-89AC .... c 44 N77-31601 * #
US-PATENT-CLASS-136-89CA .... c 44 N79-25482 * #
US-PATENT-CLASS-136-89CC .... c 44 N78-25527 * #
US-PATENT-CLASS-136-89CC .... c 44 N78-25529 * #
US-PATENT-CLASS-136-89CC .... c 44 N79-11467 * #
US-PATENT-CLASS-136-89CC .... c 44 N79-17314 * #
US-PATENT-CLASS-136-89CC .... c 44 N79-25482 * #
US-PATENT-CLASS-136-89CC .... c 44 N79-31752 * #
US-PATENT-CLASS-136-89H ..... c 44 N78-25528 * #
US-PATENT-CLASS-136-89H ..... c 44 N78-25529 * #
US-PATENT-CLASS-136-89PC .... c 44 N79-25482 * #
US-PATENT-CLASS-136-89PC .... c 44 N79-31753 * #
US-PATENT-CLASS-136-89P ..... c 44 N77-31601 * #
US-PATENT-CLASS-136-89P ..... c 44 N78-25528 * #
US-PATENT-CLASS-136-89P ..... c 44 N78-25529 * #
US-PATENT-CLASS-136-89P ..... c 44 N78-27515 * #
US-PATENT-CLASS-136-89P ..... c 44 N79-17314 * #
US-PATENT-CLASS-136-89P ..... c 44 N80-14474 * #
US-PATENT-CLASS-136-89SG .... c 44 N78-24609 * #
US-PATENT-CLASS-136-89SG .... c 44 N80-24741 * #
US-PATENT-CLASS-136-89SJ .... c 44 N78-13526 * #
US-PATENT-CLASS-136-89SJ .... c 44 N79-11467 * #
US-PATENT-CLASS-136-89SJ .... c 44 N79-14528 * #
US-PATENT-CLASS-136-89SJ .... c 44 N79-25482 * #
US-PATENT-CLASS-136-89 ..... c 03 N69-24267 * #
US-PATENT-CLASS-136-89 ..... c 03 N71-11049 * #
US-PATENT-CLASS-136-89 ..... c 03 N71-11050 * #
US-PATENT-CLASS-136-89 ..... c 03 N71-11056 * #
US-PATENT-CLASS-136-89 ..... c 03 N71-18698 *
US-PATENT-CLASS-136-89 ..... c 03 N71-19545 *
US-PATENT-CLASS-136-89 ..... c 03 N71-20492 *
US-PATENT-CLASS-136-89 ..... c 03 N71-20895 *
US-PATENT-CLASS-136-89 ..... c 26 N71-23043 *
US-PATENT-CLASS-136-89 ..... c 03 N71-23187 *
US-PATENT-CLASS-136-89 ..... c 03 N71-23449 *
US-PATENT-CLASS-136-89 ..... c 03 N71-33409 *
US-PATENT-CLASS-136-89 ..... c 03 N72-20031 * #
US-PATENT-CLASS-136-89 ..... c 03 N72-22042 * #
US-PATENT-CLASS-136-89 ..... c 31 N72-22874 * #
US-PATENT-CLASS-136-89 ..... c 03 N72-24037 * #
US-PATENT-CLASS-136-89 ..... c 09 N72-25259 * #
US-PATENT-CLASS-136-89 ..... c 03 N72-27053 * #
US-PATENT-CLASS-136-89 ..... c 09 N73-32109 * #
US-PATENT-CLASS-136-89 ..... c 44 N74-14784 * #
US-PATENT-CLASS-136-89 ..... c 44 N76-14600 * #
US-PATENT-CLASS-136-89 ..... c 44 N76-28635 * #
US-PATENT-CLASS-136-89 ..... c 44 N76-31666 * #
US-PATENT-CLASS-136-89 ..... c 44 N77-10635 * #
US-PATENT-CLASS-136-89 ..... c 44 N77-14580 * #
US-PATENT-CLASS-136-89 ..... c 44 N77-19571 * #
US-PATENT-CLASS-136-89 ..... c 44 N79-11468 * #
US-PATENT-CLASS-136-90 ..... c 44 N76-14601 * #
US-PATENT-CLASS-137-DIG.9 .... c 54 N76-24900 * #
US-PATENT-CLASS-137-101 ..... c 07 N77-23106 * #
US-PATENT-CLASS-137-104 ..... c 37 N78-10467 * #
US-PATENT-CLASS-137-110 ..... c 54 N76-24900 * #
US-PATENT-CLASS-137-116.3 .... c 37 N85-34403 * #
US-PATENT-CLASS-137-13 ..... c 15 N71-15967 *
US-PATENT-CLASS-137-13 ..... c 15 N72-33477 * #
US-PATENT-CLASS-137-14 ..... c 37 N79-33468 * #
US-PATENT-CLASS-137-15.1 ..... c 02 N74-20646 * #
US-PATENT-CLASS-137-15.1 ..... c 07 N74-31270 * #
US-PATENT-CLASS-137-15.1 ..... c 07 N75-24736 * #
US-PATENT-CLASS-137-15.1 ..... c 07 N77-18154 * #
US-PATENT-CLASS-137-15.1 ..... c 07 N79-14096 * #
US-PATENT-CLASS-137-15.1 ..... c 05 N79-24976 * #
US-PATENT-CLASS-137-15.1 ..... c 07 N81-14999 * #
US-PATENT-CLASS-137-15.2 ..... c 02 N74-20646 * #
US-PATENT-CLASS-137-15.2 ..... c 35 N76-14431 * #
US-PATENT-CLASS-137-154 ..... c 15 N73-27406 * #
US-PATENT-CLASS-137-177 ..... c 20 N80-10278 * #
US-PATENT-CLASS-137-197 ..... c 15 N70-41646 * #
US-PATENT-CLASS-137-197 ..... c 35 N78-12390 * #
US-PATENT-CLASS-137-1 ..... c 12 N70-38997 * #
US-PATENT-CLASS-137-1 ..... c 15 N73-27406 * #
US-PATENT-CLASS-137-207 ..... c 34 N77-30399 * #

US-PATENT-CLASS-137-209 ..... c 34 N77-30399 * #
US-PATENT-CLASS-137-209 ..... c 20 N80-10278 * #
US-PATENT-CLASS-137-340 ..... c 15 N70-34817 * #
US-PATENT-CLASS-137-340 ..... c 15 N70-35087 * #
US-PATENT-CLASS-137-341 ..... c 12 N71-17661 *
US-PATENT-CLASS-137-375 ..... c 37 N80-23654 * #
US-PATENT-CLASS-137-397 ..... c 15 N73-26472 * #
US-PATENT-CLASS-137-469 ..... c 05 N72-20097 * #
US-PATENT-CLASS-137-484.2 .... c 34 N78-25351 * #
US-PATENT-CLASS-137-487.5 .... c 14 N73-13418 * #
US-PATENT-CLASS-137-491 ..... c 15 N69-21924 * #
US-PATENT-CLASS-137-493 ..... c 52 N81-25660 * #
US-PATENT-CLASS-137-495 ..... c 15 N70-38603 * #
US-PATENT-CLASS-137-496 ..... c 15 N71-22706 *
US-PATENT-CLASS-137-501 ..... c 34 N78-25351 * #
US-PATENT-CLASS-137-505.12 .. c 14 N71-18625 *
US-PATENT-CLASS-137-505.16 .. c 34 N78-25351 * #
US-PATENT-CLASS-137-505.25 .. c 37 N78-25426 * #
US-PATENT-CLASS-137-505.38 .. c 37 N75-15050 * #
US-PATENT-CLASS-137-505.42 .. c 37 N75-15050 * #
US-PATENT-CLASS-137-515.3 .... c 37 N76-14463 * #
US-PATENT-CLASS-137-516.27 .. c 15 N73-30459 * #
US-PATENT-CLASS-137-535 ..... c 15 N73-30459 * #
US-PATENT-CLASS-137-535 ..... c 05 N73-32014 * #
US-PATENT-CLASS-137-538 ..... c 05 N73-25125 * #
US-PATENT-CLASS-137-539 ..... c 15 N70-41811 * #
US-PATENT-CLASS-137-549 ..... c 37 N81-17433 * #
US-PATENT-CLASS-137-550 ..... c 37 N76-14463 * #
US-PATENT-CLASS-137-554 ..... c 09 N71-23191 *
US-PATENT-CLASS-137-559 ..... c 11 N73-12265 * #
US-PATENT-CLASS-137-574 ..... c 20 N80-10278 * #
US-PATENT-CLASS-137-576 ..... c 20 N80-10278 * #
US-PATENT-CLASS-137-582 ..... c 32 N71-16103 *
US-PATENT-CLASS-137-582 ..... c 32 N71-16106 *
US-PATENT-CLASS-137-582 ..... c 15 N71-19569 *
US-PATENT-CLASS-137-582 ..... c 15 N73-26472 * #
US-PATENT-CLASS-137-590 ..... c 20 N80-10278 * #
US-PATENT-CLASS-137-594 ..... c 12 N71-18615 *
US-PATENT-CLASS-137-604 ..... c 15 N73-27406 * #
US-PATENT-CLASS-137-608 ..... c 15 N73-13462 * #
US-PATENT-CLASS-137-614.06 .. c 37 N79-11402 * #
US-PATENT-CLASS-137-614 ..... c 15 N70-36492 * #
US-PATENT-CLASS-137-615 ..... c 12 N71-16031 *
US-PATENT-CLASS-137-624.11 .. c 35 N78-19466 * #
US-PATENT-CLASS-137-624.14 .. c 03 N69-21469 * #
US-PATENT-CLASS-137-625.38 .. c 37 N78-25426 * #
US-PATENT-CLASS-137-625.3 .... c 37 N78-25426 * #
US-PATENT-CLASS-137-625.4 .... c 37 N80-23654 * #
US-PATENT-CLASS-137-625.5 .... c 15 N71-23051 *
US-PATENT-CLASS-137-625.69 .. c 15 N70-36908 * #
US-PATENT-CLASS-137-628 ..... c 37 N74-21065 * #
US-PATENT-CLASS-137-637.05 .. c 37 N79-11402 * #
US-PATENT-CLASS-137-81.5 ..... c 12 N69-21466 * #
US-PATENT-CLASS-137-81.5 ..... c 15 N71-15609 * #
US-PATENT-CLASS-137-81.5 ..... c 12 N71-17578 *
US-PATENT-CLASS-137-81.5 ..... c 12 N71-17579 *
US-PATENT-CLASS-137-81.5 ..... c 10 N71-25899 *
US-PATENT-CLASS-137-81.5 ..... c 12 N71-27332 *
US-PATENT-CLASS-137-81.5 ..... c 12 N71-28741 *
US-PATENT-CLASS-137-81.5 ..... c 28 N72-22772 * #
US-PATENT-CLASS-137-81.5 ..... c 15 N72-33477 * #
US-PATENT-CLASS-137-81.5 ..... c 15 N73-13462 * #
US-PATENT-CLASS-137-81.5 ..... c 28 N73-13773 * #
US-PATENT-CLASS-137-819 ..... c 33 N74-11050 * #
US-PATENT-CLASS-137-81 ..... c 05 N72-20097 * #
US-PATENT-CLASS-137-81 ..... c 14 N73-13418 * #
US-PATENT-CLASS-137-833 ..... c 33 N74-11050 * #
US-PATENT-CLASS-137-838 ..... c 71 N84-28568 * #
US-PATENT-CLASS-137-840 ..... c 33 N74-11050 * #
US-PATENT-CLASS-137-886 ..... c 37 N81-17433 * #
US-PATENT-CLASS-137-887 ..... c 37 N81-17433 * #
US-PATENT-CLASS-137-99 ..... c 37 N85-34403 * #
US-PATENT-CLASS-138.8R ..... c 27 N81-15104 * #
US-PATENT-CLASS-138-103 ..... c 52 N80-16725 * #
US-PATENT-CLASS-138-113 ..... c 34 N75-12222 * #
US-PATENT-CLASS-138-114 ..... c 34 N75-12222 * #
US-PATENT-CLASS-138-119 ..... c 32 N70-41579 * #
US-PATENT-CLASS-138-133 ..... c 52 N80-16725 * #
US-PATENT-CLASS-138-148 ..... c 34 N75-12222 * #
US-PATENT-CLASS-138-178 ..... c 15 N72-20445 * #
US-PATENT-CLASS-138-33 ..... c 52 N80-16725 * #
US-PATENT-CLASS-138-42 ..... c 15 N71-15608 * #
US-PATENT-CLASS-138-42 ..... c 44 N84-14583 * #
US-PATENT-CLASS-138-43 ..... c 15 N71-19213 *
US-PATENT-CLASS-138-45 ..... c 15 N71-18580 *
US-PATENT-CLASS-138-45 ..... c 15 N73-13462 * #
US-PATENT-CLASS-138-46 ..... c 12 N71-18615 *
US-PATENT-CLASS-138-4 ..... c 15 N71-18580 *
US-PATENT-CLASS-138-96R ..... c 37 N79-22474 * #
US-PATENT-CLASS-139-425R .... c 28 N72-11708 *
US-PATENT-CLASS-140-105 ..... c 15 N72-12408 *
US-PATENT-CLASS-140-123 ..... c 15 N71-15918 *
US-PATENT-CLASS-140-124 ..... c 15 N71-10809 * #
US-PATENT-CLASS-141-197 ..... c 35 N78-10428 * #
US-PATENT-CLASS-141-23 ..... c 15 N72-21465 * #
US-PATENT-CLASS-141-258 ..... c 14 N71-27005 *
US-PATENT-CLASS-141-4 ..... c 35 N78-10428 * #
US-PATENT-CLASS-141-5 ..... c 33 N71-20834 *
US-PATENT-CLASS-141-91 ..... c 12 N71-21089 *
US-PATENT-CLASS-148-DIG.26 . c 76 N85-30922 * #
US-PATENT-CLASS-148-1.5 ..... c 26 N71-10607 * #
US-PATENT-CLASS-148-1.5 ..... c 26 N71-23654 *
US-PATENT-CLASS-148-1.5 ..... c 76 N74-20329 * #
US-PATENT-CLASS-148-1.5 ..... c 44 N80-29835 * #
US-PATENT-CLASS-148-1.5 ..... c 33 N81-26360 * #
US-PATENT-CLASS-148-1.5 ..... c 44 N82-26777 * #
US-PATENT-CLASS-148-1.5 ..... c 44 N82-29709 * #
US-PATENT-CLASS-148-11.5R ... c 15 N73-13465 * #
US-PATENT-CLASS-148-12.4 ..... c 26 N79-22271 * #
US-PATENT-CLASS-148-12.7A ... c 26 N78-24333 * #
US-PATENT-CLASS-148-12.7N ... c 26 N77-20201 * #
US-PATENT-CLASS-148-12F ..... c 26 N79-22271 * #
US-PATENT-CLASS-148-121 ..... c 76 N79-16678 * #
US-PATENT-CLASS-148-125 ..... c 26 N78-24333 * #
US-PATENT-CLASS-148-126 ..... c 17 N71-24142 *
US-PATENT-CLASS-148-126 ..... c 18 N71-26153 *
US-PATENT-CLASS-148-126 ..... c 18 N71-28729 *
US-PATENT-CLASS-148-126 ..... c 26 N74-10521 * #
US-PATENT-CLASS-148-127 ..... c 26 N75-29236 * #
US-PATENT-CLASS-148-131 ..... c 26 N80-28492 * #
US-PATENT-CLASS-148-13 ..... c 14 N71-25892 *
US-PATENT-CLASS-148-162 ..... c 26 N77-20201 * #
US-PATENT-CLASS-148-173 ..... c 76 N83-20789 * #
US-PATENT-CLASS-148-174 ..... c 26 N71-29156 *
US-PATENT-CLASS-148-174 ..... c 44 N76-28635 * #
US-PATENT-CLASS-148-174 ..... c 44 N78-24609 * #
US-PATENT-CLASS-148-174 ..... c 76 N85-30922 * #
US-PATENT-CLASS-148-175 ..... c 25 N75-26043 * #
US-PATENT-CLASS-148-175 ..... c 76 N76-25049 * #
US-PATENT-CLASS-148-175 ..... c 44 N76-28635 * #
US-PATENT-CLASS-148-175 ..... c 44 N82-28780 * #
US-PATENT-CLASS-148-175 ..... c 76 N83-20789 * #
US-PATENT-CLASS-148-175 ..... c 76 N85-30922 * #
US-PATENT-CLASS-148-187 ..... c 26 N72-17820 * #
US-PATENT-CLASS-148-187 ..... c 14 N72-28438 * #
US-PATENT-CLASS-148-187 ..... c 33 N81-26360 * #
US-PATENT-CLASS-148-188 ..... c 24 N71-10560 * #
US-PATENT-CLASS-148-188 ..... c 09 N71-12513 * #
US-PATENT-CLASS-148-188 ..... c 44 N79-11468 * #
US-PATENT-CLASS-148-20.3 ..... c 26 N77-20201 * #
US-PATENT-CLASS-148-2 ..... c 26 N77-20201 * #
US-PATENT-CLASS-148-2 ..... c 26 N79-22271 * #
US-PATENT-CLASS-148-32 ..... c 26 N78-18183 * #
US-PATENT-CLASS-148-32.5 ..... c 17 N72-22535 * #
US-PATENT-CLASS-148-32.5 ..... c 26 N77-20201 * #
US-PATENT-CLASS-148-32.5 ..... c 26 N77-32280 * #
US-PATENT-CLASS-148-32.5 ..... c 26 N78-18183 * #
US-PATENT-CLASS-148-32 ..... c 26 N77-32279 * #
US-PATENT-CLASS-148-32 ..... c 26 N80-23419 * #
US-PATENT-CLASS-148-33.2 ..... c 76 N85-30922 * #
US-PATENT-CLASS-148-428 ..... c 26 N82-31505 * #
US-PATENT-CLASS-148-6.11 ..... c 15 N71-24875 *
US-PATENT-CLASS-148-6.16 ..... c 18 N71-23047 *
US-PATENT-CLASS-148-6.20 ..... c 17 N71-23828 *
US-PATENT-CLASS-148-6.3 ..... c 17 N71-33408 *
US-PATENT-CLASS-148-6.3 ..... c 44 N79-18444 * #
US-PATENT-CLASS-148-6 ..... c 18 N71-29040 *
US-PATENT-CLASS-148-6 ..... c 76 N79-16678 * #
US-PATENT-CLASS-149-105 ..... c 28 N78-31255 * #
US-PATENT-CLASS-149-108.4 .... c 28 N80-23471 * #
US-PATENT-CLASS-149-108.4 .... c 28 N81-15119 * #
US-PATENT-CLASS-149-109 ..... c 27 N70-41897 * #
US-PATENT-CLASS-149-111 ..... c 28 N78-31255 * #
US-PATENT-CLASS-149-15 ..... c 44 N80-20808 * #
US-PATENT-CLASS-149-17 ..... c 28 N74-33209 * #
US-PATENT-CLASS-149-19.2 ..... c 28 N80-28536 * #
US-PATENT-CLASS-149-19.4 ..... c 28 N78-31255 * #
US-PATENT-CLASS-149-19.4 ..... c 20 N78-32179 * #
US-PATENT-CLASS-149-19.4 ..... c 28 N79-28342 * #
US-PATENT-CLASS-149-19.8 ..... c 28 N78-31255 * #
US-PATENT-CLASS-149-19.92 .... c 28 N79-14228 * #
US-PATENT-CLASS-149-19.9 ..... c 28 N79-14228 * #
US-PATENT-CLASS-149-19.9 ..... c 28 N79-28342 * #
US-PATENT-CLASS-149-19.9 ..... c 28 N80-28536 * #
US-PATENT-CLASS-149-19 ..... c 27 N71-14090 * #
US-PATENT-CLASS-149-19 ..... c 27 N72-25699 * #
US-PATENT-CLASS-149-19 ..... c 27 N73-16764 * #
US-PATENT-CLASS-149-1 ..... c 23 N71-16212 *
US-PATENT-CLASS-149-1 ..... c 06 N73-30097 * #
US-PATENT-CLASS-149-1 ..... c 28 N80-20402 * #
US-PATENT-CLASS-149-1 ..... c 28 N81-14103 * #
US-PATENT-CLASS-149-20 ..... c 27 N72-25699 * #
US-PATENT-CLASS-149-20 ..... c 28 N79-14228 * #
US-PATENT-CLASS-149-20 ..... c 28 N79-28342 * #
US-PATENT-CLASS-149-20 ..... c 28 N80-28536 * #
US-PATENT-CLASS-149-2 ..... c 12 N70-40124 * #
US-PATENT-CLASS-149-36 ..... c 27 N72-25699 * #
US-PATENT-CLASS-149-36 ..... c 27 N73-16764 * #
US-PATENT-CLASS-149-36 ..... c 06 N73-30097 * #
US-PATENT-CLASS-149-36 ..... c 24 N76-14203 * #
US-PATENT-CLASS-149-37 ..... c 44 N80-20808 * #
US-PATENT-CLASS-149-42 ..... c 20 N78-32179 * #
US-PATENT-CLASS-149-43 ..... c 20 N78-32179 * #
US-PATENT-CLASS-149-44 ..... c 20 N78-32179 * #
US-PATENT-CLASS-149-60 ..... c 28 N74-33209 * #
US-PATENT-CLASS-149-76 ..... c 28 N74-33209 * #
US-PATENT-CLASS-149-76 ..... c 20 N78-32179 * #
US-PATENT-CLASS-149-83 ..... c 20 N78-32179 * #
US-PATENT-CLASS-149-85 ..... c 20 N78-32179 * #
US-PATENT-CLASS-149-88 ..... c 28 N78-31255 * #
US-PATENT-CLASS-149-92 ..... c 27 N72-25699 * #
US-PATENT-CLASS-149-92 ..... c 28 N78-31255 * #
US-PATENT-CLASS-149-93 ..... c 28 N78-31255 * #
US-PATENT-CLASS-15-143 ..... c 15 N72-11390 *
US-PATENT-CLASS-15-210 ..... c 15 N72-11390 *
US-PATENT-CLASS-15-230.16 .... c 37 N79-10422 * #
US-PATENT-CLASS-15-230.17 .... c 37 N79-10422 * #
US-PATENT-CLASS-15-406 ..... c 37 N85-21652 * #
US-PATENT-CLASS-15-415 ..... c 14 N73-30395 * #
US-PATENT-CLASS-150-11 ..... c 37 N81-14317 * #
US-PATENT-CLASS-150-1 ..... c 52 N79-14749 * #
US-PATENT-CLASS-151-41.76 .... c 37 N80-23653 * #
US-PATENT-CLASS-152-11 ..... c 31 N71-18611 *
US-PATENT-CLASS-152-225 ..... c 15 N71-27091 *
US-PATENT-CLASS-152-250 ..... c 15 N71-27091 *
US-PATENT-CLASS-152-330RF ... c 37 N81-24443 * #
US-PATENT-CLASS-152-353G .... c 37 N81-24443 * #
US-PATENT-CLASS-152-353R .... c 37 N81-24443 * #
US-PATENT-CLASS-152-379.4 .... c 37 N81-24443 * #
US-PATENT-CLASS-156.307.7 .... c 27 N82-11206 * #
US-PATENT-CLASS-156-DIG.6-8 c 76 N79-23798 * #
US-PATENT-CLASS-156-DIG.62 . c 76 N77-32919 * #
US-PATENT-CLASS-156-DIG.62 . c 35 N83-24828 * #
US-PATENT-CLASS-156-DIG.62 . c 33 N85-29142 * #
US-PATENT-CLASS-156-DIG.64 . c 76 N79-11920 * #
US-PATENT-CLASS-156-DIG.64 . c 44 N80-24741 * #
US-PATENT-CLASS-156-DIG.64 . c 76 N80-32245 * #
US-PATENT-CLASS-156-DIG.64 . c 76 N84-35113 * #
US-PATENT-CLASS-156-DIG.65 ...c 76 N79-11920 * #
US-PATENT-CLASS-156-DIG.65 . c 76 N85-30922 * #
US-PATENT-CLASS-156-DIG.6 .... c 76 N83-35888 * #
US-PATENT-CLASS-156-DIG.73 . c 76 N83-35888 * #
US-PATENT-CLASS-156-DIG.73 . c 27 N83-36220 * #
US-PATENT-CLASS-156-DIG.88 . c 76 N79-11920 * #
US-PATENT-CLASS-156-DIG.88 . c 76 N80-32245 * #
US-PATENT-CLASS-156-DIG.88 . c 76 N84-35113 * #
US-PATENT-CLASS-156-DIG.88 . c 76 N85-30922 * #
US-PATENT-CLASS-156-DIG.89 . c 27 N83-36220 * #
US-PATENT-CLASS-156-DIG.96 . c 76 N80-32244 * #
US-PATENT-CLASS-156-DIG.96 . c 33 N81-19389 * #
US-PATENT-CLASS-156-DIG.98 . c 76 N84-35113 * #
US-PATENT-CLASS-156-104 ..... c 44 N80-18550 * #
US-PATENT-CLASS-156-154 ..... c 24 N78-17150 * #
US-PATENT-CLASS-156-154 ..... c 27 N81-14077 * #
US-PATENT-CLASS-156-157 ..... c 33 N82-26571 * #
US-PATENT-CLASS-156-160 ..... c 27 N81-14077 * #
US-PATENT-CLASS-156-161 ..... c 24 N81-29163 * #
US-PATENT-CLASS-156-163 ..... c 27 N81-14077 * #
US-PATENT-CLASS-156-165 ..... c 24 N81-29163 * #
US-PATENT-CLASS-156-166 ..... c 74 N85-29749 * #
US-PATENT-CLASS-156-16 ..... c 74 N75-12732 * #
US-PATENT-CLASS-156-172 ..... c 15 N71-17651 *
US-PATENT-CLASS-156-17 ..... c 76 N79-21910 * #
US-PATENT-CLASS-156-18 ..... c 26 N73-26752 * #
US-PATENT-CLASS-156-18 ..... c 74 N75-12732 * #
US-PATENT-CLASS-156-191 ..... c 52 N84-28389 * #
US-PATENT-CLASS-156-212 ..... c 03 N71-26726 *
US-PATENT-CLASS-156-212 ..... c 24 N80-26388 * #
US-PATENT-CLASS-156-212 ..... c 27 N81-14077 * #
US-PATENT-CLASS-156-213 ..... c 24 N80-26388 * #
US-PATENT-CLASS-156-215 ..... c 35 N84-12443 * #
US-PATENT-CLASS-156-218 ..... c 54 N74-32546 * #
US-PATENT-CLASS-156-229 ..... c 24 N77-28225 * #
US-PATENT-CLASS-156-230 ..... c 35 N84-12443 * #
US-PATENT-CLASS-156-235 ..... c 35 N84-12443 * #
US-PATENT-CLASS-156-242 ..... c 15 N69-24322 * #
US-PATENT-CLASS-156-242 ..... c 37 N76-24575 * #
US-PATENT-CLASS-156-242 ..... c 24 N81-33235 * #
US-PATENT-CLASS-156-245 ..... c 31 N74-18089 * #
US-PATENT-CLASS-156-245 ..... c 24 N78-17149 * #
US-PATENT-CLASS-156-245 ..... c 24 N81-33235 * #
US-PATENT-CLASS-156-247 ..... c 31 N74-18089 * #
US-PATENT-CLASS-156-250 ..... c 03 N72-25019 * #
US-PATENT-CLASS-156-252 ..... c 24 N81-33235 * #
US-PATENT-CLASS-156-264 ..... c 05 N72-25121 * #
US-PATENT-CLASS-156-264 ..... c 24 N78-17150 * #
US-PATENT-CLASS-156-264 ..... c 24 N81-33235 * #
US-PATENT-CLASS-156-264 ..... c 31 N83-34073 * #
US-PATENT-CLASS-156-267 ..... c 27 N81-14077 * #
US-PATENT-CLASS-156-272.4 .... c 31 N85-29083 * #
US-PATENT-CLASS-156-272 ..... c 27 N80-32516 * #
US-PATENT-CLASS-156-272 ..... c 33 N82-26571 * #
US-PATENT-CLASS-156-273.7 .... c 27 N85-20125 * #
US-PATENT-CLASS-156-273.9 .... c 31 N85-29083 * #
US-PATENT-CLASS-156-278 ..... c 44 N80-18550 * #
US-PATENT-CLASS-156-285 ..... c 15 N71-23052 *
US-PATENT-CLASS-156-285 ..... c 18 N73-30532 * #
US-PATENT-CLASS-156-285 ..... c 31 N74-18089 * #

US-PATENT-CLASS-156-285 ..... c 24 N74-27035 * #
US-PATENT-CLASS-156-285 ..... c 24 N78-17149 * #
US-PATENT-CLASS-156-285 ..... c 24 N78-17150 * #
US-PATENT-CLASS-156-285 ..... c 44 N80-18550 * #
US-PATENT-CLASS-156-285 ..... c 24 N80-26388 * #
US-PATENT-CLASS-156-285 ..... c 24 N81-29163 * #
US-PATENT-CLASS-156-285 ..... c 24 N81-33235 * #
US-PATENT-CLASS-156-285 ..... c 52 N84-28389 * #
US-PATENT-CLASS-156-286 ..... c 37 N76-21554 * #
US-PATENT-CLASS-156-286 ..... c 37 N76-24575 * #
US-PATENT-CLASS-156-286 ..... c 24 N78-17150 * #
US-PATENT-CLASS-156-289 ..... c 24 N78-17149 * #
US-PATENT-CLASS-156-289 ..... c 24 N78-17150 * #
US-PATENT-CLASS-156-289 ..... c 52 N84-28389 * #
US-PATENT-CLASS-156-290 ..... c 24 N81-33235 * #
US-PATENT-CLASS-156-292 ..... c 27 N80-32516 * #
US-PATENT-CLASS-156-292 ..... c 24 N81-17170 * #
US-PATENT-CLASS-156-294 ..... c 37 N81-14317 * #
US-PATENT-CLASS-156-294 ..... c 24 N81-29163 * #
US-PATENT-CLASS-156-294 ..... c 35 N84-12443 * #
US-PATENT-CLASS-156-295 ..... c 27 N81-14077 * #
US-PATENT-CLASS-156-300 ..... c 24 N78-17150 * #
US-PATENT-CLASS-156-303 ..... c 44 N80-18550 * #
US-PATENT-CLASS-156-304.3 .... c 27 N84-22748 * #
US-PATENT-CLASS-156-304.6 .... c 27 N84-22748 * #
US-PATENT-CLASS-156-306 ..... c 24 N78-17150 * #
US-PATENT-CLASS-156-307.3 .... c 27 N82-11206 * #
US-PATENT-CLASS-156-307.5 .... c 27 N82-11206 * #
US-PATENT-CLASS-156-307 ..... c 27 N86-20561 * #
US-PATENT-CLASS-156-308 ..... c 05 N72-25121 * #
US-PATENT-CLASS-156-309.9 .... c 27 N86-20561 * #
US-PATENT-CLASS-156-309 ..... c 31 N74-18089 * #
US-PATENT-CLASS-156-309 ..... c 27 N78-17205 * #
US-PATENT-CLASS-156-311 ..... c 24 N78-17150 * #
US-PATENT-CLASS-156-312 ..... c 44 N80-18550 * #
US-PATENT-CLASS-156-315 ..... c 27 N82-24340 * #
US-PATENT-CLASS-156-320 ..... c 15 N72-11392 *
US-PATENT-CLASS-156-323 ..... c 27 N81-14077 * #
US-PATENT-CLASS-156-329 ..... c 27 N82-29456 * #
US-PATENT-CLASS-156-330 ..... c 24 N81-14000 * #
US-PATENT-CLASS-156-331.5 .... c 27 N82-11206 * #
US-PATENT-CLASS-156-331.5 .... c 27 N86-20561 * #
US-PATENT-CLASS-156-331 ..... c 37 N74-18126 * #
US-PATENT-CLASS-156-331 ..... c 27 N78-17205 * #
US-PATENT-CLASS-156-331 ..... c 24 N79-16915 * #
US-PATENT-CLASS-156-331 ..... c 27 N81-14077 * #
US-PATENT-CLASS-156-338 ..... c 27 N82-24340 * #
US-PATENT-CLASS-156-344 ..... c 28 N81-14103 * #
US-PATENT-CLASS-156-344 ..... c 31 N83-34073 * #
US-PATENT-CLASS-156-345 ..... c 15 N70-42033 * #
US-PATENT-CLASS-156-379.7 .... c 33 N82-26571 * #
US-PATENT-CLASS-156-380.2 .... c 31 N85-29083 * #
US-PATENT-CLASS-156-382 ..... c 37 N76-21554 * #
US-PATENT-CLASS-156-382 ..... c 52 N84-28389 * #
US-PATENT-CLASS-156-391 ..... c 35 N84-12443 * #
US-PATENT-CLASS-156-3 ..... c 17 N71-16044 *
US-PATENT-CLASS-156-3 ..... c 15 N71-21404 *
US-PATENT-CLASS-156-3 ..... c 15 N71-24047 *
US-PATENT-CLASS-156-3 ..... c 06 N72-21094 * #
US-PATENT-CLASS-156-423 ..... c 35 N84-12443 * #
US-PATENT-CLASS-156-499 ..... c 27 N84-22748 * #
US-PATENT-CLASS-156-510 ..... c 15 N71-17687 *
US-PATENT-CLASS-156-510 ..... c 03 N72-25019 * #
US-PATENT-CLASS-156-52 ..... c 31 N79-21226 * #
US-PATENT-CLASS-156-540 ..... c 35 N84-12443 * #
US-PATENT-CLASS-156-545 ..... c 15 N71-24164 *
US-PATENT-CLASS-156-556 ..... c 37 N76-21554 * #
US-PATENT-CLASS-156-59 ..... c 31 N83-34073 * #
US-PATENT-CLASS-156-600 ..... c 27 N83-36220 * #
US-PATENT-CLASS-156-601 ..... c 76 N77-32919 * #
US-PATENT-CLASS-156-601 ..... c 76 N80-32245 * #
US-PATENT-CLASS-156-602 ..... c 76 N82-30105 * #
US-PATENT-CLASS-156-605 ..... c 44 N80-24741 * #
US-PATENT-CLASS-156-608 ..... c 76 N79-11920 * #
US-PATENT-CLASS-156-608 ..... c 33 N81-19389 * #
US-PATENT-CLASS-156-608 ..... c 76 N82-30105 * #
US-PATENT-CLASS-156-608 ..... c 76 N83-20789 * #
US-PATENT-CLASS-156-608 ..... c 76 N83-35888 * #
US-PATENT-CLASS-156-608 ..... c 76 N84-35113 * #
US-PATENT-CLASS-156-60 ..... c 15 N71-22713 *
US-PATENT-CLASS-156-610 ..... c 76 N76-25049 * #
US-PATENT-CLASS-156-610 ..... c 27 N83-36220 * #
US-PATENT-CLASS-156-612 ..... c 76 N76-25049 * #
US-PATENT-CLASS-156-612 ..... c 44 N76-28635 * #
US-PATENT-CLASS-156-612 ..... c 76 N85-30922 * #
US-PATENT-CLASS-156-613 ..... c 76 N76-25049 * #
US-PATENT-CLASS-156-613 ..... c 44 N76-28635 * #
US-PATENT-CLASS-156-614 ..... c 44 N76-28635 * #
US-PATENT-CLASS-156-617-SP . c 76 N84-35113 * #
US-PATENT-CLASS-156-617-V ... c 76 N84-35113 * #
US-PATENT-CLASS-156-617SP .. c 76 N79-11920 * #
US-PATENT-CLASS-156-617SP .. c 76 N79-23798 * #
US-PATENT-CLASS-156-617SP .. c 44 N80-24741 * #
US-PATENT-CLASS-156-617SP .. c 76 N80-32245 * #
US-PATENT-CLASS-156-619 ..... c 76 N77-32919 * #
US-PATENT-CLASS-156-620 ..... c 76 N77-32919 * #
US-PATENT-CLASS-156-623Q .... c 76 N85-29800 * #
US-PATENT-CLASS-156-624 ..... c 76 N83-20789 * #
US-PATENT-CLASS-156-630 ..... c 35 N84-22930 * #
US-PATENT-CLASS-156-633 ..... c 44 N78-25529 * #
US-PATENT-CLASS-156-635 ..... c 76 N83-20789 * #
US-PATENT-CLASS-156-643 ..... c 52 N84-23095 * #
US-PATENT-CLASS-156-644 ..... c 52 N84-23095 * #
US-PATENT-CLASS-156-645 ..... c 27 N77-32308 * #
US-PATENT-CLASS-156-647 ..... c 33 N81-26360 * #
US-PATENT-CLASS-156-648 ..... c 33 N81-26360 * #
US-PATENT-CLASS-156-649 ..... c 33 N81-26360 * #
US-PATENT-CLASS-156-654 ..... c 76 N83-20789 * #
US-PATENT-CLASS-156-654 ..... c 35 N84-22930 * #
US-PATENT-CLASS-156-662 ..... c 76 N83-20789 * #
US-PATENT-CLASS-156-663 ..... c 27 N77-32308 * #
US-PATENT-CLASS-156-668 ..... c 52 N84-23095 * #
US-PATENT-CLASS-156-66 ..... c 15 N72-11392 *
US-PATENT-CLASS-156-71 ..... c 33 N82-26571 * #
US-PATENT-CLASS-156-71 ..... c 35 N84-12443 * #
US-PATENT-CLASS-156-74 ..... c 24 N81-29163 * #
US-PATENT-CLASS-156-7 ..... c 74 N75-12732 * #
US-PATENT-CLASS-156-81 ..... c 27 N84-22748 * #
US-PATENT-CLASS-156-84 ..... c 15 N72-16330 * #
US-PATENT-CLASS-156-84 ..... c 37 N82-24491 * #
US-PATENT-CLASS-156-85 ..... c 37 N82-24491 * #
US-PATENT-CLASS-156-86 ..... c 15 N72-16330 * #
US-PATENT-CLASS-156-86 ..... c 37 N82-24491 * #
US-PATENT-CLASS-156-89 ..... c 37 N75-15992 * #
US-PATENT-CLASS-156-89 ..... c 24 N79-25143 * #
US-PATENT-CLASS-156-89 ..... c 27 N84-22748 * #
US-PATENT-CLASS-156-905 ..... c 35 N84-22930 * #
US-PATENT-CLASS-156-94 ..... c 32 N74-27612 * #
US-PATENT-CLASS-156-94 ..... c 24 N74-30001 * #
US-PATENT-CLASS-156-99 ..... c 37 N75-15992 * #
US-PATENT-CLASS-16-242 ..... c 31 N86-19479 * #
US-PATENT-CLASS-16-294 ..... c 37 N86-19605 * #
US-PATENT-CLASS-16-390 ..... c 31 N86-19479 * #
US-PATENT-CLASS-161-115 ..... c 18 N70-41583 * #
US-PATENT-CLASS-161-116 ..... c 37 N74-23064 * #
US-PATENT-CLASS-161-127 ..... c 18 N72-25540 * #
US-PATENT-CLASS-161-127 ..... c 18 N72-25541 * #
US-PATENT-CLASS-161-161 ..... c 33 N71-25351 *
US-PATENT-CLASS-161-182 ..... c 15 N69-39735 * #
US-PATENT-CLASS-161-182 ..... c 37 N74-18126 * #
US-PATENT-CLASS-161-189 ..... c 23 N71-15978 *
US-PATENT-CLASS-161-192 ..... c 37 N74-18126 * #
US-PATENT-CLASS-161-196 ..... c 37 N74-21063 * #
US-PATENT-CLASS-161-214 ..... c 06 N73-27980 * #
US-PATENT-CLASS-161-227 ..... c 06 N73-27980 * #
US-PATENT-CLASS-161-42 ..... c 37 N74-18126 * #
US-PATENT-CLASS-161-43 ..... c 37 N74-18126 * #
US-PATENT-CLASS-161-67 ..... c 33 N72-17947 * #
US-PATENT-CLASS-161-68 ..... c 18 N71-21651 *
US-PATENT-CLASS-161-68 ..... c 18 N72-25540 * #
US-PATENT-CLASS-161-68 ..... c 18 N72-25541 * #
US-PATENT-CLASS-161-69 ..... c 33 N71-24858 *
US-PATENT-CLASS-161-7 ..... c 18 N72-25540 * #
US-PATENT-CLASS-161-7 ..... c 18 N72-25541 * #
US-PATENT-CLASS-161-89 ..... c 17 N71-28747 *
US-PATENT-CLASS-161-92 ..... c 37 N75-26371 * #
US-PATENT-CLASS-161-93 ..... c 18 N73-12604 * #
US-PATENT-CLASS-161-93 ..... c 37 N74-18126 * #
US-PATENT-CLASS-161-93 ..... c 37 N75-26371 * #
US-PATENT-CLASS-162-102 ..... c 24 N76-14204 * #
US-PATENT-CLASS-162-14 ..... c 85 N79-17747 * #
US-PATENT-CLASS-162-153 ..... c 24 N76-14204 * #
US-PATENT-CLASS-162-222 ..... c 24 N76-14204 * #
US-PATENT-CLASS-162-228 ..... c 24 N76-14204 * #
US-PATENT-CLASS-162-29 ..... c 85 N79-17747 * #
US-PATENT-CLASS-164-105 ..... c 20 N79-21123 * #
US-PATENT-CLASS-164-119 ..... c 24 N84-16262 * #
US-PATENT-CLASS-164-132 ..... c 37 N76-23570 * #
US-PATENT-CLASS-164-331.12 .. c 27 N83-34041 * #
US-PATENT-CLASS-164-60 ..... c 24 N77-27187 * #
US-PATENT-CLASS-165-DIG.6 .... c 34 N84-22903 * #
US-PATENT-CLASS-165-104.14 .. c 05 N81-26114 * #
US-PATENT-CLASS-165-104.14 .. c 34 N85-29179 * #
US-PATENT-CLASS-165-104.26 .. c 74 N83-19596 * #
US-PATENT-CLASS-165-104.26 .. c 34 N83-35307 * #
US-PATENT-CLASS-165-104.26 .. c 34 N85-21568 * #
US-PATENT-CLASS-165-104.26 .. c 34 N85-29180 * #
US-PATENT-CLASS-165-104 ..... c 33 N71-25353 *
US-PATENT-CLASS-165-105 ..... c 09 N71-24807 *
US-PATENT-CLASS-165-105 ..... c 33 N71-25353 *
US-PATENT-CLASS-165-105 ..... c 33 N72-17948 * #
US-PATENT-CLASS-165-105 ..... c 31 N73-30829 * #
US-PATENT-CLASS-165-105 ..... c 28 N73-32606 * #
US-PATENT-CLASS-165-105 ..... c 34 N74-18552 * #
US-PATENT-CLASS-165-105 ..... c 34 N75-12222 * #
US-PATENT-CLASS-165-105 ..... c 44 N75-32581 * #
US-PATENT-CLASS-165-105 ..... c 44 N76-16612 * #
US-PATENT-CLASS-165-105 ..... c 34 N76-17317 * #
US-PATENT-CLASS-165-105 ..... c 34 N76-27515 * #
US-PATENT-CLASS-165-105 ..... c 34 N77-32413 * #
US-PATENT-CLASS-165-105 ..... c 25 N78-10224 * #
US-PATENT-CLASS-165-105 ..... c 34 N78-17336 * #
US-PATENT-CLASS-165-105 ..... c 34 N78-17337 * #
US-PATENT-CLASS-165-105 ..... c 44 N79-18443 * #
US-PATENT-CLASS-165-105 ..... c 37 N79-28549 * #
US-PATENT-CLASS-165-105 ..... c 34 N79-31523 * #
US-PATENT-CLASS-165-105 ..... c 35 N81-14287 * #
US-PATENT-CLASS-165-106 ..... c 33 N73-32818 * #
US-PATENT-CLASS-165-106 ..... c 34 N76-17317 * #
US-PATENT-CLASS-165-107 ..... c 09 N71-24807 *
US-PATENT-CLASS-165-107 ..... c 44 N77-32581 * #
US-PATENT-CLASS-165-109 ..... c 35 N74-15093 * #
US-PATENT-CLASS-165-10 ..... c 44 N76-31667 * #
US-PATENT-CLASS-165-110 ..... c 77 N75-20139 * #
US-PATENT-CLASS-165-111 ..... c 77 N75-20139 * #
US-PATENT-CLASS-165-12 ..... c 33 N71-24276 *
US-PATENT-CLASS-165-12 ..... c 34 N83-34221 * #
US-PATENT-CLASS-165-133 ..... c 33 N71-16277 *
US-PATENT-CLASS-165-133 ..... c 33 N71-25353 *
US-PATENT-CLASS-165-133 ..... c 33 N72-20915 * #
US-PATENT-CLASS-165-133 ..... c 44 N76-23675 * #
US-PATENT-CLASS-165-134R .... c 74 N83-19596 * #
US-PATENT-CLASS-165-134 ..... c 34 N78-17336 * #
US-PATENT-CLASS-165-135 ..... c 34 N84-22903 * #
US-PATENT-CLASS-165-138 ..... c 09 N71-24807 *
US-PATENT-CLASS-165-141 ..... c 28 N73-32606 * #
US-PATENT-CLASS-165-146 ..... c 34 N79-13289 * #
US-PATENT-CLASS-165-155 ..... c 33 N72-20915 * #
US-PATENT-CLASS-165-158 ..... c 33 N72-20915 * #
US-PATENT-CLASS-165-161 ..... c 33 N72-20915 * #
US-PATENT-CLASS-165-164 ..... c 34 N77-10463 * #
US-PATENT-CLASS-165-166 ..... c 54 N77-32722 * #
US-PATENT-CLASS-165-169 ..... c 34 N79-13288 * #
US-PATENT-CLASS-165-169 ..... c 34 N79-13289 * #
US-PATENT-CLASS-165-16 ..... c 31 N80-32583 * #
US-PATENT-CLASS-165-170 ..... c 34 N77-10463 * #
US-PATENT-CLASS-165-174 ..... c 33 N72-20915 * #
US-PATENT-CLASS-165-185 ..... c 28 N73-32606 * #
US-PATENT-CLASS-165-185 ..... c 34 N83-28356 * #
US-PATENT-CLASS-165-1 ..... c 09 N70-41717 * #
US-PATENT-CLASS-165-1 ..... c 34 N75-12222 * #
US-PATENT-CLASS-165-1 ..... c 34 N85-29180 * #
US-PATENT-CLASS-165-20 ..... c 03 N72-28025 * #
US-PATENT-CLASS-165-2 ..... c 33 N71-24876 *
US-PATENT-CLASS-165-2 ..... c 35 N74-15093 * #
US-PATENT-CLASS-165-2 ..... c 44 N77-32581 * #
US-PATENT-CLASS-165-2 ..... c 44 N78-17460 * #
US-PATENT-CLASS-165-2 ..... c 51 N79-10694 * #
US-PATENT-CLASS-165-2 ..... c 27 N83-36220 * #
US-PATENT-CLASS-165-30 ..... c 51 N79-10694 * #
US-PATENT-CLASS-165-30 ..... c 31 N79-17029 * #
US-PATENT-CLASS-165-30 ..... c 35 N86-20750 * #
US-PATENT-CLASS-165-32 ..... c 31 N73-30829 * #
US-PATENT-CLASS-165-32 ..... c 33 N73-32818 * #
US-PATENT-CLASS-165-32 ..... c 34 N78-17337 * #
US-PATENT-CLASS-165-32 ..... c 34 N79-31523 * #
US-PATENT-CLASS-165-32 ..... c 44 N80-20810 * #
US-PATENT-CLASS-165-32 ..... c 33 N82-24419 * #
US-PATENT-CLASS-165-32 ..... c 34 N83-28356 * #
US-PATENT-CLASS-165-32 ..... c 34 N83-35307 * #
US-PATENT-CLASS-165-32 ..... c 34 N84-14461 * #
US-PATENT-CLASS-165-32 ..... c 34 N85-29179 * #
US-PATENT-CLASS-165-3 ..... c 03 N72-28025 * #
US-PATENT-CLASS-165-41 ..... c 34 N84-14461 * #
US-PATENT-CLASS-165-44 ..... c 15 N71-26611 *
US-PATENT-CLASS-165-46 ..... c 05 N71-19439 *
US-PATENT-CLASS-165-46 ..... c 05 N71-24147 *
US-PATENT-CLASS-165-46 ..... c 05 N73-20137 * #
US-PATENT-CLASS-165-46 ..... c 05 N73-26071 * #
US-PATENT-CLASS-165-46 ..... c 54 N82-29002 * #
US-PATENT-CLASS-165-47 ..... c 33 N71-29052 *
US-PATENT-CLASS-165-47 ..... c 31 N73-30829 * #
US-PATENT-CLASS-165-47 ..... c 34 N75-12222 * #
US-PATENT-CLASS-165-48R ..... c 35 N85-29214 * #
US-PATENT-CLASS-165-58 ..... c 27 N83-36220 * #
US-PATENT-CLASS-165-61 ..... c 34 N83-34221 * #
US-PATENT-CLASS-165-61 ..... c 35 N85-29214 * #
US-PATENT-CLASS-165-61 ..... c 35 N86-20750 * #
US-PATENT-CLASS-165-64 ..... c 35 N85-29214 * #
US-PATENT-CLASS-165-65 ..... c 35 N86-20750 * #
US-PATENT-CLASS-165-76 ..... c 34 N83-28356 * #
US-PATENT-CLASS-165-80E ..... c 34 N83-34221 * #
US-PATENT-CLASS-165-86 ..... c 15 N71-26611 *
US-PATENT-CLASS-165-86 ..... c 33 N71-29046 *
US-PATENT-CLASS-165-96 ..... c 33 N70-36847 * #
US-PATENT-CLASS-165-96 ..... c 33 N71-22890 *
US-PATENT-CLASS-165-96 ..... c 31 N73-30829 * #
US-PATENT-CLASS-165-96 ..... c 33 N73-32818 * #
US-PATENT-CLASS-165-96 ..... c 34 N78-17337 * #
US-PATENT-CLASS-165-96 ..... c 34 N84-14461 * #
US-PATENT-CLASS-166-222 ..... c 43 N81-26509 * #
US-PATENT-CLASS-166-248 ..... c 43 N78-14452 * #
US-PATENT-CLASS-166-259 ..... c 43 N78-14452 * #
US-PATENT-CLASS-166-267 ..... c 25 N82-23282 * #
US-PATENT-CLASS-166-303 ..... c 25 N82-23282 * #
US-PATENT-CLASS-166-63 ..... c 46 N79-22679 * #
US-PATENT-CLASS-166-77 ..... c 43 N81-26509 * #
US-PATENT-CLASS-169-28 ..... c 12 N72-21310 * #

US-PATENT-CLASS-169-36 ..... c 12 N72-21310 * #
US-PATENT-CLASS-169-47 ..... c 25 N83-36118 * #
US-PATENT-CLASS-169-62 ..... c 31 N81-14137 * #
US-PATENT-CLASS-169-70 ..... c 31 N81-14137 * #
US-PATENT-CLASS-173-131 ..... c 15 N73-13463 * #
US-PATENT-CLASS-173-132 ..... c 37 N76-18454 * #
US-PATENT-CLASS-174-DIG.6 .... c 26 N73-26752 * #
US-PATENT-CLASS-174-DIG.6 .... c 26 N73-32571 * #
US-PATENT-CLASS-174-DIG.8 .... c 33 N74-22865 * #
US-PATENT-CLASS-174-106R .... c 09 N72-22198 * #
US-PATENT-CLASS-174-110.3 .... c 14 N71-27186 *
US-PATENT-CLASS-174-111 ..... c 33 N74-27683 * #
US-PATENT-CLASS-174-115 ..... c 09 N70-38201 * #
US-PATENT-CLASS-174-117FF .. c 09 N72-22198 * #
US-PATENT-CLASS-174-126CP .. c 26 N73-32571 * #
US-PATENT-CLASS-174-142 ..... c 33 N80-18286 * #
US-PATENT-CLASS-174-145 ..... c 33 N76-16332 * #
US-PATENT-CLASS-174-148 ..... c 33 N76-16332 * #
US-PATENT-CLASS-174-15CA .... c 31 N79-17029 * #
US-PATENT-CLASS-174-15C ..... c 33 N74-27683 * #
US-PATENT-CLASS-174-18 ..... c 09 N69-21542 * #
US-PATENT-CLASS-174-28 ..... c 07 N71-27191 *
US-PATENT-CLASS-174-28 ..... c 33 N74-27683 * #
US-PATENT-CLASS-174-35 ..... c 07 N71-19436 *
US-PATENT-CLASS-174-36 ..... c 09 N72-22198 * #
US-PATENT-CLASS-174-52S ..... c 15 N73-14469 * #
US-PATENT-CLASS-174-68.5 .... c 15 N70-41960 * #
US-PATENT-CLASS-174-69 ..... c 33 N74-22865 * #
US-PATENT-CLASS-174-70R ..... c 33 N74-22865 * #
US-PATENT-CLASS-174-72 ..... c 03 N69-21539 * #
US-PATENT-CLASS-174-73R ..... c 33 N80-18286 * #
US-PATENT-CLASS-174-84 ..... c 15 N72-17455 * #
US-PATENT-CLASS-175-1 ..... c 46 N79-22679 * #
US-PATENT-CLASS-175-26 ..... c 15 N73-32362 * #
US-PATENT-CLASS-175-310 ..... c 15 N70-42034 * #
US-PATENT-CLASS-175-323 ..... c 14 N69-21923 * #
US-PATENT-CLASS-175-45 ..... c 35 N84-33768 * #
US-PATENT-CLASS-175-78 ..... c 46 N80-10709 * #
US-PATENT-CLASS-176-11 ..... c 24 N72-33681 * #
US-PATENT-CLASS-176-11 ..... c 25 N76-27383 * #
US-PATENT-CLASS-176-11 ..... c 25 N76-29379 * #
US-PATENT-CLASS-176-11 ..... c 25 N78-27226 * #
US-PATENT-CLASS-176-14 ..... c 25 N76-29379 * #
US-PATENT-CLASS-176-169 ..... c 22 N73-32528 * #
US-PATENT-CLASS-176-16 ..... c 25 N76-27383 * #
US-PATENT-CLASS-176-16 ..... c 25 N76-29379 * #
US-PATENT-CLASS-176-16 ..... c 25 N78-27226 * #
US-PATENT-CLASS-176-22 ..... c 73 N78-28913 * #
US-PATENT-CLASS-176-33 ..... c 73 N78-28913 * #
US-PATENT-CLASS-176-39 ..... c 73 N78-19920 * #
US-PATENT-CLASS-176-39 ..... c 73 N78-28913 * #
US-PATENT-CLASS-176-3 ..... c 75 N75-13625 * #
US-PATENT-CLASS-176-45 ..... c 22 N71-28759 *
US-PATENT-CLASS-176-86G ..... c 22 N72-20597 * #
US-PATENT-CLASS-177-147 ..... c 35 N85-20294 * #
US-PATENT-CLASS-177-1 ..... c 35 N77-19385 * #
US-PATENT-CLASS-177-200 ..... c 35 N74-26945 * #
US-PATENT-CLASS-177-208 ..... c 35 N77-19385 * #
US-PATENT-CLASS-177-210 ..... c 14 N71-10773 * #
US-PATENT-CLASS-177-211 ..... c 35 N74-26945 * #
US-PATENT-CLASS-177-246 ..... c 35 N74-26945 * #
US-PATENT-CLASS-177-260 ..... c 35 N85-20294 * #
US-PATENT-CLASS-178-DIG.12 . c 07 N72-12081 *
US-PATENT-CLASS-178-DIG.12 . c 32 N75-21485 * #
US-PATENT-CLASS-178-DIG.1 .... c 36 N74-20009 * #
US-PATENT-CLASS-178-DIG.1 .... c 33 N75-30431 * #
US-PATENT-CLASS-178-DIG.1 .... c 45 N76-17656 * #
US-PATENT-CLASS-178-DIG.20 . c 18 N76-14186 * #
US-PATENT-CLASS-178-DIG.20 . c 23 N72-27728 * #
US-PATENT-CLASS-178-DIG.20 . c 35 N75-19613 * #
US-PATENT-CLASS-178-DIG.21 . c 16 N72-13437 *
US-PATENT-CLASS-178-DIG.23 . c 07 N73-30115 * #
US-PATENT-CLASS-178-DIG.25 . c 74 N75-25706 * #
US-PATENT-CLASS-178-DIG.28 . c 08 N72-22164 * #
US-PATENT-CLASS-178-DIG.29 . c 35 N75-25123 * #
US-PATENT-CLASS-178-DIG.32 . c 71 N74-21014 * #
US-PATENT-CLASS-178-DIG.35 . c 09 N76-24280 * #
US-PATENT-CLASS-178-DIG.36 . c 08 N72-22164 * #
US-PATENT-CLASS-178-DIG.6 .... c 10 N73-13235 * #
US-PATENT-CLASS-178-DIG.8 .... c 14 N72-25412 * #
US-PATENT-CLASS-178-DIG.8 .... c 45 N76-17656 * #
US-PATENT-CLASS-178-15 ..... c 33 N75-19517 * #
US-PATENT-CLASS-178-18 ..... c 10 N73-32143 * #
US-PATENT-CLASS-178-22.16 .... c 32 N82-31583 * #
US-PATENT-CLASS-178-22.17 .... c 32 N82-31583 * #
US-PATENT-CLASS-178-5.2R ..... c 09 N71-28618 *
US-PATENT-CLASS-178-5.2R ..... c 07 N72-17109 * #
US-PATENT-CLASS-178-5.4 ..... c 07 N72-17109 * #
US-PATENT-CLASS-178-5.8R ..... c 71 N74-21014 * #
US-PATENT-CLASS-178-50 ..... c 08 N72-18184 * #
US-PATENT-CLASS-178-50 ..... c 08 N72-25208 * #
US-PATENT-CLASS-178-52 ..... c 08 N72-22162 * #
US-PATENT-CLASS-178-54CF .... c 09 N71-28618 *
US-PATENT-CLASS-178-54PE .... c 09 N71-28618 *
US-PATENT-CLASS-178-58A ..... c 32 N75-21486 * #
US-PATENT-CLASS-178-58R ..... c 32 N80-18252 * #
US-PATENT-CLASS-178-6.5 ..... c 23 N72-27728 * #
US-PATENT-CLASS-178-6.6DD ... c 07 N73-30115 * #
US-PATENT-CLASS-178-6.6DD ... c 35 N74-11283 * #
US-PATENT-CLASS-178-6.6 ..... c 07 N71-11300 * #
US-PATENT-CLASS-178-6.6 ..... c 07 N71-26102 *
US-PATENT-CLASS-178-6.7R .... c 35 N74-15831 * #
US-PATENT-CLASS-178-6.7 ..... c 07 N72-17109 * #
US-PATENT-CLASS-178-6.8 ..... c 08 N72-22164 * #
US-PATENT-CLASS-178-6.8 ..... c 14 N72-25412 * #
US-PATENT-CLASS-178-6.8 ..... c 07 N73-30115 * #
US-PATENT-CLASS-178-6.8 ..... c 33 N75-30431 * #
US-PATENT-CLASS-178-6.8 ..... c 45 N76-17656 * #
US-PATENT-CLASS-178-66R ..... c 32 N75-24981 * #
US-PATENT-CLASS-178-66 ..... c 09 N71-25866 *
US-PATENT-CLASS-178-66 ..... c 08 N72-18184 * #
US-PATENT-CLASS-178-67 ..... c 08 N70-41961 * #
US-PATENT-CLASS-178-67 ..... c 32 N74-26654 * #
US-PATENT-CLASS-178-69.1 .... c 32 N78-15323 * #
US-PATENT-CLASS-178-69.4R ... c 32 N74-10132 * #
US-PATENT-CLASS-178-69.5R ... c 07 N72-20140 * #
US-PATENT-CLASS-178-69.5R ... c 32 N75-26195 * #
US-PATENT-CLASS-178-69.5R ... c 33 N76-14371 * #
US-PATENT-CLASS-178-69.5R ... c 60 N77-19760 * #
US-PATENT-CLASS-178-69.5 ..... c 07 N71-11281 * #
US-PATENT-CLASS-178-69.5 ..... c 10 N71-19468 *
US-PATENT-CLASS-178-69.5 ..... c 10 N71-25865 *
US-PATENT-CLASS-178-69.5 ..... c 10 N71-33407 *
US-PATENT-CLASS-178-69.5 ..... c 07 N72-25173 * #
US-PATENT-CLASS-178-69.5 ..... c 07 N73-13149 * #
US-PATENT-CLASS-178-69.5 ..... c 09 N73-28084 * #
US-PATENT-CLASS-178-69.5 ..... c 17 N76-22245 * #
US-PATENT-CLASS-178-69A ..... c 35 N75-21582 * #
US-PATENT-CLASS-178-69C ..... c 32 N76-16249 * #
US-PATENT-CLASS-178-6 ..... c 07 N71-19433 *
US-PATENT-CLASS-178-6 ..... c 09 N71-19449 *
US-PATENT-CLASS-178-6 ..... c 07 N71-23026 *
US-PATENT-CLASS-178-6 ..... c 07 N71-26579 *
US-PATENT-CLASS-178-6 ..... c 07 N72-12081 *
US-PATENT-CLASS-178-6 ..... c 16 N72-13437 *
US-PATENT-CLASS-178-6 ..... c 10 N73-13235 * #
US-PATENT-CLASS-178-6 ..... c 36 N74-20009 * #
US-PATENT-CLASS-178-7.1 ..... c 07 N71-24612 *
US-PATENT-CLASS-178-7.1 ..... c 07 N71-27341 *
US-PATENT-CLASS-178-7.1 ..... c 09 N72-17156 * #
US-PATENT-CLASS-178-7.1 ..... c 32 N74-19790 * #
US-PATENT-CLASS-178-7.1 ..... c 36 N75-19652 * #
US-PATENT-CLASS-178-7.2R .... c 08 N72-22164 * #
US-PATENT-CLASS-178-7.2 ..... c 14 N70-41807 * #
US-PATENT-CLASS-178-7.2 ..... c 71 N74-21014 * #
US-PATENT-CLASS-178-7.2 ..... c 35 N75-25123 * #
US-PATENT-CLASS-178-7.3 ..... c 07 N71-27341 *
US-PATENT-CLASS-178-7.3 ..... c 07 N72-12081 *
US-PATENT-CLASS-178-7.5E .... c 10 N72-31273 * #
US-PATENT-CLASS-178-7.6 ..... c 36 N74-20009 * #
US-PATENT-CLASS-178-7.7 ..... c 09 N71-12539 * #
US-PATENT-CLASS-178-7.7 ..... c 32 N74-20813 * #
US-PATENT-CLASS-178-7.89 .... c 09 N76-24280 * #
US-PATENT-CLASS-178-7.92 .... c 14 N72-25414 * #
US-PATENT-CLASS-178-79 ..... c 32 N75-21486 * #
US-PATENT-CLASS-178-88 ..... c 07 N71-12392 * #
US-PATENT-CLASS-178-88 ..... c 33 N74-12887 * #
US-PATENT-CLASS-178-88 ..... c 32 N74-20809 * #
US-PATENT-CLASS-178-88 ..... c 33 N74-27705 * #
US-PATENT-CLASS-178-88 ..... c 33 N76-14371 * #
US-PATENT-CLASS-178-88 ..... c 32 N76-16249 * #
US-PATENT-CLASS-178-88 ..... c 32 N77-10392 * #
US-PATENT-CLASS-178-88 ..... c 32 N77-24331 * #
US-PATENT-CLASS-179-1DM ..... c 71 N79-23753 * #
US-PATENT-CLASS-179-1MF ..... c 71 N79-23753 * #
US-PATENT-CLASS-179-1MN ..... c 32 N79-23310 * #
US-PATENT-CLASS-179-1P ..... c 10 N73-12244 * #
US-PATENT-CLASS-179-1R ..... c 07 N71-33108 *
US-PATENT-CLASS-179-1SA ..... c 10 N73-25240 * #
US-PATENT-CLASS-179-1SA ..... c 32 N76-31372 * #
US-PATENT-CLASS-179-1SA ..... c 32 N77-30309 * #
US-PATENT-CLASS-179-1SP ..... c 32 N77-30309 * #
US-PATENT-CLASS-179-1VC ..... c 07 N71-33108 *
US-PATENT-CLASS-179-100.2A . c 21 N73-13644 * #
US-PATENT-CLASS-179-100.2A . c 32 N74-27612 * #
US-PATENT-CLASS-179-100.2B . c 32 N74-27612 * #
US-PATENT-CLASS-179-100.2CH c 36 N74-13205 * #
US-PATENT-CLASS-179-100.2CH c 35 N78-29421 * #
US-PATENT-CLASS-179-100.2CH c 35 N79-16246 * #
US-PATENT-CLASS-179-100.2C . c 35 N77-21392 * #
US-PATENT-CLASS-179-100.2K . c 07 N72-21119 * #
US-PATENT-CLASS-179-100.2MD c 35 N74-11283 * #
US-PATENT-CLASS-179-100.2T .. c 35 N74-11283 * #
US-PATENT-CLASS-179-100.2 .... c 09 N69-24329 * #
US-PATENT-CLASS-179-100.2 .... c 09 N71-25866 *
US-PATENT-CLASS-179-100.2 .... c 08 N71-27210 *
US-PATENT-CLASS-179-100.2 .... c 08 N71-27255 *
US-PATENT-CLASS-179-100-2CA c 09 N72-11224 *
US-PATENT-CLASS-179-100-2MD c 09 N72-11224 *
US-PATENT-CLASS-179-107R .... c 33 N78-10375 * #
US-PATENT-CLASS-179-15.55R . c 08 N72-11171 *
US-PATENT-CLASS-179-15.55R . c 08 N72-33172 * #
US-PATENT-CLASS-179-15AN .... c 07 N73-16121 * #
US-PATENT-CLASS-179-15AT .... c 32 N74-30524 * #
US-PATENT-CLASS-179-15A ..... c 08 N72-22162 * #
US-PATENT-CLASS-179-15A ..... c 07 N73-26118 * #
US-PATENT-CLASS-179-15BA .... c 60 N77-12721 * #
US-PATENT-CLASS-179-15BA .... c 32 N80-18252 * #
US-PATENT-CLASS-179-15BC .... c 08 N72-25208 * #
US-PATENT-CLASS-179-15BC .... c 07 N73-16121 * #
US-PATENT-CLASS-179-15BC .... c 32 N74-30523 * #
US-PATENT-CLASS-179-15BC .... c 33 N75-26243 * #
US-PATENT-CLASS-179-15BL .... c 08 N72-22162 * #
US-PATENT-CLASS-179-15BM .... c 07 N73-26118 * #
US-PATENT-CLASS-179-15BS .... c 10 N71-33407 *
US-PATENT-CLASS-179-15BS .... c 07 N72-20140 * #
US-PATENT-CLASS-179-15BS .... c 07 N73-30115 * #
US-PATENT-CLASS-179-15BS .... c 32 N75-26195 * #
US-PATENT-CLASS-179-15BS .... c 60 N77-19760 * #
US-PATENT-CLASS-179-15BV .... c 07 N72-25172 * #
US-PATENT-CLASS-179-15BY .... c 32 N74-30524 * #
US-PATENT-CLASS-179-15FD .... c 08 N72-25208 * #
US-PATENT-CLASS-179-15FS .... c 07 N73-28012 * #
US-PATENT-CLASS-179-15 ..... c 07 N69-39978 * #
US-PATENT-CLASS-179-15 ..... c 07 N71-20814 *
US-PATENT-CLASS-179-15 ..... c 07 N71-24621 *
US-PATENT-CLASS-179-15 ..... c 07 N71-24622 *
US-PATENT-CLASS-179-15 ..... c 08 N72-18184 * #
US-PATENT-CLASS-179-175.1A . c 14 N73-27379 * #
US-PATENT-CLASS-179-175.1A . c 33 N78-10375 * #
US-PATENT-CLASS-179-18GF .... c 33 N82-29538 * #
US-PATENT-CLASS-179-1 ..... c 07 N71-26181 *
US-PATENT-CLASS-179-1 ..... c 31 N71-33160 *
US-PATENT-CLASS-179-27CA .... c 32 N79-23310 * #
US-PATENT-CLASS-179-78 ..... c 33 N81-27397 * #
US-PATENT-CLASS-179-84VF .... c 32 N79-23310 * #
US-PATENT-CLASS-179-91R ..... c 74 N78-14889 * #
US-PATENT-CLASS-18-26 ..... c 06 N71-22975 *
US-PATENT-CLASS-18-39 ..... c 27 N70-34783 * #
US-PATENT-CLASS-18-6 ..... c 15 N71-26721 *
US-PATENT-CLASS-180-105E .... c 11 N72-20244 * #
US-PATENT-CLASS-180-118 ..... c 31 N71-15689 *
US-PATENT-CLASS-180-121 ..... c 31 N71-15689 *
US-PATENT-CLASS-180-125 ..... c 15 N72-17451 * #
US-PATENT-CLASS-180-127 ..... c 15 N72-17451 * #
US-PATENT-CLASS-180-168 ..... c 35 N84-33769 * #
US-PATENT-CLASS-180-41 ..... c 11 N73-26238 * #
US-PATENT-CLASS-180-6.5 ..... c 11 N73-26238 * #
US-PATENT-CLASS-180-7R ..... c 11 N73-26238 * #
US-PATENT-CLASS-180-79.3 ..... c 37 N74-18125 * #
US-PATENT-CLASS-180-8A ..... c 11 N73-26238 * #
US-PATENT-CLASS-180-9.2R ..... c 11 N73-26238 * #
US-PATENT-CLASS-180-9.5 ..... c 11 N73-26238 * #
US-PATENT-CLASS-181.5R ..... c 71 N74-31148 * #
US-PATENT-CLASS-181-.5 ..... c 11 N71-28779 *
US-PATENT-CLASS-181-0.5 ..... c 71 N85-30765 * #
US-PATENT-CLASS-181-102 ..... c 39 N80-10507 * #
US-PATENT-CLASS-181-102 ..... c 31 N80-32584 * #
US-PATENT-CLASS-181-105 ..... c 39 N80-10507 * #
US-PATENT-CLASS-181-106 ..... c 46 N79-22679 * #
US-PATENT-CLASS-181-115 ..... c 46 N79-23555 * #
US-PATENT-CLASS-181-117 ..... c 46 N79-22679 * #
US-PATENT-CLASS-181-120 ..... c 46 N79-23555 * #
US-PATENT-CLASS-181-121 ..... c 35 N84-22933 * #
US-PATENT-CLASS-181-148 ..... c 71 N79-23753 * #
US-PATENT-CLASS-181-190 ..... c 71 N79-14871 * #
US-PATENT-CLASS-181-213 ..... c 71 N79-14871 * #
US-PATENT-CLASS-181-213 ..... c 07 N83-33884 * #
US-PATENT-CLASS-181-214 ..... c 07 N81-14999 * #
US-PATENT-CLASS-181-214 ..... c 71 N82-16800 * #
US-PATENT-CLASS-181-222 ..... c 71 N79-14871 * #
US-PATENT-CLASS-181-293 ..... c 71 N79-14871 * #
US-PATENT-CLASS-181-33C ..... c 07 N74-32418 * #
US-PATENT-CLASS-181-33F ..... c 07 N74-32418 * #
US-PATENT-CLASS-181-33HB .... c 07 N74-27490 * #
US-PATENT-CLASS-181-33HC .... c 07 N74-33218 * #
US-PATENT-CLASS-181-33HC .... c 07 N76-18117 * #
US-PATENT-CLASS-181-33H ..... c 07 N74-32418 * #
US-PATENT-CLASS-181-33L ..... c 07 N74-32418 * #
US-PATENT-CLASS-181-42 ..... c 07 N74-32418 * #
US-PATENT-CLASS-181-43 ..... c 07 N74-15453 * #
US-PATENT-CLASS-181-52 ..... c 28 N70-41582 * #
US-PATENT-CLASS-182-10 ..... c 15 N71-27067 *
US-PATENT-CLASS-182-178 ..... c 39 N76-31562 * #
US-PATENT-CLASS-182-191 ..... c 05 N71-11199 * #
US-PATENT-CLASS-182-5 ..... c 15 N73-25512 * #
US-PATENT-CLASS-182-62.5 ..... c 31 N81-27324 * #
US-PATENT-CLASS-184-1 ..... c 15 N71-23048 *
US-PATENT-CLASS-185-38 ..... c 37 N78-16369 * #
US-PATENT-CLASS-187-1 ..... c 15 N72-25453 * #
US-PATENT-CLASS-187-20 ..... c 15 N72-25453 * #
US-PATENT-CLASS-187-7.1 ..... c 07 N71-24742 *
US-PATENT-CLASS-187-95 ..... c 15 N72-25453 * #
US-PATENT-CLASS-188-1B ..... c 15 N72-20443 * #
US-PATENT-CLASS-188-1B ..... c 19 N76-22284 * #
US-PATENT-CLASS-188-1C ..... c 15 N72-17450 * #
US-PATENT-CLASS-188-1C ..... c 15 N72-20443 * #
US-PATENT-CLASS-188-1C ..... c 15 N73-30460 * #

US-PATENT-CLASS-188-1C ..... c 11 N73-32152 * #
US-PATENT-CLASS-188-1C ..... c 37 N79-10420 * #
US-PATENT-CLASS-188-103 ..... c 15 N71-27146 *
US-PATENT-CLASS-188-129 ..... c 15 N72-17450 * #
US-PATENT-CLASS-188-134 ..... c 37 N81-15364 * #
US-PATENT-CLASS-188-151A .... c 44 N79-14527 * #
US-PATENT-CLASS-188-163 ..... c 37 N74-26976 * #
US-PATENT-CLASS-188-171 ..... c 37 N74-26976 * #
US-PATENT-CLASS-188-180 ..... c 37 N81-15364 * #
US-PATENT-CLASS-188-184 ..... c 37 N81-15364 * #
US-PATENT-CLASS-188-1 ..... c 15 N70-34861 * #
US-PATENT-CLASS-188-1 ..... c 15 N70-38601 * #
US-PATENT-CLASS-188-1 ..... c 15 N70-40354 * #
US-PATENT-CLASS-188-1 ..... c 14 N71-17626 *
US-PATENT-CLASS-188-1 ..... c 15 N71-22877 *
US-PATENT-CLASS-188-1 ..... c 14 N71-23092 *
US-PATENT-CLASS-188-1 ..... c 15 N71-26243 *
US-PATENT-CLASS-188-1 ..... c 15 N71-27146 *
US-PATENT-CLASS-188-1 ..... c 15 N71-27169 *
US-PATENT-CLASS-188-266 ..... c 15 N73-25513 * #
US-PATENT-CLASS-188-268 ..... c 15 N72-20443 * #
US-PATENT-CLASS-188-269 ..... c 44 N79-14527 * #
US-PATENT-CLASS-188-291 ..... c 54 N77-21844 * #
US-PATENT-CLASS-188-371 ..... c 37 N82-18601 * #
US-PATENT-CLASS-188-65.1 ..... c 15 N73-25512 * #
US-PATENT-CLASS-188-65.5 ..... c 15 N71-27067 *
US-PATENT-CLASS-188-87 ..... c 12 N71-16894 *
US-PATENT-CLASS-188-88 ..... c 15 N71-26611 *
US-PATENT-CLASS-189-36 ..... c 15 N70-36947 * #
US-PATENT-CLASS-19-205 ..... c 37 N76-18456 * #
US-PATENT-CLASS-191-12.2-R .. c 33 N86-20669 * #
US-PATENT-CLASS-192-43.1 ..... c 15 N71-17805 *
US-PATENT-CLASS-195-1.8 ..... c 51 N77-25769 * #
US-PATENT-CLASS-195-1.8 ..... c 51 N79-10694 * #
US-PATENT-CLASS-195-1.8 ..... c 52 N79-14749 * #
US-PATENT-CLASS-195-103.5K . c 51 N77-22794 * #
US-PATENT-CLASS-195-103.5K . c 52 N79-14750 * #
US-PATENT-CLASS-195-103.5L .. c 52 N79-14750 * #
US-PATENT-CLASS-195-103.5R . c 06 N72-25149 * #
US-PATENT-CLASS-195-103.5R . c 25 N75-12086 * #
US-PATENT-CLASS-195-103.5R . c 35 N75-27330 * #
US-PATENT-CLASS-195-103.5R . c 35 N75-33368 * #
US-PATENT-CLASS-195-103.5R . c 51 N76-29891 * #
US-PATENT-CLASS-195-103.5R . c 51 N77-22794 * #
US-PATENT-CLASS-195-103.5R . c 25 N79-22235 * #
US-PATENT-CLASS-195-120 ..... c 51 N75-13502 * #
US-PATENT-CLASS-195-120 ..... c 35 N75-27330 * #
US-PATENT-CLASS-195-127 ..... c 15 N72-21465 * #
US-PATENT-CLASS-195-127 ..... c 11 N72-25284 * #
US-PATENT-CLASS-195-127 ..... c 14 N72-25413 * #
US-PATENT-CLASS-195-127 ..... c 15 N73-20514 * #
US-PATENT-CLASS-195-127 ..... c 05 N73-32011 * #
US-PATENT-CLASS-195-127 ..... c 35 N75-12272 * #
US-PATENT-CLASS-195-127 ..... c 51 N75-13502 * #
US-PATENT-CLASS-195-127 ..... c 35 N75-27330 * #
US-PATENT-CLASS-195-127 ..... c 25 N79-22235 * #
US-PATENT-CLASS-195-127 ..... c 25 N79-24073 * #
US-PATENT-CLASS-195-141 ..... c 35 N75-27330 * #
US-PATENT-CLASS-195-28N ..... c 06 N72-25149 * #
US-PATENT-CLASS-195-66R ..... c 06 N73-27086 * #
US-PATENT-CLASS-195-68 ..... c 04 N69-27487 * #
US-PATENT-CLASS-195-99 ..... c 06 N71-17705 *
US-PATENT-CLASS-197-188 ..... c 37 N77-19457 * #
US-PATENT-CLASS-197-190 ..... c 37 N77-19457 * #
US-PATENT-CLASS-198-847 ..... c 37 N80-32717 * #
US-PATENT-CLASS-198-848 ..... c 37 N80-32717 * #
US-PATENT-CLASS-1 ..... c 14 N71-27005 *
US-PATENT-CLASS-2-115 ..... c 05 N72-25119 * #
US-PATENT-CLASS-2-14 ..... c 05 N71-23096 *
US-PATENT-CLASS-2-161R ..... c 54 N84-23113 * #
US-PATENT-CLASS-2-161R ..... c 54 N84-28484 * #
US-PATENT-CLASS-2-161 ..... c 54 N78-17677 * #
US-PATENT-CLASS-2-164 ..... c 54 N84-28484 * #
US-PATENT-CLASS-2-167 ..... c 54 N84-23113 * #
US-PATENT-CLASS-2-167 ..... c 54 N84-28484 * #
US-PATENT-CLASS-2-2.1A ..... c 05 N72-22092 * #
US-PATENT-CLASS-2-2.1A ..... c 05 N73-25125 * #
US-PATENT-CLASS-2-2.1A ..... c 05 N73-32012 * #
US-PATENT-CLASS-2-2.1A ..... c 54 N74-32546 * #
US-PATENT-CLASS-2-2.1A ..... c 54 N77-32721 * #
US-PATENT-CLASS-2-2.1A ..... c 54 N78-17675 * #
US-PATENT-CLASS-2-2.1A ..... c 54 N78-31735 * #
US-PATENT-CLASS-2-2.1A ..... c 54 N78-31736 * #
US-PATENT-CLASS-2-2.1A ..... c 54 N79-24651 * #
US-PATENT-CLASS-2-2.1 ..... c 05 N71-11194 * #
US-PATENT-CLASS-2-2.1 ..... c 05 N71-11195 * #
US-PATENT-CLASS-2-2.1 ..... c 05 N71-12335 * #
US-PATENT-CLASS-2-2.1 ..... c 05 N71-12344 * #
US-PATENT-CLASS-2-2.1 ..... c 05 N71-23161 *
US-PATENT-CLASS-2-2.1 ..... c 05 N71-24623 *
US-PATENT-CLASS-2-2.1 ..... c 05 N71-24730 *
US-PATENT-CLASS-2-2.1 ..... c 05 N72-20096 * #
US-PATENT-CLASS-2-2.1 ..... c 05 N72-20098 * #
US-PATENT-CLASS-2-2.1 ..... c 05 N72-25119 * #
US-PATENT-CLASS-2-2.1 ..... c 05 N73-26071 * #
US-PATENT-CLASS-2-2.1 ..... c 34 N78-17337 * #
US-PATENT-CLASS-2-2.1 ..... c 54 N78-17678 * #
US-PATENT-CLASS-2-2.1 ..... c 54 N78-18761 * #
US-PATENT-CLASS-2-275 ..... c 18 N71-26285 *
US-PATENT-CLASS-2-6 ..... c 05 N71-26333 *
US-PATENT-CLASS-2-6 ..... c 54 N78-17680 * #
US-PATENT-CLASS-2-81 ..... c 18 N71-26285 *
US-PATENT-CLASS-2-81 ..... c 05 N73-32012 * #
US-PATENT-CLASS-2-82 ..... c 54 N74-32546 * #
US-PATENT-CLASS-200-114 ..... c 33 N79-33393 * #
US-PATENT-CLASS-200-129 ..... c 33 N75-27249 * #
US-PATENT-CLASS-200-152 ..... c 09 N71-19610 *
US-PATENT-CLASS-200-153S ..... c 33 N80-18285 * #
US-PATENT-CLASS-200-19 ..... c 09 N70-39915 * #
US-PATENT-CLASS-200-304 ..... c 33 N80-18285 * #
US-PATENT-CLASS-200-39 ..... c 03 N70-38713 * #
US-PATENT-CLASS-200-46 ..... c 74 N79-12890 * #
US-PATENT-CLASS-200-61.42 .... c 09 N71-12518 * #
US-PATENT-CLASS-200-61.45 .... c 14 N70-41812 * #
US-PATENT-CLASS-200-61 ..... c 74 N79-12890 * #
US-PATENT-CLASS-200-64 ..... c 15 N72-17455 * #
US-PATENT-CLASS-200-6 ..... c 10 N71-15909 *
US-PATENT-CLASS-200-6 ..... c 09 N71-16089 *
US-PATENT-CLASS-200-81.9M ... c 09 N72-20199 * #
US-PATENT-CLASS-200-81R ..... c 09 N72-22204 * #
US-PATENT-CLASS-200-82C ..... c 09 N72-22204 * #
US-PATENT-CLASS-200-82 ..... c 10 N71-23663 *
US-PATENT-CLASS-200-83N ..... c 35 N75-15931 * #
US-PATENT-CLASS-200-83 ..... c 33 N79-33392 * #
US-PATENT-CLASS-201-10 ..... c 27 N81-17261 * #
US-PATENT-CLASS-201-17 ..... c 44 N78-31527 * #
US-PATENT-CLASS-201-17 ..... c 25 N81-33246 * #
US-PATENT-CLASS-201-17 ..... c 25 N82-29371 * #
US-PATENT-CLASS-201-17 ..... c 25 N83-31743 * #
US-PATENT-CLASS-201-17 ..... c 25 N85-35253 * #
US-PATENT-CLASS-201-25 ..... c 27 N81-17261 * #
US-PATENT-CLASS-201-8 ..... c 27 N81-17261 * #
US-PATENT-CLASS-202-118 ..... c 31 N81-15154 * #
US-PATENT-CLASS-202-182 ..... c 05 N71-11207 * #
US-PATENT-CLASS-202-234 ..... c 15 N71-23086 *
US-PATENT-CLASS-203-12 ..... c 25 N82-28368 * #
US-PATENT-CLASS-204-DIG.11 . c 25 N77-32255 * #
US-PATENT-CLASS-204-DIG.3 .... c 25 N84-12262 * #
US-PATENT-CLASS-204-DIG.3 .... c 44 N84-23019 * #
US-PATENT-CLASS-204-1T ..... c 25 N79-22235 * #
US-PATENT-CLASS-204-1T ..... c 51 N81-28698 * #
US-PATENT-CLASS-204-1T ..... c 25 N82-12166 * #
US-PATENT-CLASS-204-1T ..... c 76 N84-35112 * #
US-PATENT-CLASS-204-1T ..... c 35 N85-29212 * #
US-PATENT-CLASS-204-1T ..... c 76 N85-30923 * #
US-PATENT-CLASS-204-129.55 .. c 31 N83-19947 * #
US-PATENT-CLASS-204-129.75 .. c 31 N83-19947 * #
US-PATENT-CLASS-204-129 ..... c 28 N81-24280 * #
US-PATENT-CLASS-204-129 ..... c 25 N84-12262 * #
US-PATENT-CLASS-204-129 ..... c 44 N84-23019 * #
US-PATENT-CLASS-204-130 ..... c 15 N72-21466 * #
US-PATENT-CLASS-204-157.1H . c 25 N74-30502 * #
US-PATENT-CLASS-204-157.1H . c 37 N76-18458 * #
US-PATENT-CLASS-204-157.1R . c 25 N77-32255 * #
US-PATENT-CLASS-204-157.1R . c 44 N77-32580 * #
US-PATENT-CLASS-204-157.1R . c 44 N79-11470 * #
US-PATENT-CLASS-204-157.18AG c 15 N72-25452 * #
US-PATENT-CLASS-204-158R .... c 25 N77-32255 * #
US-PATENT-CLASS-204-159.11 .. c 27 N80-32516 * #
US-PATENT-CLASS-204-159.14 .. c 27 N80-32516 * #
US-PATENT-CLASS-204-159.15 .. c 27 N80-26446 * #
US-PATENT-CLASS-204-159.19 .. c 27 N80-26446 * #
US-PATENT-CLASS-204-162R .... c 25 N77-32255 * #
US-PATENT-CLASS-204-164 ..... c 26 N78-32229 * #
US-PATENT-CLASS-204-168 ..... c 24 N71-25555 *
US-PATENT-CLASS-204-16 ..... c 24 N77-19171 * #
US-PATENT-CLASS-204-171 ..... c 27 N80-23452 * #
US-PATENT-CLASS-204-175 ..... c 26 N78-32229 * #
US-PATENT-CLASS-204-177 ..... c 25 N75-12087 * #
US-PATENT-CLASS-204-180G .... c 25 N78-14104 * #
US-PATENT-CLASS-204-180G .... c 25 N79-14169 * #
US-PATENT-CLASS-204-180G .... c 37 N80-14397 * #
US-PATENT-CLASS-204-180P .... c 54 N78-14784 * #
US-PATENT-CLASS-204-180R .... c 25 N74-26948 * #
US-PATENT-CLASS-204-180R .... c 34 N74-27744 * #
US-PATENT-CLASS-204-180R .... c 51 N80-16715 * #
US-PATENT-CLASS-204-180S .... c 25 N79-10163 * #
US-PATENT-CLASS-204-180S .... c 25 N79-14169 * #
US-PATENT-CLASS-204-192-C ... c 27 N86-19458 * #
US-PATENT-CLASS-204-192-D ... c 27 N86-19458 * #
US-PATENT-CLASS-204-192-R ... c 27 N86-19458 * #
US-PATENT-CLASS-204-192C .... c 76 N79-14906 * #
US-PATENT-CLASS-204-192C .... c 26 N82-29415 * #
US-PATENT-CLASS-204-192C .... c 26 N82-30371 * #
US-PATENT-CLASS-204-192C .... c 24 N84-22695 * #
US-PATENT-CLASS-204-192C .... c 31 N85-20153 * #
US-PATENT-CLASS-204-192C .... c 24 N85-21267 * #
US-PATENT-CLASS-204-192C .... c 76 N85-33826 * #
US-PATENT-CLASS-204-192EC .. c 27 N82-28440 * #
US-PATENT-CLASS-204-192EC .. c 27 N82-33521 * #
US-PATENT-CLASS-204-192EC .. c 33 N84-22884 * #
US-PATENT-CLASS-204-192E ..... c 37 N81-19455 * #
US-PATENT-CLASS-204-192E ..... c 27 N82-28440 * #
US-PATENT-CLASS-204-192E ..... c 27 N82-33521 * #
US-PATENT-CLASS-204-192E ..... c 24 N83-10117 * #
US-PATENT-CLASS-204-192E ..... c 52 N84-23095 * #
US-PATENT-CLASS-204-192N ..... c 24 N85-21267 * #
US-PATENT-CLASS-204-192N ..... c 26 N85-29005 * #
US-PATENT-CLASS-204-192P ..... c 76 N85-33826 * #
US-PATENT-CLASS-204-192R ..... c 24 N84-22695 * #
US-PATENT-CLASS-204-192R ..... c 31 N85-20153 * #
US-PATENT-CLASS-204-192R ..... c 24 N85-21267 * #
US-PATENT-CLASS-204-192SP .. c 24 N84-22695 * #
US-PATENT-CLASS-204-192SP .. c 31 N85-20153 * #
US-PATENT-CLASS-204-192 ..... c 15 N73-12487 * #
US-PATENT-CLASS-204-192 ..... c 17 N73-24569 * #
US-PATENT-CLASS-204-192 ..... c 27 N74-13270 * #
US-PATENT-CLASS-204-192 ..... c 20 N74-31269 * #
US-PATENT-CLASS-204-192 ..... c 37 N75-19684 * #
US-PATENT-CLASS-204-192 ..... c 44 N77-14580 * #
US-PATENT-CLASS-204-195B .... c 25 N79-24073 * #
US-PATENT-CLASS-204-195B .... c 51 N80-27067 * #
US-PATENT-CLASS-204-195B .... c 51 N81-28698 * #
US-PATENT-CLASS-204-195B .... c 35 N82-28604 * #
US-PATENT-CLASS-204-195R .... c 33 N76-19339 * #
US-PATENT-CLASS-204-195S .... c 25 N82-12166 * #
US-PATENT-CLASS-204-195W ... c 35 N78-25391 * #
US-PATENT-CLASS-204-195 ..... c 14 N71-17575 *
US-PATENT-CLASS-204-2.1 ..... c 44 N81-29524 * #
US-PATENT-CLASS-204-20 ..... c 18 N71-16210 *
US-PATENT-CLASS-204-222 ..... c 31 N74-23065 * #
US-PATENT-CLASS-204-224 ..... c 37 N80-14395 * #
US-PATENT-CLASS-204-242 ..... c 33 N75-27252 * #
US-PATENT-CLASS-204-242 ..... c 25 N84-12262 * #
US-PATENT-CLASS-204-252 ..... c 28 N81-24280 * #
US-PATENT-CLASS-204-263 ..... c 14 N71-28933 *
US-PATENT-CLASS-204-263 ..... c 25 N82-12166 * #
US-PATENT-CLASS-204-264 ..... c 25 N82-12166 * #
US-PATENT-CLASS-204-266 ..... c 28 N81-24280 * #
US-PATENT-CLASS-204-266 ..... c 25 N82-12166 * #
US-PATENT-CLASS-204-267 ..... c 33 N75-27252 * #
US-PATENT-CLASS-204-275 ..... c 25 N82-12166 * #
US-PATENT-CLASS-204-276 ..... c 25 N82-12166 * #
US-PATENT-CLASS-204-278 ..... c 25 N82-12166 * #
US-PATENT-CLASS-204-278 ..... c 25 N84-12262 * #
US-PATENT-CLASS-204-278 ..... c 44 N84-23019 * #
US-PATENT-CLASS-204-279 ..... c 33 N75-27252 * #
US-PATENT-CLASS-204-280R .... c 25 N83-13187 * #
US-PATENT-CLASS-204-280 ..... c 44 N84-23019 * #
US-PATENT-CLASS-204-286 ..... c 33 N75-27252 * #
US-PATENT-CLASS-204-290F .... c 28 N81-24280 * #
US-PATENT-CLASS-204-290F .... c 44 N82-29710 * #
US-PATENT-CLASS-204-290R .... c 33 N75-27252 * #
US-PATENT-CLASS-204-290R .... c 28 N81-24280 * #
US-PATENT-CLASS-204-290R .... c 44 N82-29710 * #
US-PATENT-CLASS-204-290R .... c 25 N84-12262 * #
US-PATENT-CLASS-204-290 ..... c 44 N84-28205 * #
US-PATENT-CLASS-204-291 ..... c 28 N81-24280 * #
US-PATENT-CLASS-204-292 ..... c 25 N78-10225 * #
US-PATENT-CLASS-204-298 ..... c 15 N70-34967 * #
US-PATENT-CLASS-204-298 ..... c 09 N71-26701 *
US-PATENT-CLASS-204-298 ..... c 15 N72-32487 * #
US-PATENT-CLASS-204-298 ..... c 37 N75-19684 * #
US-PATENT-CLASS-204-299R .... c 25 N78-14104 * #
US-PATENT-CLASS-204-299R .... c 25 N79-14169 * #
US-PATENT-CLASS-204-299R .... c 37 N80-14397 * #
US-PATENT-CLASS-204-299R .... c 51 N80-16715 * #
US-PATENT-CLASS-204-299R .... c 25 N83-10126 * #
US-PATENT-CLASS-204-299R .... c 25 N83-13187 * #
US-PATENT-CLASS-204-299 ..... c 34 N74-27744 * #
US-PATENT-CLASS-204-299 ..... c 25 N79-10163 * #
US-PATENT-CLASS-204-301 ..... c 54 N78-14784 * #
US-PATENT-CLASS-204-305 ..... c 03 N71-24718 *
US-PATENT-CLASS-204-30 ..... c 09 N71-28691 *
US-PATENT-CLASS-204-32A ..... c 33 N77-26385 * #
US-PATENT-CLASS-204-32R ..... c 44 N76-14595 * #
US-PATENT-CLASS-204-324 ..... c 33 N73-16918 * #
US-PATENT-CLASS-204-325 ..... c 33 N73-16918 * #
US-PATENT-CLASS-204-328 ..... c 33 N73-16918 * #
US-PATENT-CLASS-204-32 ..... c 44 N79-11469 * #
US-PATENT-CLASS-204-33 ..... c 17 N71-25903 *
US-PATENT-CLASS-204-33 ..... c 44 N76-14595 * #
US-PATENT-CLASS-204-33 ..... c 44 N79-11469 * #
US-PATENT-CLASS-204-33 ..... c 44 N83-34449 * #
US-PATENT-CLASS-204-35N ..... c 27 N83-29388 * #
US-PATENT-CLASS-204-35N ..... c 44 N83-34449 * #
US-PATENT-CLASS-204-37.6 ..... c 76 N84-35112 * #
US-PATENT-CLASS-204-37R ..... c 44 N79-11469 * #
US-PATENT-CLASS-204-37R ..... c 27 N83-29388 * #
US-PATENT-CLASS-204-37 ..... c 33 N71-29151 *
US-PATENT-CLASS-204-38A ..... c 44 N76-14595 * #
US-PATENT-CLASS-204-38B ..... c 44 N79-11469 * #
US-PATENT-CLASS-204-38B ..... c 27 N82-33521 * #
US-PATENT-CLASS-204-38 ..... c 17 N71-24830 *
US-PATENT-CLASS-204-40 ..... c 44 N76-14595 * #
US-PATENT-CLASS-204-40 ..... c 24 N77-19171 * #
US-PATENT-CLASS-204-42 ..... c 44 N76-14595 * #
US-PATENT-CLASS-204-430 ..... c 35 N85-29212 * #

US-PATENT-CLASS-204-49 ..... c 15 N72-25452 * #
US-PATENT-CLASS-204-49 ..... c 44 N76-14595 * #
US-PATENT-CLASS-204-56R ..... c 44 N83-10494 * #
US-PATENT-CLASS-204-56R ..... c 27 N83-29388 * #
US-PATENT-CLASS-204-56R ..... c 76 N84-35112 * #
US-PATENT-CLASS-204-59 ..... c 15 N72-21466 * #
US-PATENT-CLASS-204-9 ..... c 20 N74-32919 * #
US-PATENT-CLASS-204-9 ..... c 24 N77-19171 * #
US-PATENT-CLASS-204/298 ..... c 27 N86-19458 * #
US-PATENT-CLASS-2041-195B .. c 25 N79-22235 * #
US-PATENT-CLASS-205-343 ..... c 35 N75-30502 * #
US-PATENT-CLASS-206-439 ..... c 52 N79-14749 * #
US-PATENT-CLASS-206-447 ..... c 27 N84-14323 * #
US-PATENT-CLASS-206-582 ..... c 27 N84-14323 * #
US-PATENT-CLASS-208-10 ..... c 25 N79-11152 * #
US-PATENT-CLASS-208-10 ..... c 23 N84-16255 * #
US-PATENT-CLASS-208-10 ..... c 25 N84-22709 * #
US-PATENT-CLASS-208-241 ..... c 25 N82-23282 * #
US-PATENT-CLASS-208-8LE ..... c 23 N84-16255 * #
US-PATENT-CLASS-208-8LE ..... c 25 N84-22709 * #
US-PATENT-CLASS-208-8 ..... c 25 N79-11152 * #
US-PATENT-CLASS-209-10 ..... c 15 N71-20440 *
US-PATENT-CLASS-209-127R .... c 35 N76-22509 * #
US-PATENT-CLASS-209-250 ..... c 37 N76-18456 * #
US-PATENT-CLASS-209-300 ..... c 37 N76-18456 * #
US-PATENT-CLASS-209-305 ..... c 37 N76-18456 * #
US-PATENT-CLASS-209-349 ..... c 15 N72-22483 * #
US-PATENT-CLASS-209-422 ..... c 71 N85-30765 * #
US-PATENT-CLASS-209-638 ..... c 71 N85-30765 * #
US-PATENT-CLASS-21-207 ..... c 17 N71-16393 *
US-PATENT-CLASS-210-DIG.23 . c 52 N79-14749 * #
US-PATENT-CLASS-210-DIG.27 . c 27 N77-31308 * #
US-PATENT-CLASS-210-103 ..... c 05 N72-27102 * #
US-PATENT-CLASS-210-104 ..... c 05 N72-27102 * #
US-PATENT-CLASS-210-108 ..... c 34 N79-24285 * #
US-PATENT-CLASS-210-110 ..... c 05 N72-27102 * #
US-PATENT-CLASS-210-137 ..... c 05 N72-27102 * #
US-PATENT-CLASS-210-142 ..... c 34 N79-24285 * #
US-PATENT-CLASS-210-151 ..... c 45 N84-12654 * #
US-PATENT-CLASS-210-186 ..... c 37 N80-10494 * #
US-PATENT-CLASS-210-188 ..... c 12 N72-25292 * #
US-PATENT-CLASS-210-192 ..... c 54 N78-14784 * #
US-PATENT-CLASS-210-212 ..... c 03 N72-20033 * #
US-PATENT-CLASS-210-222 ..... c 35 N78-12390 * #
US-PATENT-CLASS-210-22 ..... c 52 N80-14687 * #
US-PATENT-CLASS-210-23F ..... c 51 N79-10693 * #
US-PATENT-CLASS-210-23H ..... c 27 N80-23452 * #
US-PATENT-CLASS-210-234 ..... c 34 N75-33342 * #
US-PATENT-CLASS-210-24R ..... c 27 N81-14076 * #
US-PATENT-CLASS-210-24 ..... c 27 N77-30236 * #
US-PATENT-CLASS-210-24 ..... c 25 N81-19244 * #
US-PATENT-CLASS-210-259 ..... c 34 N75-33342 * #
US-PATENT-CLASS-210-28 ..... c 85 N79-17747 * #
US-PATENT-CLASS-210-304 ..... c 34 N75-33342 * #
US-PATENT-CLASS-210-314 ..... c 28 N70-41447 * #
US-PATENT-CLASS-210-321.1 .... c 25 N82-21269 * #
US-PATENT-CLASS-210-321B .... c 52 N80-14687 * #
US-PATENT-CLASS-210-333 ..... c 34 N75-33342 * #
US-PATENT-CLASS-210-340 ..... c 34 N75-33342 * #
US-PATENT-CLASS-210-340 ..... c 37 N80-10494 * #
US-PATENT-CLASS-210-40 ..... c 27 N77-31308 * #
US-PATENT-CLASS-210-40 ..... c 85 N79-17747 * #
US-PATENT-CLASS-210-40 ..... c 45 N82-11634 * #
US-PATENT-CLASS-210-411 ..... c 34 N75-33342 * #
US-PATENT-CLASS-210-425 ..... c 34 N75-33342 * #
US-PATENT-CLASS-210-429 ..... c 37 N76-14463 * #
US-PATENT-CLASS-210-433M .... c 51 N79-10693 * #
US-PATENT-CLASS-210-445 ..... c 15 N72-11389 *
US-PATENT-CLASS-210-45 ..... c 85 N79-17747 * #
US-PATENT-CLASS-210-500M .... c 27 N80-23452 * #
US-PATENT-CLASS-210-500M .... c 25 N81-17187 * #
US-PATENT-CLASS-210-500 ..... c 25 N75-12087 * #
US-PATENT-CLASS-210-50 ..... c 45 N79-12584 * #
US-PATENT-CLASS-210-512 ..... c 34 N75-33342 * #
US-PATENT-CLASS-210-54 ..... c 85 N79-17747 * #
US-PATENT-CLASS-210-57 ..... c 45 N80-14579 * #
US-PATENT-CLASS-210-602 ..... c 45 N84-12654 * #
US-PATENT-CLASS-210-605 ..... c 45 N84-12654 * #
US-PATENT-CLASS-210-60 ..... c 45 N79-12584 * #
US-PATENT-CLASS-210-617 ..... c 45 N84-12654 * #
US-PATENT-CLASS-210-63R ..... c 25 N78-10225 * #
US-PATENT-CLASS-210-63R ..... c 45 N79-12584 * #
US-PATENT-CLASS-210-63Z ..... c 45 N80-14579 * #
US-PATENT-CLASS-210-66 ..... c 85 N79-17747 * #
US-PATENT-CLASS-210-67 ..... c 85 N79-17747 * #
US-PATENT-CLASS-210-70 ..... c 85 N79-17747 * #
US-PATENT-CLASS-210-71 ..... c 25 N78-10225 * #
US-PATENT-CLASS-210-73R ..... c 85 N79-17747 * #
US-PATENT-CLASS-210-748 ..... c 71 N83-35781 * #
US-PATENT-CLASS-210-748 ..... c 35 N84-17555 * #
US-PATENT-CLASS-210-82 ..... c 34 N75-33342 * #
US-PATENT-CLASS-210-96M ..... c 54 N78-14784 * #
US-PATENT-CLASS-210-96M ..... c 51 N79-10693 * #
US-PATENT-CLASS-211-126 ..... c 35 N86-20751 * #
US-PATENT-CLASS-211-74 ..... c 35 N86-20751 * #
US-PATENT-CLASS-212-11 ..... c 32 N71-17609 *
US-PATENT-CLASS-212-134 ..... c 15 N72-11388 *
US-PATENT-CLASS-212-230 ..... c 37 N86-20789 * #
US-PATENT-CLASS-212-267 ..... c 31 N81-27324 * #
US-PATENT-CLASS-213-81 ..... c 37 N77-23483 * #
US-PATENT-CLASS-214-ICM ..... c 37 N76-15460 * #
US-PATENT-CLASS-214-1BC ..... c 54 N77-32721 * #
US-PATENT-CLASS-214-1B ..... c 54 N75-27758 * #
US-PATENT-CLASS-214-1CM ..... c 15 N72-28495 * #
US-PATENT-CLASS-214-1CM ..... c 54 N75-12616 * #
US-PATENT-CLASS-214-1CM ..... c 18 N75-27041 * #
US-PATENT-CLASS-214-1CM ..... c 54 N75-27758 * #
US-PATENT-CLASS-214-1CM ..... c 37 N77-23483 * #
US-PATENT-CLASS-214-1CM ..... c 54 N77-32721 * #
US-PATENT-CLASS-214-1CM ..... c 54 N78-17676 * #
US-PATENT-CLASS-214-1R ..... c 37 N76-15457 * #
US-PATENT-CLASS-214-16.1CB . c 37 N77-22480 * #
US-PATENT-CLASS-214-1 ..... c 32 N70-41367 * #
US-PATENT-CLASS-214-90R ..... c 03 N72-25021 * #
US-PATENT-CLASS-215-247 ..... c 33 N76-19339 * #
US-PATENT-CLASS-219-10.41 .... c 33 N82-26571 * #
US-PATENT-CLASS-219-10.43 .... c 31 N85-29083 * #
US-PATENT-CLASS-219-10.49R . c 33 N81-19389 * #
US-PATENT-CLASS-219-10.49 .... c 11 N71-15925 *
US-PATENT-CLASS-219-10.49 .... c 31 N85-29083 * #
US-PATENT-CLASS-219-10.53 .... c 33 N82-26571 * #
US-PATENT-CLASS-219-10.53 .... c 31 N85-29083 * #
US-PATENT-CLASS-219-10.67 .... c 33 N81-19389 * #
US-PATENT-CLASS-219-10.77 .... c 31 N85-29083 * #
US-PATENT-CLASS-219-101 ..... c 15 N73-14468 * #
US-PATENT-CLASS-219-101 ..... c 37 N74-11300 * #
US-PATENT-CLASS-219-107 ..... c 15 N73-28515 * #
US-PATENT-CLASS-219-107 ..... c 37 N74-11300 * #
US-PATENT-CLASS-219-109 ..... c 15 N72-23497 * #
US-PATENT-CLASS-219-117 ..... c 15 N73-32358 * #
US-PATENT-CLASS-219-118 ..... c 37 N76-27568 * #
US-PATENT-CLASS-219-118 ..... c 37 N77-11397 * #
US-PATENT-CLASS-219-119 ..... c 15 N73-14468 * #
US-PATENT-CLASS-219-121LN .. c 44 N82-26777 * #
US-PATENT-CLASS-219-121P ..... c 15 N72-32487 * #
US-PATENT-CLASS-219-121 ..... c 15 N69-21471 * #
US-PATENT-CLASS-219-121 ..... c 33 N70-34540 * #
US-PATENT-CLASS-219-121 ..... c 15 N71-19486 *
US-PATENT-CLASS-219-121 ..... c 16 N71-20400 *
US-PATENT-CLASS-219-121 ..... c 15 N71-27135 *
US-PATENT-CLASS-219-124.2-2 c 37 N79-10421 * #
US-PATENT-CLASS-219-124.32 .. c 37 N79-10421 * #
US-PATENT-CLASS-219-124.34 .. c 37 N86-21850 * #
US-PATENT-CLASS-219-125.1 .... c 37 N79-10421 * #
US-PATENT-CLASS-219-125 ..... c 15 N71-23815 *
US-PATENT-CLASS-219-125 ..... c 37 N75-27376 * #
US-PATENT-CLASS-219-130 ..... c 15 N71-23798 * #
US-PATENT-CLASS-219-131 ..... c 15 N71-15871 *
US-PATENT-CLASS-219-137 ..... c 15 N70-34814 * #
US-PATENT-CLASS-219-137 ..... c 37 N75-19683 * #
US-PATENT-CLASS-219-158 ..... c 15 N72-22491 * #
US-PATENT-CLASS-219-160 ..... c 37 N80-23655 * #
US-PATENT-CLASS-219-161 ..... c 37 N80-23655 * #
US-PATENT-CLASS-219-19 ..... c 33 N70-34812 * #
US-PATENT-CLASS-219-201 ..... c 52 N80-16725 * #
US-PATENT-CLASS-219-201 ..... c 37 N85-29286 * #
US-PATENT-CLASS-219-203 ..... c 11 N73-12265 * #
US-PATENT-CLASS-219-203 ..... c 27 N84-33589 * #
US-PATENT-CLASS-219-209 ..... c 35 N81-26431 * #
US-PATENT-CLASS-219-210 ..... c 35 N81-26431 * #
US-PATENT-CLASS-219-216 ..... c 35 N74-15831 * #
US-PATENT-CLASS-219-219 ..... c 27 N84-33589 * #
US-PATENT-CLASS-219-221 ..... c 15 N72-11392 *
US-PATENT-CLASS-219-221 ..... c 37 N85-29286 * #
US-PATENT-CLASS-219-229 ..... c 15 N71-27214 *
US-PATENT-CLASS-219-234 ..... c 15 N72-22491 * #
US-PATENT-CLASS-219-234 ..... c 15 N72-23497 * #
US-PATENT-CLASS-219-243 ..... c 15 N72-11392 *
US-PATENT-CLASS-219-273 ..... c 15 N72-32487 * #
US-PATENT-CLASS-219-275 ..... c 15 N71-20395 *
US-PATENT-CLASS-219-285 ..... c 37 N85-29286 * #
US-PATENT-CLASS-219-299 ..... c 51 N79-10694 * #
US-PATENT-CLASS-219-300 ..... c 37 N77-13418 * #
US-PATENT-CLASS-219-302 ..... c 51 N79-10694 * #
US-PATENT-CLASS-219-304 ..... c 37 N77-13418 * #
US-PATENT-CLASS-219-343 ..... c 27 N83-36220 * #
US-PATENT-CLASS-219-347 ..... c 15 N69-27871 * #
US-PATENT-CLASS-219-347 ..... c 33 N70-34545 * #
US-PATENT-CLASS-219-348 ..... c 15 N73-27405 * #
US-PATENT-CLASS-219-34 ..... c 09 N70-33312 *
US-PATENT-CLASS-219-354 ..... c 27 N83-36220 * #
US-PATENT-CLASS-219-364 ..... c 33 N71-16278 *
US-PATENT-CLASS-219-378 ..... c 33 N71-25353 *
US-PATENT-CLASS-219-388 ..... c 35 N74-15831 * #
US-PATENT-CLASS-219-390 ..... c 27 N83-36220 * #
US-PATENT-CLASS-219-390 ..... c 35 N86-20750 * #
US-PATENT-CLASS-219-395 ..... c 35 N86-20750 * #
US-PATENT-CLASS-219-396 ..... c 35 N86-20750 * #
US-PATENT-CLASS-219-410 ..... c 12 N79-26075 * #
US-PATENT-CLASS-219-411 ..... c 17 N69-25147 * #
US-PATENT-CLASS-219-411 ..... c 27 N83-36220 * #
US-PATENT-CLASS-219-413 ..... c 14 N71-28958 *
US-PATENT-CLASS-219-477 ..... c 33 N74-14935 * #
US-PATENT-CLASS-219-497 ..... c 77 N75-20140 * #
US-PATENT-CLASS-219-499 ..... c 14 N73-26430 * #
US-PATENT-CLASS-219-501 ..... c 77 N75-20140 * #
US-PATENT-CLASS-219-505 ..... c 14 N71-27058 *
US-PATENT-CLASS-219-505 ..... c 77 N75-20140 * #
US-PATENT-CLASS-219-50 ..... c 14 N73-26430 * #
US-PATENT-CLASS-219-510 ..... c 35 N81-26431 * #
US-PATENT-CLASS-219-522 ..... c 11 N73-12265 * #
US-PATENT-CLASS-219-522 ..... c 52 N80-16725 * #
US-PATENT-CLASS-219-522 ..... c 27 N84-33589 * #
US-PATENT-CLASS-219-530 ..... c 33 N71-25353 *
US-PATENT-CLASS-219-539 ..... c 33 N74-14935 * #
US-PATENT-CLASS-219-541 ..... c 27 N84-33589 * #
US-PATENT-CLASS-219-543 ..... c 27 N84-33589 * #
US-PATENT-CLASS-219-545 ..... c 33 N82-26571 * #
US-PATENT-CLASS-219-62 ..... c 15 N73-28515 * #
US-PATENT-CLASS-219-72 ..... c 15 N71-14932 * #
US-PATENT-CLASS-219-76.14 .... c 24 N85-30027 * #
US-PATENT-CLASS-219-78 ..... c 37 N74-11300 * #
US-PATENT-CLASS-219-85CA .... c 35 N80-20560 * #
US-PATENT-CLASS-219-85CM ... c 35 N80-20560 * #
US-PATENT-CLASS-219-85R ..... c 35 N80-20560 * #
US-PATENT-CLASS-219-85 ..... c 15 N72-22491 * #
US-PATENT-CLASS-219-85 ..... c 15 N72-23497 * #
US-PATENT-CLASS-219-91 ..... c 15 N71-18613 * #
US-PATENT-CLASS-219-91 ..... c 15 N73-32358 * #
US-PATENT-CLASS-219-92 ..... c 37 N76-27568 * #
US-PATENT-CLASS-219-92 ..... c 37 N77-11397 * #
US-PATENT-CLASS-22-200 ..... c 15 N71-15966 *
US-PATENT-CLASS-22-203 ..... c 17 N70-38198 * #
US-PATENT-CLASS-220-14 ..... c 15 N69-39935 * #
US-PATENT-CLASS-220-15 ..... c 31 N71-15664 * #
US-PATENT-CLASS-220-15 ..... c 34 N75-12222 * #
US-PATENT-CLASS-220-1 ..... c 31 N71-17680 *
US-PATENT-CLASS-220-2.2 ..... c 24 N79-25143 * #
US-PATENT-CLASS-220-266 ..... c 37 N79-22474 * #
US-PATENT-CLASS-220-306 ..... c 27 N84-27886 * #
US-PATENT-CLASS-220-335 ..... c 45 N83-25217 * #
US-PATENT-CLASS-220-378 ..... c 37 N82-24490 * #
US-PATENT-CLASS-220-423 ..... c 37 N80-18393 * #
US-PATENT-CLASS-220-429 ..... c 44 N80-20808 * #
US-PATENT-CLASS-220-445 ..... c 37 N80-18393 * #
US-PATENT-CLASS-220-46 ..... c 15 N71-27068 *
US-PATENT-CLASS-220-5R ..... c 15 N72-22486 * #
US-PATENT-CLASS-220-55 ..... c 15 N69-27502 * #
US-PATENT-CLASS-220-63 ..... c 11 N70-38182 * #
US-PATENT-CLASS-220-67 ..... c 15 N71-10577 * #
US-PATENT-CLASS-220-82R ..... c 31 N81-19343 * #
US-PATENT-CLASS-220-89A ..... c 31 N81-19343 * #
US-PATENT-CLASS-220-89 ..... c 11 N71-15960 *
US-PATENT-CLASS-220-89 ..... c 11 N71-17600 *
US-PATENT-CLASS-220-901 ..... c 37 N80-18393 * #
US-PATENT-CLASS-220-9 ..... c 23 N71-22881 *
US-PATENT-CLASS-220-9 ..... c 18 N71-23658 *
US-PATENT-CLASS-220-9 ..... c 15 N71-23816 *
US-PATENT-CLASS-220-9 ..... c 33 N71-25351 *
US-PATENT-CLASS-221-265 ..... c 51 N74-15778 * #
US-PATENT-CLASS-222-131 ..... c 31 N79-21225 * #
US-PATENT-CLASS-222-135 ..... c 15 N72-21465 * #
US-PATENT-CLASS-222-137 ..... c 14 N71-27005 *
US-PATENT-CLASS-222-145 ..... c 37 N76-19436 * #
US-PATENT-CLASS-222-193 ..... c 37 N74-13178 * #
US-PATENT-CLASS-222-309 ..... c 15 N72-21465 * #
US-PATENT-CLASS-222-309 ..... c 54 N74-12779 * #
US-PATENT-CLASS-222-309 ..... c 35 N85-21595 * #
US-PATENT-CLASS-222-324 ..... c 54 N74-17853 * #
US-PATENT-CLASS-222-340 ..... c 54 N74-12779 * #
US-PATENT-CLASS-222-340 ..... c 35 N85-21595 * #
US-PATENT-CLASS-222-387 ..... c 54 N74-12779 * #
US-PATENT-CLASS-222-389 ..... c 15 N70-38996 * #
US-PATENT-CLASS-222-414 ..... c 14 N73-27378 * #
US-PATENT-CLASS-222-43 ..... c 35 N85-21595 * #
US-PATENT-CLASS-222-45 ..... c 14 N70-40233 * #
US-PATENT-CLASS-222-48 ..... c 35 N85-21595 * #
US-PATENT-CLASS-222-49 ..... c 14 N71-27005 *
US-PATENT-CLASS-222-514 ..... c 54 N74-12779 * #
US-PATENT-CLASS-222-61 ..... c 27 N71-29155 *
US-PATENT-CLASS-222-61 ..... c 37 N77-28487 * #
US-PATENT-CLASS-222-71 ..... c 15 N72-21465 * #
US-PATENT-CLASS-222-95 ..... c 37 N77-28487 * #
US-PATENT-CLASS-224-25A ..... c 05 N72-23085 * #
US-PATENT-CLASS-224-25 ..... c 05 N71-12351 * #
US-PATENT-CLASS-224-444 ..... c 54 N74-17853 * #
US-PATENT-CLASS-225-103 ..... c 37 N82-32730 * #
US-PATENT-CLASS-225-1 ..... c 15 N71-17628 *
US-PATENT-CLASS-225-2 ..... c 26 N71-14354 * #
US-PATENT-CLASS-226-190 ..... c 08 N71-19420 *
US-PATENT-CLASS-226-58 ..... c 14 N71-28935 *
US-PATENT-CLASS-228-103 ..... c 35 N83-35338 * #
US-PATENT-CLASS-228-107 ..... c 37 N79-13364 * #
US-PATENT-CLASS-228-116 ..... c 37 N81-19455 * #
US-PATENT-CLASS-228-118 ..... c 24 N81-17170 * #
US-PATENT-CLASS-228-118 ..... c 24 N81-26179 * #
US-PATENT-CLASS-228-124 ..... c 26 N77-29260 * #
US-PATENT-CLASS-228-13 ..... c 18 N79-11108 * #

US-PATENT-CLASS-228-15.1 ..... c 18 N79-11108 * #
US-PATENT-CLASS-228-157 ..... c 24 N82-24296 * #
US-PATENT-CLASS-228-157 ..... c 24 N84-11214 * #
US-PATENT-CLASS-228-165 ..... c 35 N84-22930 * #
US-PATENT-CLASS-228-170 ..... c 24 N81-17170 * #
US-PATENT-CLASS-228-173 ..... c 18 N79-11108 * #
US-PATENT-CLASS-228-174 ..... c 24 N81-17170 * #
US-PATENT-CLASS-228-181 ..... c 24 N84-11214 * #
US-PATENT-CLASS-228-190 ..... c 24 N75-28135 * #
US-PATENT-CLASS-228-190 ..... c 26 N77-28265 * #
US-PATENT-CLASS-228-190 ..... c 24 N81-17170 * #
US-PATENT-CLASS-228-190 ..... c 24 N81-26179 * #
US-PATENT-CLASS-228-193 ..... c 24 N75-28135 * #
US-PATENT-CLASS-228-193 ..... c 37 N76-18455 * #
US-PATENT-CLASS-228-193 ..... c 35 N83-35338 * #
US-PATENT-CLASS-228-194 ..... c 26 N77-28265 * #
US-PATENT-CLASS-228-1 ..... c 37 N75-25185 * #
US-PATENT-CLASS-228-2.5 ..... c 37 N79-13364 * #
US-PATENT-CLASS-228-205 ..... c 37 N81-19455 * #
US-PATENT-CLASS-228-206 ..... c 37 N76-18455 * #
US-PATENT-CLASS-228-212 ..... c 37 N80-23655 * #
US-PATENT-CLASS-228-212 ..... c 24 N84-11214 * #
US-PATENT-CLASS-228-214 ..... c 37 N76-18455 * #
US-PATENT-CLASS-228-222 ..... c 37 N80-23655 * #
US-PATENT-CLASS-228-232 ..... c 26 N77-28265 * #
US-PATENT-CLASS-228-238 ..... c 37 N76-18455 * #
US-PATENT-CLASS-228-263.18 .. c 35 N83-35338 * #
US-PATENT-CLASS-228-263 ..... c 26 N77-29260 * #
US-PATENT-CLASS-228-44.1R ... c 37 N80-23655 * #
US-PATENT-CLASS-228-5.1 ..... c 44 N79-24431 * #
US-PATENT-CLASS-228-50 ..... c 15 N70-39924 * #
US-PATENT-CLASS-228-50 ..... c 15 N70-40204 * #
US-PATENT-CLASS-228-53 ..... c 15 N71-27214 *
US-PATENT-CLASS-228-57 ..... c 15 N72-22491 * #
US-PATENT-CLASS-228-6 ..... c 44 N79-24431 * #
US-PATENT-CLASS-228-7 ..... c 15 N71-15607 * #
US-PATENT-CLASS-228-8 ..... c 15 N71-23050 *
US-PATENT-CLASS-228-8 ..... c 37 N79-10421 * #
US-PATENT-CLASS-228-9 ..... c 15 N71-20393 *
US-PATENT-CLASS-229-DIG.11 . c 32 N73-13921 * #
US-PATENT-CLASS-23-109 ..... c 04 N72-33072 * #
US-PATENT-CLASS-23-201 ..... c 06 N72-17095 * #
US-PATENT-CLASS-23-208 ..... c 15 N69-21922 * #
US-PATENT-CLASS-23-208 ..... c 26 N70-36805 * #
US-PATENT-CLASS-23-209.1 ..... c 15 N72-20446 * #
US-PATENT-CLASS-23-230B ..... c 25 N75-14844 * #
US-PATENT-CLASS-23-230B ..... c 23 N77-17161 * #
US-PATENT-CLASS-23-230B ..... c 25 N79-14169 * #
US-PATENT-CLASS-23-230B ..... c 51 N80-27067 * #
US-PATENT-CLASS-23-230L ..... c 35 N74-32879 * #
US-PATENT-CLASS-23-230M ..... c 25 N76-18245 * #
US-PATENT-CLASS-23-230M ..... c 23 N77-17161 * #
US-PATENT-CLASS-23-230PC .... c 25 N78-15210 * #
US-PATENT-CLASS-23-230PC .... c 25 N82-12166 * #
US-PATENT-CLASS-23-230R ..... c 06 N72-17094 * #
US-PATENT-CLASS-23-230R ..... c 17 N73-12547 * #
US-PATENT-CLASS-23-230R ..... c 17 N73-27446 * #
US-PATENT-CLASS-23-230R ..... c 25 N76-18245 * #
US-PATENT-CLASS-23-230R ..... c 45 N76-31714 * #
US-PATENT-CLASS-23-230R ..... c 23 N77-17161 * #
US-PATENT-CLASS-23-230 ..... c 06 N71-23527 *
US-PATENT-CLASS-23-230 ..... c 06 N72-17095 * #
US-PATENT-CLASS-23-231 ..... c 23 N77-17161 * #
US-PATENT-CLASS-23-232C ..... c 06 N72-17094 * #
US-PATENT-CLASS-23-232C ..... c 25 N76-18245 * #
US-PATENT-CLASS-23-232C ..... c 23 N77-17161 * #
US-PATENT-CLASS-23-232E ..... c 06 N73-16106 * #
US-PATENT-CLASS-23-232E ..... c 45 N76-31714 * #
US-PATENT-CLASS-23-232E ..... c 25 N78-15210 * #
US-PATENT-CLASS-23-232E ..... c 25 N82-12166 * #
US-PATENT-CLASS-23-232R ..... c 06 N73-16106 * #
US-PATENT-CLASS-23-232R ..... c 45 N76-31714 * #
US-PATENT-CLASS-23-232R ..... c 23 N77-17161 * #
US-PATENT-CLASS-23-232R ..... c 25 N78-15210 * #
US-PATENT-CLASS-23-252R ..... c 25 N74-12813 * #
US-PATENT-CLASS-23-252R ..... c 25 N79-10162 * #
US-PATENT-CLASS-23-252R ..... c 25 N79-28253 * #
US-PATENT-CLASS-23-253A ..... c 51 N77-27677 * #
US-PATENT-CLASS-23-253A ..... c 54 N78-14784 * #
US-PATENT-CLASS-23-253PC .... c 06 N72-17094 * #
US-PATENT-CLASS-23-253PC .... c 37 N74-18123 * #
US-PATENT-CLASS-23-253R ..... c 15 N72-21465 * #
US-PATENT-CLASS-23-253R ..... c 25 N75-14844 * #
US-PATENT-CLASS-23-253R ..... c 25 N76-18245 * #
US-PATENT-CLASS-23-253 ..... c 23 N71-16355 *
US-PATENT-CLASS-23-253 ..... c 06 N71-26754 *
US-PATENT-CLASS-23-253 ..... c 06 N72-17095 * #
US-PATENT-CLASS-23-254EF .... c 35 N76-18403 * #
US-PATENT-CLASS-23-254E ..... c 06 N73-16106 * #
US-PATENT-CLASS-23-254E ..... c 33 N75-26245 * #
US-PATENT-CLASS-23-254E ..... c 35 N75-29380 * #
US-PATENT-CLASS-23-254E ..... c 45 N76-21742 * #
US-PATENT-CLASS-23-254R ..... c 06 N73-16106 * #
US-PATENT-CLASS-23-254R ..... c 25 N76-18245 * #
US-PATENT-CLASS-23-254R ..... c 23 N77-17161 * #
US-PATENT-CLASS-23-254 ..... c 14 N71-20442 *
US-PATENT-CLASS-23-255E ..... c 35 N75-29380 * #
US-PATENT-CLASS-23-255R ..... c 25 N76-18245 * #
US-PATENT-CLASS-23-259 ..... c 15 N71-27372 *
US-PATENT-CLASS-23-259 ..... c 15 N72-21465 * #
US-PATENT-CLASS-23-259 ..... c 37 N74-18123 * #
US-PATENT-CLASS-23-259 ..... c 51 N77-27677 * #
US-PATENT-CLASS-23-277C ..... c 25 N74-33378 * #
US-PATENT-CLASS-23-277R ..... c 44 N77-22607 * #
US-PATENT-CLASS-23-277 ..... c 26 N70-40015 * #
US-PATENT-CLASS-23-281 ..... c 28 N72-18766 * #
US-PATENT-CLASS-23-281 ..... c 25 N74-12813 * #
US-PATENT-CLASS-23-281 ..... c 44 N76-18642 * #
US-PATENT-CLASS-23-281 ..... c 44 N76-29700 * #
US-PATENT-CLASS-23-281 ..... c 44 N77-10636 * #
US-PATENT-CLASS-23-281 ..... c 44 N77-22607 * #
US-PATENT-CLASS-23-284 ..... c 35 N74-15127 * #
US-PATENT-CLASS-23-288F ..... c 25 N74-12813 * #
US-PATENT-CLASS-23-288J ..... c 25 N74-12813 * #
US-PATENT-CLASS-23-288R ..... c 28 N80-10374 * #
US-PATENT-CLASS-23-288 ..... c 28 N72-18766 * #
US-PATENT-CLASS-23-292 ..... c 51 N77-27677 * #
US-PATENT-CLASS-23-293R ..... c 28 N81-15119 * #
US-PATENT-CLASS-23-295R ..... c 76 N85-29800 * #
US-PATENT-CLASS-23-300 ..... c 28 N80-23471 * #
US-PATENT-CLASS-23-302A ..... c 28 N80-23471 * #
US-PATENT-CLASS-23-302R ..... c 28 N80-23471 * #
US-PATENT-CLASS-23-302T ..... c 28 N80-23471 * #
US-PATENT-CLASS-23-313R ..... c 71 N85-22104 * #
US-PATENT-CLASS-23-55 ..... c 06 N72-17093 * #
US-PATENT-CLASS-23-88 ..... c 06 N72-17093 * #
US-PATENT-CLASS-23-927 ..... c 51 N80-16714 * #
US-PATENT-CLASS-23-97 ..... c 06 N72-17093 * #
US-PATENT-CLASS-230-162 ..... c 33 N71-17610 *
US-PATENT-CLASS-230-221 ..... c 11 N72-22245 * #
US-PATENT-CLASS-230-54 ..... c 11 N72-22245 * #
US-PATENT-CLASS-233-DIG.1 .... c 34 N75-26282 * #
US-PATENT-CLASS-233-11 ..... c 15 N71-16079 *
US-PATENT-CLASS-233-20RP .... c 34 N75-26282 * #
US-PATENT-CLASS-233-25 ..... c 34 N75-26282 * #
US-PATENT-CLASS-233-46 ..... c 34 N75-26282 * #
US-PATENT-CLASS-233-6 ..... c 34 N75-26282 * #
US-PATENT-CLASS-235.150.27 .. c 04 N74-13420 * #
US-PATENT-CLASS-235-10.2 ..... c 08 N73-25206 * #
US-PATENT-CLASS-235-150.1 .... c 08 N71-29033 *
US-PATENT-CLASS-235-150.1 .... c 08 N72-31226 * #
US-PATENT-CLASS-235-150.1 .... c 32 N77-10392 * #
US-PATENT-CLASS-235-150.22 .. c 02 N71-13421 * #
US-PATENT-CLASS-235-150.22 .. c 04 N74-13420 * #
US-PATENT-CLASS-235-150.25 .. c 21 N71-21688 *
US-PATENT-CLASS-235-150.25 .. c 35 N77-20399 * #
US-PATENT-CLASS-235-150.26 .. c 04 N74-13420 * #
US-PATENT-CLASS-235-150.27 .. c 08 N71-29033 *
US-PATENT-CLASS-235-150.2 .... c 08 N71-29033 *
US-PATENT-CLASS-235-150.2 .... c 35 N77-20399 * #
US-PATENT-CLASS-235-150.3 .... c 33 N74-10223 * #
US-PATENT-CLASS-235-150.52 .. c 08 N72-22165 * #
US-PATENT-CLASS-235-150.53 .. c 08 N72-22165 * #
US-PATENT-CLASS-235-150.53 .. c 07 N73-13149 * #
US-PATENT-CLASS-235-150.53 .. c 33 N75-26243 * #
US-PATENT-CLASS-235-151.13 .. c 25 N76-18245 * #
US-PATENT-CLASS-235-151.1 .... c 08 N71-29033 *
US-PATENT-CLASS-235-151.1 .... c 08 N72-31226 * #
US-PATENT-CLASS-235-151.27 .. c 08 N73-25206 * #
US-PATENT-CLASS-235-151.31 .. c 10 N73-25240 * #
US-PATENT-CLASS-235-151.34 .. c 35 N76-14431 * #
US-PATENT-CLASS-235-151.3 .... c 52 N74-22771 * #
US-PATENT-CLASS-235-151.3 .... c 38 N78-17395 * #
US-PATENT-CLASS-235-151.3 .... c 38 N78-17396 * #
US-PATENT-CLASS-235-151 ..... c 37 N74-21056 * #
US-PATENT-CLASS-235-152IE ... c 08 N73-32081 * #
US-PATENT-CLASS-235-152 ..... c 07 N71-24741 *
US-PATENT-CLASS-235-152 ..... c 08 N72-20176 * #
US-PATENT-CLASS-235-152 ..... c 08 N72-22167 * #
US-PATENT-CLASS-235-152 ..... c 08 N72-25210 * #
US-PATENT-CLASS-235-152 ..... c 08 N73-12175 * #
US-PATENT-CLASS-235-152 ..... c 09 N73-13209 * #
US-PATENT-CLASS-235-152 ..... c 08 N73-26175 * #
US-PATENT-CLASS-235-152 ..... c 60 N77-14751 * #
US-PATENT-CLASS-235-153AE .. c 60 N76-21914 * #
US-PATENT-CLASS-235-153AK .. c 62 N74-14920 * #
US-PATENT-CLASS-235-153 ..... c 08 N71-24633 *
US-PATENT-CLASS-235-153 ..... c 08 N72-22166 * #
US-PATENT-CLASS-235-154 ..... c 08 N70-34778 * #
US-PATENT-CLASS-235-154 ..... c 10 N71-23662 *
US-PATENT-CLASS-235-154 ..... c 08 N72-18184 * #
US-PATENT-CLASS-235-154 ..... c 08 N72-25206 * #
US-PATENT-CLASS-235-155 ..... c 08 N71-24890 *
US-PATENT-CLASS-235-155 ..... c 08 N72-21197 * #
US-PATENT-CLASS-235-155 ..... c 08 N73-12176 * #
US-PATENT-CLASS-235-156 ..... c 08 N71-18693 *
US-PATENT-CLASS-235-156 ..... c 60 N75-13539 * #
US-PATENT-CLASS-235-156 ..... c 32 N76-21366 * #
US-PATENT-CLASS-235-156 ..... c 32 N77-10392 * #
US-PATENT-CLASS-235-156 ..... c 38 N78-17395 * #
US-PATENT-CLASS-235-156 ..... c 38 N78-17396 * #
US-PATENT-CLASS-235-158 ..... c 08 N71-19437 *
US-PATENT-CLASS-235-164 ..... c 08 N71-33110 *
US-PATENT-CLASS-235-164 ..... c 08 N73-26175 * #
US-PATENT-CLASS-235-164 ..... c 60 N74-20836 * #
US-PATENT-CLASS-235-175 ..... c 08 N71-18602 *
US-PATENT-CLASS-235-175 ..... c 08 N71-33110 *
US-PATENT-CLASS-235-176 ..... c 08 N70-34787 * #
US-PATENT-CLASS-235-181 ..... c 07 N71-21476 *
US-PATENT-CLASS-235-181 ..... c 07 N73-13149 * #
US-PATENT-CLASS-235-181 ..... c 35 N75-21582 * #
US-PATENT-CLASS-235-181 ..... c 33 N75-26243 * #
US-PATENT-CLASS-235-181 ..... c 43 N77-10584 * #
US-PATENT-CLASS-235-181 ..... c 38 N78-17395 * #
US-PATENT-CLASS-235-183 ..... c 08 N72-22165 * #
US-PATENT-CLASS-235-184 ..... c 74 N76-18913 * #
US-PATENT-CLASS-235-186 ..... c 10 N73-26230 * #
US-PATENT-CLASS-235-194 ..... c 09 N71-19480 *
US-PATENT-CLASS-235-194 ..... c 08 N72-22165 * #
US-PATENT-CLASS-235-194 ..... c 10 N73-26230 * #
US-PATENT-CLASS-235-197 ..... c 08 N72-22165 * #
US-PATENT-CLASS-235-197 ..... c 09 N72-23173 * #
US-PATENT-CLASS-235-197 ..... c 10 N73-20253 * #
US-PATENT-CLASS-235-197 ..... c 10 N73-26230 * #
US-PATENT-CLASS-235-197 ..... c 60 N75-13539 * #
US-PATENT-CLASS-235-201 ..... c 10 N71-25899 *
US-PATENT-CLASS-235-61.6 ..... c 01 N71-13411 * #
US-PATENT-CLASS-235-61.6 ..... c 15 N71-21179 *
US-PATENT-CLASS-235-61NV .... c 08 N72-11172 *
US-PATENT-CLASS-235-61NV .... c 35 N76-29552 * #
US-PATENT-CLASS-235-70 ..... c 04 N78-17031 * #
US-PATENT-CLASS-235-78M ..... c 35 N76-29552 * #
US-PATENT-CLASS-235-88M ..... c 35 N76-29552 * #
US-PATENT-CLASS-235-92CA .... c 33 N74-10223 * #
US-PATENT-CLASS-235-92CA .... c 38 N77-17495 * #
US-PATENT-CLASS-235-92CC .... c 08 N72-20176 * #
US-PATENT-CLASS-235-92CT .... c 38 N77-17495 * #
US-PATENT-CLASS-235-92CV .... c 08 N73-25206 * #
US-PATENT-CLASS-235-92DE .... c 08 N72-20176 * #
US-PATENT-CLASS-235-92DM ... c 08 N72-20176 * #
US-PATENT-CLASS-235-92DM ... c 33 N74-10223 * #
US-PATENT-CLASS-235-92DM ... c 33 N75-19519 * #
US-PATENT-CLASS-235-92DN .... c 08 N73-25206 * #
US-PATENT-CLASS-235-92DN .... c 38 N77-17495 * #
US-PATENT-CLASS-235-92EA .... c 08 N73-25206 * #
US-PATENT-CLASS-235-92EV .... c 08 N73-25206 * #
US-PATENT-CLASS-235-92FQ .... c 08 N73-20217 * #
US-PATENT-CLASS-235-92LG .... c 08 N72-20176 * #
US-PATENT-CLASS-235-92LG .... c 33 N75-19519 * #
US-PATENT-CLASS-235-92MT .... c 08 N72-31226 * #
US-PATENT-CLASS-235-92MT .... c 32 N73-26910 * #
US-PATENT-CLASS-235-92PC .... c 35 N82-11431 * #
US-PATENT-CLASS-235-92PE .... c 37 N74-21056 * #
US-PATENT-CLASS-235-92R ..... c 08 N72-20176 * #
US-PATENT-CLASS-235-92R ..... c 08 N73-20217 * #
US-PATENT-CLASS-235-92R ..... c 08 N73-25206 * #
US-PATENT-CLASS-235-92R ..... c 33 N75-19519 * #
US-PATENT-CLASS-235-92R ..... c 38 N77-17495 * #
US-PATENT-CLASS-235-92SB .... c 37 N74-21056 * #
US-PATENT-CLASS-235-92SH .... c 33 N76-14373 * #
US-PATENT-CLASS-235-92T ..... c 03 N72-25020 * #
US-PATENT-CLASS-235-92T ..... c 08 N73-20217 * #
US-PATENT-CLASS-235-92T ..... c 33 N75-19519 * #
US-PATENT-CLASS-235-92VA .... c 33 N75-19519 * #
US-PATENT-CLASS-235-92 ..... c 08 N71-22897 *
US-PATENT-CLASS-235-92 ..... c 08 N71-24891 *
US-PATENT-CLASS-235-92 ..... c 10 N71-27137 *
US-PATENT-CLASS-235-92 ..... c 14 N71-27215 *
US-PATENT-CLASS-236-1F ..... c 35 N81-26431 * #
US-PATENT-CLASS-236-13 ..... c 31 N80-32583 * #
US-PATENT-CLASS-236-1 ..... c 33 N71-16357 *
US-PATENT-CLASS-236-44C ..... c 31 N80-32583 * #
US-PATENT-CLASS-236-49 ..... c 31 N74-27902 * #
US-PATENT-CLASS-236-49 ..... c 31 N80-32583 * #
US-PATENT-CLASS-236-68 ..... c 15 N72-12409 *
US-PATENT-CLASS-237-1A ..... c 44 N76-14602 * #
US-PATENT-CLASS-237-1A ..... c 44 N78-10554 * #
US-PATENT-CLASS-237-1A ..... c 44 N78-15560 * #
US-PATENT-CLASS-237-1A ..... c 44 N78-17460 * #
US-PATENT-CLASS-237-1A ..... c 44 N78-31525 * #
US-PATENT-CLASS-237-1A ..... c 44 N79-24433 * #
US-PATENT-CLASS-237-60 ..... c 34 N76-17317 * #
US-PATENT-CLASS-238-134 ..... c 85 N74-34672 * #
US-PATENT-CLASS-238-1 ..... c 05 N71-28619 *
US-PATENT-CLASS-239-DIG.23 . c 37 N85-29283 * #
US-PATENT-CLASS-239-102 ..... c 37 N80-10494 * #
US-PATENT-CLASS-239-127.1 .... c 28 N71-23968 *
US-PATENT-CLASS-239-127.1 .... c 28 N73-32606 * #
US-PATENT-CLASS-239-127.1 .... c 34 N79-13288 * #
US-PATENT-CLASS-239-127.1 .... c 34 N79-13289 * #
US-PATENT-CLASS-239-127.1 .... c 34 N80-24573 * #
US-PATENT-CLASS-239-127.1 .... c 44 N81-24519 * #
US-PATENT-CLASS-239-127.3 .... c 20 N76-14191 * #
US-PATENT-CLASS-239-127.3 .... c 07 N80-32392 * #
US-PATENT-CLASS-239-171 ..... c 37 N77-13418 * #
US-PATENT-CLASS-239-265.11 .. c 18 N71-21068 *
US-PATENT-CLASS-239-265.11 .. c 07 N74-33218 * #
US-PATENT-CLASS-239-265.11 .. c 07 N76-18117 * #

US-PATENT-CLASS-239-265.15 .. c 37 N79-22474 * #
US-PATENT-CLASS-239-265.17 .. c 07 N74-27490 * #
US-PATENT-CLASS-239-265.17 .. c 07 N83-33884 * #
US-PATENT-CLASS-239-265.17 .. c 71 N84-14873 * #
US-PATENT-CLASS-239-265.19 .. c 28 N71-21493 *
US-PATENT-CLASS-239-265.19 .. c 28 N72-11708 *
US-PATENT-CLASS-239-265.25 .. c 07 N78-27121 * #
US-PATENT-CLASS-239-265.25 .. c 09 N78-31129 * #
US-PATENT-CLASS-239-265.33 .. c 07 N78-27121 * #
US-PATENT-CLASS-239-265.33 .. c 07 N80-32392 * #
US-PATENT-CLASS-239-265.39 .. c 07 N79-14097 * #
US-PATENT-CLASS-239-265.43 .. c 28 N71-16224 *
US-PATENT-CLASS-239-265.43 .. c 28 N72-11708 *
US-PATENT-CLASS-239-288 ..... c 37 N79-22474 * #
US-PATENT-CLASS-239-288 ..... c 37 N85-29283 * #
US-PATENT-CLASS-239-302 ..... c 37 N80-10494 * #
US-PATENT-CLASS-239-322 ..... c 37 N85-29283 * #
US-PATENT-CLASS-239-327 ..... c 37 N85-29283 * #
US-PATENT-CLASS-239-375 ..... c 37 N85-29283 * #
US-PATENT-CLASS-239-402.5 .... c 07 N85-35195 * #
US-PATENT-CLASS-239-416 ..... c 15 N69-23185 * #
US-PATENT-CLASS-239-416 ..... c 15 N71-17654 *
US-PATENT-CLASS-239-418 ..... c 28 N72-23809 * #
US-PATENT-CLASS-239-424 ..... c 15 N72-25455 * #
US-PATENT-CLASS-239-426 ..... c 34 N84-12406 * #
US-PATENT-CLASS-239-433 ..... c 28 N72-23809 * #
US-PATENT-CLASS-239-499 ..... c 34 N82-13376 * #
US-PATENT-CLASS-239-543 ..... c 28 N72-23809 * #
US-PATENT-CLASS-239-562 ..... c 43 N81-26509 * #
US-PATENT-CLASS-239-568 ..... c 37 N84-16561 * #
US-PATENT-CLASS-239-589 ..... c 34 N82-13376 * #
US-PATENT-CLASS-239-590 ..... c 37 N85-29283 * #
US-PATENT-CLASS-239-591 ..... c 43 N81-26509 * #
US-PATENT-CLASS-239-601 ..... c 34 N82-13376 * #
US-PATENT-CLASS-239-690 ..... c 28 N82-18401 * #
US-PATENT-CLASS-24-126 ..... c 15 N71-22994 *
US-PATENT-CLASS-24-134R ..... c 15 N73-25512 * #
US-PATENT-CLASS-24-205.17 .... c 15 N71-25975 *
US-PATENT-CLASS-24-211N ..... c 15 N72-11385 *
US-PATENT-CLASS-24-211 ..... c 15 N71-17653 *
US-PATENT-CLASS-24-214 ..... c 31 N83-31895 * #
US-PATENT-CLASS-24-263 ..... c 15 N71-21076 *
US-PATENT-CLASS-24-263 ..... c 15 N71-26162 *
US-PATENT-CLASS-24-304 ..... c 27 N85-20125 * #
US-PATENT-CLASS-24-447 ..... c 27 N85-20125 * #
US-PATENT-CLASS-24-450 ..... c 27 N85-20125 * #
US-PATENT-CLASS-24-560 ..... c 52 N84-28388 * #
US-PATENT-CLASS-24-693 ..... c 27 N85-20125 * #
US-PATENT-CLASS-240-1.2 ..... c 11 N70-33329 *
US-PATENT-CLASS-240-11.2 ..... c 09 N71-26787 *
US-PATENT-CLASS-240-11.4 ..... c 09 N71-26787 *
US-PATENT-CLASS-240-41.35R . c 74 N77-21941 * #
US-PATENT-CLASS-240-41B ..... c 36 N75-27364 * #
US-PATENT-CLASS-240-41R ..... c 74 N77-21941 * #
US-PATENT-CLASS-240-46.13 .... c 74 N77-21941 * #
US-PATENT-CLASS-240-47 ..... c 34 N74-23066 * #
US-PATENT-CLASS-240-51.11 .... c 09 N71-26787 *
US-PATENT-CLASS-241-95 ..... c 37 N84-16561 * #
US-PATENT-CLASS-242-107 ..... c 33 N86-20669 * #
US-PATENT-CLASS-242-128 ..... c 15 N82-24272 * #
US-PATENT-CLASS-242-187 ..... c 37 N77-14479 * #
US-PATENT-CLASS-242-192 ..... c 14 N71-23698 *
US-PATENT-CLASS-242-193 ..... c 37 N77-14479 * #
US-PATENT-CLASS-242-204 ..... c 37 N77-14479 * #
US-PATENT-CLASS-242-210 ..... c 37 N77-14479 * #
US-PATENT-CLASS-242-54-R .... c 33 N86-20669 * #
US-PATENT-CLASS-242-54 ..... c 15 N72-18477 * #
US-PATENT-CLASS-242-55.19 .... c 14 N70-41647 * #
US-PATENT-CLASS-242-55.19 .... c 07 N71-10609 * #
US-PATENT-CLASS-242-57 ..... c 37 N77-14479 * #
US-PATENT-CLASS-244.12.2 ..... c 05 N82-26277 * #
US-PATENT-CLASS-244-ISS ..... c 03 N72-20031 * #
US-PATENT-CLASS-244-1.55 ..... c 03 N73-20040 * #
US-PATENT-CLASS-244-1A ..... c 33 N77-10429 * #
US-PATENT-CLASS-244-1R ..... c 34 N79-31523 * #
US-PATENT-CLASS-244-1SA ..... c 21 N72-21624 * #
US-PATENT-CLASS-244-1SA ..... c 21 N72-25595 * #
US-PATENT-CLASS-244-1SA ..... c 03 N73-20039 * #
US-PATENT-CLASS-244-1SA ..... c 15 N73-25513 * #
US-PATENT-CLASS-244-1SA ..... c 21 N73-30640 * #
US-PATENT-CLASS-244-1SA ..... c 19 N74-15089 * #
US-PATENT-CLASS-244-1SA ..... c 35 N74-28097 * #
US-PATENT-CLASS-244-1SB ..... c 15 N73-12486 * #
US-PATENT-CLASS-244-1SC ..... c 31 N73-32750 * #
US-PATENT-CLASS-244-1SC ..... c 34 N75-12222 * #
US-PATENT-CLASS-244-1SD ..... c 31 N73-26876 * #
US-PATENT-CLASS-244-1SD ..... c 37 N74-27903 * #
US-PATENT-CLASS-244-1SD ..... c 15 N77-10112 * #
US-PATENT-CLASS-244-1SS ..... c 11 N73-13257 * #
US-PATENT-CLASS-244-1SS ..... c 03 N73-20039 * #
US-PATENT-CLASS-244-1SS ..... c 14 N73-27378 * #
US-PATENT-CLASS-244-1SS ..... c 31 N73-30829 * #
US-PATENT-CLASS-244-1SS ..... c 31 N73-32750 * #
US-PATENT-CLASS-244-1SS ..... c 33 N73-32818 * #
US-PATENT-CLASS-244-1SS ..... c 18 N74-22136 * #
US-PATENT-CLASS-244-1SS ..... c 18 N74-27397 * #
US-PATENT-CLASS-244-1SS ..... c 73 N75-30876 * #
US-PATENT-CLASS-244-100 ..... c 15 N70-34850 * #
US-PATENT-CLASS-244-100 ..... c 31 N70-36654 * #
US-PATENT-CLASS-244-100 ..... c 31 N70-36845 * #
US-PATENT-CLASS-244-100 ..... c 02 N70-41589 * #
US-PATENT-CLASS-244-103R .... c 37 N81-24443 * #
US-PATENT-CLASS-244-103 ..... c 02 N70-36825 * #
US-PATENT-CLASS-244-110B .... c 07 N82-26293 * #
US-PATENT-CLASS-244-110C .... c 37 N82-18601 * #
US-PATENT-CLASS-244-113 ..... c 02 N70-37939 * #
US-PATENT-CLASS-244-113 ..... c 31 N71-25434 *
US-PATENT-CLASS-244-113 ..... c 02 N77-10001 * #
US-PATENT-CLASS-244-113 ..... c 37 N82-16408 * #
US-PATENT-CLASS-244-113 ..... c 08 N85-35200 * #
US-PATENT-CLASS-244-114R .... c 04 N82-16059 * #
US-PATENT-CLASS-244-114 ..... c 21 N72-22619 * #
US-PATENT-CLASS-244-115 ..... c 18 N83-29303 * #
US-PATENT-CLASS-244-117A .... c 33 N73-25952 * #
US-PATENT-CLASS-244-117A .... c 34 N76-17317 * #
US-PATENT-CLASS-244-117A .... c 37 N76-19437 * #
US-PATENT-CLASS-244-117A .... c 34 N77-18382 * #
US-PATENT-CLASS-244-117A .... c 05 N81-26114 * #
US-PATENT-CLASS-244-117A .... c 27 N84-27886 * #
US-PATENT-CLASS-244-117 ..... c 31 N70-33242 *
US-PATENT-CLASS-244-117 ..... c 33 N72-17947 * #
US-PATENT-CLASS-244-118.1 .... c 08 N82-32373 * #
US-PATENT-CLASS-244-118.1 .... c 18 N85-29991 * #
US-PATENT-CLASS-244-118.1 .... c 37 N85-34401 * #
US-PATENT-CLASS-244-119 ..... c 02 N81-14968 * #
US-PATENT-CLASS-244-119 ..... c 24 N82-24296 * #
US-PATENT-CLASS-244-119 ..... c 24 N82-26384 * #
US-PATENT-CLASS-244-119 ..... c 24 N84-11214 * #
US-PATENT-CLASS-244-12.5 ..... c 08 N81-19130 * #
US-PATENT-CLASS-244-121 ..... c 27 N79-12221 * #
US-PATENT-CLASS-244-121 ..... c 24 N79-25142 * #
US-PATENT-CLASS-244-121 ..... c 15 N79-26100 * #
US-PATENT-CLASS-244-121 ..... c 27 N82-24339 * #
US-PATENT-CLASS-244-121 ..... c 27 N82-29456 * #
US-PATENT-CLASS-244-122 ..... c 05 N71-20718 *
US-PATENT-CLASS-244-123 ..... c 24 N77-28225 * #
US-PATENT-CLASS-244-123 ..... c 24 N82-24296 * #
US-PATENT-CLASS-244-123 ..... c 24 N82-26384 * #
US-PATENT-CLASS-244-123 ..... c 24 N84-11214 * #
US-PATENT-CLASS-244-127 ..... c 34 N74-23039 * #
US-PATENT-CLASS-244-12 ..... c 02 N70-33332 *
US-PATENT-CLASS-244-130 ..... c 02 N77-10001 * #
US-PATENT-CLASS-244-130 ..... c 02 N81-14968 * #
US-PATENT-CLASS-244-130 ..... c 37 N81-24443 * #
US-PATENT-CLASS-244-132 ..... c 24 N82-26384 * #
US-PATENT-CLASS-244-132 ..... c 24 N82-32417 * #
US-PATENT-CLASS-244-134-D ... c 33 N86-20671 * #
US-PATENT-CLASS-244-135R .... c 34 N76-17317 * #
US-PATENT-CLASS-244-135R .... c 20 N80-10278 * #
US-PATENT-CLASS-244-135 ..... c 31 N70-42015 * #
US-PATENT-CLASS-244-135 ..... c 15 N73-12486 * #
US-PATENT-CLASS-244-135 ..... c 14 N73-27378 * #
US-PATENT-CLASS-244-137P .... c 31 N73-26876 * #
US-PATENT-CLASS-244-137P .... c 37 N76-22540 * #
US-PATENT-CLASS-244-137P .... c 01 N83-35992 * #
US-PATENT-CLASS-244-137R .... c 08 N82-32373 * #
US-PATENT-CLASS-244-138 ..... c 01 N69-39981 * #
US-PATENT-CLASS-244-138 ..... c 02 N70-41630 * #
US-PATENT-CLASS-244-138 ..... c 31 N71-16085 *
US-PATENT-CLASS-244-138 ..... c 31 N71-25434 *
US-PATENT-CLASS-244-138 ..... c 31 N71-28851 *
US-PATENT-CLASS-244-139 ..... c 31 N73-13898 * #
US-PATENT-CLASS-244-139 ..... c 02 N76-16014 * #
US-PATENT-CLASS-244-139 ..... c 05 N85-21147 * #
US-PATENT-CLASS-244-139 ..... c 08 N85-35200 * #
US-PATENT-CLASS-244-13 ..... c 01 N71-23497 *
US-PATENT-CLASS-244-13 ..... c 02 N73-26005 * #
US-PATENT-CLASS-244-13 ..... c 05 N75-25914 * #
US-PATENT-CLASS-244-13 ..... c 05 N84-12154 * #
US-PATENT-CLASS-244-140 ..... c 02 N70-38009 * #
US-PATENT-CLASS-244-145 ..... c 02 N74-10034 * #
US-PATENT-CLASS-244-147 ..... c 05 N85-21147 * #
US-PATENT-CLASS-244-14 ..... c 14 N70-33322 *
US-PATENT-CLASS-244-15.5 ..... c 31 N72-18859 * #
US-PATENT-CLASS-244-150 ..... c 15 N71-24600 *
US-PATENT-CLASS-244-151R .... c 33 N74-22865 * #
US-PATENT-CLASS-244-152 ..... c 02 N70-36804 * #
US-PATENT-CLASS-244-155 ..... c 30 N73-12884 * #
US-PATENT-CLASS-244-155 ..... c 31 N73-14854 * #
US-PATENT-CLASS-244-158-A ... c 37 N85-30335 * #
US-PATENT-CLASS-244-158-A ... c 05 N86-19310 * #
US-PATENT-CLASS-244-158-R ... c 05 N86-19310 * #
US-PATENT-CLASS-244-158-R ... c 18 N86-20469 * #
US-PATENT-CLASS-244-158A .... c 27 N82-24339 * #
US-PATENT-CLASS-244-158A .... c 27 N82-29456 * #
US-PATENT-CLASS-244-158A .... c 24 N82-32417 * #
US-PATENT-CLASS-244-158A .... c 24 N83-13172 * #
US-PATENT-CLASS-244-158A .... c 16 N84-22601 * #
US-PATENT-CLASS-244-158A .... c 27 N84-27886 * #
US-PATENT-CLASS-244-158R .... c 31 N81-25258 * #
US-PATENT-CLASS-244-158R .... c 16 N84-27784 * #
US-PATENT-CLASS-244-158R .... c 18 N85-29991 * #
US-PATENT-CLASS-244-158R .... c 37 N85-34401 * #
US-PATENT-CLASS-244-158 ..... c 37 N76-22540 * #
US-PATENT-CLASS-244-158 ..... c 27 N79-12221 * #
US-PATENT-CLASS-244-159 ..... c 18 N79-11108 * #
US-PATENT-CLASS-244-159 ..... c 07 N83-20944 * #
US-PATENT-CLASS-244-159 ..... c 31 N83-31895 * #
US-PATENT-CLASS-244-15 ..... c 05 N75-25914 * #
US-PATENT-CLASS-244-160 ..... c 27 N79-12221 * #
US-PATENT-CLASS-244-160 ..... c 43 N81-17499 * #
US-PATENT-CLASS-244-160 ..... c 14 N81-26161 * #
US-PATENT-CLASS-244-160 ..... c 27 N82-24339 * #
US-PATENT-CLASS-244-160 ..... c 27 N82-29456 * #
US-PATENT-CLASS-244-161 ..... c 18 N76-14186 * #
US-PATENT-CLASS-244-161 ..... c 37 N76-22540 * #
US-PATENT-CLASS-244-161 ..... c 37 N77-23483 * #
US-PATENT-CLASS-244-161 ..... c 15 N78-25119 * #
US-PATENT-CLASS-244-161 ..... c 37 N80-14398 * #
US-PATENT-CLASS-244-161 ..... c 37 N81-14320 * #
US-PATENT-CLASS-244-161 ..... c 37 N81-27519 * #
US-PATENT-CLASS-244-161 ..... c 18 N83-29303 * #
US-PATENT-CLASS-244-161 ..... c 18 N84-22605 * #
US-PATENT-CLASS-244-162 ..... c 18 N75-19329 * #
US-PATENT-CLASS-244-162 ..... c 18 N76-17185 * #
US-PATENT-CLASS-244-163 ..... c 37 N76-19437 * #
US-PATENT-CLASS-244-163 ..... c 24 N79-25142 * #
US-PATENT-CLASS-244-163 ..... c 34 N79-31523 * #
US-PATENT-CLASS-244-163 ..... c 05 N81-26114 * #
US-PATENT-CLASS-244-163 ..... c 37 N82-16408 * #
US-PATENT-CLASS-244-163 ..... c 27 N82-29456 * #
US-PATENT-CLASS-244-163 ..... c 35 N85-29214 * #
US-PATENT-CLASS-244-165 ..... c 15 N76-14158 * #
US-PATENT-CLASS-244-165 ..... c 35 N77-20399 * #
US-PATENT-CLASS-244-165 ..... c 35 N80-21719 * #
US-PATENT-CLASS-244-167 ..... c 15 N78-25119 * #
US-PATENT-CLASS-244-168 ..... c 04 N82-23231 * #
US-PATENT-CLASS-244-169 ..... c 15 N77-10113 * #
US-PATENT-CLASS-244-169 ..... c 18 N83-28064 * #
US-PATENT-CLASS-244-16 ..... c 02 N70-41863 * #
US-PATENT-CLASS-244-17.13 .... c 02 N73-19004 * #
US-PATENT-CLASS-244-17.13 .... c 08 N79-23097 * #
US-PATENT-CLASS-244-17.25 .... c 05 N81-19087 * #
US-PATENT-CLASS-244-170 ..... c 35 N80-21719 * #
US-PATENT-CLASS-244-170 ..... c 18 N83-28064 * #
US-PATENT-CLASS-244-171 ..... c 15 N77-10113 * #
US-PATENT-CLASS-244-171 ..... c 35 N77-20399 * #
US-PATENT-CLASS-244-172 ..... c 18 N76-17185 * #
US-PATENT-CLASS-244-172 ..... c 16 N84-27784 * #
US-PATENT-CLASS-244-172 ..... c 18 N84-27787 * #
US-PATENT-CLASS-244-172 ..... c 05 N86-19310 * #
US-PATENT-CLASS-244-173 ..... c 44 N75-32581 * #
US-PATENT-CLASS-244-173 ..... c 37 N81-15364 * #
US-PATENT-CLASS-244-173 ..... c 07 N83-20944 * #
US-PATENT-CLASS-244-175 ..... c 04 N82-23231 * #
US-PATENT-CLASS-244-181 ..... c 08 N81-24106 * #
US-PATENT-CLASS-244-181 ..... c 08 N81-26152 * #
US-PATENT-CLASS-244-182 ..... c 08 N81-26152 * #
US-PATENT-CLASS-244-190 ..... c 04 N82-23231 * #
US-PATENT-CLASS-244-194 ..... c 60 N82-29013 * #
US-PATENT-CLASS-244-195 ..... c 08 N79-23097 * #
US-PATENT-CLASS-244-195 ..... c 08 N81-24106 * #
US-PATENT-CLASS-244-199 ..... c 07 N85-35194 * #
US-PATENT-CLASS-244-1 ..... c 31 N69-27499 * #
US-PATENT-CLASS-244-1 ..... c 03 N70-33343 *
US-PATENT-CLASS-244-1 ..... c 33 N70-33344 *
US-PATENT-CLASS-244-1 ..... c 03 N70-34157 * #
US-PATENT-CLASS-244-1 ..... c 31 N70-34176 * #
US-PATENT-CLASS-244-1 ..... c 21 N70-34295 * #
US-PATENT-CLASS-244-1 ..... c 31 N70-34296 * #
US-PATENT-CLASS-244-1 ..... c 21 N70-35395 * #
US-PATENT-CLASS-244-1 ..... c 31 N70-36410 * #
US-PATENT-CLASS-244-1 ..... c 33 N70-36617 * #
US-PATENT-CLASS-244-1 ..... c 21 N70-36943 * #
US-PATENT-CLASS-244-1 ..... c 31 N70-37924 * #
US-PATENT-CLASS-244-1 ..... c 31 N70-37938 * #
US-PATENT-CLASS-244-1 ..... c 31 N70-37986 * #
US-PATENT-CLASS-244-1 ..... c 31 N70-38676 * #
US-PATENT-CLASS-244-1 ..... c 30 N70-40016 * #
US-PATENT-CLASS-244-1 ..... c 31 N70-41373 * #
US-PATENT-CLASS-244-1 ..... c 31 N70-41588 * #
US-PATENT-CLASS-244-1 ..... c 31 N70-41631 * #
US-PATENT-CLASS-244-1 ..... c 31 N70-41855 * #
US-PATENT-CLASS-244-1 ..... c 21 N70-41856 * #
US-PATENT-CLASS-244-1 ..... c 31 N70-42075 * #
US-PATENT-CLASS-244-1 ..... c 03 N71-11058 * #
US-PATENT-CLASS-244-1 ..... c 33 N71-14035 * #
US-PATENT-CLASS-244-1 ..... c 21 N71-14132 * #
US-PATENT-CLASS-244-1 ..... c 21 N71-14159 * #
US-PATENT-CLASS-244-1 ..... c 21 N71-15583 *
US-PATENT-CLASS-244-1 ..... c 31 N71-15663 *
US-PATENT-CLASS-244-1 ..... c 31 N71-15674 *
US-PATENT-CLASS-244-1 ..... c 31 N71-15676 *
US-PATENT-CLASS-244-1 ..... c 02 N71-16087 *
US-PATENT-CLASS-244-1 ..... c 31 N71-16222 *
US-PATENT-CLASS-244-1 ..... c 31 N71-16345 *
US-PATENT-CLASS-244-1 ..... c 31 N71-16346 *
US-PATENT-CLASS-244-1 ..... c 31 N71-17679 *

US-PATENT-CLASS-244-1 ..... c 15 N71-17693 *
US-PATENT-CLASS-244-1 ..... c 31 N71-17729 *
US-PATENT-CLASS-244-1 ..... c 15 N71-19214 *
US-PATENT-CLASS-244-1 ..... c 03 N71-20273 *
US-PATENT-CLASS-244-1 ..... c 31 N71-20396 *
US-PATENT-CLASS-244-1 ..... c 31 N71-21064 *
US-PATENT-CLASS-244-1 ..... c 14 N71-21082 *
US-PATENT-CLASS-244-1 ..... c 21 N71-21708 *
US-PATENT-CLASS-244-1 ..... c 31 N71-21881 *
US-PATENT-CLASS-244-1 ..... c 33 N71-22792 *
US-PATENT-CLASS-244-1 ..... c 31 N71-22968 *
US-PATENT-CLASS-244-1 ..... c 31 N71-22969 *
US-PATENT-CLASS-244-1 ..... c 31 N71-23009 *
US-PATENT-CLASS-244-1 ..... c 14 N71-23040 *
US-PATENT-CLASS-244-1 ..... c 31 N71-23912 *
US-PATENT-CLASS-244-1 ..... c 31 N71-24315 *
US-PATENT-CLASS-244-1 ..... c 15 N71-24600 *
US-PATENT-CLASS-244-1 ..... c 05 N71-24728 *
US-PATENT-CLASS-244-1 ..... c 33 N71-25353 *
US-PATENT-CLASS-244-1 ..... c 31 N71-25434 *
US-PATENT-CLASS-244-1 ..... c 31 N71-26537 *
US-PATENT-CLASS-244-1 ..... c 15 N71-26611 *
US-PATENT-CLASS-244-1 ..... c 28 N71-27095 *
US-PATENT-CLASS-244-1 ..... c 21 N71-27324 *
US-PATENT-CLASS-244-1 ..... c 33 N71-28903 *
US-PATENT-CLASS-244-1 ..... c 15 N71-28936 *
US-PATENT-CLASS-244-1 ..... c 31 N71-29050 *
US-PATENT-CLASS-244-1 ..... c 31 N71-33160 *
US-PATENT-CLASS-244-212 ..... c 05 N84-22551 * #
US-PATENT-CLASS-244-213 ..... c 08 N82-24205 * #
US-PATENT-CLASS-244-214 ..... c 08 N85-19985 * #
US-PATENT-CLASS-244-215 ..... c 05 N84-22551 * #
US-PATENT-CLASS-244-216 ..... c 05 N84-22551 * #
US-PATENT-CLASS-244-217 ..... c 37 N82-16408 * #
US-PATENT-CLASS-244-218 ..... c 05 N78-32086 * #
US-PATENT-CLASS-244-218 ..... c 08 N79-14108 * #
US-PATENT-CLASS-244-219 ..... c 05 N84-22551 * #
US-PATENT-CLASS-244-226 ..... c 08 N82-24205 * #
US-PATENT-CLASS-244-23A ..... c 21 N72-25595 * #
US-PATENT-CLASS-244-23C ..... c 05 N82-26277 * #
US-PATENT-CLASS-244-23D ..... c 34 N76-18364 * #
US-PATENT-CLASS-244-23 ..... c 02 N71-11039 * #
US-PATENT-CLASS-244-2 ..... c 14 N81-26161 * #
US-PATENT-CLASS-244-2 ..... c 18 N84-27787 * #
US-PATENT-CLASS-244-3.14 ..... c 31 N71-17691 *
US-PATENT-CLASS-244-3.16 ..... c 19 N74-15089 * #
US-PATENT-CLASS-244-3.21 ..... c 30 N72-17873 * #
US-PATENT-CLASS-244-3.21 ..... c 15 N76-14158 * #
US-PATENT-CLASS-244-3.21 ..... c 15 N77-10113 * #
US-PATENT-CLASS-244-3.21 ..... c 35 N77-20399 * #
US-PATENT-CLASS-244-3.22 ..... c 31 N71-17629 *
US-PATENT-CLASS-244-3.22 ..... c 28 N72-22769 * #
US-PATENT-CLASS-244-3.22 ..... c 20 N76-21275 * #
US-PATENT-CLASS-244-31 ..... c 02 N71-11037 * #
US-PATENT-CLASS-244-31 ..... c 31 N71-16081 *
US-PATENT-CLASS-244-31 ..... c 34 N74-23039 * #
US-PATENT-CLASS-244-327 ..... c 08 N74-30421 * #
US-PATENT-CLASS-244-32 ..... c 02 N73-13008 * #
US-PATENT-CLASS-244-34A ..... c 05 N82-26277 * #
US-PATENT-CLASS-244-35A ..... c 02 N84-11136 * #
US-PATENT-CLASS-244-35R ..... c 02 N76-22154 * #
US-PATENT-CLASS-244-35R ..... c 02 N84-11136 * #
US-PATENT-CLASS-244-35R ..... c 02 N84-28732 * #
US-PATENT-CLASS-244-35 ..... c 01 N71-13410 * #
US-PATENT-CLASS-244-40R ..... c 02 N76-22154 * #
US-PATENT-CLASS-244-42CG .... c 33 N77-10429 * #
US-PATENT-CLASS-244-42DA .... c 05 N75-25914 * #
US-PATENT-CLASS-244-42 ..... c 02 N70-42016 * #
US-PATENT-CLASS-244-42 ..... c 02 N71-26110 *
US-PATENT-CLASS-244-43 ..... c 02 N70-33255 *
US-PATENT-CLASS-244-43 ..... c 02 N71-11043 * #
US-PATENT-CLASS-244-44 ..... c 02 N71-11038 * #
US-PATENT-CLASS-244-45A ..... c 05 N78-32086 * #
US-PATENT-CLASS-244-45R ..... c 05 N84-12154 * #
US-PATENT-CLASS-244-45 ..... c 02 N71-12243 * #
US-PATENT-CLASS-244-46 ..... c 02 N70-33266 *
US-PATENT-CLASS-244-46 ..... c 02 N70-33286 *
US-PATENT-CLASS-244-46 ..... c 02 N70-34178 * #
US-PATENT-CLASS-244-46 ..... c 02 N70-34858 * #
US-PATENT-CLASS-244-46 ..... c 31 N70-38010 * #
US-PATENT-CLASS-244-46 ..... c 02 N70-38011 * #
US-PATENT-CLASS-244-46 ..... c 02 N71-11041 * #
US-PATENT-CLASS-244-46 ..... c 02 N73-26005 * #
US-PATENT-CLASS-244-46 ..... c 05 N76-29217 * #
US-PATENT-CLASS-244-46 ..... c 05 N78-32086 * #
US-PATENT-CLASS-244-46 ..... c 08 N79-14108 * #
US-PATENT-CLASS-244-48 ..... c 05 N79-12061 * #
US-PATENT-CLASS-244-48 ..... c 05 N82-28279 * #
US-PATENT-CLASS-244-49 ..... c 43 N81-17499 * #
US-PATENT-CLASS-244-4 ..... c 05 N69-21380 * #
US-PATENT-CLASS-244-4 ..... c 05 N71-12336 * #
US-PATENT-CLASS-244-4 ..... c 28 N71-27585 *
US-PATENT-CLASS-244-50 ..... c 02 N70-34160 * #
US-PATENT-CLASS-244-51 ..... c 02 N70-34856 * #
US-PATENT-CLASS-244-52 ..... c 08 N81-19130 * #
US-PATENT-CLASS-244-53A ..... c 07 N78-18066 * #
US-PATENT-CLASS-244-53B ..... c 02 N74-20646 * #
US-PATENT-CLASS-244-53B ..... c 07 N75-24736 * #
US-PATENT-CLASS-244-53B ..... c 07 N77-18154 * #
US-PATENT-CLASS-244-53B ..... c 05 N79-24976 * #
US-PATENT-CLASS-244-53B ..... c 85 N82-33288 * #
US-PATENT-CLASS-244-53R ..... c 05 N84-12154 * #
US-PATENT-CLASS-244-53 ..... c 28 N71-15563 *
US-PATENT-CLASS-244-54 ..... c 07 N78-18066 * #
US-PATENT-CLASS-244-54 ..... c 07 N79-14096 * #
US-PATENT-CLASS-244-55 ..... c 02 N73-26005 * #
US-PATENT-CLASS-244-55 ..... c 05 N75-25914 * #
US-PATENT-CLASS-244-55 ..... c 05 N84-12154 * #
US-PATENT-CLASS-244-55 ..... c 07 N85-35194 * #
US-PATENT-CLASS-244-57 ..... c 15 N71-26611 *
US-PATENT-CLASS-244-63 ..... c 09 N77-19076 * #
US-PATENT-CLASS-244-63 ..... c 14 N81-26161 * #
US-PATENT-CLASS-244-63 ..... c 16 N84-27784 * #
US-PATENT-CLASS-244-63 ..... c 18 N84-27787 * #
US-PATENT-CLASS-244-75-R ..... c 08 N85-35200 * #
US-PATENT-CLASS-244-75A ..... c 02 N73-26004 * #
US-PATENT-CLASS-244-75R ..... c 05 N75-12930 * #
US-PATENT-CLASS-244-75R ..... c 05 N85-21147 * #
US-PATENT-CLASS-244-76C ..... c 02 N73-26004 * #
US-PATENT-CLASS-244-76 ..... c 21 N70-34539 * #
US-PATENT-CLASS-244-76 ..... c 02 N71-13422 * #
US-PATENT-CLASS-244-76 ..... c 02 N71-20570 *
US-PATENT-CLASS-244-77A ..... c 04 N74-13420 * #
US-PATENT-CLASS-244-77B ..... c 04 N74-13420 * #
US-PATENT-CLASS-244-77D ..... c 02 N73-19004 * #
US-PATENT-CLASS-244-77F ..... c 02 N73-26004 * #
US-PATENT-CLASS-244-77G ..... c 02 N73-26004 * #
US-PATENT-CLASS-244-77 ..... c 32 N71-23971 *
US-PATENT-CLASS-244-78 ..... c 08 N82-24205 * #
US-PATENT-CLASS-244-79 ..... c 04 N76-26175 * #
US-PATENT-CLASS-244-82 ..... c 05 N79-12061 * #
US-PATENT-CLASS-244-83G ..... c 08 N79-23097 * #
US-PATENT-CLASS-244-83R ..... c 05 N75-12930 * #
US-PATENT-CLASS-244-83 ..... c 21 N70-33279 *
US-PATENT-CLASS-244-83 ..... c 15 N71-23255 *
US-PATENT-CLASS-244-83 ..... c 31 N71-33160 *
US-PATENT-CLASS-244-83 ..... c 08 N74-10942 * #
US-PATENT-CLASS-244-87 ..... c 08 N81-19130 * #
US-PATENT-CLASS-244-90R ..... c 08 N74-30421 * #
US-PATENT-CLASS-244-90R ..... c 05 N79-12061 * #
US-PATENT-CLASS-244-90R ..... c 08 N79-14108 * #
US-PATENT-CLASS-244-90R ..... c 08 N85-19985 * #
US-PATENT-CLASS-244-90 ..... c 02 N71-27088 *
US-PATENT-CLASS-244-91 ..... c 08 N74-30421 * #
US-PATENT-CLASS-244-91 ..... c 05 N84-12154 * #
US-PATENT-CLASS-244-93 ..... c 05 N82-26277 * #
US-PATENT-CLASS-247-171 ..... c 35 N75-23910 * #
US-PATENT-CLASS-248-119 ..... c 11 N70-35383 * #
US-PATENT-CLASS-248-14 ..... c 15 N72-17454 * #
US-PATENT-CLASS-248-16 ..... c 18 N74-27397 * #
US-PATENT-CLASS-248-178 ..... c 15 N70-41310 * #
US-PATENT-CLASS-248-178 ..... c 37 N78-27425 * #
US-PATENT-CLASS-248-183 ..... c 14 N71-26627 *
US-PATENT-CLASS-248-183 ..... c 15 N72-11386 *
US-PATENT-CLASS-248-186 ..... c 37 N78-27425 * #
US-PATENT-CLASS-248-188.4 .... c 15 N72-27484 * #
US-PATENT-CLASS-248-188.9 .... c 31 N70-34159 * #
US-PATENT-CLASS-248-18 ..... c 14 N69-27486 * #
US-PATENT-CLASS-248-18 ..... c 15 N72-11391 *
US-PATENT-CLASS-248-20 ..... c 15 N72-11391 *
US-PATENT-CLASS-248-228 ..... c 37 N84-16560 * #
US-PATENT-CLASS-248-22 ..... c 19 N76-22284 * #
US-PATENT-CLASS-248-23 ..... c 18 N74-27397 * #
US-PATENT-CLASS-248-278 ..... c 15 N72-11386 *
US-PATENT-CLASS-248-27 ..... c 15 N71-20813 *
US-PATENT-CLASS-248-317 ..... c 11 N69-27466 * #
US-PATENT-CLASS-248-346 ..... c 14 N70-39898 * #
US-PATENT-CLASS-248-358R .... c 37 N75-18573 * #
US-PATENT-CLASS-248-358R .... c 19 N76-22284 * #
US-PATENT-CLASS-248-358 ..... c 15 N70-40156 * #
US-PATENT-CLASS-248-358 ..... c 23 N71-15673 *
US-PATENT-CLASS-248-358 ..... c 15 N71-24694 *
US-PATENT-CLASS-248-36-3 ..... c 37 N78-17383 * #
US-PATENT-CLASS-248-360 ..... c 15 N71-17649 *
US-PATENT-CLASS-248-361 ..... c 05 N71-28619 *
US-PATENT-CLASS-248-362 ..... c 37 N76-21554 * #
US-PATENT-CLASS-248-363 ..... c 37 N76-21554 * #
US-PATENT-CLASS-248-425 ..... c 37 N82-21587 * #
US-PATENT-CLASS-248-487 ..... c 15 N72-11386 *
US-PATENT-CLASS-248-503 ..... c 18 N85-29991 * #
US-PATENT-CLASS-248-550 ..... c 37 N85-34401 * #
US-PATENT-CLASS-248-555 ..... c 18 N85-29991 * #
US-PATENT-CLASS-248-636 ..... c 35 N83-32026 * #
US-PATENT-CLASS-248-638 ..... c 35 N83-32026 * #
US-PATENT-CLASS-248 ..... c 25 N79-28253 * #
US-PATENT-CLASS-249-144 ..... c 31 N75-13111 * #
US-PATENT-CLASS-249-145 ..... c 31 N74-32920 * #
US-PATENT-CLASS-249-145 ..... c 31 N75-13111 * #
US-PATENT-CLASS-249-184 ..... c 31 N74-32920 * #
US-PATENT-CLASS-249-59 ..... c 31 N75-13111 * #
US-PATENT-CLASS-249-83 ..... c 31 N74-32920 * #
US-PATENT-CLASS-249-95 ..... c 31 N74-32920 * #
US-PATENT-CLASS-25-156 ..... c 15 N71-16076 *
US-PATENT-CLASS-250-105 ..... c 14 N70-40240 * #
US-PATENT-CLASS-250-105 ..... c 14 N73-30389 * #
US-PATENT-CLASS-250-199 ..... c 16 N69-27491 * #
US-PATENT-CLASS-250-199 ..... c 07 N71-12389 * #
US-PATENT-CLASS-250-199 ..... c 16 N71-22895 *
US-PATENT-CLASS-250-199 ..... c 16 N71-25914 *
US-PATENT-CLASS-250-199 ..... c 16 N71-27183 *
US-PATENT-CLASS-250-199 ..... c 16 N71-28963 *
US-PATENT-CLASS-250-199 ..... c 16 N73-16536 * #
US-PATENT-CLASS-250-199 ..... c 07 N73-26119 * #
US-PATENT-CLASS-250-199 ..... c 74 N76-18913 * #
US-PATENT-CLASS-250-199 ..... c 74 N76-30053 * #
US-PATENT-CLASS-250-199 ..... c 74 N77-26942 * #
US-PATENT-CLASS-250-199 ..... c 32 N77-28346 *
US-PATENT-CLASS-250-199 ..... c 60 N77-32731 * #
US-PATENT-CLASS-250-199 ..... c 74 N78-14889 * #
US-PATENT-CLASS-250-201 ..... c 14 N70-40238 * #
US-PATENT-CLASS-250-201 ..... c 35 N75-15014 * #
US-PATENT-CLASS-250-201 ..... c 74 N78-17866 * #
US-PATENT-CLASS-250-203R .... c 14 N72-27409 * #
US-PATENT-CLASS-250-203R .... c 14 N73-25462 * #
US-PATENT-CLASS-250-203R .... c 14 N73-28490 * #
US-PATENT-CLASS-250-203R .... c 21 N73-30640 * #
US-PATENT-CLASS-250-203R .... c 19 N74-15089 * #
US-PATENT-CLASS-250-203R .... c 89 N74-30886 * #
US-PATENT-CLASS-250-203R .... c 35 N77-20401 * #
US-PATENT-CLASS-250-203R .... c 74 N77-22951 * #
US-PATENT-CLASS-250-203R .... c 44 N81-24520 * #
US-PATENT-CLASS-250-203R .... c 32 N83-18975 * #
US-PATENT-CLASS-250-203R .... c 47 N83-32232 * #
US-PATENT-CLASS-250-203X .... c 16 N72-13437 *
US-PATENT-CLASS-250-203 ..... c 14 N69-27432 * #
US-PATENT-CLASS-250-203 ..... c 14 N69-27485 * #
US-PATENT-CLASS-250-203 ..... c 07 N69-39736 * #
US-PATENT-CLASS-250-203 ..... c 14 N70-34158 * #
US-PATENT-CLASS-250-203 ..... c 21 N70-35089 * #
US-PATENT-CLASS-250-203 ..... c 14 N70-40239 * #
US-PATENT-CLASS-250-203 ..... c 21 N71-10678 * #
US-PATENT-CLASS-250-203 ..... c 21 N71-10771 * #
US-PATENT-CLASS-250-203 ..... c 21 N71-15642 *
US-PATENT-CLASS-250-203 ..... c 14 N71-19568 *
US-PATENT-CLASS-250-203 ..... c 14 N71-23269 *
US-PATENT-CLASS-250-203 ..... c 14 N71-23797 *
US-PATENT-CLASS-250-203 ..... c 14 N72-22444 * #
US-PATENT-CLASS-250-203 ..... c 14 N73-30393 * #
US-PATENT-CLASS-250-203 ..... c 35 N75-23910 * #
US-PATENT-CLASS-250-204 ..... c 36 N74-21091 * #
US-PATENT-CLASS-250-205 ..... c 14 N72-27411 * #
US-PATENT-CLASS-250-205 ..... c 09 N73-14214 * #
US-PATENT-CLASS-250-205 ..... c 36 N74-13205 * #
US-PATENT-CLASS-250-206 ..... c 10 N71-20782 *
US-PATENT-CLASS-250-207 ..... c 14 N72-17328 * #
US-PATENT-CLASS-250-207 ..... c 14 N73-32317 * #
US-PATENT-CLASS-250-207 ..... c 33 N74-27682 * #
US-PATENT-CLASS-250-208 ..... c 14 N72-20379 * #
US-PATENT-CLASS-250-209 ..... c 07 N69-39980 * #
US-PATENT-CLASS-250-209 ..... c 20 N71-16340 *
US-PATENT-CLASS-250-209 ..... c 10 N72-17173 * #
US-PATENT-CLASS-250-209 ..... c 14 N72-25409 * #
US-PATENT-CLASS-250-209 ..... c 14 N73-16483 * #
US-PATENT-CLASS-250-209 ..... c 14 N73-26432 * #
US-PATENT-CLASS-250-209 ..... c 14 N73-28490 * #
US-PATENT-CLASS-250-209 ..... c 21 N73-30640 * #
US-PATENT-CLASS-250-209 ..... c 44 N81-24520 * #
US-PATENT-CLASS-250-211J .... c 09 N72-17152 * #
US-PATENT-CLASS-250-211J .... c 09 N73-14214 * #
US-PATENT-CLASS-250-211J .... c 35 N74-15090 * #
US-PATENT-CLASS-250-211K .... c 74 N77-22951 * #
US-PATENT-CLASS-250-211K .... c 44 N80-18552 * #
US-PATENT-CLASS-250-211R .... c 36 N75-19652 * #
US-PATENT-CLASS-250-211R .... c 35 N75-23910 * #
US-PATENT-CLASS-250-212 ..... c 03 N71-23354 *
US-PATENT-CLASS-250-212 ..... c 03 N73-20040 * #
US-PATENT-CLASS-250-212 ..... c 09 N73-32109 * #
US-PATENT-CLASS-250-213VT .. c 74 N78-18905 * #
US-PATENT-CLASS-250-214AL .. c 74 N79-12890 * #
US-PATENT-CLASS-250-214A .... c 33 N77-14335 * #
US-PATENT-CLASS-250-214R .... c 14 N73-28490 * #
US-PATENT-CLASS-250-214R .... c 74 N79-12890 * #
US-PATENT-CLASS-250-214 ..... c 14 N73-25462 * #
US-PATENT-CLASS-250-214 ..... c 14 N73-25462 * #
US-PATENT-CLASS-250-214 ..... c 35 N74-15090 * #
US-PATENT-CLASS-250-214 ..... c 33 N82-28545 * #
US-PATENT-CLASS-250-215 ..... c 14 N73-16483 * #
US-PATENT-CLASS-250-216 ..... c 74 N79-34011 * #
US-PATENT-CLASS-250-216 ..... c 74 N82-24072 * #
US-PATENT-CLASS-250-217F .... c 14 N73-16484 * #
US-PATENT-CLASS-250-217R .... c 14 N73-19419 * #
US-PATENT-CLASS-250-217SS .. c 09 N73-14214 * #
US-PATENT-CLASS-250-217SS .. c 36 N74-15145 * #
US-PATENT-CLASS-250-217 ..... c 14 N69-39896 * #
US-PATENT-CLASS-250-217 ..... c 14 N73-16483 * #
US-PATENT-CLASS-250-217 ..... c 36 N74-13205 * #
US-PATENT-CLASS-250-218 ..... c 14 N71-22996 *
US-PATENT-CLASS-250-218 ..... c 14 N71-28994 *

US-PATENT-CLASS-250-218 ..... c 74 N78-33913 * #
US-PATENT-CLASS-250-219DF .. c 91 N74-13130 * #
US-PATENT-CLASS-250-219TH .. c 26 N73-26751 * #
US-PATENT-CLASS-250-219 ..... c 14 N71-28993 *
US-PATENT-CLASS-250-221 ..... c 33 N82-28545 * #
US-PATENT-CLASS-250-221 ..... c 74 N85-22139 * #
US-PATENT-CLASS-250-225 ..... c 14 N71-24864 *
US-PATENT-CLASS-250-225 ..... c 14 N72-27409 * #
US-PATENT-CLASS-250-225 ..... c 32 N86-20647 * #
US-PATENT-CLASS-250-226 ..... c 14 N72-25409 * #
US-PATENT-CLASS-250-226 ..... c 43 N79-17288 * #
US-PATENT-CLASS-250-226 ..... c 74 N82-30071 * #
US-PATENT-CLASS-250-227 ..... c 14 N71-22991 *
US-PATENT-CLASS-250-227 ..... c 14 N71-23240 *
US-PATENT-CLASS-250-227 ..... c 60 N77-14751 * #
US-PATENT-CLASS-250-227 ..... c 74 N78-33913 * #
US-PATENT-CLASS-250-227 ..... c 74 N83-19597 * #
US-PATENT-CLASS-250-227 ..... c 74 N84-11921 * #
US-PATENT-CLASS-250-229 ..... c 08 N73-30135 * #
US-PATENT-CLASS-250-231R .... c 74 N82-30071 * #
US-PATENT-CLASS-250-231SE .. c 74 N74-21304 * #
US-PATENT-CLASS-250-231SE .. c 44 N80-18552 * #
US-PATENT-CLASS-250-231 ..... c 14 N73-20475 * #
US-PATENT-CLASS-250-232 ..... c 23 N71-21821 *
US-PATENT-CLASS-250-233 ..... c 23 N71-16100 *
US-PATENT-CLASS-250-234 ..... c 03 N73-20040 * #
US-PATENT-CLASS-250-235 ..... c 14 N72-11364 *
US-PATENT-CLASS-250-235 ..... c 43 N82-13465 * #
US-PATENT-CLASS-250-235 ..... c 74 N82-24072 * #
US-PATENT-CLASS-250-236 ..... c 21 N73-30640 * #
US-PATENT-CLASS-250-236 ..... c 43 N82-13465 * #
US-PATENT-CLASS-250-237G .... c 74 N79-20856 * #
US-PATENT-CLASS-250-237R .... c 08 N73-30135 * #
US-PATENT-CLASS-250-237R .... c 19 N74-15089 * #
US-PATENT-CLASS-250-237 ..... c 14 N69-24331 * #
US-PATENT-CLASS-250-238 ..... c 33 N75-31332 * #
US-PATENT-CLASS-250-238 ..... c 32 N77-28346 *
US-PATENT-CLASS-250-239 ..... c 08 N73-30135 * #
US-PATENT-CLASS-250-239 ..... c 74 N78-33913 * #
US-PATENT-CLASS-250-251 ..... c 35 N76-15431 * #
US-PATENT-CLASS-250-251 ..... c 35 N84-33767 * #
US-PATENT-CLASS-250-252.1 .... c 35 N84-33767 * #
US-PATENT-CLASS-250-253 ..... c 43 N79-31706 * #
US-PATENT-CLASS-250-272 ..... c 74 N78-15880 * #
US-PATENT-CLASS-250-272 ..... c 43 N79-31706 * #
US-PATENT-CLASS-250-277CH .. c 76 N78-24950 * #
US-PATENT-CLASS-250-277CH .. c 74 N80-21140 * #
US-PATENT-CLASS-250-280 ..... c 76 N78-24950 * #
US-PATENT-CLASS-250-280 ..... c 74 N80-21140 * #
US-PATENT-CLASS-250-281 ..... c 35 N74-34857 * #
US-PATENT-CLASS-250-281 ..... c 35 N76-16393 * #
US-PATENT-CLASS-250-281 ..... c 36 N77-26477 * #
US-PATENT-CLASS-250-281 ..... c 72 N80-14877 * #
US-PATENT-CLASS-250-282 ..... c 36 N77-26477 * #
US-PATENT-CLASS-250-282 ..... c 72 N80-14877 * #
US-PATENT-CLASS-250-282 ..... c 35 N83-27184 * #
US-PATENT-CLASS-250-283 ..... c 36 N77-26477 * #
US-PATENT-CLASS-250-287 ..... c 35 N76-15431 * #
US-PATENT-CLASS-250-287 ..... c 35 N76-16393 * #
US-PATENT-CLASS-250-288 ..... c 35 N76-16393 * #
US-PATENT-CLASS-250-288 ..... c 35 N77-32456 * #
US-PATENT-CLASS-250-288 ..... c 35 N83-27184 * #
US-PATENT-CLASS-250-289 ..... c 35 N77-14406 * #
US-PATENT-CLASS-250-290 ..... c 35 N77-10492 * #
US-PATENT-CLASS-250-291 ..... c 35 N77-10492 * #
US-PATENT-CLASS-250-295 ..... c 35 N74-34857 * #
US-PATENT-CLASS-250-296 ..... c 35 N84-28016 * #
US-PATENT-CLASS-250-298 ..... c 35 N77-14406 * #
US-PATENT-CLASS-250-304 ..... c 25 N74-26947 * #
US-PATENT-CLASS-250-305 ..... c 72 N84-28575 * #
US-PATENT-CLASS-250-307 ..... c 25 N80-20334 * #
US-PATENT-CLASS-250-308 ..... c 25 N80-20334 * #
US-PATENT-CLASS-250-310 ..... c 35 N78-10429 * #
US-PATENT-CLASS-250-310 ..... c 33 N80-14332 * #
US-PATENT-CLASS-250-311 ..... c 33 N83-18996 * #
US-PATENT-CLASS-250-320 ..... c 74 N78-15880 * #
US-PATENT-CLASS-250-322 ..... c 35 N78-15461 * #
US-PATENT-CLASS-250-330 ..... c 44 N82-32841 * #
US-PATENT-CLASS-250-332 ..... c 35 N75-19613 * #
US-PATENT-CLASS-250-332 ..... c 31 N78-25256 * #
US-PATENT-CLASS-250-332 ..... c 35 N82-31659 * #
US-PATENT-CLASS-250-332 ..... c 74 N83-19597 * #
US-PATENT-CLASS-250-332 ..... c 74 N84-28590 * #
US-PATENT-CLASS-250-335 ..... c 34 N76-18374 * #
US-PATENT-CLASS-250-336 ..... c 14 N73-28488 * #
US-PATENT-CLASS-250-336 ..... c 35 N76-15433 * #
US-PATENT-CLASS-250-336 ..... c 33 N76-27473 * #
US-PATENT-CLASS-250-336 ..... c 35 N78-13400 * #
US-PATENT-CLASS-250-338 ..... c 35 N74-18088 * #
US-PATENT-CLASS-250-338 ..... c 35 N77-10493 * #
US-PATENT-CLASS-250-338 ..... c 47 N77-10753 * #
US-PATENT-CLASS-250-338 ..... c 35 N80-26635 * #
US-PATENT-CLASS-250-338 ..... c 35 N83-21311 * #
US-PATENT-CLASS-250-338 ..... c 74 N84-28590 * #
US-PATENT-CLASS-250-339 ..... c 35 N77-10493 * #
US-PATENT-CLASS-250-339 ..... c 47 N77-10753 * #
US-PATENT-CLASS-250-339 ..... c 35 N84-33766 * #
US-PATENT-CLASS-250-339 ..... c 36 N85-21631 * #
US-PATENT-CLASS-250-339 ..... c 36 N85-29264 * #
US-PATENT-CLASS-250-340 ..... c 35 N76-29551 * #
US-PATENT-CLASS-250-340 ..... c 74 N83-19597 * #
US-PATENT-CLASS-250-343 ..... c 35 N74-11284 * #
US-PATENT-CLASS-250-343 ..... c 25 N74-26947 * #
US-PATENT-CLASS-250-343 ..... c 45 N75-27585 * #
US-PATENT-CLASS-250-343 ..... c 74 N76-20958 * #
US-PATENT-CLASS-250-343 ..... c 25 N76-22323 * #
US-PATENT-CLASS-250-343 ..... c 35 N77-14411 * #
US-PATENT-CLASS-250-343 ..... c 35 N78-13400 * #
US-PATENT-CLASS-250-343 ..... c 25 N81-14015 * #
US-PATENT-CLASS-250-343 ..... c 35 N84-34705 * #
US-PATENT-CLASS-250-343 ..... c 36 N85-21631 * #
US-PATENT-CLASS-250-344 ..... c 25 N76-22323 * #
US-PATENT-CLASS-250-344 ..... c 74 N78-17867 * #
US-PATENT-CLASS-250-345 ..... c 45 N75-27585 * #
US-PATENT-CLASS-250-347 ..... c 35 N77-10493 * #
US-PATENT-CLASS-250-347 ..... c 47 N77-10753 * #
US-PATENT-CLASS-250-347 ..... c 74 N80-33210 * #
US-PATENT-CLASS-250-350 ..... c 25 N81-25159 * #
US-PATENT-CLASS-250-350 ..... c 74 N83-19597 * #
US-PATENT-CLASS-250-351 ..... c 35 N75-30502 * #
US-PATENT-CLASS-250-351 ..... c 35 N78-13400 * #
US-PATENT-CLASS-250-351 ..... c 74 N83-19597 * #
US-PATENT-CLASS-250-351 ..... c 35 N84-34705 * #
US-PATENT-CLASS-250-352 ..... c 31 N79-17029 * #
US-PATENT-CLASS-250-352 ..... c 34 N79-20336 * #
US-PATENT-CLASS-250-352 ..... c 35 N80-26635 * #
US-PATENT-CLASS-250-352 ..... c 74 N80-33210 * #
US-PATENT-CLASS-250-353 ..... c 35 N76-29551 * #
US-PATENT-CLASS-250-353 ..... c 35 N80-26635 * #
US-PATENT-CLASS-250-353 ..... c 74 N80-33210 * #
US-PATENT-CLASS-250-356.1 .... c 47 N84-28292 * #
US-PATENT-CLASS-250-359 ..... c 37 N75-26372 * #
US-PATENT-CLASS-250-360 ..... c 35 N74-15091 * #
US-PATENT-CLASS-250-361 ..... c 35 N74-15091 * #
US-PATENT-CLASS-250-363R .... c 52 N77-14737 * #
US-PATENT-CLASS-250-363R .... c 74 N79-20857 * #
US-PATENT-CLASS-250-363R .... c 74 N84-11920 * #
US-PATENT-CLASS-250-363S .... c 74 N84-11920 * #
US-PATENT-CLASS-250-363S .... c 35 N85-30281 * #
US-PATENT-CLASS-250-367 ..... c 35 N84-33765 * #
US-PATENT-CLASS-250-368 ..... c 74 N81-24900 * #
US-PATENT-CLASS-250-368 ..... c 74 N84-11920 * #
US-PATENT-CLASS-250-369 ..... c 35 N74-15091 * #
US-PATENT-CLASS-250-369 ..... c 35 N82-32659 * #
US-PATENT-CLASS-250-369 ..... c 35 N85-30281 * #
US-PATENT-CLASS-250-370 ..... c 35 N74-18088 * #
US-PATENT-CLASS-250-370 ..... c 33 N75-31332 * #
US-PATENT-CLASS-250-370 ..... c 35 N82-31659 * #
US-PATENT-CLASS-250-370 ..... c 44 N82-32841 * #
US-PATENT-CLASS-250-371 ..... c 35 N74-18088 * #
US-PATENT-CLASS-250-372 ..... c 19 N74-29410 * #
US-PATENT-CLASS-250-372 ..... c 24 N76-24363 * #
US-PATENT-CLASS-250-372 ..... c 33 N76-27473 * #
US-PATENT-CLASS-250-372 ..... c 35 N83-21311 * #
US-PATENT-CLASS-250-372 ..... c 35 N84-33767 * #
US-PATENT-CLASS-250-373 ..... c 25 N74-26947 * #
US-PATENT-CLASS-250-373 ..... c 35 N75-30502 * #
US-PATENT-CLASS-250-373 ..... c 45 N76-17656 * #
US-PATENT-CLASS-250-374 ..... c 35 N74-26949 * #
US-PATENT-CLASS-250-374 ..... c 35 N85-34374 * #
US-PATENT-CLASS-250-379 ..... c 35 N85-34374 * #
US-PATENT-CLASS-250-385 ..... c 35 N74-26949 * #
US-PATENT-CLASS-250-385 ..... c 35 N75-27331 * #
US-PATENT-CLASS-250-385 ..... c 35 N76-15433 * #
US-PATENT-CLASS-250-385 ..... c 35 N76-16393 * #
US-PATENT-CLASS-250-385 ..... c 35 N82-24471 * #
US-PATENT-CLASS-250-385 ..... c 35 N84-33765 * #
US-PATENT-CLASS-250-386 ..... c 35 N82-24471 * #
US-PATENT-CLASS-250-388 ..... c 33 N83-24763 * #
US-PATENT-CLASS-250-389 ..... c 35 N82-24471 * #
US-PATENT-CLASS-250-394 ..... c 14 N73-30392 * #
US-PATENT-CLASS-250-394 ..... c 19 N74-29410 * #
US-PATENT-CLASS-250-396 ..... c 35 N77-14408 * #
US-PATENT-CLASS-250-398 ..... c 35 N78-10429 * #
US-PATENT-CLASS-250-400 ..... c 25 N76-29379 * #
US-PATENT-CLASS-250-400 ..... c 25 N78-27226 * #
US-PATENT-CLASS-250-41.9D ... c 14 N72-29464 * #
US-PATENT-CLASS-250-41.9G ... c 14 N73-12444 * #
US-PATENT-CLASS-250-41.9S .... c 14 N73-12444 * #
US-PATENT-CLASS-250-41.95 .... c 14 N71-28992 *
US-PATENT-CLASS-250-41.9 ..... c 06 N71-13461 * #
US-PATENT-CLASS-250-41.9 ..... c 24 N71-16095 *
US-PATENT-CLASS-250-41.9 ..... c 14 N71-23041 *
US-PATENT-CLASS-250-41.9 ..... c 14 N71-28863 *
US-PATENT-CLASS-250-41.9 ..... c 14 N72-17328 * #
US-PATENT-CLASS-250-41.9 ..... c 14 N73-32325 * #
US-PATENT-CLASS-250-416TV .. c 35 N78-15461 * #
US-PATENT-CLASS-250-423P ..... c 36 N77-26477 * #
US-PATENT-CLASS-250-423P ..... c 25 N78-25148 * #
US-PATENT-CLASS-250-423P ..... c 72 N80-14877 * #
US-PATENT-CLASS-250-423 ..... c 35 N76-15431 * #
US-PATENT-CLASS-250-423 ..... c 35 N76-16393 * #
US-PATENT-CLASS-250-423 ..... c 35 N83-27184 * #
US-PATENT-CLASS-250-426 ..... c 33 N85-21491 * #
US-PATENT-CLASS-250-427 ..... c 72 N80-27163 * #
US-PATENT-CLASS-250-429 ..... c 25 N76-29379 * #
US-PATENT-CLASS-250-429 ..... c 25 N78-27226 * #
US-PATENT-CLASS-250-43.5FC . c 14 N72-11365 *
US-PATENT-CLASS-250-43.5R ... c 14 N71-27090 *
US-PATENT-CLASS-250-43.5R ... c 14 N72-21408 * #
US-PATENT-CLASS-250-43.5R ... c 06 N72-25146 * #
US-PATENT-CLASS-250-43.5R ... c 06 N72-31141 * #
US-PATENT-CLASS-250-43.5 ..... c 27 N71-16348 *
US-PATENT-CLASS-250-43.5 ..... c 15 N71-24896 *
US-PATENT-CLASS-250-43.5 ..... c 14 N71-25901 *
US-PATENT-CLASS-250-432R .... c 25 N76-22323 * #
US-PATENT-CLASS-250-432 ..... c 45 N75-27585 * #
US-PATENT-CLASS-250-444 ..... c 52 N77-14737 * #
US-PATENT-CLASS-250-457 ..... c 35 N80-28686 * #
US-PATENT-CLASS-250-460 ..... c 37 N75-26372 * #
US-PATENT-CLASS-250-474.1 .... c 35 N83-21311 * #
US-PATENT-CLASS-250-475 ..... c 35 N79-10389 * #
US-PATENT-CLASS-250-483.1 .... c 35 N84-33765 * #
US-PATENT-CLASS-250-483 ..... c 74 N79-20857 * #
US-PATENT-CLASS-250-483 ..... c 74 N81-24900 * #
US-PATENT-CLASS-250-489 ..... c 35 N76-15433 * #
US-PATENT-CLASS-250-49.5B ... c 24 N72-11595 *
US-PATENT-CLASS-250-49.5TE . c 24 N72-11595 *
US-PATENT-CLASS-250-49.5 ..... c 14 N69-39982 * #
US-PATENT-CLASS-250-49.5 ..... c 14 N71-28863 *
US-PATENT-CLASS-250-49.5 ..... c 14 N72-17328 * #
US-PATENT-CLASS-250-491 ..... c 35 N80-28686 * #
US-PATENT-CLASS-250-492A .... c 33 N80-14332 * #
US-PATENT-CLASS-250-492B .... c 25 N78-27226 * #
US-PATENT-CLASS-250-492R .... c 25 N76-29379 * #
US-PATENT-CLASS-250-492R .... c 28 N78-24365 * #
US-PATENT-CLASS-250-492 ..... c 35 N74-15091 * #
US-PATENT-CLASS-250-492 ..... c 37 N75-26372 * #
US-PATENT-CLASS-250-493 ..... c 73 N75-30876 * #
US-PATENT-CLASS-250-495 ..... c 74 N75-12732 * #
US-PATENT-CLASS-250-496 ..... c 73 N75-30876 * #
US-PATENT-CLASS-250-498 ..... c 52 N77-14737 * #
US-PATENT-CLASS-250-499 ..... c 73 N74-26767 * #
US-PATENT-CLASS-250-499 ..... c 72 N76-15860 * #
US-PATENT-CLASS-250-499 ..... c 37 N78-13436 * #
US-PATENT-CLASS-250-500 ..... c 72 N76-15860 * #
US-PATENT-CLASS-250-505 ..... c 74 N74-27866 * #
US-PATENT-CLASS-250-505 ..... c 35 N75-19616 * #
US-PATENT-CLASS-250-508 ..... c 35 N75-19616 * #
US-PATENT-CLASS-250-51.5 ..... c 23 N73-13662 * #
US-PATENT-CLASS-250-51.5 ..... c 14 N73-28491 * #
US-PATENT-CLASS-250-510 ..... c 35 N75-19616 * #
US-PATENT-CLASS-250-511 ..... c 74 N74-27866 * #
US-PATENT-CLASS-250-513 ..... c 35 N80-28686 * #
US-PATENT-CLASS-250-518 ..... c 14 N73-30392 * #
US-PATENT-CLASS-250-51 ..... c 24 N72-11595 *
US-PATENT-CLASS-250-527 ..... c 37 N76-18458 * #
US-PATENT-CLASS-250-527 ..... c 25 N77-32255 * #
US-PATENT-CLASS-250-527 ..... c 44 N77-32580 * #
US-PATENT-CLASS-250-527 ..... c 44 N79-11470 * #
US-PATENT-CLASS-250-527 ..... c 44 N82-16475 * #
US-PATENT-CLASS-250-528 ..... c 25 N78-25148 * #
US-PATENT-CLASS-250-52 ..... c 15 N71-15606 * #
US-PATENT-CLASS-250-52 ..... c 11 N71-23042 *
US-PATENT-CLASS-250-52 ..... c 24 N72-11595 *
US-PATENT-CLASS-250-52 ..... c 23 N73-13662 * #
US-PATENT-CLASS-250-531 ..... c 25 N78-25148 * #
US-PATENT-CLASS-250-531 ..... c 33 N79-15245 * #
US-PATENT-CLASS-250-540 ..... c 33 N79-15245 * #
US-PATENT-CLASS-250-541 ..... c 33 N79-15245 * #
US-PATENT-CLASS-250-551 ..... c 74 N79-34011 * #
US-PATENT-CLASS-250-563 ..... c 38 N78-17396 * #
US-PATENT-CLASS-250-566 ..... c 74 N75-25706 * #
US-PATENT-CLASS-250-571 ..... c 36 N78-14380 * #
US-PATENT-CLASS-250-572 ..... c 38 N78-17395 * #
US-PATENT-CLASS-250-572 ..... c 38 N78-17396 * #
US-PATENT-CLASS-250-573 ..... c 74 N76-20958 * #
US-PATENT-CLASS-250-573 ..... c 34 N83-31993 * #
US-PATENT-CLASS-250-574 ..... c 45 N76-21742 * #
US-PATENT-CLASS-250-574 ..... c 36 N77-25501 * #
US-PATENT-CLASS-250-576 ..... c 35 N74-27860 * #
US-PATENT-CLASS-250-578 ..... c 36 N75-19652 * #
US-PATENT-CLASS-250-65F ..... c 15 N72-25452 * #
US-PATENT-CLASS-250-65R ..... c 14 N73-30389 * #
US-PATENT-CLASS-250-71.5R ... c 14 N72-29464 * #
US-PATENT-CLASS-250-71.5 ..... c 14 N72-17328 * #
US-PATENT-CLASS-250-71R ..... c 06 N73-16106 * #
US-PATENT-CLASS-250-71 ..... c 14 N70-41676 * #
US-PATENT-CLASS-250-83.3H ... c 14 N72-21408 * #
US-PATENT-CLASS-250-83.3H ... c 14 N72-24477 * #
US-PATENT-CLASS-250-83.3H ... c 14 N73-12445 * #
US-PATENT-CLASS-250-83.3H ... c 14 N73-20475 * #
US-PATENT-CLASS-250-83.3H ... c 14 N73-25462 * #
US-PATENT-CLASS-250-83.3R ... c 14 N73-12445 * #
US-PATENT-CLASS-250-83.3R ... c 14 N73-20477 * #
US-PATENT-CLASS-250-83.3R ... c 14 N73-32317 * #
US-PATENT-CLASS-250-83.3UV . c 10 N72-17173 * #
US-PATENT-CLASS-250-83.3UV . c 14 N72-25409 * #

US-PATENT-CLASS-250-83.3UV . c 06 N73-16106 * #
US-PATENT-CLASS-250-83.3 ..... c 21 N70-33181 *
US-PATENT-CLASS-250-83.3 ..... c 21 N70-34297 * #
US-PATENT-CLASS-250-83.3 ..... c 14 N71-15599 * #
US-PATENT-CLASS-250-83.3 ..... c 14 N71-18699 *
US-PATENT-CLASS-250-83.3 ..... c 14 N71-21088 *
US-PATENT-CLASS-250-83.3 ..... c 09 N71-22985 *
US-PATENT-CLASS-250-83.3 ..... c 14 N71-25901 *
US-PATENT-CLASS-250-83.3 ..... c 14 N71-26475 *
US-PATENT-CLASS-250-83.3 ..... c 14 N71-27323 *
US-PATENT-CLASS-250-83.3 ..... c 14 N72-17328 * #
US-PATENT-CLASS-250-83.3 ..... c 35 N75-27329 * #
US-PATENT-CLASS-250-83.6R ... c 14 N71-27090 *
US-PATENT-CLASS-250-83.6R ... c 14 N72-20381 * #
US-PATENT-CLASS-250-83.6R ... c 25 N72-33696 * #
US-PATENT-CLASS-250-83.6R ... c 74 N81-19898 * #
US-PATENT-CLASS-250-83.6 ..... c 10 N70-41991 * #
US-PATENT-CLASS-250-83CD .... c 91 N74-13130 * #
US-PATENT-CLASS-250-83R ..... c 14 N73-12445 * #
US-PATENT-CLASS-250-83R ..... c 14 N73-20477 * #
US-PATENT-CLASS-250-83 ..... c 14 N69-27484 * #
US-PATENT-CLASS-250-83 ..... c 14 N69-39937 * #
US-PATENT-CLASS-250-83 ..... c 09 N71-18830 *
US-PATENT-CLASS-250-83 ..... c 05 N71-19440 *
US-PATENT-CLASS-250-83 ..... c 14 N71-20430 *
US-PATENT-CLASS-250-83 ..... c 14 N71-23401 *
US-PATENT-CLASS-250-83 ..... c 09 N71-27232 *
US-PATENT-CLASS-250-84 ..... c 14 N71-24809 *
US-PATENT-CLASS-251-118 ..... c 15 N71-18580 *
US-PATENT-CLASS-251-11 ..... c 15 N70-35407 * #
US-PATENT-CLASS-251-120 ..... c 37 N74-21065 * #
US-PATENT-CLASS-251-121 ..... c 15 N71-18580 *
US-PATENT-CLASS-251-122 ..... c 15 N73-13462 * #
US-PATENT-CLASS-251-122 ..... c 37 N74-21065 * #
US-PATENT-CLASS-251-127 ..... c 12 N71-18615 *
US-PATENT-CLASS-251-127 ..... c 44 N84-14583 * #
US-PATENT-CLASS-251-129 ..... c 15 N72-20442 * #
US-PATENT-CLASS-251-138 ..... c 37 N80-23654 * #
US-PATENT-CLASS-251-148 ..... c 15 N71-23024 *
US-PATENT-CLASS-251-149.6 .... c 37 N76-14463 * #
US-PATENT-CLASS-251-149.9 .... c 37 N79-11402 * #
US-PATENT-CLASS-251-172 ..... c 15 N71-21234 *
US-PATENT-CLASS-251-172 ..... c 37 N79-33469 * #
US-PATENT-CLASS-251-173 ..... c 15 N70-33376 *
US-PATENT-CLASS-251-210 ..... c 37 N74-21065 * #
US-PATENT-CLASS-251-216 ..... c 37 N81-17433 * #
US-PATENT-CLASS-251-265 ..... c 37 N85-20338 * #
US-PATENT-CLASS-251-267 ..... c 37 N85-20338 * #
US-PATENT-CLASS-251-284 ..... c 37 N85-20338 * #
US-PATENT-CLASS-251-297 ..... c 37 N85-20338 * #
US-PATENT-CLASS-251-31 ..... c 15 N71-19485 *
US-PATENT-CLASS-251-325 ..... c 37 N85-29284 * #
US-PATENT-CLASS-251-331 ..... c 15 N72-31483 * #
US-PATENT-CLASS-251-333 ..... c 15 N70-34859 * #
US-PATENT-CLASS-251-333 ..... c 12 N71-18615 *
US-PATENT-CLASS-251-333 ..... c 15 N72-20442 * #
US-PATENT-CLASS-251-333 ..... c 37 N75-25185 * #
US-PATENT-CLASS-251-339 ..... c 37 N81-17433 * #
US-PATENT-CLASS-251-342 ..... c 12 N71-18615 *
US-PATENT-CLASS-251-349 ..... c 37 N85-29284 * #
US-PATENT-CLASS-251-353 ..... c 37 N85-29284 * #
US-PATENT-CLASS-251-358 ..... c 15 N71-17648 *
US-PATENT-CLASS-251-360 ..... c 15 N72-25451 * #
US-PATENT-CLASS-251-61.1 ..... c 12 N71-18615 *
US-PATENT-CLASS-251-61 ..... c 15 N71-10778 * #
US-PATENT-CLASS-251-7 ..... c 37 N79-28550 * #
US-PATENT-CLASS-251-86 ..... c 15 N72-31483 * #
US-PATENT-CLASS-251-86 ..... c 37 N80-23654 * #
US-PATENT-CLASS-252-12.2 ..... c 24 N79-17916 * #
US-PATENT-CLASS-252-12 ..... c 15 N71-23810 *
US-PATENT-CLASS-252-12 ..... c 24 N76-22309 * #
US-PATENT-CLASS-252-182.1 .... c 33 N84-14422 * #
US-PATENT-CLASS-252-26 ..... c 15 N71-21403 *
US-PATENT-CLASS-252-26 ..... c 15 N71-24046 *
US-PATENT-CLASS-252-2 ..... c 25 N83-36118 * #
US-PATENT-CLASS-252-300 ..... c 14 N72-22443 * #
US-PATENT-CLASS-252-300 ..... c 24 N76-24363 * #
US-PATENT-CLASS-252-301.1R . c 35 N79-10389 * #
US-PATENT-CLASS-252-301.16 .. c 35 N79-10389 * #
US-PATENT-CLASS-252-301.2 .... c 18 N71-27170 *
US-PATENT-CLASS-252-301.4 .... c 06 N73-30097 * #
US-PATENT-CLASS-252-305 ..... c 06 N73-30097 * #
US-PATENT-CLASS-252-359A .... c 37 N77-13418 * #
US-PATENT-CLASS-252-361 ..... c 71 N83-35781 * #
US-PATENT-CLASS-252-364 ..... c 28 N81-15119 * #
US-PATENT-CLASS-252-373 ..... c 44 N76-29704 * #
US-PATENT-CLASS-252-373 ..... c 44 N77-10636 * #
US-PATENT-CLASS-252-408 ..... c 14 N73-14428 * #
US-PATENT-CLASS-252-422 ..... c 45 N82-11634 * #
US-PATENT-CLASS-252-431N .... c 06 N73-32029 * #
US-PATENT-CLASS-252-431R .... c 06 N73-32029 * #
US-PATENT-CLASS-252-472 ..... c 25 N78-10225 * #
US-PATENT-CLASS-252-514 ..... c 05 N72-25120 * #
US-PATENT-CLASS-252-514 ..... c 44 N79-31752 * #
US-PATENT-CLASS-252-514 ..... c 25 N82-26396 * #
US-PATENT-CLASS-252-518 ..... c 24 N79-14156 * #
US-PATENT-CLASS-252-549 ..... c 23 N75-14834 * #
US-PATENT-CLASS-252-58 ..... c 18 N70-39897 * #
US-PATENT-CLASS-252-5 ..... c 25 N83-33977 * #
US-PATENT-CLASS-252-5 ..... c 25 N83-36118 * #
US-PATENT-CLASS-252-62.3E .... c 44 N80-24741 * #
US-PATENT-CLASS-252-62.3E .... c 44 N81-19558 * #
US-PATENT-CLASS-252-62.3GA c 25 N75-26043 * #
US-PATENT-CLASS-252-62.3 ..... c 26 N71-23292 *
US-PATENT-CLASS-252-62.3 ..... c 76 N76-25049 * #
US-PATENT-CLASS-252-62 ..... c 27 N74-27037 * #
US-PATENT-CLASS-252-70 ..... c 23 N75-14834 * #
US-PATENT-CLASS-252-8.1 ..... c 18 N73-26572 * #
US-PATENT-CLASS-252-8.1 ..... c 27 N74-27037 * #
US-PATENT-CLASS-252-8.1 ..... c 24 N78-14096 * #
US-PATENT-CLASS-253-317 ..... c 44 N77-22606 * #
US-PATENT-CLASS-253-39.15 .... c 15 N70-33226 *
US-PATENT-CLASS-253-39.15 .... c 15 N70-33264 *
US-PATENT-CLASS-253-39.15 .... c 28 N70-33372 *
US-PATENT-CLASS-253-39.1 ..... c 33 N71-29152 *
US-PATENT-CLASS-253-66 ..... c 15 N70-36412 * #
US-PATENT-CLASS-253-66 ..... c 28 N70-39895 * #
US-PATENT-CLASS-253-77 ..... c 28 N71-28928 *
US-PATENT-CLASS-253-77 ..... c 28 N71-29154 *
US-PATENT-CLASS-253 ..... c 25 N79-28253 * #
US-PATENT-CLASS-254-124 ..... c 20 N76-22296 * #
US-PATENT-CLASS-254-131 ..... c 60 N82-24839 * #
US-PATENT-CLASS-254-150 ..... c 15 N71-24599 *
US-PATENT-CLASS-254-156 ..... c 15 N73-25512 * #
US-PATENT-CLASS-254-158 ..... c 54 N77-21844 * #
US-PATENT-CLASS-254-173 ..... c 15 N71-24599 *
US-PATENT-CLASS-254-186 ..... c 15 N71-24599 *
US-PATENT-CLASS-254-190 ..... c 15 N72-25453 * #
US-PATENT-CLASS-254-29A ..... c 15 N73-30457 * #
US-PATENT-CLASS-254-93R ..... c 35 N74-13129 * #
US-PATENT-CLASS-254-93R ..... c 20 N76-22296 * #
US-PATENT-CLASS-256-13.1 ..... c 37 N79-10420 * #
US-PATENT-CLASS-256-1 ..... c 37 N79-10420 * #
US-PATENT-CLASS-256-308.2 .... c 27 N86-20561 * #
US-PATENT-CLASS-259-DIG.18 . c 35 N74-15093 * #
US-PATENT-CLASS-259-4AC ..... c 37 N76-19436 * #
US-PATENT-CLASS-259-4 ..... c 15 N73-19458 * #
US-PATENT-CLASS-259-60 ..... c 35 N74-15093 * #
US-PATENT-CLASS-259-71 ..... c 15 N71-21177 *
US-PATENT-CLASS-259-72 ..... c 37 N74-18123 * #
US-PATENT-CLASS-259-98 ..... c 35 N74-15126 * #
US-PATENT-CLASS-259/4R ..... c 34 N77-24423 * #
US-PATENT-CLASS-260.46.5E .... c 27 N74-21156 * #
US-PATENT-CLASS-260-DIG.15 . c 27 N78-14164 * #
US-PATENT-CLASS-260-DIG.24 . c 27 N74-27037 * #
US-PATENT-CLASS-260-DIG.24 . c 27 N76-24405 * #
US-PATENT-CLASS-260-DIG.29 . c 27 N80-24438 * #
US-PATENT-CLASS-260-17.2 ..... c 24 N80-26388 * #
US-PATENT-CLASS-260-17.2 ..... c 24 N81-13999 * #
US-PATENT-CLASS-260-17.4UC . c 23 N81-29160 * #
US-PATENT-CLASS-260-17A ..... c 27 N81-14076 * #
US-PATENT-CLASS-260-18S ..... c 06 N72-25151 * #
US-PATENT-CLASS-260-2.1E ..... c 18 N72-22567 * #
US-PATENT-CLASS-260-2.1E ..... c 27 N81-14076 * #
US-PATENT-CLASS-260-2.1E ..... c 25 N81-19244 * #
US-PATENT-CLASS-260-2.1 ..... c 25 N81-17187 * #
US-PATENT-CLASS-260-2.2R ..... c 25 N81-17187 * #
US-PATENT-CLASS-260-2.2R ..... c 25 N81-19244 * #
US-PATENT-CLASS-260-2.5AK ... c 27 N76-15310 * #
US-PATENT-CLASS-260-2.5AK ... c 24 N78-24290 * #
US-PATENT-CLASS-260-2.5AM .. c 27 N74-12812 * #
US-PATENT-CLASS-260-2.5AM .. c 27 N77-31308 * #
US-PATENT-CLASS-260-2.5AP ... c 24 N78-24290 * #
US-PATENT-CLASS-260-2.5AY ... c 27 N77-31308 * #
US-PATENT-CLASS-260-2.5A ..... c 27 N77-31308 * #
US-PATENT-CLASS-260-2.5BE .... c 24 N78-24290 * #
US-PATENT-CLASS-260-2.5B ..... c 24 N78-24290 * #
US-PATENT-CLASS-260-2.5EP .... c 24 N78-24290 * #
US-PATENT-CLASS-260-2.5FP ... c 06 N72-25147 * #
US-PATENT-CLASS-260-2.5FP ... c 27 N74-27037 * #
US-PATENT-CLASS-260-2.5FP ... c 24 N78-24290 * #
US-PATENT-CLASS-260-2.5F ..... c 18 N73-13562 * #
US-PATENT-CLASS-260-2.5L ..... c 27 N74-12814 * #
US-PATENT-CLASS-260-2.5N ..... c 24 N78-15180 * #
US-PATENT-CLASS-260-2.5N ..... c 27 N78-31232 * #
US-PATENT-CLASS-260-2.5R ..... c 27 N74-27037 * #
US-PATENT-CLASS-260-2.5R ..... c 24 N78-15180 * #
US-PATENT-CLASS-260-2.5 ..... c 06 N71-11242 * #
US-PATENT-CLASS-260-2.5 ..... c 06 N71-24739 *
US-PATENT-CLASS-260-2.5 ..... c 06 N71-25929 *
US-PATENT-CLASS-260-2.5 ..... c 18 N71-26155 *
US-PATENT-CLASS-260-2.5 ..... c 06 N72-25150 * #
US-PATENT-CLASS-260-2P ..... c 27 N78-32256 * #
US-PATENT-CLASS-260-2R ..... c 37 N74-18126 * #
US-PATENT-CLASS-260-2R ..... c 27 N74-27037 * #
US-PATENT-CLASS-260-2R ..... c 27 N78-15276 * #
US-PATENT-CLASS-260-211.5 .... c 06 N72-25149 * #
US-PATENT-CLASS-260-240G .... c 27 N76-32315 * #
US-PATENT-CLASS-260-245.75 .. c 27 N86-19455 * #
US-PATENT-CLASS-260-245.9 .... c 27 N86-19455 * #
US-PATENT-CLASS-260-28.5 ..... c 27 N78-33228 * #
US-PATENT-CLASS-260-29.1R ... c 24 N78-24290 * #
US-PATENT-CLASS-260-29.6RB . c 25 N81-19242 * #
US-PATENT-CLASS-260-29.6S .... c 27 N74-17283 * #
US-PATENT-CLASS-260-29.6 ..... c 26 N75-27125 * #
US-PATENT-CLASS-260-2 ..... c 06 N71-11243 * #
US-PATENT-CLASS-260-2 ..... c 06 N71-20717 *
US-PATENT-CLASS-260-2 ..... c 06 N71-20905 *
US-PATENT-CLASS-260-2 ..... c 06 N71-27363 *
US-PATENT-CLASS-260-2 ..... c 06 N73-30102 * #
US-PATENT-CLASS-260-2 ..... c 27 N79-21190 * #
US-PATENT-CLASS-260-30.2 ..... c 06 N73-27980 * #
US-PATENT-CLASS-260-30.4N .... c 27 N78-17205 * #
US-PATENT-CLASS-260-30.8DS . c 06 N73-27980 * #
US-PATENT-CLASS-260-307G .... c 27 N79-22300 * #
US-PATENT-CLASS-260-32.2R .... c 27 N78-17205 * #
US-PATENT-CLASS-260-32.6NT . c 27 N78-17205 * #
US-PATENT-CLASS-260-32.6N .... c 06 N73-27980 * #
US-PATENT-CLASS-260-32.6N .... c 23 N76-15268 * #
US-PATENT-CLASS-260-32.8N .... c 23 N76-15268 * #
US-PATENT-CLASS-260-326N .... c 27 N81-17260 * #
US-PATENT-CLASS-260-326S ..... c 27 N81-17260 * #
US-PATENT-CLASS-260-33.4R .... c 06 N73-27980 * #
US-PATENT-CLASS-260-33.4R .... c 27 N78-17205 * #
US-PATENT-CLASS-260-33.4R .... c 27 N81-19296 * #
US-PATENT-CLASS-260-33.6EP . c 24 N78-27180 * #
US-PATENT-CLASS-260-33.6PQ . c 24 N78-27180 * #
US-PATENT-CLASS-260-33.6R .... c 06 N73-27980 * #
US-PATENT-CLASS-260-33.6UB . c 27 N81-15104 * #
US-PATENT-CLASS-260-33.8EP . c 24 N78-27180 * #
US-PATENT-CLASS-260-33.8F .... c 27 N76-24405 * #
US-PATENT-CLASS-260-33.8F .... c 25 N81-14016 * #
US-PATENT-CLASS-260-33.8UA . c 24 N78-27180 * #
US-PATENT-CLASS-260-340.9R . c 23 N82-16174 * #
US-PATENT-CLASS-260-346.3 .... c 23 N75-30256 * #
US-PATENT-CLASS-260-346.3 .... c 23 N76-15268 * #
US-PATENT-CLASS-260-346.3 .... c 27 N80-32515 * #
US-PATENT-CLASS-260-348SC .. c 06 N72-25148 * #
US-PATENT-CLASS-260-37EP .... c 24 N78-24290 * #
US-PATENT-CLASS-260-37EP .... c 24 N78-27180 * #
US-PATENT-CLASS-260-37EP .... c 15 N79-26100 * #
US-PATENT-CLASS-260-37EP .... c 27 N81-17260 * #
US-PATENT-CLASS-260-37N ..... c 27 N79-28307 * #
US-PATENT-CLASS-260-37 ..... c 18 N71-25881 *
US-PATENT-CLASS-260-37 ..... c 27 N81-24258 * #
US-PATENT-CLASS-260-386 ..... c 25 N82-24312 * #
US-PATENT-CLASS-260-389 ..... c 25 N82-24312 * #
US-PATENT-CLASS-260-396N .... c 27 N74-27037 * #
US-PATENT-CLASS-260-404.5 .... c 18 N71-15688 *
US-PATENT-CLASS-260-42.17 .... c 27 N78-17215 * #
US-PATENT-CLASS-260-42.43 .... c 24 N78-27180 * #
US-PATENT-CLASS-260-429 ..... c 06 N71-28808 *
US-PATENT-CLASS-260-42 ..... c 27 N79-28307 * #
US-PATENT-CLASS-260-448.2D . c 06 N72-25151 * #
US-PATENT-CLASS-260-448.2D . c 06 N73-32030 * #
US-PATENT-CLASS-260-448.2N . c 37 N74-21058 * #
US-PATENT-CLASS-260-448.2 .... c 06 N71-23230 *
US-PATENT-CLASS-260-45.7R ... c 24 N78-27180 * #
US-PATENT-CLASS-260-45.7R ... c 27 N82-16238 * #
US-PATENT-CLASS-260-45.75W c 24 N78-27180 * #
US-PATENT-CLASS-260-45.7 ..... c 27 N76-24405 * #
US-PATENT-CLASS-260-45.85N . c 24 N78-27180 * #
US-PATENT-CLASS-260-45.9R ... c 24 N78-27180 * #
US-PATENT-CLASS-260-46.5E .... c 06 N72-25151 * #
US-PATENT-CLASS-260-46.5G ... c 06 N72-25151 * #
US-PATENT-CLASS-260-46.5P .... c 06 N72-25151 * #
US-PATENT-CLASS-260-46.5R ... c 06 N73-26100 * #
US-PATENT-CLASS-260-46.5 ..... c 06 N71-11237 * #
US-PATENT-CLASS-260-46.5 ..... c 06 N71-11240 * #
US-PATENT-CLASS-260-465.5R . c 27 N81-24256 * #
US-PATENT-CLASS-260-465.5R . c 27 N84-22744 * #
US-PATENT-CLASS-260-465.6 .... c 27 N84-22744 * #
US-PATENT-CLASS-260-47CP .... c 06 N73-27980 * #
US-PATENT-CLASS-260-47CP .... c 23 N76-15268 * #
US-PATENT-CLASS-260-47CP .... c 27 N78-31232 * #
US-PATENT-CLASS-260-47CP .... c 27 N78-32261 * #
US-PATENT-CLASS-260-47UP .... c 06 N73-32029 * #
US-PATENT-CLASS-260-47 ..... c 06 N71-28620 *
US-PATENT-CLASS-260-47 ..... c 06 N71-28807 *
US-PATENT-CLASS-260-485F .... c 06 N73-30098 * #
US-PATENT-CLASS-260-49 ..... c 27 N78-32261 * #
US-PATENT-CLASS-260-520 ..... c 23 N75-30256 * #
US-PATENT-CLASS-260-535H .... c 06 N72-27144 * #
US-PATENT-CLASS-260-53 ..... c 27 N79-28307 * #
US-PATENT-CLASS-260-544-D ... c 27 N86-21675 * #
US-PATENT-CLASS-260-544F .... c 06 N72-20121 * #
US-PATENT-CLASS-260-551P .... c 27 N78-32256 * #
US-PATENT-CLASS-260-566B .... c 27 N76-32315 * #
US-PATENT-CLASS-260-567.6M . c 06 N73-32029 * #
US-PATENT-CLASS-260-571 ..... c 23 N76-15268 * #
US-PATENT-CLASS-260-606-5P . c 27 N78-32256 * #
US-PATENT-CLASS-260-615 ..... c 06 N71-27254 *
US-PATENT-CLASS-260-615 ..... c 06 N73-30101 * #
US-PATENT-CLASS-260-63N ..... c 27 N78-31232 * #
US-PATENT-CLASS-260-63N ..... c 27 N78-32261 * #
US-PATENT-CLASS-260-63R ..... c 27 N78-32261 * #
US-PATENT-CLASS-260-65 ..... c 06 N73-27980 * #
US-PATENT-CLASS-260-65 ..... c 27 N78-32261 * #

US-PATENT-CLASS-260-65 ..... c 23 N82-29358 * #
US-PATENT-CLASS-260-67 ..... c 27 N78-17214 * #
US-PATENT-CLASS-260-67 ..... c 27 N79-21191 * #
US-PATENT-CLASS-260-72.5 ..... c 06 N71-11236 * #
US-PATENT-CLASS-260-72.5 ..... c 06 N71-11239 * #
US-PATENT-CLASS-260-72.5 ..... c 06 N71-24740 *
US-PATENT-CLASS-260-75NH .... c 27 N78-17213 * #
US-PATENT-CLASS-260-75NK .... c 27 N78-17213 * #
US-PATENT-CLASS-260-75NT .... c 27 N78-17213 * #
US-PATENT-CLASS-260-77.5AM c 27 N78-17213 * #
US-PATENT-CLASS-260-77.5AN . c 27 N78-17213 * #
US-PATENT-CLASS-260-77.5AP . c 06 N72-27144 * #
US-PATENT-CLASS-260-77.5AP . c 06 N73-33076 * #
US-PATENT-CLASS-260-77.5AP . c 27 N77-31308 * #
US-PATENT-CLASS-260-77.5AP . c 27 N78-17213 * #
US-PATENT-CLASS-260-77.5AT . c 27 N78-17213 * #
US-PATENT-CLASS-260-77.55P . c 27 N78-17213 * #
US-PATENT-CLASS-260-77.5 ..... c 06 N73-30099 * #
US-PATENT-CLASS-260-77.5 ..... c 06 N73-30100 * #
US-PATENT-CLASS-260-77.5 ..... c 06 N73-30103 * #
US-PATENT-CLASS-260-78.41 .... c 27 N78-31232 * #
US-PATENT-CLASS-260-78TF .... c 06 N73-27980 * #
US-PATENT-CLASS-260-78TF .... c 27 N74-23125 * #
US-PATENT-CLASS-260-78TF .... c 23 N75-30256 * #
US-PATENT-CLASS-260-78TF .... c 23 N76-15268 * #
US-PATENT-CLASS-260-78TF .... c 27 N78-32261 * #
US-PATENT-CLASS-260-78UA .... c 06 N73-27980 * #
US-PATENT-CLASS-260-78 ..... c 06 N71-11235 * #
US-PATENT-CLASS-260-78 ..... c 06 N71-11238 * #
US-PATENT-CLASS-260-830S .... c 15 N79-26100 * #
US-PATENT-CLASS-260-85.5 ..... c 06 N71-23500 *
US-PATENT-CLASS-260-858 ..... c 27 N81-14076 * #
US-PATENT-CLASS-260-877 ..... c 06 N72-22107 * #
US-PATENT-CLASS-260-879 ..... c 27 N76-16228 * #
US-PATENT-CLASS-260-886 ..... c 27 N81-14076 * #
US-PATENT-CLASS-260-8900 .... c 27 N81-14076 * #
US-PATENT-CLASS-260-895 ..... c 27 N81-14076 * #
US-PATENT-CLASS-260-898 ..... c 27 N81-14076 * #
US-PATENT-CLASS-260-900 ..... c 27 N76-16228 * #
US-PATENT-CLASS-260-901 ..... c 27 N81-14076 * #
US-PATENT-CLASS-260-92.1 ..... c 06 N72-25150 * #
US-PATENT-CLASS-260-92.1 ..... c 06 N72-25152 * #
US-PATENT-CLASS-260-92.1 ..... c 27 N76-16228 * #
US-PATENT-CLASS-260-92.1 ..... c 27 N76-24405 * #
US-PATENT-CLASS-260-926 ..... c 27 N80-10358 * #
US-PATENT-CLASS-260-927-N ... c 23 N86-19376 * #
US-PATENT-CLASS-260-93.5A ... c 06 N73-32029 * #
US-PATENT-CLASS-260-93.5S ... c 06 N73-32029 * #
US-PATENT-CLASS-260-94.2M ... c 06 N73-32029 * #
US-PATENT-CLASS-260-94.2R ... c 06 N73-32029 * #
US-PATENT-CLASS-260-94.7R ... c 06 N73-32029 * #
US-PATENT-CLASS-260-94.8 ..... c 27 N73-22710 * #
US-PATENT-CLASS-260-959 ..... c 27 N78-32256 * #
US-PATENT-CLASS-260-96D ..... c 28 N81-15119 * #
US-PATENT-CLASS-261-DIG.75 . c 34 N77-24423 * #
US-PATENT-CLASS-261-118 ..... c 31 N80-18231 * #
US-PATENT-CLASS-261-123 ..... c 34 N77-24423 * #
US-PATENT-CLASS-261-145 ..... c 28 N72-22772 * #
US-PATENT-CLASS-261-28 ..... c 07 N81-29129 * #
US-PATENT-CLASS-261-79A ..... c 54 N81-24724 * #
US-PATENT-CLASS-263-48 ..... c 15 N69-27483 * #
US-PATENT-CLASS-264-DIG.36 . c 18 N73-14584 * #
US-PATENT-CLASS-264-DIG.44 . c 15 N72-16329 * #
US-PATENT-CLASS-264-DIG.65 . c 27 N85-20124 * #
US-PATENT-CLASS-264-102 ..... c 15 N71-10672 * #
US-PATENT-CLASS-264-102 ..... c 15 N73-12489 * #
US-PATENT-CLASS-264-102 ..... c 31 N74-14133 * #
US-PATENT-CLASS-264-102 ..... c 31 N74-18124 * #
US-PATENT-CLASS-264-102 ..... c 37 N76-24575 * #
US-PATENT-CLASS-264-102 ..... c 15 N79-26100 * #
US-PATENT-CLASS-264-104 ..... c 05 N72-25120 * #
US-PATENT-CLASS-264-104 ..... c 27 N81-24257 * #
US-PATENT-CLASS-264-104 ..... c 23 N81-29160 * #
US-PATENT-CLASS-264-104 ..... c 25 N83-13188 * #
US-PATENT-CLASS-264-105 ..... c 27 N81-24257 * #
US-PATENT-CLASS-264-111 ..... c 17 N71-29137 *
US-PATENT-CLASS-264-112 ..... c 27 N85-20124 * #
US-PATENT-CLASS-264-118 ..... c 24 N80-26388 * #
US-PATENT-CLASS-264-118 ..... c 24 N84-16262 * #
US-PATENT-CLASS-264-119 ..... c 24 N80-26388 * #
US-PATENT-CLASS-264-120 ..... c 27 N85-20124 * #
US-PATENT-CLASS-264-124 ..... c 24 N80-26388 * #
US-PATENT-CLASS-264-129 ..... c 37 N76-31524 * #
US-PATENT-CLASS-264-12 ..... c 31 N83-35176 * #
US-PATENT-CLASS-264-130 ..... c 27 N78-32262 * #
US-PATENT-CLASS-264-135 ..... c 37 N74-18126 * #
US-PATENT-CLASS-264-136 ..... c 37 N74-18126 * #
US-PATENT-CLASS-264-137 ..... c 27 N79-33316 * #
US-PATENT-CLASS-264-137 ..... c 27 N81-14078 * #
US-PATENT-CLASS-264-137 ..... c 27 N81-29229 * #
US-PATENT-CLASS-264-137 ..... c 27 N83-34041 * #
US-PATENT-CLASS-264-137 ..... c 27 N85-20124 * #
US-PATENT-CLASS-264-145 ..... c 15 N79-26100 * #
US-PATENT-CLASS-264-151 ..... c 15 N79-26100 * #
US-PATENT-CLASS-264-152 ..... c 27 N85-20124 * #
US-PATENT-CLASS-264-157 ..... c 24 N78-17150 * #
US-PATENT-CLASS-264-161 ..... c 37 N76-31524 * #
US-PATENT-CLASS-264-175 ..... c 15 N79-26100 * #
US-PATENT-CLASS-264-184 ..... c 27 N78-32262 * #
US-PATENT-CLASS-264-1 ..... c 44 N79-24432 * #
US-PATENT-CLASS-264-211 ..... c 27 N78-32262 * #
US-PATENT-CLASS-264-212 ..... c 27 N80-32516 * #
US-PATENT-CLASS-264-216 ..... c 25 N82-21268 * #
US-PATENT-CLASS-264-217 ..... c 25 N75-12087 * #
US-PATENT-CLASS-264-219 ..... c 37 N76-31524 * #
US-PATENT-CLASS-264-220 ..... c 27 N82-28440 * #
US-PATENT-CLASS-264-221 ..... c 15 N72-16329 * #
US-PATENT-CLASS-264-225 ..... c 15 N72-16329 * #
US-PATENT-CLASS-264-227 ..... c 15 N72-16329 * #
US-PATENT-CLASS-264-229 ..... c 24 N81-29163 * #
US-PATENT-CLASS-264-22 ..... c 15 N72-20446 * #
US-PATENT-CLASS-264-22 ..... c 14 N72-22439 * #
US-PATENT-CLASS-264-22 ..... c 25 N75-12087 * #
US-PATENT-CLASS-264-22 ..... c 27 N80-32516 * #
US-PATENT-CLASS-264-22 ..... c 27 N82-28440 * #
US-PATENT-CLASS-264-230 ..... c 37 N82-24491 * #
US-PATENT-CLASS-264-231 ..... c 24 N81-29163 * #
US-PATENT-CLASS-264-236 ..... c 27 N78-32262 * #
US-PATENT-CLASS-264-236 ..... c 15 N79-26100 * #
US-PATENT-CLASS-264-23 ..... c 71 N78-10837 * #
US-PATENT-CLASS-264-23 ..... c 31 N81-15154 * #
US-PATENT-CLASS-264-24 ..... c 31 N81-33319 * #
US-PATENT-CLASS-264-24 ..... c 31 N83-35176 * #
US-PATENT-CLASS-264-257 ..... c 37 N74-18126 * #
US-PATENT-CLASS-264-258 ..... c 24 N81-29163 * #
US-PATENT-CLASS-264-258 ..... c 27 N83-34041 * #
US-PATENT-CLASS-264-258 ..... c 27 N85-20124 * #
US-PATENT-CLASS-264-259 ..... c 24 N81-29163 * #
US-PATENT-CLASS-264-267 ..... c 37 N76-24575 * #
US-PATENT-CLASS-264-27 ..... c 26 N71-17818 *
US-PATENT-CLASS-264-28 ..... c 15 N73-12489 * #
US-PATENT-CLASS-264-294 ..... c 31 N74-13177 * #
US-PATENT-CLASS-264-3R ..... c 28 N77-10213 * #
US-PATENT-CLASS-264-3R ..... c 20 N77-17143 * #
US-PATENT-CLASS-264-304 ..... c 37 N76-31524 * #
US-PATENT-CLASS-264-305 ..... c 37 N76-31524 * #
US-PATENT-CLASS-264-308 ..... c 37 N76-31524 * #
US-PATENT-CLASS-264-310 ..... c 37 N76-31524 * #
US-PATENT-CLASS-264-311 ..... c 24 N81-29163 * #
US-PATENT-CLASS-264-318 ..... c 37 N76-31524 * #
US-PATENT-CLASS-264-331.12 .. c 27 N85-20124 * #
US-PATENT-CLASS-264-331.19 .. c 27 N85-20124 * #
US-PATENT-CLASS-264-331.46 .. c 27 N83-34041 * #
US-PATENT-CLASS-264-331 ..... c 27 N76-16230 * #
US-PATENT-CLASS-264-332 ..... c 37 N81-25371 * #
US-PATENT-CLASS-264-334 ..... c 37 N76-31524 * #
US-PATENT-CLASS-264-33 ..... c 44 N79-24432 * #
US-PATENT-CLASS-264-342R .... c 37 N82-24491 * #
US-PATENT-CLASS-264-345 ..... c 71 N78-10837 * #
US-PATENT-CLASS-264-34 ..... c 44 N79-24432 * #
US-PATENT-CLASS-264-35 ..... c 44 N79-24432 * #
US-PATENT-CLASS-264-36 ..... c 15 N73-12489 * #
US-PATENT-CLASS-264-36 ..... c 32 N74-27612 * #
US-PATENT-CLASS-264-3 ..... c 28 N71-26779 *
US-PATENT-CLASS-264-40.4 ..... c 35 N80-18357 * #
US-PATENT-CLASS-264-40 ..... c 15 N73-12489 * #
US-PATENT-CLASS-264-41 ..... c 25 N81-19244 * #
US-PATENT-CLASS-264-41 ..... c 51 N84-28361 * #
US-PATENT-CLASS-264-453 ..... c 25 N82-21268 * #
US-PATENT-CLASS-264-510 ..... c 44 N79-24432 * #
US-PATENT-CLASS-264-516 ..... c 44 N79-24432 * #
US-PATENT-CLASS-264-53 ..... c 25 N82-21268 * #
US-PATENT-CLASS-264-59 ..... c 24 N84-16262 * #
US-PATENT-CLASS-264-5 ..... c 31 N81-33319 * #
US-PATENT-CLASS-264-5 ..... c 27 N82-28442 * #
US-PATENT-CLASS-264-5 ..... c 31 N83-31896 * #
US-PATENT-CLASS-264-5 ..... c 31 N83-35176 * #
US-PATENT-CLASS-264-60 ..... c 27 N76-22376 * #
US-PATENT-CLASS-264-60 ..... c 27 N79-14213 * #
US-PATENT-CLASS-264-60 ..... c 24 N84-16262 * #
US-PATENT-CLASS-264-63 ..... c 27 N76-22376 * #
US-PATENT-CLASS-264-65 ..... c 18 N73-14584 * #
US-PATENT-CLASS-264-66 ..... c 27 N76-22376 * #
US-PATENT-CLASS-264-70 ..... c 44 N79-24432 * #
US-PATENT-CLASS-264-71 ..... c 44 N79-24432 * #
US-PATENT-CLASS-264-90 ..... c 24 N78-17150 * #
US-PATENT-CLASS-264-92 ..... c 15 N71-17803 *
US-PATENT-CLASS-264-92 ..... c 15 N72-24522 * #
US-PATENT-CLASS-264-9 ..... c 31 N81-33319 * #
US-PATENT-CLASS-264-9 ..... c 31 N83-31896 * #
US-PATENT-CLASS-266-119 ..... c 26 N80-28492 * #
US-PATENT-CLASS-266-19 ..... c 15 N70-33382 *
US-PATENT-CLASS-266-249 ..... c 26 N80-28492 * #
US-PATENT-CLASS-266-24 ..... c 17 N72-28535 * #
US-PATENT-CLASS-266-274 ..... c 26 N80-28492 * #
US-PATENT-CLASS-267-150 ..... c 37 N85-34401 * #
US-PATENT-CLASS-267-166 ..... c 34 N74-18552 * #
US-PATENT-CLASS-267-1 ..... c 15 N69-27504 * #
US-PATENT-CLASS-267-1 ..... c 15 N70-38225 * #
US-PATENT-CLASS-267-64 ..... c 15 N71-21530 *
US-PATENT-CLASS-267-8R ..... c 37 N85-34401 * #
US-PATENT-CLASS-269-152 ..... c 18 N83-29303 * #
US-PATENT-CLASS-269-153 ..... c 44 N79-19447 * #
US-PATENT-CLASS-269-156 ..... c 37 N80-14398 * #
US-PATENT-CLASS-269-21 ..... c 37 N76-21554 * #
US-PATENT-CLASS-269-21 ..... c 37 N78-17383 * #
US-PATENT-CLASS-269-21 ..... c 37 N78-27423 * #
US-PATENT-CLASS-269-21 ..... c 76 N80-18951 * #
US-PATENT-CLASS-269-21 ..... c 37 N81-33482 * #
US-PATENT-CLASS-269-224 ..... c 37 N84-28083 * #
US-PATENT-CLASS-269-242 ..... c 18 N83-29303 * #
US-PATENT-CLASS-269-242 ..... c 37 N84-28083 * #
US-PATENT-CLASS-269-244 ..... c 18 N83-29303 * #
US-PATENT-CLASS-269-244 ..... c 37 N84-28083 * #
US-PATENT-CLASS-269-252 ..... c 37 N84-28083 * #
US-PATENT-CLASS-269-266 ..... c 37 N78-27423 * #
US-PATENT-CLASS-269-285 ..... c 37 N84-28083 * #
US-PATENT-CLASS-269-287 ..... c 37 N80-23655 * #
US-PATENT-CLASS-269-3 ..... c 37 N84-12491 * #
US-PATENT-CLASS-269-48.1 ..... c 39 N74-13131 * #
US-PATENT-CLASS-27-498 ..... c 15 N73-28515 * #
US-PATENT-CLASS-272-DIG.1 .... c 05 N73-32014 * #
US-PATENT-CLASS-272-DIG.4 .... c 05 N73-32014 * #
US-PATENT-CLASS-272-DIG.5 .... c 05 N73-32014 * #
US-PATENT-CLASS-272-1R ..... c 09 N75-15662 * #
US-PATENT-CLASS-272-57A ..... c 09 N75-15662 * #
US-PATENT-CLASS-272-70 ..... c 05 N71-28619 *
US-PATENT-CLASS-272-73 ..... c 14 N73-27377 * #
US-PATENT-CLASS-272-73 ..... c 05 N73-27941 * #
US-PATENT-CLASS-272-73 ..... c 37 N74-18127 * #
US-PATENT-CLASS-272-79C ..... c 05 N73-32014 * #
US-PATENT-CLASS-272-80 ..... c 37 N74-18127 * #
US-PATENT-CLASS-273-1E ..... c 05 N73-13114 * #
US-PATENT-CLASS-273-240 ..... c 31 N83-34073 * #
US-PATENT-CLASS-274-4R ..... c 09 N72-11224 *
US-PATENT-CLASS-277-105 ..... c 37 N82-24490 * #
US-PATENT-CLASS-277-116.6 ... c 37 N84-11497 * #
US-PATENT-CLASS-277-124 ..... c 37 N84-11497 * #
US-PATENT-CLASS-277-134 ..... c 37 N75-21631 * #
US-PATENT-CLASS-277-134 ..... c 07 N78-25090 * #
US-PATENT-CLASS-277-135 ..... c 37 N85-29284 * #
US-PATENT-CLASS-277-13 ..... c 15 N71-26294 *
US-PATENT-CLASS-277-153 ..... c 37 N80-28711 * #
US-PATENT-CLASS-277-153 ..... c 37 N81-26447 * #
US-PATENT-CLASS-277-164 ..... c 37 N84-11497 * #
US-PATENT-CLASS-277-177 ..... c 37 N84-11497 * #
US-PATENT-CLASS-277-181 ..... c 37 N81-15363 * #
US-PATENT-CLASS-277-189 ..... c 37 N82-16408 * #
US-PATENT-CLASS-277-190 ..... c 37 N84-11497 * #
US-PATENT-CLASS-277-192 ..... c 37 N79-22474 * #
US-PATENT-CLASS-277-193 ..... c 37 N80-28711 * #
US-PATENT-CLASS-277-193 ..... c 37 N81-26447 * #
US-PATENT-CLASS-277-1 ..... c 37 N82-24490 * #
US-PATENT-CLASS-277-204 ..... c 37 N82-24490 * #
US-PATENT-CLASS-277-224 ..... c 37 N80-28711 * #
US-PATENT-CLASS-277-229 ..... c 37 N81-15363 * #
US-PATENT-CLASS-277-25 ..... c 15 N69-21362 * #
US-PATENT-CLASS-277-25 ..... c 15 N71-19570 *
US-PATENT-CLASS-277-25 ..... c 15 N72-29488 * #
US-PATENT-CLASS-277-25 ..... c 37 N74-10474 * #
US-PATENT-CLASS-277-25 ..... c 07 N78-25090 * #
US-PATENT-CLASS-277-27 ..... c 15 N72-29488 * #
US-PATENT-CLASS-277-27 ..... c 37 N74-10474 * #
US-PATENT-CLASS-277-27 ..... c 37 N74-15125 * #
US-PATENT-CLASS-277-27 ..... c 37 N75-21631 * #
US-PATENT-CLASS-277-27 ..... c 37 N82-12442 * #
US-PATENT-CLASS-277-2 ..... c 37 N82-24490 * #
US-PATENT-CLASS-277-40 ..... c 37 N75-21631 * #
US-PATENT-CLASS-277-40 ..... c 37 N82-12442 * #
US-PATENT-CLASS-277-41 ..... c 37 N76-22541 * #
US-PATENT-CLASS-277-4 ..... c 37 N76-22541 * #
US-PATENT-CLASS-277-4 ..... c 37 N82-24490 * #
US-PATENT-CLASS-277-53 ..... c 37 N86-20788 * #
US-PATENT-CLASS-277-59 ..... c 37 N82-24490 * #
US-PATENT-CLASS-277-62 ..... c 37 N79-22475 * #
US-PATENT-CLASS-277-72R ..... c 37 N82-24490 * #
US-PATENT-CLASS-277-74 ..... c 15 N72-29488 * #
US-PATENT-CLASS-277-74 ..... c 37 N76-22541 * #
US-PATENT-CLASS-277-80 ..... c 37 N85-29284 * #
US-PATENT-CLASS-277-81R ..... c 37 N82-16408 * #
US-PATENT-CLASS-277-91 ..... c 37 N74-15125 * #
US-PATENT-CLASS-277-93R ..... c 37 N76-22541 * #
US-PATENT-CLASS-277-93R ..... c 37 N82-12442 * #
US-PATENT-CLASS-277-96.1 ..... c 37 N79-22475 * #
US-PATENT-CLASS-277-96 ..... c 37 N74-10474 * #
US-PATENT-CLASS-277-96 ..... c 37 N81-24442 * #
US-PATENT-CLASS-279-1B ..... c 37 N75-33395 * #
US-PATENT-CLASS-279-107 ..... c 37 N75-33395 * #
US-PATENT-CLASS-279-3 ..... c 37 N78-17383 * #
US-PATENT-CLASS-279-89 ..... c 37 N75-33395 * #
US-PATENT-CLASS-280-150SB .. c 05 N75-25915 * #
US-PATENT-CLASS-280-432 ..... c 37 N77-14477 * #
US-PATENT-CLASS-280-805 ..... c 37 N82-18601 * #
US-PATENT-CLASS-285-DIG.21 . c 15 N72-25450 * #
US-PATENT-CLASS-285-DIG.21 . c 33 N73-26958 * #
US-PATENT-CLASS-285-114 ..... c 37 N75-19686 * #
US-PATENT-CLASS-285-159 ..... c 37 N82-24494 * #
US-PATENT-CLASS-285-18 ..... c 15 N72-20445 * #

US-PATENT-CLASS-285-192 ..... c 20 N78-24275 * #
US-PATENT-CLASS-285-226 ..... c 37 N75-19686 * #
US-PATENT-CLASS-285-226 ..... c 37 N76-14460 * #
US-PATENT-CLASS-285-235 ..... c 54 N78-31735 * #
US-PATENT-CLASS-285-235 ..... c 54 N79-24651 * #
US-PATENT-CLASS-285-24 ..... c 15 N71-10782 * #
US-PATENT-CLASS-285-265 ..... c 37 N76-14460 * #
US-PATENT-CLASS-285-27 ..... c 15 N70-41808 * #
US-PATENT-CLASS-285-314 ..... c 15 N71-24903 *
US-PATENT-CLASS-285-316 ..... c 15 N72-25450 * #
US-PATENT-CLASS-285-316 ..... c 33 N73-26958 * #
US-PATENT-CLASS-285-317 ..... c 15 N71-24903 *
US-PATENT-CLASS-285-326 ..... c 37 N79-11402 * #
US-PATENT-CLASS-285-331 ..... c 15 N70-41629 * #
US-PATENT-CLASS-285-33 ..... c 15 N72-25450 * #
US-PATENT-CLASS-285-345 ..... c 15 N72-20445 * #
US-PATENT-CLASS-285-359 ..... c 37 N79-11402 * #
US-PATENT-CLASS-285-37 ..... c 37 N82-24490 * #
US-PATENT-CLASS-285-38 ..... c 15 N71-24903 *
US-PATENT-CLASS-285-3 ..... c 15 N69-27490 * #
US-PATENT-CLASS-285-3 ..... c 15 N72-25450 * #
US-PATENT-CLASS-285-401 ..... c 37 N82-24494 * #
US-PATENT-CLASS-285-406 ..... c 15 N71-24903 *
US-PATENT-CLASS-285-410 ..... c 05 N72-11085 *
US-PATENT-CLASS-285-45 ..... c 15 N71-28937 *
US-PATENT-CLASS-285-89 ..... c 37 N82-24494 * #
US-PATENT-CLASS-287-119 ..... c 15 N70-41829 * #
US-PATENT-CLASS-287-189.365 . c 15 N71-26312 *
US-PATENT-CLASS-287-189.36 .. c 15 N71-10799 * #
US-PATENT-CLASS-287-54A ..... c 11 N72-25287 * #
US-PATENT-CLASS-287-85R ..... c 15 N73-12488 * #
US-PATENT-CLASS-287-92 ..... c 31 N73-32749 * #
US-PATENT-CLASS-29-DIG.1 ..... c 44 N81-14389 * #
US-PATENT-CLASS-29-DIG.24 .... c 24 N75-33181 * #
US-PATENT-CLASS-29-DIG.35 .... c 37 N77-23482 * #
US-PATENT-CLASS-29-DIG.39 .... c 24 N75-33181 * #
US-PATENT-CLASS-29-125 ..... c 37 N79-10422 * #
US-PATENT-CLASS-29-148.4A ... c 37 N74-15128 * #
US-PATENT-CLASS-29-148.4B ... c 37 N74-15128 * #
US-PATENT-CLASS-29-148.4 ..... c 15 N71-16052 *
US-PATENT-CLASS-29-148.4 ..... c 15 N71-17688 *
US-PATENT-CLASS-29-155.55 .... c 15 N71-15986 *
US-PATENT-CLASS-29-156.8R ... c 37 N78-24544 * #
US-PATENT-CLASS-29-157.3H ... c 74 N83-19596 * #
US-PATENT-CLASS-29-157.3R ... c 34 N74-18552 * #
US-PATENT-CLASS-29-157.3 ..... c 28 N70-41818 * #
US-PATENT-CLASS-29-157 ..... c 28 N71-15658 *
US-PATENT-CLASS-29-182.1 ..... c 18 N71-23710 *
US-PATENT-CLASS-29-182.2 ..... c 17 N71-23046 *
US-PATENT-CLASS-29-182.2 ..... c 37 N75-26371 * #
US-PATENT-CLASS-29-182.5 ..... c 17 N72-28536 * #
US-PATENT-CLASS-29-182.5 ..... c 37 N75-26371 * #
US-PATENT-CLASS-29-182.5 ..... c 27 N76-15311 * #
US-PATENT-CLASS-29-182.5 ..... c 27 N77-13217 * #
US-PATENT-CLASS-29-182 ..... c 37 N74-13179 * #
US-PATENT-CLASS-29-182 ..... c 34 N76-27515 * #
US-PATENT-CLASS-29-183.5 ..... c 17 N70-38490 * #
US-PATENT-CLASS-29-193 ..... c 34 N76-27515 * #
US-PATENT-CLASS-29-194 ..... c 26 N75-19408 * #
US-PATENT-CLASS-29-194 ..... c 44 N76-14595 * #
US-PATENT-CLASS-29-195A ..... c 27 N76-16229 * #
US-PATENT-CLASS-29-195Y ..... c 14 N73-32320 * #
US-PATENT-CLASS-29-195 ..... c 44 N76-14595 * #
US-PATENT-CLASS-29-196.2 ..... c 17 N73-32414 * #
US-PATENT-CLASS-29-196.2 ..... c 26 N75-19408 * #
US-PATENT-CLASS-29-196.6 ..... c 17 N73-32414 * #
US-PATENT-CLASS-29-196.6 ..... c 37 N75-13261 * #
US-PATENT-CLASS-29-196.6 ..... c 26 N75-19408 * #
US-PATENT-CLASS-29-197 ..... c 17 N73-32414 * #
US-PATENT-CLASS-29-197 ..... c 37 N75-13261 * #
US-PATENT-CLASS-29-197 ..... c 26 N75-19408 * #
US-PATENT-CLASS-29-197 ..... c 44 N76-14595 * #
US-PATENT-CLASS-29-198 ..... c 17 N70-33288 *
US-PATENT-CLASS-29-198 ..... c 09 N72-25259 * #
US-PATENT-CLASS-29-203H ..... c 37 N74-32918 * #
US-PATENT-CLASS-29-203MW .. c 33 N74-26977 * #
US-PATENT-CLASS-29-203V ..... c 15 N73-14468 * #
US-PATENT-CLASS-29-23.5 ..... c 37 N78-24544 * #
US-PATENT-CLASS-29-234 ..... c 15 N70-36901 * #
US-PATENT-CLASS-29-244 ..... c 37 N78-24544 * #
US-PATENT-CLASS-29-25.14 ..... c 05 N72-25121 * #
US-PATENT-CLASS-29-25.14 ..... c 35 N82-24471 * #
US-PATENT-CLASS-29-25.18 ..... c 09 N71-26678 *
US-PATENT-CLASS-29-25.18 ..... c 05 N72-25121 * #
US-PATENT-CLASS-29-25.18 ..... c 20 N75-18310 * #
US-PATENT-CLASS-29-25.18 ..... c 20 N76-21276 * #
US-PATENT-CLASS-29-25.35 ..... c 35 N80-20559 * #
US-PATENT-CLASS-29-25.42 ..... c 26 N72-28762 * #
US-PATENT-CLASS-29-252 ..... c 37 N78-24544 * #
US-PATENT-CLASS-29-26A ..... c 37 N75-33395 * #
US-PATENT-CLASS-29-267 ..... c 60 N82-24839 * #
US-PATENT-CLASS-29-268 ..... c 37 N74-32918 * #
US-PATENT-CLASS-29-271 ..... c 15 N70-41371 * #
US-PATENT-CLASS-29-278R ..... c 15 N71-29133 *
US-PATENT-CLASS-29-400 ..... c 05 N71-12345 * #
US-PATENT-CLASS-29-412 ..... c 15 N72-20444 * #
US-PATENT-CLASS-29-419 ..... c 24 N75-28135 * #
US-PATENT-CLASS-29-420.5 ..... c 26 N74-10521 * #
US-PATENT-CLASS-29-420.5 ..... c 37 N74-13179 * #
US-PATENT-CLASS-29-420.5 ..... c 37 N75-26371 * #
US-PATENT-CLASS-29-420 ..... c 24 N75-13032 * #
US-PATENT-CLASS-29-421E ..... c 37 N79-13364 * #
US-PATENT-CLASS-29-421 ..... c 15 N71-29018 *
US-PATENT-CLASS-29-421 ..... c 14 N72-22439 * #
US-PATENT-CLASS-29-421 ..... c 37 N76-14461 * #
US-PATENT-CLASS-29-423 ..... c 15 N70-36409 * #
US-PATENT-CLASS-29-423 ..... c 31 N74-21059 * #
US-PATENT-CLASS-29-423 ..... c 52 N84-28389 * #
US-PATENT-CLASS-29-426 ..... c 15 N72-20444 * #
US-PATENT-CLASS-29-428 ..... c 15 N71-17686 *
US-PATENT-CLASS-29-432 ..... c 37 N76-19437 * #
US-PATENT-CLASS-29-433 ..... c 37 N76-19437 * #
US-PATENT-CLASS-29-446 ..... c 37 N83-36482 * #
US-PATENT-CLASS-29-447 ..... c 37 N77-23482 * #
US-PATENT-CLASS-29-451 ..... c 52 N84-28389 * #
US-PATENT-CLASS-29-452 ..... c 15 N73-30457 * #
US-PATENT-CLASS-29-458 ..... c 26 N83-10170 * #
US-PATENT-CLASS-29-460 ..... c 37 N74-11301 * #
US-PATENT-CLASS-29-460 ..... c 37 N75-13261 * #
US-PATENT-CLASS-29-463 ..... c 07 N78-33101 * #
US-PATENT-CLASS-29-467 ..... c 39 N76-31562 * #
US-PATENT-CLASS-29-470.1 ..... c 37 N74-21057 * #
US-PATENT-CLASS-29-470.1 ..... c 37 N75-12326 * #
US-PATENT-CLASS-29-472.7 ..... c 37 N75-15992 * #
US-PATENT-CLASS-29-472.9 ..... c 15 N69-39786 * #
US-PATENT-CLASS-29-472.9 ..... c 26 N71-16037 *
US-PATENT-CLASS-29-472.9 ..... c 15 N72-22492 * #
US-PATENT-CLASS-29-473.1 ..... c 15 N72-22487 * #
US-PATENT-CLASS-29-473.1 ..... c 15 N72-22492 * #
US-PATENT-CLASS-29-473.1 ..... c 37 N75-15992 * #
US-PATENT-CLASS-29-475 ..... c 37 N75-12326 * #
US-PATENT-CLASS-29-482 ..... c 05 N72-25121 * #
US-PATENT-CLASS-29-482 ..... c 37 N74-18128 * #
US-PATENT-CLASS-29-487 ..... c 15 N73-33383 * #
US-PATENT-CLASS-29-487 ..... c 37 N74-21055 * #
US-PATENT-CLASS-29-488 ..... c 15 N70-33311 *
US-PATENT-CLASS-29-488 ..... c 37 N74-18128 * #
US-PATENT-CLASS-29-492 ..... c 15 N71-20443 *
US-PATENT-CLASS-29-492 ..... c 09 N72-25261 * #
US-PATENT-CLASS-29-494 ..... c 15 N73-33383 * #
US-PATENT-CLASS-29-494 ..... c 37 N74-21055 * #
US-PATENT-CLASS-29-494 ..... c 37 N75-13261 * #
US-PATENT-CLASS-29-495 ..... c 15 N71-21078 *
US-PATENT-CLASS-29-497.5 ..... c 15 N73-28515 * #
US-PATENT-CLASS-29-497.5 ..... c 15 N73-33383 * #
US-PATENT-CLASS-29-497.5 ..... c 37 N74-11300 * #
US-PATENT-CLASS-29-497.5 ..... c 37 N75-13261 * #
US-PATENT-CLASS-29-497 ..... c 09 N72-25261 * #
US-PATENT-CLASS-29-497 ..... c 15 N73-32358 * #
US-PATENT-CLASS-29-497 ..... c 37 N74-18128 * #
US-PATENT-CLASS-29-498 ..... c 09 N72-25261 * #
US-PATENT-CLASS-29-498 ..... c 15 N73-33383 * #
US-PATENT-CLASS-29-498 ..... c 37 N74-11301 * #
US-PATENT-CLASS-29-498 ..... c 37 N74-18128 * #
US-PATENT-CLASS-29-498 ..... c 37 N74-21055 * #
US-PATENT-CLASS-29-502 ..... c 09 N72-25261 * #
US-PATENT-CLASS-29-503 ..... c 37 N74-11301 * #
US-PATENT-CLASS-29-504 ..... c 37 N74-21055 * #
US-PATENT-CLASS-29-504 ..... c 37 N75-13261 * #
US-PATENT-CLASS-29-517 ..... c 15 N71-17650 *
US-PATENT-CLASS-29-521 ..... c 26 N83-10170 * #
US-PATENT-CLASS-29-526 ..... c 37 N76-19437 * #
US-PATENT-CLASS-29-526 ..... c 39 N76-31562 * #
US-PATENT-CLASS-29-527.2 ..... c 15 N72-20444 * #
US-PATENT-CLASS-29-527.2 ..... c 15 N73-32360 * #
US-PATENT-CLASS-29-527.2 ..... c 37 N74-11301 * #
US-PATENT-CLASS-29-527.2 ..... c 24 N75-33181 * #
US-PATENT-CLASS-29-527.2 ..... c 24 N77-19171 * #
US-PATENT-CLASS-29-57-4 ..... c 44 N79-24431 * #
US-PATENT-CLASS-29-570 ..... c 26 N72-28761 * #
US-PATENT-CLASS-29-571 ..... c 35 N75-13213 * #
US-PATENT-CLASS-29-571 ..... c 33 N78-27326 * #
US-PATENT-CLASS-29-571 ..... c 33 N81-26360 * #
US-PATENT-CLASS-29-572 ..... c 09 N71-23027 *
US-PATENT-CLASS-29-572 ..... c 03 N71-24681 *
US-PATENT-CLASS-29-572 ..... c 03 N72-22041 * #
US-PATENT-CLASS-29-572 ..... c 44 N74-14784 * #
US-PATENT-CLASS-29-572 ..... c 44 N76-14600 * #
US-PATENT-CLASS-29-572 ..... c 44 N76-28635 * #
US-PATENT-CLASS-29-572 ..... c 44 N77-10635 * #
US-PATENT-CLASS-29-572 ..... c 44 N78-24609 * #
US-PATENT-CLASS-29-572 ..... c 44 N78-25527 * #
US-PATENT-CLASS-29-572 ..... c 44 N78-25528 * #
US-PATENT-CLASS-29-572 ..... c 44 N78-25529 * #
US-PATENT-CLASS-29-572 ..... c 44 N79-11468 * #
US-PATENT-CLASS-29-572 ..... c 44 N79-11472 * #
US-PATENT-CLASS-29-572 ..... c 44 N79-17314 * #
US-PATENT-CLASS-29-572 ..... c 44 N79-18444 * #
US-PATENT-CLASS-29-572 ..... c 44 N79-24431 * #
US-PATENT-CLASS-29-572 ..... c 44 N79-26475 * #
US-PATENT-CLASS-29-572 ..... c 44 N79-31752 * #
US-PATENT-CLASS-29-572 ..... c 44 N80-14474 * #
US-PATENT-CLASS-29-572 ..... c 44 N82-28780 * #
US-PATENT-CLASS-29-572 ..... c 44 N82-29709 * #
US-PATENT-CLASS-29-572 ..... c 44 N83-13579 * #
US-PATENT-CLASS-29-572 ..... c 76 N86-20150 * #
US-PATENT-CLASS-29-573 ..... c 14 N73-13417 * #
US-PATENT-CLASS-29-576E ..... c 76 N85-30922 * #
US-PATENT-CLASS-29-576J ..... c 35 N82-31659 * #
US-PATENT-CLASS-29-576J ..... c 76 N85-30922 * #
US-PATENT-CLASS-29-576S ..... c 35 N82-31659 * #
US-PATENT-CLASS-29-576W ..... c 76 N85-30922 * #
US-PATENT-CLASS-29-577 ..... c 44 N79-26475 * #
US-PATENT-CLASS-29-578 ..... c 26 N72-17820 * #
US-PATENT-CLASS-29-578 ..... c 33 N78-27326 * #
US-PATENT-CLASS-29-578 ..... c 44 N79-18444 * #
US-PATENT-CLASS-29-578 ..... c 44 N79-26475 * #
US-PATENT-CLASS-29-578 ..... c 33 N81-26360 * #
US-PATENT-CLASS-29-578 ..... c 76 N85-30922 * #
US-PATENT-CLASS-29-580 ..... c 09 N73-27150 * #
US-PATENT-CLASS-29-580 ..... c 44 N79-26475 * #
US-PATENT-CLASS-29-580 ..... c 33 N81-26360 * #
US-PATENT-CLASS-29-588 ..... c 14 N71-27334 *
US-PATENT-CLASS-29-588 ..... c 14 N72-31446 * #
US-PATENT-CLASS-29-588 ..... c 44 N74-14784 * #
US-PATENT-CLASS-29-588 ..... c 44 N80-14474 * #
US-PATENT-CLASS-29-589 ..... c 26 N72-17820 * #
US-PATENT-CLASS-29-589 ..... c 09 N72-25261 * #
US-PATENT-CLASS-29-589 ..... c 15 N73-14469 * #
US-PATENT-CLASS-29-589 ..... c 44 N79-31752 * #
US-PATENT-CLASS-29-590 ..... c 09 N72-22199 * #
US-PATENT-CLASS-29-591 ..... c 15 N73-14469 * #
US-PATENT-CLASS-29-591 ..... c 44 N79-18444 * #
US-PATENT-CLASS-29-592 ..... c 35 N75-13213 * #
US-PATENT-CLASS-29-597 ..... c 33 N77-26385 * #
US-PATENT-CLASS-29-599 ..... c 15 N72-25447 * #
US-PATENT-CLASS-29-599 ..... c 26 N73-26752 * #
US-PATENT-CLASS-29-599 ..... c 26 N73-32571 * #
US-PATENT-CLASS-29-603 ..... c 08 N71-27210 *
US-PATENT-CLASS-29-604 ..... c 24 N75-13032 * #
US-PATENT-CLASS-29-610SG .... c 35 N85-21598 * #
US-PATENT-CLASS-29-610 ..... c 24 N75-30260 * #
US-PATENT-CLASS-29-613 ..... c 24 N75-30260 * #
US-PATENT-CLASS-29-613 ..... c 35 N82-24470 * #
US-PATENT-CLASS-29-620 ..... c 35 N82-31659 * #
US-PATENT-CLASS-29-622 ..... c 33 N77-26385 * #
US-PATENT-CLASS-29-623.5 ..... c 44 N83-32176 * #
US-PATENT-CLASS-29-623.5 ..... c 26 N84-22734 * #
US-PATENT-CLASS-29-623.5 ..... c 44 N84-28205 * #
US-PATENT-CLASS-29-624 ..... c 15 N72-20444 * #
US-PATENT-CLASS-29-624 ..... c 14 N73-13417 * #
US-PATENT-CLASS-29-627 ..... c 44 N80-14474 * #
US-PATENT-CLASS-29-628 ..... c 15 N72-22491 * #
US-PATENT-CLASS-29-628 ..... c 09 N72-25261 * #
US-PATENT-CLASS-29-628 ..... c 09 N73-28083 * #
US-PATENT-CLASS-29-628 ..... c 33 N77-26385 * #
US-PATENT-CLASS-29-628 ..... c 44 N78-25528 * #
US-PATENT-CLASS-29-629 ..... c 09 N73-28083 * #
US-PATENT-CLASS-29-630A ..... c 05 N72-25121 * #
US-PATENT-CLASS-29-630A ..... c 09 N73-28083 * #
US-PATENT-CLASS-29-630E ..... c 33 N77-26385 * #
US-PATENT-CLASS-29-630 ..... c 09 N73-28083 * #
US-PATENT-CLASS-29-739 ..... c 44 N79-24431 * #
US-PATENT-CLASS-29-764 ..... c 60 N82-24839 * #
US-PATENT-CLASS-29-809 ..... c 44 N79-24431 * #
US-PATENT-CLASS-29-81C ..... c 75 N78-27913 * #
US-PATENT-CLASS-29-81D ..... c 37 N76-18454 * #
US-PATENT-CLASS-29-825 ..... c 44 N84-28205 * #
US-PATENT-CLASS-29-832 ..... c 44 N81-14389 * #
US-PATENT-CLASS-290-1R ..... c 44 N85-21769 * #
US-PATENT-CLASS-290-4R ..... c 44 N85-21769 * #
US-PATENT-CLASS-290-40 ..... c 03 N71-11057 * #
US-PATENT-CLASS-290-52 ..... c 37 N77-32500 * #
US-PATENT-CLASS-290-52 ..... c 37 N77-32501 * #
US-PATENT-CLASS-290-53 ..... c 44 N80-29834 * #
US-PATENT-CLASS-290-55 ..... c 44 N84-23018 * #
US-PATENT-CLASS-292-DIG.14 . c 37 N75-19685 * #
US-PATENT-CLASS-292-108 ..... c 37 N75-19685 * #
US-PATENT-CLASS-292-110 ..... c 37 N77-32499 * #
US-PATENT-CLASS-292-122 ..... c 37 N75-19685 * #
US-PATENT-CLASS-292-252 ..... c 37 N85-21649 * #
US-PATENT-CLASS-294-1R ..... c 35 N76-16392 * #
US-PATENT-CLASS-294-106 ..... c 37 N81-14320 * #
US-PATENT-CLASS-294-113 ..... c 37 N80-14398 * #
US-PATENT-CLASS-294-116 ..... c 37 N75-33395 * #
US-PATENT-CLASS-294-116 ..... c 37 N82-32731 * #
US-PATENT-CLASS-294-15 ..... c 15 N71-29133 *
US-PATENT-CLASS-294-19R ..... c 35 N76-16392 * #
US-PATENT-CLASS-294-83 ..... c 15 N71-24897 *
US-PATENT-CLASS-294-86.33 .... c 37 N75-33395 * #
US-PATENT-CLASS-294-86R ..... c 37 N80-14398 * #
US-PATENT-CLASS-294-86R ..... c 37 N81-27519 * #
US-PATENT-CLASS-294-86R ..... c 18 N83-29303 * #
US-PATENT-CLASS-294-93 ..... c 54 N81-26718 * #
US-PATENT-CLASS-296-1S ..... c 85 N82-33288 * #
US-PATENT-CLASS-296-24C ..... c 85 N82-33288 * #
US-PATENT-CLASS-296-91 ..... c 85 N82-33288 * #
US-PATENT-CLASS-297-DIG.5 .... c 03 N84-33394 * #

US-PATENT-CLASS-297-216 ..... c 05 N70-35152 * #
US-PATENT-CLASS-297-232 ..... c 05 N72-11085 *
US-PATENT-CLASS-297-385 ..... c 05 N71-12341 * #
US-PATENT-CLASS-297-385 ..... c 05 N75-25915 * #
US-PATENT-CLASS-297-386 ..... c 15 N73-30460 * #
US-PATENT-CLASS-297-388 ..... c 05 N75-25915 * #
US-PATENT-CLASS-297-389 ..... c 05 N75-25915 * #
US-PATENT-CLASS-297-68 ..... c 05 N71-12343 * #
US-PATENT-CLASS-297-68 ..... c 05 N72-11085 *
US-PATENT-CLASS-299-13 ..... c 43 N81-26509 * #
US-PATENT-CLASS-299-17 ..... c 43 N81-26509 * #
US-PATENT-CLASS-299-1 ..... c 43 N79-26439 * #
US-PATENT-CLASS-299-1 ..... c 35 N84-33768 * #
US-PATENT-CLASS-299-20 ..... c 43 N81-26509 * #
US-PATENT-CLASS-299-67 ..... c 46 N74-23068 * #
US-PATENT-CLASS-299-86 ..... c 46 N74-23069 * #
US-PATENT-CLASS-3-1.1 ..... c 05 N73-32013 * #
US-PATENT-CLASS-3-1.1 ..... c 52 N77-14738 * #
US-PATENT-CLASS-3-1.1 ..... c 54 N79-24652 * #
US-PATENT-CLASS-3-1.1 ..... c 74 N84-11921 * #
US-PATENT-CLASS-3-1.2 ..... c 52 N77-14735 * #
US-PATENT-CLASS-3-1.2 ..... c 52 N78-10686 * #
US-PATENT-CLASS-3-1.9 ..... c 27 N78-17215 * #
US-PATENT-CLASS-3-1.9 ..... c 52 N79-26772 * #
US-PATENT-CLASS-3-12.5 ..... c 54 N78-17676 * #
US-PATENT-CLASS-3-12.5 ..... c 54 N79-24652 * #
US-PATENT-CLASS-3-12 ..... c 05 N73-32013 * #
US-PATENT-CLASS-3-12 ..... c 52 N79-26772 * #
US-PATENT-CLASS-3-14 ..... c 52 N77-14735 * #
US-PATENT-CLASS-3-15 ..... c 52 N78-10686 * #
US-PATENT-CLASS-3-1 ..... c 52 N77-25772 * #
US-PATENT-CLASS-3-21 ..... c 54 N77-30749 * #
US-PATENT-CLASS-3-29 ..... c 52 N78-10686 * #
US-PATENT-CLASS-3-2 ..... c 05 N73-32013 * #
US-PATENT-CLASS-3-2 ..... c 54 N77-30749 * #
US-PATENT-CLASS-3-2 ..... c 52 N79-26772 * #
US-PATENT-CLASS-3-6 ..... c 05 N73-32013 * #
US-PATENT-CLASS-30-102 ..... c 37 N82-26672 * #
US-PATENT-CLASS-30-180 ..... c 37 N84-28085 * #
US-PATENT-CLASS-30-188 ..... c 37 N84-28085 * #
US-PATENT-CLASS-30-228 ..... c 15 N70-42017 * #
US-PATENT-CLASS-30-228 ..... c 37 N84-28085 * #
US-PATENT-CLASS-30-249 ..... c 37 N84-28085 * #
US-PATENT-CLASS-30-272R ..... c 37 N84-28085 * #
US-PATENT-CLASS-30-90.6 ..... c 37 N79-10419 * #
US-PATENT-CLASS-301-5P ..... c 37 N74-18125 * #
US-PATENT-CLASS-301-82 ..... c 33 N79-10339 * #
US-PATENT-CLASS-302-66 ..... c 25 N79-11152 * #
US-PATENT-CLASS-303-92 ..... c 44 N79-14527 * #
US-PATENT-CLASS-305-35EB .... c 11 N73-26238 * #
US-PATENT-CLASS-305-39 ..... c 11 N73-26238 * #
US-PATENT-CLASS-307-103 ..... c 09 N72-25262 * #
US-PATENT-CLASS-307-104 ..... c 09 N71-24892 *
US-PATENT-CLASS-307-106 ..... c 09 N69-21468 * #
US-PATENT-CLASS-307-118 ..... c 09 N72-27227 * #
US-PATENT-CLASS-307-119 ..... c 33 N79-28415 * #
US-PATENT-CLASS-307-126 ..... c 14 N71-27407 *
US-PATENT-CLASS-307-127 ..... c 33 N74-14956 * #
US-PATENT-CLASS-307-136 ..... c 09 N69-27500 * #
US-PATENT-CLASS-307-141.8 .... c 03 N72-25020 * #
US-PATENT-CLASS-307-149 ..... c 09 N71-13486 * #
US-PATENT-CLASS-307-149 ..... c 54 N75-12616 * #
US-PATENT-CLASS-307-151 ..... c 32 N78-24391 * #
US-PATENT-CLASS-307-157 ..... c 16 N73-32391 * #
US-PATENT-CLASS-307-18 ..... c 03 N73-31988 * #
US-PATENT-CLASS-307-18 ..... c 33 N74-34638 * #
US-PATENT-CLASS-307-204 ..... c 35 N75-30504 * #
US-PATENT-CLASS-307-205 ..... c 33 N75-14957 * #
US-PATENT-CLASS-307-206 ..... c 10 N72-22236 * #
US-PATENT-CLASS-307-207 ..... c 08 N71-29034 *
US-PATENT-CLASS-307-207 ..... c 09 N73-13209 * #
US-PATENT-CLASS-307-208 ..... c 33 N75-14957 * #
US-PATENT-CLASS-307-211 ..... c 35 N75-30504 * #
US-PATENT-CLASS-307-215 ..... c 10 N71-28860 *
US-PATENT-CLASS-307-215 ..... c 09 N71-29139 *
US-PATENT-CLASS-307-215 ..... c 10 N72-22236 * #
US-PATENT-CLASS-307-215 ..... c 09 N73-13209 * #
US-PATENT-CLASS-307-215 ..... c 33 N74-22814 * #
US-PATENT-CLASS-307-216 ..... c 08 N71-18751 * #
US-PATENT-CLASS-307-219 ..... c 35 N75-30504 * #
US-PATENT-CLASS-307-219 ..... c 60 N81-15706 * #
US-PATENT-CLASS-307-220 ..... c 10 N73-26229 * #
US-PATENT-CLASS-307-221R .... c 10 N73-20254 * #
US-PATENT-CLASS-307-221R .... c 33 N76-14373 * #
US-PATENT-CLASS-307-222 ..... c 09 N69-27463 * #
US-PATENT-CLASS-307-222 ..... c 08 N71-29034 *
US-PATENT-CLASS-307-223B .... c 09 N72-22201 * #
US-PATENT-CLASS-307-223 ..... c 09 N72-17157 * #
US-PATENT-CLASS-307-225R .... c 33 N74-10223 * #
US-PATENT-CLASS-307-225R .... c 33 N75-31330 * #
US-PATENT-CLASS-307-225R .... c 33 N77-24375 * #
US-PATENT-CLASS-307-225R .... c 60 N81-15706 * #
US-PATENT-CLASS-307-227 ..... c 09 N72-17157 * #
US-PATENT-CLASS-307-227 ..... c 33 N75-19522 * #
US-PATENT-CLASS-307-229 ..... c 09 N71-12520 * #
US-PATENT-CLASS-307-229 ..... c 09 N72-23173 * #
US-PATENT-CLASS-307-229 ..... c 33 N75-18479 * #
US-PATENT-CLASS-307-229 ..... c 33 N77-17354 * #
US-PATENT-CLASS-307-229 ..... c 33 N78-32339 * #
US-PATENT-CLASS-307-230 ..... c 10 N72-16172 * #
US-PATENT-CLASS-307-230 ..... c 09 N72-21245 * #
US-PATENT-CLASS-307-230 ..... c 09 N73-20232 * #
US-PATENT-CLASS-307-230 ..... c 33 N74-32712 * #
US-PATENT-CLASS-307-230 ..... c 33 N77-17354 * #
US-PATENT-CLASS-307-230 ..... c 33 N78-32339 * #
US-PATENT-CLASS-307-231 ..... c 09 N72-22202 * #
US-PATENT-CLASS-307-232 ..... c 33 N77-21314 * #
US-PATENT-CLASS-307-232 ..... c 33 N79-11313 * #
US-PATENT-CLASS-307-233R .... c 32 N79-10262 * #
US-PATENT-CLASS-307-233R .... c 33 N81-17348 * #
US-PATENT-CLASS-307-233 ..... c 09 N72-25257 * #
US-PATENT-CLASS-307-233 ..... c 10 N73-26229 * #
US-PATENT-CLASS-307-233 ..... c 33 N77-13315 * #
US-PATENT-CLASS-307-234 ..... c 10 N71-23315 *
US-PATENT-CLASS-307-234 ..... c 09 N71-27016 *
US-PATENT-CLASS-307-234 ..... c 08 N71-29138 *
US-PATENT-CLASS-307-235R .... c 33 N75-18479 * #
US-PATENT-CLASS-307-235 ..... c 10 N71-19471 *
US-PATENT-CLASS-307-235 ..... c 09 N71-23545 *
US-PATENT-CLASS-307-235 ..... c 10 N71-24862 *
US-PATENT-CLASS-307-237 ..... c 09 N72-22200 * #
US-PATENT-CLASS-307-237 ..... c 32 N74-19788 * #
US-PATENT-CLASS-307-238 ..... c 33 N75-31331 * #
US-PATENT-CLASS-307-238 ..... c 33 N77-21314 * #
US-PATENT-CLASS-307-241 ..... c 09 N72-22201 * #
US-PATENT-CLASS-307-242 ..... c 10 N73-13235 * #
US-PATENT-CLASS-307-243 ..... c 09 N71-12516 * #
US-PATENT-CLASS-307-243 ..... c 08 N72-22162 * #
US-PATENT-CLASS-307-243 ..... c 33 N74-22814 * #
US-PATENT-CLASS-307-246 ..... c 09 N71-27016 *
US-PATENT-CLASS-307-247 ..... c 09 N71-29139 *
US-PATENT-CLASS-307-247 ..... c 09 N72-22202 * #
US-PATENT-CLASS-307-251 ..... c 09 N71-33109 *
US-PATENT-CLASS-307-251 ..... c 08 N72-22162 * #
US-PATENT-CLASS-307-252F ..... c 09 N72-17153 * #
US-PATENT-CLASS-307-252J ..... c 09 N72-17153 * #
US-PATENT-CLASS-307-252J ..... c 09 N72-22201 * #
US-PATENT-CLASS-307-252K .... c 09 N72-22201 * #
US-PATENT-CLASS-307-252L ..... c 33 N74-27682 * #
US-PATENT-CLASS-307-252N .... c 09 N72-23171 * #
US-PATENT-CLASS-307-252Q .... c 33 N74-27682 * #
US-PATENT-CLASS-307-252R .... c 09 N72-23171 * #
US-PATENT-CLASS-307-252UA .. c 33 N81-27395 * #
US-PATENT-CLASS-307-252 ..... c 10 N69-39888 * #
US-PATENT-CLASS-307-252 ..... c 09 N71-12514 * #
US-PATENT-CLASS-307-253 ..... c 10 N71-27126 * #
US-PATENT-CLASS-307-254 ..... c 10 N71-24799 *
US-PATENT-CLASS-307-254 ..... c 09 N72-22200 * #
US-PATENT-CLASS-307-257 ..... c 09 N72-21247 * #
US-PATENT-CLASS-307-259 ..... c 09 N72-21247 * #
US-PATENT-CLASS-307-259 ..... c 09 N72-23171 * #
US-PATENT-CLASS-307-259 ..... c 10 N73-13235 * #
US-PATENT-CLASS-307-260 ..... c 09 N71-23311 *
US-PATENT-CLASS-307-260 ..... c 05 N71-23317 *
US-PATENT-CLASS-307-260 ..... c 33 N75-19515 * #
US-PATENT-CLASS-307-261 ..... c 09 N71-33109 *
US-PATENT-CLASS-307-261 ..... c 09 N72-25251 * #
US-PATENT-CLASS-307-262 ..... c 10 N72-16172 * #
US-PATENT-CLASS-307-262 ..... c 09 N72-22197 * #
US-PATENT-CLASS-307-262 ..... c 09 N72-33204 * #
US-PATENT-CLASS-307-263 ..... c 09 N71-23270 *
US-PATENT-CLASS-307-263 ..... c 09 N71-28926 *
US-PATENT-CLASS-307-264 ..... c 33 N86-20672 * #
US-PATENT-CLASS-307-265 ..... c 09 N69-39987 * #
US-PATENT-CLASS-307-265 ..... c 10 N71-23029 *
US-PATENT-CLASS-307-265 ..... c 09 N71-28468 *
US-PATENT-CLASS-307-265 ..... c 10 N71-28860 *
US-PATENT-CLASS-307-265 ..... c 08 N71-29138 *
US-PATENT-CLASS-307-265 ..... c 09 N71-29139 *
US-PATENT-CLASS-307-265 ..... c 33 N78-18308 * #
US-PATENT-CLASS-307-267 ..... c 09 N71-20447 *
US-PATENT-CLASS-307-267 ..... c 33 N74-32711 * #
US-PATENT-CLASS-307-267 ..... c 33 N75-18479 * #
US-PATENT-CLASS-307-268 ..... c 09 N69-24317 * #
US-PATENT-CLASS-307-269 ..... c 60 N81-15706 * #
US-PATENT-CLASS-307-270 ..... c 33 N78-17294 * #
US-PATENT-CLASS-307-270 ..... c 33 N86-20672 * #
US-PATENT-CLASS-307-271 ..... c 10 N73-32145 * #
US-PATENT-CLASS-307-271 ..... c 33 N85-29145 * #
US-PATENT-CLASS-307-273 ..... c 10 N71-18723 *
US-PATENT-CLASS-307-273 ..... c 09 N71-27016 *
US-PATENT-CLASS-307-273 ..... c 09 N71-28468 *
US-PATENT-CLASS-307-273 ..... c 10 N71-28860 *
US-PATENT-CLASS-307-273 ..... c 09 N71-29139 *
US-PATENT-CLASS-307-273 ..... c 10 N72-20221 * #
US-PATENT-CLASS-307-280 ..... c 33 N77-21314 * #
US-PATENT-CLASS-307-284 ..... c 09 N72-22201 * #
US-PATENT-CLASS-307-288 ..... c 09 N71-23015 *
US-PATENT-CLASS-307-288 ..... c 09 N71-28468 *
US-PATENT-CLASS-307-288 ..... c 10 N72-20221 * #
US-PATENT-CLASS-307-288 ..... c 09 N72-22202 * #
US-PATENT-CLASS-307-289 ..... c 10 N71-19547 *
US-PATENT-CLASS-307-28 ..... c 03 N73-31988 * #
US-PATENT-CLASS-307-290 ..... c 33 N74-22814 * #
US-PATENT-CLASS-307-291 ..... c 60 N81-15706 * #
US-PATENT-CLASS-307-294 ..... c 09 N71-29139 *
US-PATENT-CLASS-307-295 ..... c 10 N72-17171 * #
US-PATENT-CLASS-307-295 ..... c 10 N72-20223 * #
US-PATENT-CLASS-307-295 ..... c 09 N72-21245 * #
US-PATENT-CLASS-307-295 ..... c 09 N72-33204 * #
US-PATENT-CLASS-307-295 ..... c 33 N74-34638 * #
US-PATENT-CLASS-307-295 ..... c 33 N77-13315 * #
US-PATENT-CLASS-307-296 ..... c 08 N71-12494 * #
US-PATENT-CLASS-307-296 ..... c 07 N71-28430 *
US-PATENT-CLASS-307-297 ..... c 33 N78-17294 * #
US-PATENT-CLASS-307-299 ..... c 08 N72-21198 * #
US-PATENT-CLASS-307-299 ..... c 26 N72-21701 * #
US-PATENT-CLASS-307-29 ..... c 03 N73-31988 * #
US-PATENT-CLASS-307-300 ..... c 10 N71-27126 * #
US-PATENT-CLASS-307-303 ..... c 08 N72-21198 * #
US-PATENT-CLASS-307-304 ..... c 09 N72-22201 * #
US-PATENT-CLASS-307-304 ..... c 09 N73-20232 * #
US-PATENT-CLASS-307-304 ..... c 33 N74-34638 * #
US-PATENT-CLASS-307-305 ..... c 09 N72-23171 * #
US-PATENT-CLASS-307-306 ..... c 33 N78-13320 * #
US-PATENT-CLASS-307-306 ..... c 33 N81-17348 * #
US-PATENT-CLASS-307-308 ..... c 14 N73-28488 * #
US-PATENT-CLASS-307-309 ..... c 35 N75-13213 * #
US-PATENT-CLASS-307-310 ..... c 09 N73-14214 * #
US-PATENT-CLASS-307-311 ..... c 14 N72-18411 * #
US-PATENT-CLASS-307-311 ..... c 08 N72-21198 * #
US-PATENT-CLASS-307-311 ..... c 09 N73-14214 * #
US-PATENT-CLASS-307-313 ..... c 10 N72-20221 * #
US-PATENT-CLASS-307-317 ..... c 09 N72-22200 * #
US-PATENT-CLASS-307-317 ..... c 09 N72-22201 * #
US-PATENT-CLASS-307-321 ..... c 33 N75-19520 * #
US-PATENT-CLASS-307-321 ..... c 33 N75-25041 * #
US-PATENT-CLASS-307-322 ..... c 10 N72-22236 * #
US-PATENT-CLASS-307-323 ..... c 10 N72-22236 * #
US-PATENT-CLASS-307-350 ..... c 33 N78-18308 * #
US-PATENT-CLASS-307-352 ..... c 33 N81-27396 * #
US-PATENT-CLASS-307-353 ..... c 33 N81-27396 * #
US-PATENT-CLASS-307-35 ..... c 33 N74-34638 * #
US-PATENT-CLASS-307-360 ..... c 33 N78-18308 * #
US-PATENT-CLASS-307-38 ..... c 03 N73-31988 * #
US-PATENT-CLASS-307-415 ..... c 33 N82-24418 * #
US-PATENT-CLASS-307-520 ..... c 33 N85-29145 * #
US-PATENT-CLASS-307-521 ..... c 33 N85-29145 * #
US-PATENT-CLASS-307-529 ..... c 33 N85-29145 * #
US-PATENT-CLASS-307-53 ..... c 10 N71-26626 *
US-PATENT-CLASS-307-53 ..... c 33 N78-17296 * #
US-PATENT-CLASS-307-566 ..... c 33 N86-20672 * #
US-PATENT-CLASS-307-570 ..... c 33 N86-20672 * #
US-PATENT-CLASS-307-572 ..... c 33 N86-20672 * #
US-PATENT-CLASS-307-63 ..... c 44 N80-14472 * #
US-PATENT-CLASS-307-64 ..... c 33 N77-30365 * #
US-PATENT-CLASS-307-64 ..... c 44 N85-21769 * #
US-PATENT-CLASS-307-66 ..... c 44 N80-14472 * #
US-PATENT-CLASS-307-66 ..... c 44 N85-21769 * #
US-PATENT-CLASS-307-69 ..... c 33 N78-17296 * #
US-PATENT-CLASS-307-81 ..... c 09 N72-17157 * #
US-PATENT-CLASS-307-82 ..... c 33 N79-24254 * #
US-PATENT-CLASS-307-82 ..... c 33 N85-29147 * #
US-PATENT-CLASS-307-83 ..... c 09 N72-25262 * #
US-PATENT-CLASS-307-87 ..... c 33 N84-33660 * #
US-PATENT-CLASS-307-88.3 ..... c 09 N72-25258 * #
US-PATENT-CLASS-307-88.5 ..... c 09 N70-34819 * #
US-PATENT-CLASS-307-88.5 ..... c 09 N70-40272 * #
US-PATENT-CLASS-307-88.5 ..... c 09 N70-41675 * #
US-PATENT-CLASS-307-88.5 ..... c 10 N70-42032 * #
US-PATENT-CLASS-307-88.5 ..... c 09 N71-10673 * #
US-PATENT-CLASS-307-88.5 ..... c 10 N71-15910 *
US-PATENT-CLASS-307-88.5 ..... c 10 N71-16042 *
US-PATENT-CLASS-307-88.5 ..... c 10 N71-28739 *
US-PATENT-CLASS-307-88MP .... c 09 N72-22197 * #
US-PATENT-CLASS-307-88 ..... c 08 N70-34743 * #
US-PATENT-CLASS-307-88 ..... c 09 N70-38604 * #
US-PATENT-CLASS-307-88 ..... c 09 N71-24803 *
US-PATENT-CLASS-307-88 ..... c 09 N71-26000 *
US-PATENT-CLASS-307-92 ..... c 09 N72-27227 * #
US-PATENT-CLASS-307-98 ..... c 33 N79-28415 * #
US-PATENT-CLASS-308-DIG.1 .... c 15 N72-17451 * #
US-PATENT-CLASS-308-DIG.1 .... c 37 N79-10418 * #
US-PATENT-CLASS-308-DIG.8 .... c 24 N79-17916 * #
US-PATENT-CLASS-308-DIG.9 .... c 24 N79-17916 * #
US-PATENT-CLASS-308-10 ..... c 15 N71-22997 *
US-PATENT-CLASS-308-10 ..... c 15 N72-33476 * #
US-PATENT-CLASS-308-10 ..... c 35 N74-18323 * #
US-PATENT-CLASS-308-10 ..... c 37 N75-18574 * #
US-PATENT-CLASS-308-10 ..... c 37 N76-18459 * #
US-PATENT-CLASS-308-10 ..... c 37 N77-17464 * #
US-PATENT-CLASS-308-10 ..... c 44 N78-24608 * #
US-PATENT-CLASS-308-10 ..... c 37 N78-27424 * #
US-PATENT-CLASS-308-10 ..... c 35 N79-26372 * #
US-PATENT-CLASS-308-10 ..... c 71 N81-15767 * #
US-PATENT-CLASS-308-10 ..... c 44 N83-28574 * #
US-PATENT-CLASS-308-10 ..... c 37 N83-32067 * #
US-PATENT-CLASS-308-10 ..... c 37 N83-34323 * #

US-PATENT-CLASS-308-10 ..... c 71 N83-36846 * #
US-PATENT-CLASS-308-10 ..... c 37 N85-20337 * #
US-PATENT-CLASS-308-121 ..... c 37 N74-32921 * #
US-PATENT-CLASS-308-121 ..... c 37 N75-30562 * #
US-PATENT-CLASS-308-121 ..... c 37 N79-10418 * #
US-PATENT-CLASS-308-122 ..... c 37 N76-15461 * #
US-PATENT-CLASS-308-160 ..... c 37 N76-15461 * #
US-PATENT-CLASS-308-160 ..... c 37 N76-29588 * #
US-PATENT-CLASS-308-160 ..... c 37 N79-10418 * #
US-PATENT-CLASS-308-163 ..... c 37 N76-29588 * #
US-PATENT-CLASS-308-163 ..... c 37 N79-10418 * #
US-PATENT-CLASS-308-168 ..... c 24 N79-17916 * #
US-PATENT-CLASS-308-170 ..... c 15 N71-28465 *
US-PATENT-CLASS-308-170 ..... c 37 N76-29588 * #
US-PATENT-CLASS-308-171 ..... c 24 N79-17916 * #
US-PATENT-CLASS-308-172 ..... c 37 N79-10418 * #
US-PATENT-CLASS-308-174 ..... c 54 N75-12616 * #
US-PATENT-CLASS-308-176 ..... c 15 N71-22982 *
US-PATENT-CLASS-308-177 ..... c 15 N71-29136 *
US-PATENT-CLASS-308-187 ..... c 15 N71-26189 *
US-PATENT-CLASS-308-188 ..... c 15 N73-30458 * #
US-PATENT-CLASS-308-188 ..... c 37 N74-21064 * #
US-PATENT-CLASS-308-191 ..... c 37 N74-21064 * #
US-PATENT-CLASS-308-191 ..... c 37 N75-31446 * #
US-PATENT-CLASS-308-193 ..... c 15 N73-30458 * #
US-PATENT-CLASS-308-194 ..... c 37 N79-11404 * #
US-PATENT-CLASS-308-195 ..... c 15 N72-22490 * #
US-PATENT-CLASS-308-195 ..... c 37 N75-31446 * #
US-PATENT-CLASS-308-195 ..... c 37 N77-32500 * #
US-PATENT-CLASS-308-195 ..... c 37 N77-32501 * #
US-PATENT-CLASS-308-1 ..... c 31 N71-26537 *
US-PATENT-CLASS-308-2A ..... c 15 N72-26371 * #
US-PATENT-CLASS-308-2A ..... c 15 N73-12488 * #
US-PATENT-CLASS-308-2A ..... c 37 N84-12492 * #
US-PATENT-CLASS-308-201 ..... c 37 N75-31446 * #
US-PATENT-CLASS-308-2 ..... c 15 N71-23812 *
US-PATENT-CLASS-308-35 ..... c 15 N73-32359 * #
US-PATENT-CLASS-308-5R ..... c 37 N77-28486 * #
US-PATENT-CLASS-308-5R ..... c 37 N79-10418 * #
US-PATENT-CLASS-308-5 ..... c 15 N71-10617 * #
US-PATENT-CLASS-308-5 ..... c 15 N72-11388 *
US-PATENT-CLASS-308-5 ..... c 15 N72-17451 * #
US-PATENT-CLASS-308-72 ..... c 37 N76-15461 * #
US-PATENT-CLASS-308-72 ..... c 37 N77-32500 * #
US-PATENT-CLASS-308-72 ..... c 37 N79-11404 * #
US-PATENT-CLASS-308-73 ..... c 37 N74-21061 * #
US-PATENT-CLASS-308-73 ..... c 37 N75-30562 * #
US-PATENT-CLASS-308-73 ..... c 37 N76-15461 * #
US-PATENT-CLASS-308-73 ..... c 37 N77-28486 * #
US-PATENT-CLASS-308-78 ..... c 24 N79-17916 * #
US-PATENT-CLASS-308-87R ..... c 24 N79-17916 * #
US-PATENT-CLASS-308-9 ..... c 15 N70-34664 * #
US-PATENT-CLASS-308-9 ..... c 15 N70-38620 * #
US-PATENT-CLASS-308-9 ..... c 15 N70-39896 * #
US-PATENT-CLASS-308-9 ..... c 15 N71-20739 *
US-PATENT-CLASS-308-9 ..... c 14 N71-26627 *
US-PATENT-CLASS-308-9 ..... c 15 N72-17451 * #
US-PATENT-CLASS-308-9 ..... c 15 N73-32359 * #
US-PATENT-CLASS-308-9 ..... c 37 N76-15461 * #
US-PATENT-CLASS-308-9 ..... c 37 N77-28486 * #
US-PATENT-CLASS-308-9 ..... c 37 N79-10418 * #
US-PATENT-CLASS-31-35 ..... c 31 N85-21404 * #
US-PATENT-CLASS-310-101 ..... c 15 N71-24696 *
US-PATENT-CLASS-310-10 ..... c 03 N69-39890 * #
US-PATENT-CLASS-310-10 ..... c 09 N71-23443 *
US-PATENT-CLASS-310-10 ..... c 09 N71-24904 *
US-PATENT-CLASS-310-10 ..... c 09 N72-25255 * #
US-PATENT-CLASS-310-10 ..... c 20 N75-24837 * #
US-PATENT-CLASS-310-111 ..... c 33 N77-26387 * #
US-PATENT-CLASS-310-11 ..... c 25 N69-21929 * #
US-PATENT-CLASS-310-11 ..... c 03 N69-39983 * #
US-PATENT-CLASS-310-11 ..... c 03 N70-36803 * #
US-PATENT-CLASS-310-11 ..... c 14 N72-22439 * #
US-PATENT-CLASS-310-11 ..... c 12 N72-25292 * #
US-PATENT-CLASS-310-11 ..... c 35 N74-21018 * #
US-PATENT-CLASS-310-11 ..... c 36 N75-32441 * #
US-PATENT-CLASS-310-11 ..... c 44 N83-28573 * #
US-PATENT-CLASS-310-12 ..... c 33 N82-24421 * #
US-PATENT-CLASS-310-12 ..... c 37 N83-32067 * #
US-PATENT-CLASS-310-153 ..... c 44 N78-24608 * #
US-PATENT-CLASS-310-154 ..... c 44 N78-24608 * #
US-PATENT-CLASS-310-154 ..... c 35 N84-28017 * #
US-PATENT-CLASS-310-15 ..... c 09 N72-25255 * #
US-PATENT-CLASS-310-15 ..... c 44 N83-28574 * #
US-PATENT-CLASS-310-168 ..... c 09 N71-25999 *
US-PATENT-CLASS-310-168 ..... c 33 N77-26387 * #
US-PATENT-CLASS-310-171 ..... c 35 N84-28017 * #
US-PATENT-CLASS-310-178 ..... c 44 N78-24608 * #
US-PATENT-CLASS-310-20 ..... c 71 N79-20827 * #
US-PATENT-CLASS-310-22 ..... c 31 N85-21404 * #
US-PATENT-CLASS-310-231 ..... c 33 N79-20314 * #
US-PATENT-CLASS-310-254 ..... c 09 N71-25999 *
US-PATENT-CLASS-310-269 ..... c 44 N78-24608 * #
US-PATENT-CLASS-310-26 ..... c 71 N79-20827 * #
US-PATENT-CLASS-310-2 ..... c 03 N72-23048 * #
US-PATENT-CLASS-310-300 ..... c 71 N84-23233 * #
US-PATENT-CLASS-310-306 ..... c 33 N80-18287 * #
US-PATENT-CLASS-310-306 ..... c 44 N83-32175 * #
US-PATENT-CLASS-310-306 ..... c 34 N85-29179 * #
US-PATENT-CLASS-310-30 ..... c 44 N80-29834 * #
US-PATENT-CLASS-310-311 ..... c 35 N80-20559 * #
US-PATENT-CLASS-310-317 ..... c 35 N84-22932 * #
US-PATENT-CLASS-310-319 ..... c 33 N80-23559 * #
US-PATENT-CLASS-310-322 ..... c 71 N79-20827 * #
US-PATENT-CLASS-310-324 ..... c 33 N86-20671 * #
US-PATENT-CLASS-310-326 ..... c 38 N79-14398 * #
US-PATENT-CLASS-310-327 ..... c 35 N80-20559 * #
US-PATENT-CLASS-310-332 ..... c 76 N83-34796 * #
US-PATENT-CLASS-310-334 ..... c 71 N79-20827 * #
US-PATENT-CLASS-310-334 ..... c 35 N80-20559 * #
US-PATENT-CLASS-310-334 ..... c 35 N84-22932 * #
US-PATENT-CLASS-310-336 ..... c 38 N79-14398 * #
US-PATENT-CLASS-310-360 ..... c 35 N80-20559 * #
US-PATENT-CLASS-310-366 ..... c 35 N84-22932 * #
US-PATENT-CLASS-310-4A ..... c 37 N77-19458 * #
US-PATENT-CLASS-310-4R ..... c 33 N74-27683 * #
US-PATENT-CLASS-310-4R ..... c 73 N77-18891 * #
US-PATENT-CLASS-310-40 ..... c 20 N75-24837 * #
US-PATENT-CLASS-310-42 ..... c 14 N72-22439 * #
US-PATENT-CLASS-310-46 ..... c 33 N79-20314 * #
US-PATENT-CLASS-310-4 ..... c 09 N69-21313 * #
US-PATENT-CLASS-310-4 ..... c 03 N69-39898 * #
US-PATENT-CLASS-310-4 ..... c 09 N69-39929 * #
US-PATENT-CLASS-310-4 ..... c 03 N70-34134 * #
US-PATENT-CLASS-310-4 ..... c 03 N71-11055 * #
US-PATENT-CLASS-310-4 ..... c 22 N71-23599 *
US-PATENT-CLASS-310-4 ..... c 09 N71-24807 *
US-PATENT-CLASS-310-4 ..... c 33 N71-27862 *
US-PATENT-CLASS-310-4 ..... c 09 N71-28421 *
US-PATENT-CLASS-310-4 ..... c 09 N72-25260 * #
US-PATENT-CLASS-310-4 ..... c 09 N72-27228 * #
US-PATENT-CLASS-310-4 ..... c 20 N75-24837 * #
US-PATENT-CLASS-310-4 ..... c 36 N75-30524 * #
US-PATENT-CLASS-310-4 ..... c 44 N76-16612 * #
US-PATENT-CLASS-310-51 ..... c 15 N71-27169 *
US-PATENT-CLASS-310-52 ..... c 20 N75-24837 * #
US-PATENT-CLASS-310-54 ..... c 09 N71-20446 *
US-PATENT-CLASS-310-5 ..... c 03 N70-35408 * #
US-PATENT-CLASS-310-68B ..... c 35 N84-28017 * #
US-PATENT-CLASS-310-68 ..... c 15 N72-25456 * #
US-PATENT-CLASS-310-77 ..... c 37 N85-30333 * #
US-PATENT-CLASS-310-8.2 ..... c 35 N76-15432 * #
US-PATENT-CLASS-310-8.5 ..... c 14 N71-22993 *
US-PATENT-CLASS-310-800 ..... c 76 N83-34796 * #
US-PATENT-CLASS-310-80 ..... c 15 N72-25456 * #
US-PATENT-CLASS-310-82 ..... c 33 N79-20314 * #
US-PATENT-CLASS-310-83 ..... c 15 N72-25456 * #
US-PATENT-CLASS-310-9.1 ..... c 15 N71-21311 *
US-PATENT-CLASS-310-93 ..... c 15 N71-17652 *
US-PATENT-CLASS-310-93 ..... c 37 N85-30333 * #
US-PATENT-CLASS-311-37 ..... c 35 N75-29380 * #
US-PATENT-CLASS-312-1 ..... c 05 N71-23080 *
US-PATENT-CLASS-312-1 ..... c 05 N73-20137 * #
US-PATENT-CLASS-312-1 ..... c 37 N74-20063 * #
US-PATENT-CLASS-312-209 ..... c 37 N74-18123 * #
US-PATENT-CLASS-312-257 ..... c 31 N72-22874 * #
US-PATENT-CLASS-312-296 ..... c 09 N71-18600 *
US-PATENT-CLASS-312-319 ..... c 37 N79-33467 * #
US-PATENT-CLASS-313-DIG.8 .... c 28 N73-24783 * #
US-PATENT-CLASS-313-104 ..... c 14 N73-32317 * #
US-PATENT-CLASS-313-106 ..... c 24 N83-10117 * #
US-PATENT-CLASS-313-106 ..... c 70 N84-28565 * #
US-PATENT-CLASS-313-107 ..... c 24 N83-10117 * #
US-PATENT-CLASS-313-107 ..... c 70 N84-28565 * #
US-PATENT-CLASS-313-109.5 .... c 09 N71-33519 *
US-PATENT-CLASS-313-11.5 ..... c 28 N70-39925 * #
US-PATENT-CLASS-313-110 ..... c 09 N71-12521 * #
US-PATENT-CLASS-313-131A .... c 33 N85-21491 * #
US-PATENT-CLASS-313-146 ..... c 33 N77-22386 * #
US-PATENT-CLASS-313-153 ..... c 33 N74-12913 * #
US-PATENT-CLASS-313-156 ..... c 25 N70-34661 * #
US-PATENT-CLASS-313-156 ..... c 72 N80-27163 * #
US-PATENT-CLASS-313-161 ..... c 25 N73-25760 * #
US-PATENT-CLASS-313-161 ..... c 09 N73-30181 * #
US-PATENT-CLASS-313-161 ..... c 33 N77-21315 * #
US-PATENT-CLASS-313-175 ..... c 33 N77-21316 * #
US-PATENT-CLASS-313-175 ..... c 31 N78-17238 * #
US-PATENT-CLASS-313-176 ..... c 31 N78-17238 * #
US-PATENT-CLASS-313-180 ..... c 33 N77-21316 * #
US-PATENT-CLASS-313-180 ..... c 31 N78-17238 * #
US-PATENT-CLASS-313-182 ..... c 33 N77-22386 * #
US-PATENT-CLASS-313-184 ..... c 33 N77-21315 * #
US-PATENT-CLASS-313-184 ..... c 33 N77-21316 * #
US-PATENT-CLASS-313-184 ..... c 31 N78-17238 * #
US-PATENT-CLASS-313-186 ..... c 25 N72-24753 * #
US-PATENT-CLASS-313-209 ..... c 33 N74-12913 * #
US-PATENT-CLASS-313-212 ..... c 25 N72-24753 * #
US-PATENT-CLASS-313-217 ..... c 28 N73-27699 * #
US-PATENT-CLASS-313-217 ..... c 33 N74-12913 * #
US-PATENT-CLASS-313-218 ..... c 28 N73-27699 * #
US-PATENT-CLASS-313-224 ..... c 25 N72-24753 * #
US-PATENT-CLASS-313-224 ..... c 33 N74-12913 * #
US-PATENT-CLASS-313-224 ..... c 33 N77-21315 * #
US-PATENT-CLASS-313-224 ..... c 31 N78-17238 * #
US-PATENT-CLASS-313-22 ..... c 09 N71-26787 *
US-PATENT-CLASS-313-22 ..... c 31 N78-17237 * #
US-PATENT-CLASS-313-22 ..... c 31 N78-25256 * #
US-PATENT-CLASS-313-22 ..... c 34 N79-20336 * #
US-PATENT-CLASS-313-230 ..... c 28 N71-28850 *
US-PATENT-CLASS-313-230 ..... c 28 N73-27699 * #
US-PATENT-CLASS-313-230 ..... c 20 N77-20162 * #
US-PATENT-CLASS-313-231.3 .... c 20 N77-20162 * #
US-PATENT-CLASS-313-231.3 .... c 75 N78-27913 * #
US-PATENT-CLASS-313-231.4 .... c 20 N77-10148 * #
US-PATENT-CLASS-313-231.4 .... c 72 N80-33186 * #
US-PATENT-CLASS-313-231 ..... c 06 N69-39889 * #
US-PATENT-CLASS-313-231 ..... c 09 N71-23190 *
US-PATENT-CLASS-313-231 ..... c 09 N71-33519 *
US-PATENT-CLASS-313-231 ..... c 25 N72-24753 * #
US-PATENT-CLASS-313-231 ..... c 25 N72-32688 * #
US-PATENT-CLASS-313-231 ..... c 28 N73-24783 * #
US-PATENT-CLASS-313-231 ..... c 25 N73-25760 * #
US-PATENT-CLASS-313-236 ..... c 09 N71-26182 *
US-PATENT-CLASS-313-237 ..... c 09 N71-26182 *
US-PATENT-CLASS-313-240 ..... c 20 N77-10148 * #
US-PATENT-CLASS-313-250 ..... c 31 N76-31365 * #
US-PATENT-CLASS-313-271 ..... c 25 N71-20747 *
US-PATENT-CLASS-313-306 ..... c 31 N76-31365 * #
US-PATENT-CLASS-313-309 ..... c 10 N72-27246 * #
US-PATENT-CLASS-313-309 ..... c 31 N76-31365 * #
US-PATENT-CLASS-313-311 ..... c 73 N77-18891 * #
US-PATENT-CLASS-313-32 ..... c 33 N74-12913 * #
US-PATENT-CLASS-313-32 ..... c 33 N77-21315 * #
US-PATENT-CLASS-313-336 ..... c 10 N72-27246 * #
US-PATENT-CLASS-313-338 ..... c 31 N76-31365 * #
US-PATENT-CLASS-313-348 ..... c 35 N82-24471 * #
US-PATENT-CLASS-313-351 ..... c 10 N72-27246 * #
US-PATENT-CLASS-313-351 ..... c 70 N84-28565 * #
US-PATENT-CLASS-313-352 ..... c 09 N71-22987 *
US-PATENT-CLASS-313-355 ..... c 28 N73-27699 * #
US-PATENT-CLASS-313-356 ..... c 14 N72-29464 * #
US-PATENT-CLASS-313-35 ..... c 34 N79-20336 * #
US-PATENT-CLASS-313-360 ..... c 20 N77-20162 * #
US-PATENT-CLASS-313-361 ..... c 20 N77-10148 * #
US-PATENT-CLASS-313-362 ..... c 72 N80-27163 * #
US-PATENT-CLASS-313-362 ..... c 72 N80-33186 * #
US-PATENT-CLASS-313-363 ..... c 72 N80-27163 * #
US-PATENT-CLASS-313-442 ..... c 74 N78-18905 * #
US-PATENT-CLASS-313-44 ..... c 15 N69-24319 * #
US-PATENT-CLASS-313-60 ..... c 33 N77-22386 * #
US-PATENT-CLASS-313-61S ..... c 73 N74-26767 * #
US-PATENT-CLASS-313-61S ..... c 37 N78-13436 * #
US-PATENT-CLASS-313-63 ..... c 28 N70-41576 * #
US-PATENT-CLASS-313-63 ..... c 09 N71-10618 * #
US-PATENT-CLASS-313-63 ..... c 28 N71-26781 *
US-PATENT-CLASS-313-63 ..... c 28 N73-24783 * #
US-PATENT-CLASS-313-63 ..... c 28 N73-27699 * #
US-PATENT-CLASS-313-63 ..... c 75 N75-13625 * #
US-PATENT-CLASS-313-7 ..... c 14 N71-18482 *
US-PATENT-CLASS-313-7 ..... c 14 N73-32324 * #
US-PATENT-CLASS-313-93 ..... c 35 N74-26949 * #
US-PATENT-CLASS-313-93 ..... c 35 N82-24471 * #
US-PATENT-CLASS-313-94 ..... c 33 N76-31409 * #
US-PATENT-CLASS-313-94 ..... c 74 N78-18905 * #
US-PATENT-CLASS-314-129 ..... c 15 N69-24266 * #
US-PATENT-CLASS-315-DIG.2 .... c 16 N73-32391 * #
US-PATENT-CLASS-315-101 ..... c 16 N73-32391 * #
US-PATENT-CLASS-315-108 ..... c 09 N71-33519 *
US-PATENT-CLASS-315-108 ..... c 33 N77-21316 * #
US-PATENT-CLASS-315-108 ..... c 36 N78-17366 * #
US-PATENT-CLASS-315-10 ..... c 33 N74-21850 * #
US-PATENT-CLASS-315-10 ..... c 33 N75-26244 * #
US-PATENT-CLASS-315-110 ..... c 33 N77-21316 * #
US-PATENT-CLASS-315-111.2 .... c 75 N78-27913 * #
US-PATENT-CLASS-315-111.31 .. c 33 N85-21491 * #
US-PATENT-CLASS-315-111.3 .... c 20 N77-10148 * #
US-PATENT-CLASS-315-111.3 .... c 20 N77-20162 * #
US-PATENT-CLASS-315-111.6 .... c 75 N76-14931 * #
US-PATENT-CLASS-315-111.6 .... c 20 N77-20162 * #
US-PATENT-CLASS-315-111.81 .. c 33 N85-21491 * #
US-PATENT-CLASS-315-111 ..... c 25 N70-33267 *
US-PATENT-CLASS-315-111 ..... c 25 N70-41628 * #
US-PATENT-CLASS-315-111 ..... c 25 N71-15562 *
US-PATENT-CLASS-315-111 ..... c 24 N71-16213 *
US-PATENT-CLASS-315-111 ..... c 25 N71-21693 *
US-PATENT-CLASS-315-111 ..... c 28 N71-26781 *
US-PATENT-CLASS-315-111 ..... c 25 N71-29184 *
US-PATENT-CLASS-315-111 ..... c 09 N71-33519 *
US-PATENT-CLASS-315-111 ..... c 25 N72-24753 * #
US-PATENT-CLASS-315-111 ..... c 25 N72-32688 * #
US-PATENT-CLASS-315-111 ..... c 14 N73-30391 * #
US-PATENT-CLASS-315-111 ..... c 75 N75-13625 * #
US-PATENT-CLASS-315-111 ..... c 33 N75-29318 * #
US-PATENT-CLASS-315-111 ..... c 37 N75-29426 * #
US-PATENT-CLASS-315-11 ..... c 33 N74-21850 * #
US-PATENT-CLASS-315-12 ..... c 33 N74-21850 * #
US-PATENT-CLASS-315-135 ..... c 09 N72-25250 * #
US-PATENT-CLASS-315-145 ..... c 33 N80-14330 * #

US-PATENT-CLASS-315-151 ..... c 14 N72-27411 * #
US-PATENT-CLASS-315-153 ..... c 14 N73-16483 * #
US-PATENT-CLASS-315-153 ..... c 74 N79-12890 * #
US-PATENT-CLASS-315-156 ..... c 14 N72-27411 * #
US-PATENT-CLASS-315-158 ..... c 14 N72-27411 * #
US-PATENT-CLASS-315-160 ..... c 09 N71-12540 * #
US-PATENT-CLASS-315-169R .... c 23 N73-13660 * #
US-PATENT-CLASS-315-169R .... c 36 N75-19652 * #
US-PATENT-CLASS-315-169TV .. c 23 N73-13660 * #
US-PATENT-CLASS-315-176 ..... c 33 N77-28385 * #
US-PATENT-CLASS-315-18 ..... c 32 N74-20813 * #
US-PATENT-CLASS-315-18 ..... c 33 N75-19517 * #
US-PATENT-CLASS-315-208 ..... c 33 N83-34189 * #
US-PATENT-CLASS-315-209CD .. c 37 N79-11405 * #
US-PATENT-CLASS-315-209SC .. c 37 N79-11405 * #
US-PATENT-CLASS-315-211 ..... c 33 N74-20859 * #
US-PATENT-CLASS-315-22R ..... c 10 N72-31273 * #
US-PATENT-CLASS-315-224 ..... c 33 N83-34189 * #
US-PATENT-CLASS-315-225 ..... c 33 N83-34189 * #
US-PATENT-CLASS-315-228 ..... c 33 N74-20859 * #
US-PATENT-CLASS-315-22 ..... c 10 N72-20225 * #
US-PATENT-CLASS-315-22 ..... c 32 N74-20813 * #
US-PATENT-CLASS-315-22 ..... c 33 N78-17293 * #
US-PATENT-CLASS-315-237 ..... c 33 N83-34189 * #
US-PATENT-CLASS-315-241R .... c 37 N79-11405 * #
US-PATENT-CLASS-315-241R .... c 33 N83-34189 * #
US-PATENT-CLASS-315-241 ..... c 09 N71-13518 * #
US-PATENT-CLASS-315-248 ..... c 09 N73-30181 * #
US-PATENT-CLASS-315-24 ..... c 08 N71-20571 *
US-PATENT-CLASS-315-258 ..... c 16 N73-32391 * #
US-PATENT-CLASS-315-25 ..... c 10 N72-20225 * #
US-PATENT-CLASS-315-260 ..... c 33 N80-14330 * #
US-PATENT-CLASS-315-26 ..... c 09 N71-23189 *
US-PATENT-CLASS-315-297 ..... c 14 N72-27411 * #
US-PATENT-CLASS-315-3.5 ..... c 09 N73-13208 * #
US-PATENT-CLASS-315-3.5 ..... c 33 N79-10339 * #
US-PATENT-CLASS-315-3.5 ..... c 33 N82-26568 * #
US-PATENT-CLASS-315-3.5 ..... c 33 N84-16452 * #
US-PATENT-CLASS-315-3.5 ..... c 37 N85-33489 * #
US-PATENT-CLASS-315-3.5 ..... c 33 N86-21742 * #
US-PATENT-CLASS-315-3.6 ..... c 33 N79-10339 * #
US-PATENT-CLASS-315-3.6 ..... c 33 N82-24415 * #
US-PATENT-CLASS-315-3.6 ..... c 33 N82-26568 * #
US-PATENT-CLASS-315-3.6 ..... c 33 N84-16452 * #
US-PATENT-CLASS-315-3.6 ..... c 33 N84-27974 * #
US-PATENT-CLASS-315-3.6 ..... c 33 N86-21742 * #
US-PATENT-CLASS-315-30R ..... c 10 N72-31273 * #
US-PATENT-CLASS-315-307 ..... c 14 N72-27411 * #
US-PATENT-CLASS-315-30 ..... c 33 N75-27250 * #
US-PATENT-CLASS-315-310 ..... c 14 N72-27411 * #
US-PATENT-CLASS-315-311 ..... c 14 N72-27411 * #
US-PATENT-CLASS-315-324 ..... c 09 N73-30181 * #
US-PATENT-CLASS-315-326 ..... c 25 N72-24753 * #
US-PATENT-CLASS-315-334 ..... c 33 N80-14330 * #
US-PATENT-CLASS-315-344 ..... c 33 N77-21315 * #
US-PATENT-CLASS-315-349 ..... c 09 N72-25250 * #
US-PATENT-CLASS-315-356 ..... c 16 N73-32391 * #
US-PATENT-CLASS-315-358 ..... c 25 N72-24753 * #
US-PATENT-CLASS-315-367 ..... c 33 N75-26244 * #
US-PATENT-CLASS-315-369 ..... c 33 N75-26244 * #
US-PATENT-CLASS-315-36 ..... c 10 N72-27246 * #
US-PATENT-CLASS-315-387 ..... c 33 N75-26244 * #
US-PATENT-CLASS-315-39.3 ..... c 33 N84-16452 * #
US-PATENT-CLASS-315-39.3 ..... c 33 N84-27974 * #
US-PATENT-CLASS-315-39.3 ..... c 33 N86-21742 * #
US-PATENT-CLASS-315-3 ..... c 33 N83-31952 * #
US-PATENT-CLASS-315-4 ..... c 33 N83-31952 * #
US-PATENT-CLASS-315-5.35 ..... c 33 N74-10195 * #
US-PATENT-CLASS-315-5.35 ..... c 33 N83-31952 * #
US-PATENT-CLASS-315-5.38 ..... c 09 N73-13208 * #
US-PATENT-CLASS-315-5.38 ..... c 33 N74-10195 * #
US-PATENT-CLASS-315-5.38 ..... c 33 N82-24415 * #
US-PATENT-CLASS-315-5.38 ..... c 24 N83-10117 * #
US-PATENT-CLASS-315-5.38 ..... c 33 N83-31952 * #
US-PATENT-CLASS-315-5.38 ..... c 70 N84-28565 * #
US-PATENT-CLASS-315-5.38 ..... c 37 N85-33489 * #
US-PATENT-CLASS-315-5 ..... c 33 N83-31952 * #
US-PATENT-CLASS-317-DIG.3 .... c 10 N71-26334 *
US-PATENT-CLASS-317-DIG.6 .... c 10 N73-26228 * #
US-PATENT-CLASS-317-100 ..... c 10 N71-28783 *
US-PATENT-CLASS-317-100 ..... c 10 N73-25243 * #
US-PATENT-CLASS-317-101A .... c 09 N72-33205 * #
US-PATENT-CLASS-317-101A .... c 23 N73-13660 * #
US-PATENT-CLASS-317-101DH .. c 15 N72-22486 * #
US-PATENT-CLASS-317-101DH .. c 10 N73-25243 * #
US-PATENT-CLASS-317-101 ..... c 09 N71-26133 *
US-PATENT-CLASS-317-117 ..... c 15 N72-22486 * #
US-PATENT-CLASS-317-120 ..... c 15 N72-22486 * #
US-PATENT-CLASS-317-122 ..... c 15 N71-18701 *
US-PATENT-CLASS-317-123 ..... c 09 N71-24892 *
US-PATENT-CLASS-317-140 ..... c 09 N70-34502 * #
US-PATENT-CLASS-317-148.5 .... c 10 N71-23271 *
US-PATENT-CLASS-317-148.5 .... c 09 N71-24892 *
US-PATENT-CLASS-317-153 ..... c 10 N71-26334 *
US-PATENT-CLASS-317-155.5 .... c 09 N71-29008 *
US-PATENT-CLASS-317-157.5 .... c 15 N69-21472 * #
US-PATENT-CLASS-317-158 ..... c 15 N73-28516 * #
US-PATENT-CLASS-317-158 ..... c 26 N73-28710 * #
US-PATENT-CLASS-317-158 ..... c 15 N73-32361 * #
US-PATENT-CLASS-317-16 ..... c 09 N69-39897 * #
US-PATENT-CLASS-317-16 ..... c 33 N74-17929 * #
US-PATENT-CLASS-317-2D ..... c 33 N77-10429 * #
US-PATENT-CLASS-317-20 ..... c 10 N71-26531 *
US-PATENT-CLASS-317-230 ..... c 09 N71-27232 *
US-PATENT-CLASS-317-230 ..... c 26 N72-28761 * #
US-PATENT-CLASS-317-231 ..... c 09 N71-27232 *
US-PATENT-CLASS-317-234A .... c 15 N73-14469 * #
US-PATENT-CLASS-317-234D .... c 14 N72-31446 * #
US-PATENT-CLASS-317-234E .... c 33 N74-12951 * #
US-PATENT-CLASS-317-234F .... c 33 N74-12951 * #
US-PATENT-CLASS-317-234G .... c 14 N72-31446 * #
US-PATENT-CLASS-317-234G .... c 15 N73-14469 * #
US-PATENT-CLASS-317-234G .... c 09 N73-27150 * #
US-PATENT-CLASS-317-234J ..... c 26 N72-25679 * #
US-PATENT-CLASS-317-234L ..... c 09 N73-27150 * #
US-PATENT-CLASS-317-234M .... c 09 N73-27150 * #
US-PATENT-CLASS-317-234M .... c 33 N74-12951 * #
US-PATENT-CLASS-317-234N .... c 09 N73-27150 * #
US-PATENT-CLASS-317-234N .... c 33 N74-12951 * #
US-PATENT-CLASS-317-234R .... c 09 N73-27150 * #
US-PATENT-CLASS-317-234R .... c 33 N74-12951 * #
US-PATENT-CLASS-317-234V .... c 26 N72-21701 * #
US-PATENT-CLASS-317-234V .... c 09 N73-15235 * #
US-PATENT-CLASS-317-234 ..... c 14 N69-23191 * #
US-PATENT-CLASS-317-234 ..... c 09 N69-27422 * #
US-PATENT-CLASS-317-234 ..... c 26 N71-18064 *
US-PATENT-CLASS-317-235AG . c 09 N73-15235 * #
US-PATENT-CLASS-317-235AJ ... c 26 N72-25679 * #
US-PATENT-CLASS-317-235AJ ... c 09 N72-33205 * #
US-PATENT-CLASS-317-235AM . c 09 N73-19235 * #
US-PATENT-CLASS-317-235A .... c 26 N72-25679 * #
US-PATENT-CLASS-317-235A .... c 09 N72-33205 * #
US-PATENT-CLASS-317-235H .... c 35 N75-13213 * #
US-PATENT-CLASS-317-235K .... c 09 N73-15235 * #
US-PATENT-CLASS-317-235M .... c 14 N72-31446 * #
US-PATENT-CLASS-317-235N .... c 09 N73-19235 * #
US-PATENT-CLASS-317-235N .... c 35 N74-15090 * #
US-PATENT-CLASS-317-235R .... c 26 N72-21701 * #
US-PATENT-CLASS-317-235R .... c 26 N72-25679 * #
US-PATENT-CLASS-317-235R .... c 14 N72-31446 * #
US-PATENT-CLASS-317-235R .... c 09 N73-19235 * #
US-PATENT-CLASS-317-235R .... c 09 N73-32112 * #
US-PATENT-CLASS-317-235T .... c 09 N73-19235 * #
US-PATENT-CLASS-317-235UA .. c 09 N73-19235 * #
US-PATENT-CLASS-317-235WW c 09 N73-32112 * #
US-PATENT-CLASS-317-235 ..... c 09 N69-24318 * #
US-PATENT-CLASS-317-235 ..... c 09 N72-33205 * #
US-PATENT-CLASS-317-238 ..... c 09 N71-27232 *
US-PATENT-CLASS-317-245 ..... c 33 N79-21265 * #
US-PATENT-CLASS-317-246 ..... c 14 N69-21541 * #
US-PATENT-CLASS-317-246 ..... c 33 N76-21390 * #
US-PATENT-CLASS-317-246 ..... c 35 N76-22509 * #
US-PATENT-CLASS-317-247 ..... c 14 N72-24477 * #
US-PATENT-CLASS-317-258 ..... c 09 N71-13522 * #
US-PATENT-CLASS-317-258 ..... c 33 N76-15373 * #
US-PATENT-CLASS-317-261 ..... c 26 N72-28761 * #
US-PATENT-CLASS-317-261 ..... c 33 N76-15373 * #
US-PATENT-CLASS-317-31 ..... c 09 N71-12526 * #
US-PATENT-CLASS-317-31 ..... c 10 N71-23543 *
US-PATENT-CLASS-317-31 ..... c 33 N74-17929 * #
US-PATENT-CLASS-317-31 ..... c 33 N77-14333 * #
US-PATENT-CLASS-317-33SC .... c 33 N74-14956 * #
US-PATENT-CLASS-317-33 ..... c 10 N71-26531 *
US-PATENT-CLASS-317-33 ..... c 09 N71-27001 *
US-PATENT-CLASS-317-33 ..... c 10 N71-27366 *
US-PATENT-CLASS-317-33 ..... c 09 N71-29008 *
US-PATENT-CLASS-317-43 ..... c 33 N74-14956 * #
US-PATENT-CLASS-317-46 ..... c 33 N74-14956 * #
US-PATENT-CLASS-317-47 ..... c 33 N74-14956 * #
US-PATENT-CLASS-317-48 ..... c 33 N74-14956 * #
US-PATENT-CLASS-317-54 ..... c 09 N71-29008 *
US-PATENT-CLASS-317-60 ..... c 09 N71-29008 *
US-PATENT-CLASS-317-9 ..... c 09 N71-22796 *
US-PATENT-CLASS-317-9 ..... c 09 N71-27001 *
US-PATENT-CLASS-318-116 ..... c 71 N79-20827 * #
US-PATENT-CLASS-318-116 ..... c 71 N84-23233 * #
US-PATENT-CLASS-318-135 ..... c 33 N82-24421 * #
US-PATENT-CLASS-318-137 ..... c 33 N75-19524 * #
US-PATENT-CLASS-318-138 ..... c 09 N71-10677 * #
US-PATENT-CLASS-318-138 ..... c 14 N71-17585 *
US-PATENT-CLASS-318-138 ..... c 10 N71-18772 *
US-PATENT-CLASS-318-138 ..... c 09 N71-25999 *
US-PATENT-CLASS-318-138 ..... c 33 N77-26386 * #
US-PATENT-CLASS-318-138 ..... c 33 N81-20352 * #
US-PATENT-CLASS-318-15 ..... c 37 N80-32716 * #
US-PATENT-CLASS-318-167 ..... c 33 N75-19524 * #
US-PATENT-CLASS-318-176 ..... c 33 N75-19524 * #
US-PATENT-CLASS-318-183 ..... c 33 N75-19524 * #
US-PATENT-CLASS-318-20.105 .. c 08 N71-27057 *
US-PATENT-CLASS-318-200 ..... c 33 N78-10376 * #
US-PATENT-CLASS-318-227 ..... c 07 N71-33613 *
US-PATENT-CLASS-318-227 ..... c 33 N75-15874 * #
US-PATENT-CLASS-318-227 ..... c 33 N77-26386 * #
US-PATENT-CLASS-318-227 ..... c 33 N78-10376 * #
US-PATENT-CLASS-318-22 ..... c 15 N71-17694 *
US-PATENT-CLASS-318-230 ..... c 07 N71-33613 *
US-PATENT-CLASS-318-230 ..... c 10 N73-32145 * #
US-PATENT-CLASS-318-230 ..... c 33 N75-15874 * #
US-PATENT-CLASS-318-230 ..... c 33 N78-10376 * #
US-PATENT-CLASS-318-231 ..... c 10 N73-32145 * #
US-PATENT-CLASS-318-231 ..... c 33 N75-15874 * #
US-PATENT-CLASS-318-254 ..... c 09 N71-25999 *
US-PATENT-CLASS-318-254 ..... c 09 N73-32107 * #
US-PATENT-CLASS-318-254 ..... c 33 N77-26386 * #
US-PATENT-CLASS-318-254 ..... c 33 N81-20352 * #
US-PATENT-CLASS-318-254 ..... c 33 N82-26569 * #
US-PATENT-CLASS-318-257 ..... c 10 N71-18724 *
US-PATENT-CLASS-318-258 ..... c 09 N71-26092 *
US-PATENT-CLASS-318-260 ..... c 09 N70-38712 * #
US-PATENT-CLASS-318-265 ..... c 15 N71-24895 *
US-PATENT-CLASS-318-267 ..... c 37 N77-27400 * #
US-PATENT-CLASS-318-308 ..... c 11 N72-20244 * #
US-PATENT-CLASS-318-314 ..... c 10 N71-20448 *
US-PATENT-CLASS-318-314 ..... c 09 N75-24758 * #
US-PATENT-CLASS-318-317 ..... c 09 N71-28886 *
US-PATENT-CLASS-318-318 ..... c 09 N71-24805 *
US-PATENT-CLASS-318-318 ..... c 09 N75-24758 * #
US-PATENT-CLASS-318-31 ..... c 15 N71-28952 *
US-PATENT-CLASS-318-327 ..... c 11 N72-20244 * #
US-PATENT-CLASS-318-328 ..... c 09 N73-32107 * #
US-PATENT-CLASS-318-331 ..... c 09 N71-28886 *
US-PATENT-CLASS-318-341 ..... c 10 N73-32145 * #
US-PATENT-CLASS-318-341 ..... c 09 N75-24758 * #
US-PATENT-CLASS-318-345 ..... c 09 N71-28886 *
US-PATENT-CLASS-318-376 ..... c 10 N71-16030 *
US-PATENT-CLASS-318-376 ..... c 11 N72-20244 * #
US-PATENT-CLASS-318-382 ..... c 15 N71-24695 *
US-PATENT-CLASS-318-438 ..... c 33 N84-22885 * #
US-PATENT-CLASS-318-439 ..... c 33 N81-20352 * #
US-PATENT-CLASS-318-468 ..... c 37 N77-27400 * #
US-PATENT-CLASS-318-46 ..... c 44 N85-21769 * #
US-PATENT-CLASS-318-470 ..... c 37 N77-27400 * #
US-PATENT-CLASS-318-489 ..... c 02 N73-19004 * #
US-PATENT-CLASS-318-504 ..... c 09 N71-28886 *
US-PATENT-CLASS-318-561 ..... c 33 N82-18493 * #
US-PATENT-CLASS-318-564 ..... c 60 N82-29013 * #
US-PATENT-CLASS-318-571 ..... c 10 N71-27136 *
US-PATENT-CLASS-318-573 ..... c 35 N79-14348 * #
US-PATENT-CLASS-318-576 ..... c 09 N72-21246 * #
US-PATENT-CLASS-318-577 ..... c 37 N86-21850 * #
US-PATENT-CLASS-318-580 ..... c 08 N74-10942 * #
US-PATENT-CLASS-318-580 ..... c 04 N82-23231 * #
US-PATENT-CLASS-318-584 ..... c 08 N81-24106 * #
US-PATENT-CLASS-318-585 ..... c 08 N79-23097 * #
US-PATENT-CLASS-318-587 ..... c 35 N84-33769 * #
US-PATENT-CLASS-318-594 ..... c 35 N79-14348 * #
US-PATENT-CLASS-318-599 ..... c 10 N71-24861 *
US-PATENT-CLASS-318-602 ..... c 33 N74-29556 * #
US-PATENT-CLASS-318-603 ..... c 33 N74-29556 * #
US-PATENT-CLASS-318-608 ..... c 33 N75-13139 * #
US-PATENT-CLASS-318-611 ..... c 37 N85-30333 * #
US-PATENT-CLASS-318-616 ..... c 08 N79-23097 * #
US-PATENT-CLASS-318-620 ..... c 33 N82-18493 * #
US-PATENT-CLASS-318-621 ..... c 33 N82-18493 * #
US-PATENT-CLASS-318-622 ..... c 33 N82-18493 * #
US-PATENT-CLASS-318-628 ..... c 08 N74-10942 * #
US-PATENT-CLASS-318-640 ..... c 33 N75-13139 * #
US-PATENT-CLASS-318-640 ..... c 54 N75-27758 * #
US-PATENT-CLASS-318-640 ..... c 35 N79-14348 * #
US-PATENT-CLASS-318-640 ..... c 37 N81-27519 * #
US-PATENT-CLASS-318-649 ..... c 33 N75-13139 * #
US-PATENT-CLASS-318-653 ..... c 10 N71-27136 *
US-PATENT-CLASS-318-663 ..... c 37 N81-33483 * #
US-PATENT-CLASS-318-664 ..... c 33 N74-29556 * #
US-PATENT-CLASS-318-675 ..... c 33 N75-13139 * #
US-PATENT-CLASS-318-675 ..... c 37 N77-27400 * #
US-PATENT-CLASS-318-685 ..... c 33 N83-35227 * #
US-PATENT-CLASS-318-729 ..... c 33 N83-34190 * #
US-PATENT-CLASS-318-729 ..... c 33 N84-14424 * #
US-PATENT-CLASS-318-729 ..... c 33 N84-22885 * #
US-PATENT-CLASS-318-729 ..... c 33 N84-22886 * #
US-PATENT-CLASS-318-729 ..... c 33 N84-27975 * #
US-PATENT-CLASS-318-729 ..... c 33 N84-33661 * #
US-PATENT-CLASS-318-729 ..... c 44 N85-21769 * #
US-PATENT-CLASS-318-729 ..... c 33 N85-22877 * #
US-PATENT-CLASS-318-798 ..... c 33 N83-34190 * #
US-PATENT-CLASS-318-798 ..... c 33 N83-35227 * #
US-PATENT-CLASS-318-798 ..... c 33 N84-14424 * #
US-PATENT-CLASS-318-798 ..... c 33 N84-22885 * #
US-PATENT-CLASS-318-799 ..... c 33 N81-27395 * #
US-PATENT-CLASS-318-799 ..... c 33 N84-16455 * #
US-PATENT-CLASS-318-800 ..... c 33 N83-31953 * #
US-PATENT-CLASS-318-802 ..... c 33 N84-33661 * #
US-PATENT-CLASS-318-803 ..... c 33 N83-10345 * #
US-PATENT-CLASS-318-803 ..... c 33 N83-31953 * #
US-PATENT-CLASS-318-805 ..... c 33 N84-22885 * #
US-PATENT-CLASS-318-806 ..... c 33 N82-26569 * #
US-PATENT-CLASS-318-806 ..... c 33 N83-34190 * #

US-PATENT-CLASS-318-806 ..... c 33 N83-35227 * #
US-PATENT-CLASS-318-806 ..... c 33 N84-14424 * #
US-PATENT-CLASS-318-809 ..... c 33 N83-31953 * #
US-PATENT-CLASS-318-809 ..... c 33 N84-27975 * #
US-PATENT-CLASS-318-810 ..... c 33 N81-27395 * #
US-PATENT-CLASS-318-810 ..... c 33 N84-22885 * #
US-PATENT-CLASS-318-812 ..... c 33 N82-26569 * #
US-PATENT-CLASS-318-812 ..... c 33 N84-22886 * #
US-PATENT-CLASS-318-812 ..... c 33 N85-22877 * #
US-PATENT-CLASS-318-830 ..... c 33 N82-26569 * #
US-PATENT-CLASS-32-28 ..... c 05 N73-27062 * #
US-PATENT-CLASS-32-58 ..... c 05 N73-27062 * #
US-PATENT-CLASS-320-13 ..... c 03 N71-29129 *
US-PATENT-CLASS-320-13 ..... c 44 N78-25531 * #
US-PATENT-CLASS-320-15 ..... c 44 N78-14625 * #
US-PATENT-CLASS-320-15 ..... c 44 N78-25531 * #
US-PATENT-CLASS-320-17 ..... c 03 N71-24605 *
US-PATENT-CLASS-320-18 ..... c 44 N78-14625 * #
US-PATENT-CLASS-320-21 ..... c 44 N76-18643 * #
US-PATENT-CLASS-320-22 ..... c 44 N76-18643 * #
US-PATENT-CLASS-320-23 ..... c 03 N71-19438 *
US-PATENT-CLASS-320-2 ..... c 44 N77-14581 * #
US-PATENT-CLASS-320-32 ..... c 44 N78-25531 * #
US-PATENT-CLASS-320-39 ..... c 03 N71-24719 *
US-PATENT-CLASS-320-39 ..... c 44 N78-25531 * #
US-PATENT-CLASS-320-40 ..... c 44 N78-14625 * #
US-PATENT-CLASS-320-48 ..... c 03 N72-25020 * #
US-PATENT-CLASS-320-53 ..... c 33 N78-17296 * #
US-PATENT-CLASS-320-6 ..... c 44 N78-14625 * #
US-PATENT-CLASS-320-9 ..... c 44 N78-25531 * #
US-PATENT-CLASS-321-1.5 ..... c 09 N73-32109 * #
US-PATENT-CLASS-321-10 ..... c 09 N72-17154 * #
US-PATENT-CLASS-321-11 ..... c 09 N69-39984 * #
US-PATENT-CLASS-321-11 ..... c 09 N72-25252 * #
US-PATENT-CLASS-321-11 ..... c 10 N73-26228 * #
US-PATENT-CLASS-321-12 ..... c 10 N71-27366 *
US-PATENT-CLASS-321-13 ..... c 33 N77-14333 * #
US-PATENT-CLASS-321-14 ..... c 09 N72-22196 * #
US-PATENT-CLASS-321-15 ..... c 09 N72-22203 * #
US-PATENT-CLASS-321-15 ..... c 33 N75-19522 * #
US-PATENT-CLASS-321-18 ..... c 09 N72-22203 * #
US-PATENT-CLASS-321-18 ..... c 09 N72-25251 * #
US-PATENT-CLASS-321-18 ..... c 09 N72-25252 * #
US-PATENT-CLASS-321-18 ..... c 33 N74-11049 * #
US-PATENT-CLASS-321-19 ..... c 09 N72-22196 * #
US-PATENT-CLASS-321-19 ..... c 09 N72-25252 * #
US-PATENT-CLASS-321-19 ..... c 33 N77-10428 * #
US-PATENT-CLASS-321-25 ..... c 09 N72-22196 * #
US-PATENT-CLASS-321-2 ..... c 03 N69-21330 * #
US-PATENT-CLASS-321-2 ..... c 03 N69-25146 * #
US-PATENT-CLASS-321-2 ..... c 03 N71-12255 * #
US-PATENT-CLASS-321-2 ..... c 09 N71-23188 *
US-PATENT-CLASS-321-2 ..... c 03 N71-23239 *
US-PATENT-CLASS-321-2 ..... c 10 N71-26085 *
US-PATENT-CLASS-321-2 ..... c 09 N72-22196 * #
US-PATENT-CLASS-321-2 ..... c 09 N72-22203 * #
US-PATENT-CLASS-321-2 ..... c 03 N72-23048 * #
US-PATENT-CLASS-321-2 ..... c 09 N72-25249 * #
US-PATENT-CLASS-321-2 ..... c 09 N72-25251 * #
US-PATENT-CLASS-321-2 ..... c 09 N72-25252 * #
US-PATENT-CLASS-321-2 ..... c 09 N72-25253 * #
US-PATENT-CLASS-321-2 ..... c 09 N72-25254 * #
US-PATENT-CLASS-321-2 ..... c 33 N74-11049 * #
US-PATENT-CLASS-321-2 ..... c 33 N77-10428 * #
US-PATENT-CLASS-321-45C ..... c 10 N73-26228 * #
US-PATENT-CLASS-321-45ER .... c 09 N72-25252 * #
US-PATENT-CLASS-321-45R ..... c 09 N72-25252 * #
US-PATENT-CLASS-321-45R ..... c 09 N72-25254 * #
US-PATENT-CLASS-321-45R ..... c 33 N74-22864 * #
US-PATENT-CLASS-321-45S ..... c 33 N74-11049 * #
US-PATENT-CLASS-321-45 ..... c 09 N71-24800 *
US-PATENT-CLASS-321-45 ..... c 09 N72-22203 * #
US-PATENT-CLASS-321-47 ..... c 09 N71-33109 *
US-PATENT-CLASS-321-47 ..... c 09 N72-25253 * #
US-PATENT-CLASS-321-48 ..... c 12 N71-20896 *
US-PATENT-CLASS-321-5 ..... c 08 N71-18752 *
US-PATENT-CLASS-321-60 ..... c 14 N71-23174 *
US-PATENT-CLASS-321-61 ..... c 09 N71-27364 *
US-PATENT-CLASS-321-64 ..... c 09 N71-27364 *
US-PATENT-CLASS-321-69 ..... c 10 N71-26414 *
US-PATENT-CLASS-321-8R ..... c 35 N74-18090 * #
US-PATENT-CLASS-321-9 ..... c 10 N71-25139 *
US-PATENT-CLASS-322-2R ..... c 07 N83-20944 * #
US-PATENT-CLASS-322-25 ..... c 33 N84-33660 * #
US-PATENT-CLASS-322-29 ..... c 33 N83-28319 * #
US-PATENT-CLASS-322-29 ..... c 33 N84-33660 * #
US-PATENT-CLASS-322-2 ..... c 03 N72-23048 * #
US-PATENT-CLASS-322-32 ..... c 09 N71-27364 *
US-PATENT-CLASS-322-35 ..... c 33 N83-28319 * #
US-PATENT-CLASS-322-47 ..... c 33 N83-28319 * #
US-PATENT-CLASS-322-47 ..... c 33 N84-33660 * #
US-PATENT-CLASS-322-95 ..... c 33 N83-28319 * #
US-PATENT-CLASS-322-95 ..... c 33 N84-33660 * #
US-PATENT-CLASS-322-96 ..... c 33 N77-26387 * #
US-PATENT-CLASS-323-DIG.1 .... c 09 N72-21243 * #
US-PATENT-CLASS-323-DIG.1 .... c 09 N72-25249 * #
US-PATENT-CLASS-323-DIG.1 .... c 33 N74-11049 * #
US-PATENT-CLASS-323-DIG.1 .... c 33 N77-10428 * #
US-PATENT-CLASS-323-106 ..... c 33 N74-22885 * #
US-PATENT-CLASS-323-122 ..... c 33 N74-22885 * #
US-PATENT-CLASS-323-128 ..... c 33 N74-22885 * #
US-PATENT-CLASS-323-15 ..... c 20 N79-20179 * #
US-PATENT-CLASS-323-15 ..... c 44 N80-14472 * #
US-PATENT-CLASS-323-17 ..... c 09 N72-25249 * #
US-PATENT-CLASS-323-17 ..... c 33 N77-10428 * #
US-PATENT-CLASS-323-18 ..... c 33 N78-17295 * #
US-PATENT-CLASS-323-19 ..... c 08 N72-31226 * #
US-PATENT-CLASS-323-19 ..... c 33 N78-17296 * #
US-PATENT-CLASS-323-19 ..... c 44 N80-14472 * #
US-PATENT-CLASS-323-20 ..... c 14 N71-27407 *
US-PATENT-CLASS-323-20 ..... c 20 N79-20179 * #
US-PATENT-CLASS-323-22T ..... c 09 N72-21243 * #
US-PATENT-CLASS-323-22T ..... c 09 N72-25249 * #
US-PATENT-CLASS-323-22T ..... c 33 N77-10428 * #
US-PATENT-CLASS-323-22T ..... c 33 N79-23345 * #
US-PATENT-CLASS-323-22 ..... c 09 N71-21449 *
US-PATENT-CLASS-323-22 ..... c 09 N71-23316 *
US-PATENT-CLASS-323-23 ..... c 33 N77-10428 * #
US-PATENT-CLASS-323-243 ..... c 33 N84-16455 * #
US-PATENT-CLASS-323-246 ..... c 33 N84-16455 * #
US-PATENT-CLASS-323-269 ..... c 33 N83-27126 * #
US-PATENT-CLASS-323-300 ..... c 33 N84-27975 * #
US-PATENT-CLASS-323-303 ..... c 33 N83-27126 * #
US-PATENT-CLASS-323-350 ..... c 33 N83-27126 * #
US-PATENT-CLASS-323-38 ..... c 09 N72-21243 * #
US-PATENT-CLASS-323-44F ..... c 33 N79-17133 * #
US-PATENT-CLASS-323-48 ..... c 09 N71-27053 *
US-PATENT-CLASS-323-48 ..... c 09 N72-25262 * #
US-PATENT-CLASS-323-4 ..... c 33 N78-17294 * #
US-PATENT-CLASS-323-56 ..... c 10 N71-22961 *
US-PATENT-CLASS-323-56 ..... c 09 N71-24893 *
US-PATENT-CLASS-323-56 ..... c 09 N72-22196 * #
US-PATENT-CLASS-323-60 ..... c 09 N71-27053 *
US-PATENT-CLASS-323-82 ..... c 09 N72-25262 * #
US-PATENT-CLASS-323-89C ..... c 09 N72-22196 * #
US-PATENT-CLASS-323-8 ..... c 10 N71-10578 * #
US-PATENT-CLASS-323-901 ..... c 33 N84-33663 * #
US-PATENT-CLASS-323-93 ..... c 33 N77-31404 * #
US-PATENT-CLASS-324-.5R ..... c 16 N73-13489 * #
US-PATENT-CLASS-324-.5 ..... c 14 N71-20428 *
US-PATENT-CLASS-324-DIG.1 .... c 33 N75-19520 * #
US-PATENT-CLASS-324-DIG.1 .... c 33 N75-25041 * #
US-PATENT-CLASS-324-0.5 ..... c 14 N71-26137 *
US-PATENT-CLASS-324-0.5 ..... c 14 N71-26266 *
US-PATENT-CLASS-324-0.5 ..... c 36 N79-14362 * #
US-PATENT-CLASS-324-102 ..... c 09 N72-11225 *
US-PATENT-CLASS-324-102 ..... c 33 N74-17930 * #
US-PATENT-CLASS-324-102 ..... c 33 N75-19521 * #
US-PATENT-CLASS-324-102 ..... c 33 N79-11315 * #
US-PATENT-CLASS-324-102 ..... c 33 N79-14305 * #
US-PATENT-CLASS-324-103 ..... c 10 N71-27338 *
US-PATENT-CLASS-324-106 ..... c 14 N70-38602 * #
US-PATENT-CLASS-324-106 ..... c 08 N71-29138 *
US-PATENT-CLASS-324-107 ..... c 10 N71-27338 *
US-PATENT-CLASS-324-112 ..... c 33 N79-14305 * #
US-PATENT-CLASS-324-113 ..... c 09 N70-41655 * #
US-PATENT-CLASS-324-113 ..... c 33 N75-19521 * #
US-PATENT-CLASS-324-113 ..... c 33 N79-11315 * #
US-PATENT-CLASS-324-113 ..... c 33 N79-14305 * #
US-PATENT-CLASS-324-115 ..... c 14 N71-26244 *
US-PATENT-CLASS-324-115 ..... c 10 N72-20222 * #
US-PATENT-CLASS-324-117 ..... c 14 N71-23037 *
US-PATENT-CLASS-324-118 ..... c 33 N74-17930 * #
US-PATENT-CLASS-324-119 ..... c 09 N72-11225 *
US-PATENT-CLASS-324-120 ..... c 14 N71-19431 *
US-PATENT-CLASS-324-120 ..... c 09 N71-23021 *
US-PATENT-CLASS-324-123C .... c 33 N79-22373 * #
US-PATENT-CLASS-324-123R .... c 09 N72-11225 *
US-PATENT-CLASS-324-127 ..... c 33 N79-18193 * #
US-PATENT-CLASS-324-130 ..... c 35 N78-28411 * #
US-PATENT-CLASS-324-132 ..... c 09 N71-13530 * #
US-PATENT-CLASS-324-132 ..... c 10 N72-20222 * #
US-PATENT-CLASS-324-133 ..... c 10 N71-27338 *
US-PATENT-CLASS-324-133 ..... c 33 N79-10337 * #
US-PATENT-CLASS-324-133 ..... c 33 N79-11315 * #
US-PATENT-CLASS-324-133 ..... c 33 N79-14305 * #
US-PATENT-CLASS-324-133 ..... c 33 N79-18193 * #
US-PATENT-CLASS-324-158D .... c 15 N72-25457 * #
US-PATENT-CLASS-324-158D .... c 76 N76-20994 * #
US-PATENT-CLASS-324-158D .... c 44 N80-18551 * #
US-PATENT-CLASS-324-158D .... c 76 N84-35112 * #
US-PATENT-CLASS-324-158D .... c 76 N85-30923 * #
US-PATENT-CLASS-324-158R .... c 76 N76-20994 * #
US-PATENT-CLASS-324-158R .... c 33 N85-30187 * #
US-PATENT-CLASS-324-158T .... c 15 N72-25457 * #
US-PATENT-CLASS-324-158T .... c 35 N75-12270 * #
US-PATENT-CLASS-324-158T .... c 76 N76-20994 * #
US-PATENT-CLASS-324-158T .... c 33 N80-14332 * #
US-PATENT-CLASS-324-158T .... c 76 N84-35112 * #
US-PATENT-CLASS-324-158 ..... c 09 N69-21926 * #
US-PATENT-CLASS-324-163 ..... c 35 N77-30436 * #
US-PATENT-CLASS-324-165 ..... c 35 N77-30436 * #
US-PATENT-CLASS-324-173 ..... c 35 N78-32396 * #
US-PATENT-CLASS-324-174 ..... c 35 N77-30436 * #
US-PATENT-CLASS-324-181 ..... c 09 N71-24717 *
US-PATENT-CLASS-324-186 ..... c 09 N72-25257 * #
US-PATENT-CLASS-324-186 ..... c 52 N74-12778 * #
US-PATENT-CLASS-324-20R ..... c 09 N72-23172 * #
US-PATENT-CLASS-324-20R ..... c 44 N79-12541 * #
US-PATENT-CLASS-324-207 ..... c 35 N78-32396 * #
US-PATENT-CLASS-324-22 ..... c 44 N79-12541 * #
US-PATENT-CLASS-324-249 ..... c 35 N78-32397 * #
US-PATENT-CLASS-324-250 ..... c 35 N84-12444 * #
US-PATENT-CLASS-324-262 ..... c 35 N84-22928 * #
US-PATENT-CLASS-324-29.5 ..... c 03 N72-25020 * #
US-PATENT-CLASS-324-29.5 ..... c 14 N73-30388 * #
US-PATENT-CLASS-324-29.5 ..... c 44 N74-27519 * #
US-PATENT-CLASS-324-30B ..... c 33 N76-19339 * #
US-PATENT-CLASS-324-30R ..... c 14 N73-20478 * #
US-PATENT-CLASS-324-32 ..... c 14 N71-16014 *
US-PATENT-CLASS-324-32 ..... c 33 N75-18477 * #
US-PATENT-CLASS-324-32 ..... c 33 N75-19522 * #
US-PATENT-CLASS-324-32 ..... c 35 N78-28411 * #
US-PATENT-CLASS-324-33 ..... c 25 N69-39884 * #
US-PATENT-CLASS-324-33 ..... c 14 N70-35666 * #
US-PATENT-CLASS-324-33 ..... c 24 N71-20518 *
US-PATENT-CLASS-324-33 ..... c 14 N71-21090 *
US-PATENT-CLASS-324-33 ..... c 14 N71-27090 *
US-PATENT-CLASS-324-34FL .... c 35 N74-21018 * #
US-PATENT-CLASS-324-34R ..... c 26 N76-18257 * #
US-PATENT-CLASS-324-34 ..... c 25 N71-16073 *
US-PATENT-CLASS-324-404 ..... c 44 N80-18551 * #
US-PATENT-CLASS-324-40 ..... c 38 N74-15395 * #
US-PATENT-CLASS-324-41 ..... c 10 N72-28240 * #
US-PATENT-CLASS-324-427 ..... c 35 N85-21596 * #
US-PATENT-CLASS-324-43R ..... c 35 N76-16390 * #
US-PATENT-CLASS-324-43 ..... c 14 N69-27423 * #
US-PATENT-CLASS-324-43 ..... c 09 N70-40123 * #
US-PATENT-CLASS-324-43 ..... c 14 N71-15962 *
US-PATENT-CLASS-324-43 ..... c 14 N71-26135 *
US-PATENT-CLASS-324-43 ..... c 14 N71-27325 *
US-PATENT-CLASS-324-457 ..... c 72 N84-28575 * #
US-PATENT-CLASS-324-466 ..... c 33 N83-31954 * #
US-PATENT-CLASS-324-51 ..... c 33 N80-26599 * #
US-PATENT-CLASS-324-51 ..... c 33 N81-26359 * #
US-PATENT-CLASS-324-51 ..... c 33 N82-24420 * #
US-PATENT-CLASS-324-52 ..... c 14 N72-17325 * #
US-PATENT-CLASS-324-52 ..... c 14 N73-28486 * #
US-PATENT-CLASS-324-52 ..... c 33 N79-18193 * #
US-PATENT-CLASS-324-52 ..... c 33 N82-24420 * #
US-PATENT-CLASS-324-54 ..... c 33 N75-18477 * #
US-PATENT-CLASS-324-57DE .... c 33 N78-25319 * #
US-PATENT-CLASS-324-57H ..... c 35 N77-32455 * #
US-PATENT-CLASS-324-57PS .... c 35 N75-21582 * #
US-PATENT-CLASS-324-57R ..... c 15 N72-21464 * #
US-PATENT-CLASS-324-57R ..... c 14 N73-30388 * #
US-PATENT-CLASS-324-57R ..... c 35 N74-18090 * #
US-PATENT-CLASS-324-57R ..... c 33 N79-10338 * #
US-PATENT-CLASS-324-57R ..... c 35 N79-14349 * #
US-PATENT-CLASS-324-57SS .... c 33 N78-25319 * #
US-PATENT-CLASS-324-57 ..... c 10 N71-16057 *
US-PATENT-CLASS-324-57 ..... c 09 N71-20569 *
US-PATENT-CLASS-324-58.5A ... c 33 N75-26245 * #
US-PATENT-CLASS-324-58.5B ... c 43 N78-10529 * #
US-PATENT-CLASS-324-58.5C ... c 33 N75-26245 * #
US-PATENT-CLASS-324-58.5 ..... c 15 N71-17822 *
US-PATENT-CLASS-324-58.5 ..... c 25 N71-20563 *
US-PATENT-CLASS-324-58.5 ..... c 14 N71-26137 *
US-PATENT-CLASS-324-58.5 ..... c 18 N71-27397 *
US-PATENT-CLASS-324-58A ..... c 33 N78-25319 * #
US-PATENT-CLASS-324-59 ..... c 35 N77-32455 * #
US-PATENT-CLASS-324-5 ..... c 14 N71-28991 *
US-PATENT-CLASS-324-60C ..... c 35 N75-12270 * #
US-PATENT-CLASS-324-60C ..... c 76 N76-20994 * #
US-PATENT-CLASS-324-60 ..... c 33 N77-31404 * #
US-PATENT-CLASS-324-61R ..... c 14 N72-24477 * #
US-PATENT-CLASS-324-61R ..... c 35 N76-22509 * #
US-PATENT-CLASS-324-61 ..... c 14 N69-39785 * #
US-PATENT-CLASS-324-61 ..... c 14 N70-36618 * #
US-PATENT-CLASS-324-61 ..... c 14 N71-10797 * #
US-PATENT-CLASS-324-61 ..... c 18 N71-27397 *
US-PATENT-CLASS-324-61 ..... c 14 N72-22442 * #
US-PATENT-CLASS-324-62R ..... c 14 N73-30388 * #
US-PATENT-CLASS-324-62 ..... c 33 N80-32650 * #
US-PATENT-CLASS-324-64 ..... c 15 N72-21464 * #
US-PATENT-CLASS-324-64 ..... c 33 N80-32650 * #
US-PATENT-CLASS-324-65-P ..... c 35 N85-34373 * #
US-PATENT-CLASS-324-65P ..... c 14 N73-20478 * #
US-PATENT-CLASS-324-65R ..... c 15 N72-23497 * #
US-PATENT-CLASS-324-65R ..... c 33 N85-30187 * #
US-PATENT-CLASS-324-65 ..... c 14 N71-27186 *
US-PATENT-CLASS-324-66 ..... c 05 N72-16015 * #
US-PATENT-CLASS-324-70 ..... c 14 N70-41332 * #
US-PATENT-CLASS-324-70 ..... c 14 N71-22990 *
US-PATENT-CLASS-324-70 ..... c 10 N71-24863 *
US-PATENT-CLASS-324-71.3 ..... c 72 N84-28575 * #
US-PATENT-CLASS-324-71.5 ..... c 76 N85-30923 * #
US-PATENT-CLASS-324-71CP .... c 35 N76-22509 * #

US-PATENT-CLASS-324-71CP .... c 35 N82-11431 * #
US-PATENT-CLASS-324-71R ..... c 09 N72-21246 * #
US-PATENT-CLASS-324-71R ..... c 15 N72-21464 * #
US-PATENT-CLASS-324-71 ..... c 09 N71-24843 *
US-PATENT-CLASS-324-72.5 ..... c 44 N74-27519 * #
US-PATENT-CLASS-324-72.5 ..... c 72 N84-28575 * #
US-PATENT-CLASS-324-72 ..... c 10 N71-19421 *
US-PATENT-CLASS-324-72 ..... c 14 N71-23699 *
US-PATENT-CLASS-324-72 ..... c 07 N73-20175 * #
US-PATENT-CLASS-324-72 ..... c 14 N73-32318 * #
US-PATENT-CLASS-324-72 ..... c 33 N74-27862 * #
US-PATENT-CLASS-324-72 ..... c 33 N75-26246 * #
US-PATENT-CLASS-324-72 ..... c 33 N77-10429 * #
US-PATENT-CLASS-324-72 ..... c 33 N79-10337 * #
US-PATENT-CLASS-324-72 ..... c 33 N79-14305 * #
US-PATENT-CLASS-324-72 ..... c 47 N82-24779 * #
US-PATENT-CLASS-324-73AT .... c 08 N72-22166 * #
US-PATENT-CLASS-324-73AT .... c 33 N81-26359 * #
US-PATENT-CLASS-324-73R ..... c 33 N83-18996 * #
US-PATENT-CLASS-324-73 ..... c 14 N71-28991 *
US-PATENT-CLASS-324-74 ..... c 35 N78-28411 * #
US-PATENT-CLASS-324-77B ..... c 60 N75-13539 * #
US-PATENT-CLASS-324-77B ..... c 32 N79-10262 * #
US-PATENT-CLASS-324-77C ..... c 32 N79-10262 * #
US-PATENT-CLASS-324-77G ..... c 08 N72-20177 * #
US-PATENT-CLASS-324-77H ..... c 35 N75-21582 * #
US-PATENT-CLASS-324-77K ..... c 35 N79-10391 * #
US-PATENT-CLASS-324-77R ..... c 10 N73-25240 * #
US-PATENT-CLASS-324-77R ..... c 47 N82-24779 * #
US-PATENT-CLASS-324-77 ..... c 09 N71-10659 * #
US-PATENT-CLASS-324-77 ..... c 07 N71-24622 *
US-PATENT-CLASS-324-78D ..... c 09 N72-25257 * #
US-PATENT-CLASS-324-78D ..... c 52 N74-12778 * #
US-PATENT-CLASS-324-78E ..... c 14 N73-24473 * #
US-PATENT-CLASS-324-78J ..... c 10 N73-25240 * #
US-PATENT-CLASS-324-78J ..... c 33 N75-19515 * #
US-PATENT-CLASS-324-79D ..... c 14 N73-30386 * #
US-PATENT-CLASS-324-79D ..... c 33 N76-16331 * #
US-PATENT-CLASS-324-79R ..... c 14 N72-27408 * #
US-PATENT-CLASS-324-79R ..... c 33 N84-16454 * #
US-PATENT-CLASS-324-83A ..... c 10 N72-20224 * #
US-PATENT-CLASS-324-83A ..... c 33 N84-16454 * #
US-PATENT-CLASS-324-83D ..... c 33 N79-10338 * #
US-PATENT-CLASS-324-83Q ..... c 35 N74-21017 * #
US-PATENT-CLASS-324-83Q ..... c 33 N75-26243 * #
US-PATENT-CLASS-324-83R ..... c 33 N84-16454 * #
US-PATENT-CLASS-324-85 ..... c 10 N72-20224 * #
US-PATENT-CLASS-324-85 ..... c 33 N79-10338 * #
US-PATENT-CLASS-324-92 ..... c 26 N72-25680 * #
US-PATENT-CLASS-324-95 ..... c 10 N71-12554 * #
US-PATENT-CLASS-324-95 ..... c 14 N73-30388 * #
US-PATENT-CLASS-324-96 ..... c 26 N72-25680 * #
US-PATENT-CLASS-324-96 ..... c 33 N79-10337 * #
US-PATENT-CLASS-324-99D ..... c 33 N79-22373 * #
US-PATENT-CLASS-325-10 ..... c 07 N72-12081 *
US-PATENT-CLASS-325-113 ..... c 07 N71-24840 *
US-PATENT-CLASS-325-113 ..... c 07 N73-25160 * #
US-PATENT-CLASS-325-113 ..... c 52 N74-26625 * #
US-PATENT-CLASS-325-114 ..... c 07 N72-25171 * #
US-PATENT-CLASS-325-114 ..... c 03 N76-32140 * #
US-PATENT-CLASS-325-115 ..... c 03 N76-32140 * #
US-PATENT-CLASS-325-118 ..... c 17 N78-17140 * #
US-PATENT-CLASS-325-12 ..... c 07 N73-20174 * #
US-PATENT-CLASS-325-139 ..... c 07 N73-25160 * #
US-PATENT-CLASS-325-13 ..... c 07 N72-12081 *
US-PATENT-CLASS-325-141 ..... c 07 N72-25173 * #
US-PATENT-CLASS-325-141 ..... c 52 N74-26625 * #
US-PATENT-CLASS-325-143 ..... c 05 N71-12342 * #
US-PATENT-CLASS-325-145 ..... c 32 N77-14292 * #
US-PATENT-CLASS-325-148 ..... c 32 N74-19790 * #
US-PATENT-CLASS-325-14 ..... c 17 N76-21250 * #
US-PATENT-CLASS-325-14 ..... c 32 N80-20448 * #
US-PATENT-CLASS-325-151.11 .. c 08 N71-27057 *
US-PATENT-CLASS-325-159 ..... c 33 N78-32340 * #
US-PATENT-CLASS-325-163 ..... c 07 N71-23405 *
US-PATENT-CLASS-325-16 ..... c 07 N71-27056 *
US-PATENT-CLASS-325-17 ..... c 07 N73-20174 * #
US-PATENT-CLASS-325-185 ..... c 07 N71-28430 *
US-PATENT-CLASS-325-186 ..... c 03 N76-32140 * #
US-PATENT-CLASS-325-187 ..... c 33 N78-32340 * #
US-PATENT-CLASS-325-23 ..... c 07 N71-27056 *
US-PATENT-CLASS-325-29 ..... c 09 N72-22202 * #
US-PATENT-CLASS-325-302 ..... c 07 N72-25173 * #
US-PATENT-CLASS-325-304 ..... c 32 N76-14321 * #
US-PATENT-CLASS-325-305 ..... c 07 N71-10775 * #
US-PATENT-CLASS-325-305 ..... c 10 N71-20841 *
US-PATENT-CLASS-325-305 ..... c 07 N71-23098 *
US-PATENT-CLASS-325-305 ..... c 32 N80-18253 * #
US-PATENT-CLASS-325-306 ..... c 32 N76-14321 * #
US-PATENT-CLASS-325-307 ..... c 32 N80-18253 * #
US-PATENT-CLASS-325-30 ..... c 32 N74-26654 * #
US-PATENT-CLASS-325-30 ..... c 32 N75-24981 * #
US-PATENT-CLASS-325-30 ..... c 32 N77-30308 * #
US-PATENT-CLASS-325-31 ..... c 07 N71-20791 *
US-PATENT-CLASS-325-320 ..... c 33 N74-12887 * #
US-PATENT-CLASS-325-320 ..... c 32 N74-20809 * #
US-PATENT-CLASS-325-320 ..... c 32 N74-20811 * #
US-PATENT-CLASS-325-320 ..... c 33 N74-27705 * #
US-PATENT-CLASS-325-321 ..... c 07 N72-20140 * #
US-PATENT-CLASS-325-321 ..... c 32 N74-20810 * #
US-PATENT-CLASS-325-321 ..... c 32 N76-16249 * #
US-PATENT-CLASS-325-323 ..... c 32 N77-10392 * #
US-PATENT-CLASS-325-325 ..... c 07 N71-24613 *
US-PATENT-CLASS-325-325 ..... c 07 N72-25173 * #
US-PATENT-CLASS-325-325 ..... c 07 N73-13149 * #
US-PATENT-CLASS-325-346 ..... c 10 N73-16205 * #
US-PATENT-CLASS-325-346 ..... c 32 N74-30523 * #
US-PATENT-CLASS-325-346 ..... c 32 N77-24331 * #
US-PATENT-CLASS-325-347 ..... c 07 N71-33696 *
US-PATENT-CLASS-325-348 ..... c 07 N71-33696 *
US-PATENT-CLASS-325-349 ..... c 32 N77-10392 * #
US-PATENT-CLASS-325-363 ..... c 07 N71-11267 * #
US-PATENT-CLASS-325-363 ..... c 14 N71-26774 *
US-PATENT-CLASS-325-363 ..... c 14 N72-28437 * #
US-PATENT-CLASS-325-363 ..... c 10 N73-25241 * #
US-PATENT-CLASS-325-363 ..... c 35 N80-18359 * #
US-PATENT-CLASS-325-369 ..... c 07 N71-27056 *
US-PATENT-CLASS-325-372 ..... c 32 N76-14321 * #
US-PATENT-CLASS-325-373 ..... c 07 N72-33146 * #
US-PATENT-CLASS-325-38B ..... c 35 N74-17885 * #
US-PATENT-CLASS-325-38 ..... c 07 N72-20140 * #
US-PATENT-CLASS-325-38 ..... c 07 N72-25173 * #
US-PATENT-CLASS-325-39 ..... c 07 N72-11149 *
US-PATENT-CLASS-325-40 ..... c 07 N73-26118 * #
US-PATENT-CLASS-325-419 ..... c 10 N73-16205 * #
US-PATENT-CLASS-325-419 ..... c 07 N73-28012 * #
US-PATENT-CLASS-325-419 ..... c 32 N74-20810 * #
US-PATENT-CLASS-325-419 ..... c 32 N74-20811 * #
US-PATENT-CLASS-325-419 ..... c 32 N80-18253 * #
US-PATENT-CLASS-325-41 ..... c 10 N71-26577 *
US-PATENT-CLASS-325-41 ..... c 32 N77-12240 * #
US-PATENT-CLASS-325-41 ..... c 32 N79-10263 * #
US-PATENT-CLASS-325-420 ..... c 07 N73-30113 * #
US-PATENT-CLASS-325-422 ..... c 07 N73-30113 * #
US-PATENT-CLASS-325-423 ..... c 32 N74-20809 * #
US-PATENT-CLASS-325-42 ..... c 07 N71-11266 * #
US-PATENT-CLASS-325-42 ..... c 32 N76-21366 * #
US-PATENT-CLASS-325-42 ..... c 32 N77-30308 * #
US-PATENT-CLASS-325-445 ..... c 07 N72-20141 * #
US-PATENT-CLASS-325-446 ..... c 09 N69-24324 * #
US-PATENT-CLASS-325-45 ..... c 07 N73-25160 * #
US-PATENT-CLASS-325-473 ..... c 07 N71-33696 *
US-PATENT-CLASS-325-473 ..... c 10 N73-12244 * #
US-PATENT-CLASS-325-473 ..... c 32 N77-30308 * #
US-PATENT-CLASS-325-476 ..... c 32 N77-10392 * #
US-PATENT-CLASS-325-478 ..... c 07 N71-33696 *
US-PATENT-CLASS-325-480 ..... c 07 N71-33696 *
US-PATENT-CLASS-325-480 ..... c 10 N73-12244 * #
US-PATENT-CLASS-325-482 ..... c 07 N71-33696 *
US-PATENT-CLASS-325-492 ..... c 09 N72-17153 * #
US-PATENT-CLASS-325-492 ..... c 09 N72-22202 * #
US-PATENT-CLASS-325-4 ..... c 07 N71-16088 *
US-PATENT-CLASS-325-4 ..... c 07 N71-19773 *
US-PATENT-CLASS-325-4 ..... c 07 N71-24621 *
US-PATENT-CLASS-325-4 ..... c 07 N72-11149 *
US-PATENT-CLASS-325-4 ..... c 07 N72-12080 *
US-PATENT-CLASS-325-4 ..... c 07 N72-20140 * #
US-PATENT-CLASS-325-4 ..... c 07 N72-25171 * #
US-PATENT-CLASS-325-4 ..... c 07 N73-20174 * #
US-PATENT-CLASS-325-4 ..... c 15 N75-13007 * #
US-PATENT-CLASS-325-4 ..... c 32 N75-26195 * #
US-PATENT-CLASS-325-4 ..... c 32 N77-20289 * #
US-PATENT-CLASS-325-4 ..... c 32 N79-11265 * #
US-PATENT-CLASS-325-4 ..... c 32 N80-20448 * #
US-PATENT-CLASS-325-51 ..... c 07 N72-25173 * #
US-PATENT-CLASS-325-55 ..... c 07 N72-25173 * #
US-PATENT-CLASS-325-58 ..... c 07 N72-11149 *
US-PATENT-CLASS-325-58 ..... c 07 N72-20140 * #
US-PATENT-CLASS-325-58 ..... c 07 N72-25173 * #
US-PATENT-CLASS-325-58 ..... c 32 N78-15323 * #
US-PATENT-CLASS-325-58 ..... c 32 N79-20296 * #
US-PATENT-CLASS-325-5 ..... c 07 N73-20174 * #
US-PATENT-CLASS-325-60 ..... c 08 N71-19763 *
US-PATENT-CLASS-325-60 ..... c 07 N73-16121 * #
US-PATENT-CLASS-325-60 ..... c 32 N75-24981 * #
US-PATENT-CLASS-325-61 ..... c 07 N73-25160 * #
US-PATENT-CLASS-325-62 ..... c 08 N72-25208 * #
US-PATENT-CLASS-325-62 ..... c 44 N74-19870 * #
US-PATENT-CLASS-325-63 ..... c 10 N71-19467 *
US-PATENT-CLASS-325-63 ..... c 07 N73-20174 * #
US-PATENT-CLASS-325-63 ..... c 32 N78-15323 * #
US-PATENT-CLASS-325-63 ..... c 32 N79-20296 * #
US-PATENT-CLASS-325-64 ..... c 07 N72-25173 * #
US-PATENT-CLASS-325-65 ..... c 07 N70-41331 * #
US-PATENT-CLASS-325-65 ..... c 07 N70-41372 * #
US-PATENT-CLASS-325-65 ..... c 07 N71-11284 * #
US-PATENT-CLASS-325-65 ..... c 32 N77-30308 * #
US-PATENT-CLASS-325-66 ..... c 17 N78-17140 * #
US-PATENT-CLASS-325-67 ..... c 07 N71-26292 *
US-PATENT-CLASS-325-67 ..... c 10 N73-25241 * #
US-PATENT-CLASS-325-67 ..... c 35 N75-21582 * #
US-PATENT-CLASS-325-67 ..... c 32 N79-11265 * #
US-PATENT-CLASS-325-7 ..... c 07 N73-20174 * #
US-PATENT-CLASS-325-8 ..... c 07 N73-20174 * #
US-PATENT-CLASS-325-8 ..... c 32 N80-20448 * #
US-PATENT-CLASS-325-9 ..... c 07 N73-20174 * #
US-PATENT-CLASS-325-9 ..... c 32 N80-20448 * #
US-PATENT-CLASS-328-104 ..... c 08 N72-22162 * #
US-PATENT-CLASS-328-104 ..... c 10 N73-13235 * #
US-PATENT-CLASS-328-106 ..... c 09 N72-22201 * #
US-PATENT-CLASS-328-110 ..... c 09 N71-12519 * #
US-PATENT-CLASS-328-111 ..... c 60 N77-12721 * #
US-PATENT-CLASS-328-115 ..... c 33 N75-18479 * #
US-PATENT-CLASS-328-116 ..... c 09 N69-39885 * #
US-PATENT-CLASS-328-120 ..... c 09 N71-27016 *
US-PATENT-CLASS-328-123 ..... c 60 N74-12888 * #
US-PATENT-CLASS-328-129 ..... c 14 N73-30386 * #
US-PATENT-CLASS-328-133 ..... c 09 N71-24596 *
US-PATENT-CLASS-328-133 ..... c 10 N72-20224 * #
US-PATENT-CLASS-328-133 ..... c 33 N75-26243 * #
US-PATENT-CLASS-328-133 ..... c 33 N77-13315 * #
US-PATENT-CLASS-328-133 ..... c 33 N79-11313 * #
US-PATENT-CLASS-328-133 ..... c 33 N84-16454 * #
US-PATENT-CLASS-328-134 ..... c 08 N71-18692 *
US-PATENT-CLASS-328-134 ..... c 14 N73-30386 * #
US-PATENT-CLASS-328-134 ..... c 33 N76-16331 * #
US-PATENT-CLASS-328-134 ..... c 33 N81-17349 * #
US-PATENT-CLASS-328-136 ..... c 09 N72-25257 * #
US-PATENT-CLASS-328-140 ..... c 09 N72-25257 * #
US-PATENT-CLASS-328-142 ..... c 09 N72-21245 * #
US-PATENT-CLASS-328-145 ..... c 32 N76-14321 * #
US-PATENT-CLASS-328-145 ..... c 09 N72-23173 * #
US-PATENT-CLASS-328-145 ..... c 33 N78-32339 * #
US-PATENT-CLASS-328-150 ..... c 33 N78-18308 * #
US-PATENT-CLASS-328-151 ..... c 09 N72-22200 * #
US-PATENT-CLASS-328-151 ..... c 33 N75-18479 * #
US-PATENT-CLASS-328-151 ..... c 33 N81-27396 * #
US-PATENT-CLASS-328-154 ..... c 08 N72-22162 * #
US-PATENT-CLASS-328-154 ..... c 10 N73-13235 * #
US-PATENT-CLASS-328-154 ..... c 33 N74-22814 * #
US-PATENT-CLASS-328-155 ..... c 10 N72-16172 * #
US-PATENT-CLASS-328-155 ..... c 09 N72-33204 * #
US-PATENT-CLASS-328-155 ..... c 33 N74-17927 * #
US-PATENT-CLASS-328-155 ..... c 17 N76-22245 * #
US-PATENT-CLASS-328-160 ..... c 32 N74-19788 * #
US-PATENT-CLASS-328-161 ..... c 33 N77-17354 * #
US-PATENT-CLASS-328-163 ..... c 33 N79-10338 * #
US-PATENT-CLASS-328-164 ..... c 07 N71-33696 *
US-PATENT-CLASS-328-165 ..... c 09 N71-24806 *
US-PATENT-CLASS-328-165 ..... c 07 N71-33696 *
US-PATENT-CLASS-328-166 ..... c 10 N72-20223 * #
US-PATENT-CLASS-328-166 ..... c 33 N82-29539 * #
US-PATENT-CLASS-328-167 ..... c 10 N71-22986 *
US-PATENT-CLASS-328-167 ..... c 08 N71-29034 *
US-PATENT-CLASS-328-167 ..... c 10 N72-17171 * #
US-PATENT-CLASS-328-167 ..... c 09 N72-21245 * #
US-PATENT-CLASS-328-167 ..... c 09 N73-20231 * #
US-PATENT-CLASS-328-167 ..... c 08 N73-26175 * #
US-PATENT-CLASS-328-167 ..... c 33 N82-24417 * #
US-PATENT-CLASS-328-167 ..... c 33 N85-29145 * #
US-PATENT-CLASS-328-168 ..... c 32 N74-19788 * #
US-PATENT-CLASS-328-16 ..... c 10 N72-20223 * #
US-PATENT-CLASS-328-171 ..... c 10 N71-24844 *
US-PATENT-CLASS-328-172 ..... c 32 N74-19788 * #
US-PATENT-CLASS-328-172 ..... c 33 N78-17294 * #
US-PATENT-CLASS-328-186 ..... c 09 N72-17157 * #
US-PATENT-CLASS-328-187 ..... c 10 N73-20254 * #
US-PATENT-CLASS-328-189 ..... c 14 N72-27408 * #
US-PATENT-CLASS-328-190 ..... c 33 N76-14371 * #
US-PATENT-CLASS-328-192 ..... c 60 N81-15706 * #
US-PATENT-CLASS-328-1 ..... c 23 N71-16099 *
US-PATENT-CLASS-328-1 ..... c 10 N71-19472 *
US-PATENT-CLASS-328-1 ..... c 09 N72-22200 * #
US-PATENT-CLASS-328-207 ..... c 09 N71-28468 *
US-PATENT-CLASS-328-207 ..... c 10 N71-28860 *
US-PATENT-CLASS-328-207 ..... c 09 N71-29139 *
US-PATENT-CLASS-328-207 ..... c 10 N72-20221 * #
US-PATENT-CLASS-328-20 ..... c 10 N72-20223 * #
US-PATENT-CLASS-328-230 ..... c 35 N84-12444 * #
US-PATENT-CLASS-328-233 ..... c 10 N71-22962 *
US-PATENT-CLASS-328-233 ..... c 75 N75-13625 * #
US-PATENT-CLASS-328-233 ..... c 37 N78-17386 * #
US-PATENT-CLASS-328-24 ..... c 09 N72-33204 * #
US-PATENT-CLASS-328-37 ..... c 08 N71-12503 * #
US-PATENT-CLASS-328-37 ..... c 10 N73-20254 * #
US-PATENT-CLASS-328-37 ..... c 33 N76-14373 * #
US-PATENT-CLASS-328-37 ..... c 33 N81-17349 * #
US-PATENT-CLASS-328-38 ..... c 10 N72-20223 * #
US-PATENT-CLASS-328-38 ..... c 33 N77-24375 * #
US-PATENT-CLASS-328-39 ..... c 33 N77-24375 * #
US-PATENT-CLASS-328-4-8 ..... c 33 N77-24375 * #
US-PATENT-CLASS-328-41 ..... c 33 N75-31330 * #
US-PATENT-CLASS-328-42 ..... c 08 N71-19432 *
US-PATENT-CLASS-328-44 ..... c 08 N71-29034 *
US-PATENT-CLASS-328-48 ..... c 14 N73-30386 * #
US-PATENT-CLASS-328-48 ..... c 33 N74-10223 * #
US-PATENT-CLASS-328-48 ..... c 60 N81-15706 * #
US-PATENT-CLASS-328-49 ..... c 10 N71-27137 *

US-PATENT-CLASS-328-55 ..... c 33 N81-17349 * #
US-PATENT-CLASS-328-58 ..... c 08 N71-29138 *
US-PATENT-CLASS-328-58 ..... c 33 N74-32711 * #
US-PATENT-CLASS-328-58 ..... c 33 N75-18479 * #
US-PATENT-CLASS-328-59 ..... c 33 N75-19515 * #
US-PATENT-CLASS-328-61 ..... c 09 N71-23525 *
US-PATENT-CLASS-328-61 ..... c 10 N73-20254 * #
US-PATENT-CLASS-328-61 ..... c 35 N75-30504 * #
US-PATENT-CLASS-328-62 ..... c 35 N75-30504 * #
US-PATENT-CLASS-328-63 ..... c 33 N76-14371 * #
US-PATENT-CLASS-328-63 ..... c 33 N77-24375 * #
US-PATENT-CLASS-328-67 ..... c 10 N71-28960 *
US-PATENT-CLASS-328-67 ..... c 33 N82-24418 * #
US-PATENT-CLASS-328-71 ..... c 60 N81-15706 * #
US-PATENT-CLASS-328-92 ..... c 10 N71-28860 *
US-PATENT-CLASS-329-104 ..... c 07 N71-11282 * #
US-PATENT-CLASS-329-104 ..... c 33 N74-12887 * #
US-PATENT-CLASS-329-104 ..... c 32 N77-24331 * #
US-PATENT-CLASS-329-107 ..... c 35 N81-19427 * #
US-PATENT-CLASS-329-119 ..... c 33 N77-21314 * #
US-PATENT-CLASS-329-120 ..... c 07 N73-30113 * #
US-PATENT-CLASS-329-122 ..... c 10 N71-19469 *
US-PATENT-CLASS-329-122 ..... c 07 N73-28012 * #
US-PATENT-CLASS-329-122 ..... c 33 N74-12887 * #
US-PATENT-CLASS-329-122 ..... c 32 N74-20811 * #
US-PATENT-CLASS-329-122 ..... c 33 N77-14334 * #
US-PATENT-CLASS-329-122 ..... c 32 N77-24331 * #
US-PATENT-CLASS-329-122 ..... c 32 N79-14267 * #
US-PATENT-CLASS-329-122 ..... c 33 N81-33405 * #
US-PATENT-CLASS-329-124 ..... c 33 N77-14334 * #
US-PATENT-CLASS-329-124 ..... c 33 N78-32338 * #
US-PATENT-CLASS-329-124 ..... c 32 N84-27952 * #
US-PATENT-CLASS-329-126 ..... c 33 N74-12887 * #
US-PATENT-CLASS-329-140 ..... c 07 N71-24583 *
US-PATENT-CLASS-329-145 ..... c 07 N71-33696 *
US-PATENT-CLASS-329-161 ..... c 07 N72-20141 * #
US-PATENT-CLASS-329-162 ..... c 07 N72-20141 * #
US-PATENT-CLASS-329-166 ..... c 33 N75-19520 * #
US-PATENT-CLASS-329-166 ..... c 33 N75-25041 * #
US-PATENT-CLASS-329-204 ..... c 33 N75-19520 * #
US-PATENT-CLASS-329-204 ..... c 33 N75-25041 * #
US-PATENT-CLASS-329-205 ..... c 33 N77-21314 * #
US-PATENT-CLASS-329-50 ..... c 33 N74-17930 * #
US-PATENT-CLASS-329-50 ..... c 35 N81-19427 * #
US-PATENT-CLASS-33.8UB ..... c 27 N81-15104 * #
US-PATENT-CLASS-33-DIG.13 .... c 35 N75-12273 * #
US-PATENT-CLASS-33-DIG.3 ..... c 04 N84-14132 * #
US-PATENT-CLASS-33-1G ..... c 37 N76-21554 * #
US-PATENT-CLASS-33-1M ..... c 35 N74-32877 * #
US-PATENT-CLASS-33-1N ..... c 43 N79-26439 * #
US-PATENT-CLASS-33-1Q ..... c 43 N79-26439 * #
US-PATENT-CLASS-33-1SA ..... c 14 N72-28436 * #
US-PATENT-CLASS-33-1SA ..... c 19 N74-21015 * #
US-PATENT-CLASS-33-125R ..... c 52 N80-27072 * #
US-PATENT-CLASS-33-125 ..... c 14 N72-11364 *
US-PATENT-CLASS-33-143C ..... c 52 N82-22875 * #
US-PATENT-CLASS-33-147 ..... c 15 N71-19489 *
US-PATENT-CLASS-33-148D ..... c 35 N75-19615 * #
US-PATENT-CLASS-33-149 ..... c 14 N71-17657 *
US-PATENT-CLASS-33-15A ..... c 08 N72-11172 *
US-PATENT-CLASS-33-155R ..... c 33 N76-19338 * #
US-PATENT-CLASS-33-169F ..... c 35 N84-28018 * #
US-PATENT-CLASS-33-174B ..... c 37 N76-21554 * #
US-PATENT-CLASS-33-174D ..... c 33 N76-19338 * #
US-PATENT-CLASS-33-174L ..... c 43 N79-26439 * #
US-PATENT-CLASS-33-174S ..... c 14 N72-22445 * #
US-PATENT-CLASS-33-174 ..... c 14 N69-21363 * #
US-PATENT-CLASS-33-174 ..... c 14 N71-17658 *
US-PATENT-CLASS-33-174 ..... c 14 N71-24693 *
US-PATENT-CLASS-33-180R ..... c 35 N75-12273 * #
US-PATENT-CLASS-33-189 ..... c 15 N71-26145 *
US-PATENT-CLASS-33-1 ..... c 14 N70-36907 * #
US-PATENT-CLASS-33-204C ..... c 08 N72-11172 *
US-PATENT-CLASS-33-207 ..... c 15 N71-15571 *
US-PATENT-CLASS-33-23R ..... c 35 N74-32877 * #
US-PATENT-CLASS-33-268 ..... c 89 N74-30886 * #
US-PATENT-CLASS-33-285 ..... c 36 N74-21091 * #
US-PATENT-CLASS-33-286 ..... c 18 N76-14186 * #
US-PATENT-CLASS-33-293 ..... c 35 N84-16523 * #
US-PATENT-CLASS-33-31 ..... c 14 N71-21079 *
US-PATENT-CLASS-33-322 ..... c 06 N83-33882 * #
US-PATENT-CLASS-33-348 ..... c 04 N84-14132 * #
US-PATENT-CLASS-33-356 ..... c 04 N76-20114 * #
US-PATENT-CLASS-33-356 ..... c 04 N77-19056 * #
US-PATENT-CLASS-33-356 ..... c 04 N84-14132 * #
US-PATENT-CLASS-33-361 ..... c 04 N84-14132 * #
US-PATENT-CLASS-33-366 ..... c 35 N78-32395 * #
US-PATENT-CLASS-33-46R ..... c 19 N74-21015 * #
US-PATENT-CLASS-33-72 ..... c 15 N72-11386 *
US-PATENT-CLASS-33-75R ..... c 14 N72-28436 * #
US-PATENT-CLASS-33-96 ..... c 33 N75-30430 * #
US-PATENT-CLASS-330-103 ..... c 32 N74-22096 * #
US-PATENT-CLASS-330-107 ..... c 10 N72-11256 *
US-PATENT-CLASS-330-107 ..... c 10 N72-17172 * #
US-PATENT-CLASS-330-107 ..... c 33 N84-14421 * #
US-PATENT-CLASS-330-109 ..... c 10 N72-11256 *
US-PATENT-CLASS-330-109 ..... c 10 N72-17171 * #
US-PATENT-CLASS-330-109 ..... c 10 N72-17172 * #
US-PATENT-CLASS-330-109 ..... c 09 N73-20231 * #
US-PATENT-CLASS-330-109 ..... c 33 N82-24417 * #
US-PATENT-CLASS-330-109 ..... c 33 N84-14421 * #
US-PATENT-CLASS-330-109 ..... c 33 N84-22887 * #
US-PATENT-CLASS-330-10 ..... c 33 N74-14939 * #
US-PATENT-CLASS-330-110 ..... c 33 N83-36356 * #
US-PATENT-CLASS-330-11 ..... c 09 N71-13531 * #
US-PATENT-CLASS-330-11 ..... c 10 N71-33129 *
US-PATENT-CLASS-330-11 ..... c 09 N72-17156 * #
US-PATENT-CLASS-330-124 ..... c 07 N71-28430 *
US-PATENT-CLASS-330-12 ..... c 10 N72-33230 * #
US-PATENT-CLASS-330-13 ..... c 10 N71-26415 *
US-PATENT-CLASS-330-13 ..... c 33 N75-30428 * #
US-PATENT-CLASS-330-14 ..... c 09 N70-35440 * #
US-PATENT-CLASS-330-14 ..... c 33 N77-14335 * #
US-PATENT-CLASS-330-16 ..... c 10 N71-33129 *
US-PATENT-CLASS-330-176 ..... c 10 N72-17171 * #
US-PATENT-CLASS-330-18 ..... c 09 N72-17155 * #
US-PATENT-CLASS-330-18 ..... c 33 N75-30428 * #
US-PATENT-CLASS-330-200 ..... c 07 N71-28430 *
US-PATENT-CLASS-330-207A .... c 33 N75-30429 * #
US-PATENT-CLASS-330-20 ..... c 09 N73-20232 * #
US-PATENT-CLASS-330-22 ..... c 09 N71-10798 * #
US-PATENT-CLASS-330-22 ..... c 09 N73-20232 * #
US-PATENT-CLASS-330-24 ..... c 10 N71-33129 *
US-PATENT-CLASS-330-24 ..... c 33 N75-30429 * #
US-PATENT-CLASS-330-258 ..... c 33 N86-20670 * #
US-PATENT-CLASS-330-261 ..... c 33 N86-20670 * #
US-PATENT-CLASS-330-26 ..... c 10 N72-17172 * #
US-PATENT-CLASS-330-27R ..... c 10 N72-31273 * #
US-PATENT-CLASS-330-277 ..... c 33 N84-22887 * #
US-PATENT-CLASS-330-282 ..... c 33 N83-36356 * #
US-PATENT-CLASS-330-289 ..... c 33 N83-34191 * #
US-PATENT-CLASS-330-289 ..... c 33 N84-16454 * #
US-PATENT-CLASS-330-28 ..... c 33 N74-21851 * #
US-PATENT-CLASS-330-28 ..... c 33 N77-14335 * #
US-PATENT-CLASS-330-290 ..... c 33 N82-24417 * #
US-PATENT-CLASS-330-294 ..... c 33 N82-24417 * #
US-PATENT-CLASS-330-294 ..... c 33 N84-22887 * #
US-PATENT-CLASS-330-29 ..... c 09 N69-24330 * #
US-PATENT-CLASS-330-29 ..... c 10 N72-28241 * #
US-PATENT-CLASS-330-2 ..... c 09 N69-39986 * #
US-PATENT-CLASS-330-2 ..... c 09 N72-25250 * #
US-PATENT-CLASS-330-2 ..... c 33 N78-10375 * #
US-PATENT-CLASS-330-2 ..... c 33 N79-22373 * #
US-PATENT-CLASS-330-30D ..... c 10 N72-20221 * #
US-PATENT-CLASS-330-30D ..... c 09 N73-20232 * #
US-PATENT-CLASS-330-302 ..... c 33 N85-29145 * #
US-PATENT-CLASS-330-306 ..... c 33 N82-24417 * #
US-PATENT-CLASS-330-306 ..... c 33 N85-29145 * #
US-PATENT-CLASS-330-30 ..... c 09 N71-19466 *
US-PATENT-CLASS-330-30 ..... c 09 N71-19516 *
US-PATENT-CLASS-330-30 ..... c 09 N71-27016 *
US-PATENT-CLASS-330-310 ..... c 33 N83-34191 * #
US-PATENT-CLASS-330-311 ..... c 33 N86-20670 * #
US-PATENT-CLASS-330-31 ..... c 10 N71-26331 *
US-PATENT-CLASS-330-31 ..... c 10 N72-17172 * #
US-PATENT-CLASS-330-35 ..... c 09 N72-17156 * #
US-PATENT-CLASS-330-35 ..... c 09 N73-20232 * #
US-PATENT-CLASS-330-35 ..... c 33 N74-14939 * #
US-PATENT-CLASS-330-4.3 ..... c 16 N73-32391 * #
US-PATENT-CLASS-330-4.3 ..... c 36 N75-19655 * #
US-PATENT-CLASS-330-4.3 ..... c 36 N75-27364 * #
US-PATENT-CLASS-330-4.3 ..... c 36 N75-32441 * #
US-PATENT-CLASS-330-4.3 ..... c 36 N76-29575 * #
US-PATENT-CLASS-330-4.3 ..... c 36 N77-25502 * #
US-PATENT-CLASS-330-4.3 ..... c 73 N78-19920 * #
US-PATENT-CLASS-330-4.3 ..... c 36 N82-28616 * #
US-PATENT-CLASS-330-4.5 ..... c 09 N72-25258 * #
US-PATENT-CLASS-330-4.9 ..... c 33 N74-32660 * #
US-PATENT-CLASS-330-40 ..... c 07 N71-28430 *
US-PATENT-CLASS-330-40 ..... c 09 N72-17155 * #
US-PATENT-CLASS-330-40 ..... c 09 N73-20232 * #
US-PATENT-CLASS-330-40 ..... c 33 N75-30428 * #
US-PATENT-CLASS-330-43 ..... c 33 N79-10339 * #
US-PATENT-CLASS-330-43 ..... c 33 N82-26568 * #
US-PATENT-CLASS-330-43 ..... c 33 N86-21742 * #
US-PATENT-CLASS-330-49 ..... c 14 N70-35220 * #
US-PATENT-CLASS-330-4 ..... c 16 N71-15550 *
US-PATENT-CLASS-330-4 ..... c 16 N71-24831 *
US-PATENT-CLASS-330-4 ..... c 16 N72-28521 * #
US-PATENT-CLASS-330-4 ..... c 36 N75-15029 * #
US-PATENT-CLASS-330-4 ..... c 36 N76-31512 * #
US-PATENT-CLASS-330-4 ..... c 36 N78-18410 * #
US-PATENT-CLASS-330-4 ..... c 36 N80-18372 * #
US-PATENT-CLASS-330-4 ..... c 36 N83-35350 * #
US-PATENT-CLASS-330-5.5 ..... c 71 N77-26919 * #
US-PATENT-CLASS-330-51 ..... c 10 N71-28859 *
US-PATENT-CLASS-330-51 ..... c 33 N79-22373 * #
US-PATENT-CLASS-330-52 ..... c 71 N78-14867 * #
US-PATENT-CLASS-330-53 ..... c 33 N74-32660 * #
US-PATENT-CLASS-330-59 ..... c 09 N72-25250 * #
US-PATENT-CLASS-330-59 ..... c 33 N74-21851 * #
US-PATENT-CLASS-330-59 ..... c 33 N77-14335 * #
US-PATENT-CLASS-330-5 ..... c 33 N75-27251 * #
US-PATENT-CLASS-330-61 ..... c 09 N71-23097 *
US-PATENT-CLASS-330-63 ..... c 33 N75-30428 * #
US-PATENT-CLASS-330-69 ..... c 33 N74-32712 * #
US-PATENT-CLASS-330-69 ..... c 33 N75-19518 * #
US-PATENT-CLASS-330-6 ..... c 35 N75-13213 * #
US-PATENT-CLASS-330-70CR .... c 10 N73-27171 * #
US-PATENT-CLASS-330-70R ..... c 09 N72-21245 * #
US-PATENT-CLASS-330-80T ..... c 09 N73-20232 * #
US-PATENT-CLASS-330-85 ..... c 09 N72-21245 * #
US-PATENT-CLASS-330-86 ..... c 09 N73-20231 * #
US-PATENT-CLASS-330-86 ..... c 33 N75-19518 * #
US-PATENT-CLASS-330-86 ..... c 33 N79-22373 * #
US-PATENT-CLASS-330-8 ..... c 33 N81-24338 * #
US-PATENT-CLASS-330-94 ..... c 10 N72-17172 * #
US-PATENT-CLASS-330-9 ..... c 33 N74-14939 * #
US-PATENT-CLASS-331-DIG.1 .... c 36 N75-30524 * #
US-PATENT-CLASS-331-DIG.2 .... c 33 N81-33405 * #
US-PATENT-CLASS-331-1-A ..... c 33 N86-20668 * #
US-PATENT-CLASS-331-1A ..... c 33 N74-10194 * #
US-PATENT-CLASS-331-1A ..... c 33 N75-25040 * #
US-PATENT-CLASS-331-1A ..... c 33 N79-11313 * #
US-PATENT-CLASS-331-107A .... c 71 N77-26919 * #
US-PATENT-CLASS-331-107G .... c 26 N72-25679 * #
US-PATENT-CLASS-331-107G .... c 09 N73-15235 * #
US-PATENT-CLASS-331-107 ..... c 09 N71-18721 *
US-PATENT-CLASS-331-107 ..... c 26 N72-21701 * #
US-PATENT-CLASS-331-108A .... c 33 N74-20862 * #
US-PATENT-CLASS-331-109 ..... c 10 N71-27271 *
US-PATENT-CLASS-331-109 ..... c 33 N74-26732 * #
US-PATENT-CLASS-331-10 ..... c 07 N72-11150 *
US-PATENT-CLASS-331-111 ..... c 10 N71-23669 *
US-PATENT-CLASS-331-111 ..... c 09 N72-21247 * #
US-PATENT-CLASS-331-113A .... c 09 N72-25253 * #
US-PATENT-CLASS-331-113A .... c 09 N72-25254 * #
US-PATENT-CLASS-331-113A .... c 33 N74-11049 * #
US-PATENT-CLASS-331-113R .... c 33 N82-18494 * #
US-PATENT-CLASS-331-113 ..... c 09 N70-38995 * #
US-PATENT-CLASS-331-113 ..... c 10 N71-19418 *
US-PATENT-CLASS-331-113 ..... c 09 N71-19470 *
US-PATENT-CLASS-331-113 ..... c 10 N71-25882 *
US-PATENT-CLASS-331-113 ..... c 10 N71-25950 *
US-PATENT-CLASS-331-113 ..... c 09 N71-28810 *
US-PATENT-CLASS-331-114 ..... c 33 N77-17351 * #
US-PATENT-CLASS-331-115 ..... c 10 N72-33230 * #
US-PATENT-CLASS-331-115 ..... c 33 N74-20862 * #
US-PATENT-CLASS-331-116-FE . c 33 N86-19515 * #
US-PATENT-CLASS-331-116R .... c 10 N72-33230 * #
US-PATENT-CLASS-331-116R .... c 33 N74-20862 * #
US-PATENT-CLASS-331-117-FE . c 33 N86-19515 * #
US-PATENT-CLASS-331-117R .... c 33 N74-26732 * #
US-PATENT-CLASS-331-117 ..... c 10 N71-27271 *
US-PATENT-CLASS-331-117 ..... c 09 N72-22203 * #
US-PATENT-CLASS-331-12 ..... c 33 N78-32338 * #
US-PATENT-CLASS-331-135 ..... c 10 N73-32145 * #
US-PATENT-CLASS-331-14 ..... c 09 N72-21247 * #
US-PATENT-CLASS-331-14 ..... c 33 N74-10194 * #
US-PATENT-CLASS-331-14 ..... c 33 N79-11313 * #
US-PATENT-CLASS-331-159 ..... c 33 N74-20862 * #
US-PATENT-CLASS-331-177R .... c 09 N73-15235 * #
US-PATENT-CLASS-331-177V .... c 33 N77-17351 * #
US-PATENT-CLASS-331-177 ..... c 10 N71-27271 *
US-PATENT-CLASS-331-178 ..... c 33 N74-10194 * #
US-PATENT-CLASS-331-17 ..... c 10 N71-20852 *
US-PATENT-CLASS-331-17 ..... c 10 N73-27171 * #
US-PATENT-CLASS-331-17 ..... c 33 N74-10194 * #
US-PATENT-CLASS-331-183 ..... c 33 N74-26732 * #
US-PATENT-CLASS-331-18 ..... c 10 N71-26374 *
US-PATENT-CLASS-331-18 ..... c 33 N74-10194 * #
US-PATENT-CLASS-331-18 ..... c 33 N75-25040 * #
US-PATENT-CLASS-331-23 ..... c 09 N72-21247 * #
US-PATENT-CLASS-331-23 ..... c 33 N77-14334 * #
US-PATENT-CLASS-331-23 ..... c 33 N79-11313 * #
US-PATENT-CLASS-331-25 ..... c 10 N73-27171 * #
US-PATENT-CLASS-331-25 ..... c 33 N75-25040 * #
US-PATENT-CLASS-331-27 ..... c 33 N79-11313 * #
US-PATENT-CLASS-331-2 ..... c 33 N86-20668 * #
US-PATENT-CLASS-331-30 ..... c 09 N72-21247 * #
US-PATENT-CLASS-331-31 ..... c 33 N85-29143 * #
US-PATENT-CLASS-331-34 ..... c 07 N72-11150 *
US-PATENT-CLASS-331-36C ..... c 33 N77-14334 * #
US-PATENT-CLASS-331-36C ..... c 33 N85-29143 * #
US-PATENT-CLASS-331-3 ..... c 35 N76-15436 * #
US-PATENT-CLASS-331-3 ..... c 33 N85-29143 * #
US-PATENT-CLASS-331-44 ..... c 14 N72-27408 * #
US-PATENT-CLASS-331-45 ..... c 10 N73-16206 * #
US-PATENT-CLASS-331-48 ..... c 33 N81-17349 * #
US-PATENT-CLASS-331-4 ..... c 09 N69-21543 * #
US-PATENT-CLASS-331-4 ..... c 33 N74-10194 * #
US-PATENT-CLASS-331-4 ..... c 33 N78-32338 * #
US-PATENT-CLASS-331-62 ..... c 33 N74-11049 * #
US-PATENT-CLASS-331-64 ..... c 33 N78-32338 * #
US-PATENT-CLASS-331-65 ..... c 35 N75-29380 * #
US-PATENT-CLASS-331-65 ..... c 33 N80-23559 * #
US-PATENT-CLASS-331-66 ..... c 07 N72-11150 *
US-PATENT-CLASS-331-78 ..... c 09 N71-23598 *

US-PATENT-CLASS-331-78 ..... c 08 N73-12175 * #
US-PATENT-CLASS-331-78 ..... c 33 N75-19515 * #
US-PATENT-CLASS-331-7 ..... c 07 N72-11150 *
US-PATENT-CLASS-331-82 ..... c 33 N84-27974 * #
US-PATENT-CLASS-331-90 ..... c 09 N73-15235 * #
US-PATENT-CLASS-331-94.1 ..... c 33 N85-29143 * #
US-PATENT-CLASS-331-94.5A ... c 16 N73-33397 * #
US-PATENT-CLASS-331-94.5A ... c 36 N75-27364 * #
US-PATENT-CLASS-331-94.5C ... c 36 N75-31427 * #
US-PATENT-CLASS-331-94.5C ... c 36 N76-18428 * #
US-PATENT-CLASS-331-94.5C ... c 36 N76-24553 * #
US-PATENT-CLASS-331-94.5C ... c 36 N76-29575 * #
US-PATENT-CLASS-331-94.5C ... c 36 N80-14384 * #
US-PATENT-CLASS-331-94.5C ... c 36 N82-13415 * #
US-PATENT-CLASS-331-94.5D ... c 33 N74-20859 * #
US-PATENT-CLASS-331-94.5D ... c 36 N77-19416 * #
US-PATENT-CLASS-331-94.5D ... c 36 N77-25502 * #
US-PATENT-CLASS-331-94.5D ... c 35 N77-27366 * #
US-PATENT-CLASS-331-94.5D ... c 36 N82-13415 * #
US-PATENT-CLASS-331-94.5G ... c 36 N75-31426 * #
US-PATENT-CLASS-331-94.5G ... c 36 N77-19416 * #
US-PATENT-CLASS-331-94.5G ... c 36 N78-17366 * #
US-PATENT-CLASS-331-94.5G ... c 36 N78-27402 * #
US-PATENT-CLASS-331-94.5G ... c 36 N79-18307 * #
US-PATENT-CLASS-331-94.5G ... c 33 N82-24418 * #
US-PATENT-CLASS-331-94.5K ... c 36 N74-15145 * #
US-PATENT-CLASS-331-94.5L .... c 72 N79-13826 * #
US-PATENT-CLASS-331-94.5M ... c 36 N75-19654 * #
US-PATENT-CLASS-331-94.5PE . c 36 N75-32441 * #
US-PATENT-CLASS-331-94.5PE . c 36 N77-19416 * #
US-PATENT-CLASS-331-94.5PE . c 36 N78-27402 * #
US-PATENT-CLASS-331-94.5PE . c 72 N79-13826 * #
US-PATENT-CLASS-331-94.5PE . c 33 N82-24418 * #
US-PATENT-CLASS-331-94.5P .... c 36 N75-19655 * #
US-PATENT-CLASS-331-94.5P .... c 36 N75-31426 * #
US-PATENT-CLASS-331-94.5P .... c 36 N77-25502 * #
US-PATENT-CLASS-331-94.5P .... c 36 N78-27402 * #
US-PATENT-CLASS-331-94.5P .... c 72 N79-13826 * #
US-PATENT-CLASS-331-94.5P .... c 36 N79-18307 * #
US-PATENT-CLASS-331-94.5P .... c 36 N80-14384 * #
US-PATENT-CLASS-331-94.5P .... c 36 N82-13415 * #
US-PATENT-CLASS-331-94.5S .... c 36 N74-15145 * #
US-PATENT-CLASS-331-94.5S .... c 36 N77-25499 * #
US-PATENT-CLASS-331-94.5T .... c 35 N77-27366 * #
US-PATENT-CLASS-331-94.5T .... c 36 N78-17366 * #
US-PATENT-CLASS-331-94.5 ..... c 16 N71-18614 * #
US-PATENT-CLASS-331-94.5 ..... c 16 N71-24832 *
US-PATENT-CLASS-331-94.5 ..... c 23 N71-26722 *
US-PATENT-CLASS-331-94.5 ..... c 15 N71-27135 *
US-PATENT-CLASS-331-94.5 ..... c 23 N71-29125 *
US-PATENT-CLASS-331-94.5 ..... c 16 N71-33410 *
US-PATENT-CLASS-331-94.5 ..... c 16 N72-12440 *
US-PATENT-CLASS-331-94.5 ..... c 25 N72-24753 * #
US-PATENT-CLASS-331-94.5 ..... c 16 N72-25485 * #
US-PATENT-CLASS-331-94.5 ..... c 07 N73-26119 * #
US-PATENT-CLASS-331-94.5 ..... c 09 N73-32111 * #
US-PATENT-CLASS-331-94.5 ..... c 16 N73-32391 * #
US-PATENT-CLASS-331-94.5 ..... c 36 N76-18427 * #
US-PATENT-CLASS-331-94-5G ... c 36 N75-32441 * #
US-PATENT-CLASS-331-94 ..... c 16 N70-41578 * #
US-PATENT-CLASS-331-94 ..... c 16 N72-28521 * #
US-PATENT-CLASS-331-94 ..... c 16 N73-13489 * #
US-PATENT-CLASS-331-94 ..... c 35 N76-15436 * #
US-PATENT-CLASS-331-94 ..... c 36 N76-31512 * #
US-PATENT-CLASS-331-94 ..... c 36 N79-14362 * #
US-PATENT-CLASS-331-94 ..... c 36 N80-18372 * #
US-PATENT-CLASS-331-96 ..... c 33 N85-29143 * #
US-PATENT-CLASS-332-10 ..... c 08 N71-29138 *
US-PATENT-CLASS-332-11D ..... c 35 N74-17885 * #
US-PATENT-CLASS-332-16 ..... c 33 N77-21314 * #
US-PATENT-CLASS-332-18 ..... c 33 N77-17351 * #
US-PATENT-CLASS-332-19 ..... c 10 N71-23544 *
US-PATENT-CLASS-332-1 ..... c 10 N71-23084 *
US-PATENT-CLASS-332-21 ..... c 08 N72-25208 * #
US-PATENT-CLASS-332-22 ..... c 32 N77-14292 * #
US-PATENT-CLASS-332-22 ..... c 33 N81-15192 * #
US-PATENT-CLASS-332-23R ..... c 32 N77-14292 * #
US-PATENT-CLASS-332-23R ..... c 33 N81-15192 * #
US-PATENT-CLASS-332-29 ..... c 07 N71-28429 *
US-PATENT-CLASS-332-2 ..... c 35 N75-19614 * #
US-PATENT-CLASS-332-30V ..... c 33 N77-14334 * #
US-PATENT-CLASS-332-30V ..... c 33 N77-17351 * #
US-PATENT-CLASS-332-30 ..... c 10 N71-27271 *
US-PATENT-CLASS-332-30 ..... c 07 N71-28429 *
US-PATENT-CLASS-332-30 ..... c 33 N77-21314 * #
US-PATENT-CLASS-332-31 ..... c 08 N71-12500 * #
US-PATENT-CLASS-332-31 ..... c 26 N72-21701 * #
US-PATENT-CLASS-332-47 ..... c 33 N75-19520 * #
US-PATENT-CLASS-332-51W ..... c 07 N72-20141 * #
US-PATENT-CLASS-332-52 ..... c 33 N77-21314 * #
US-PATENT-CLASS-332-7.51 ..... c 16 N72-25485 * #
US-PATENT-CLASS-332-7.51 ..... c 07 N73-26119 * #
US-PATENT-CLASS-332-7.51 ..... c 33 N74-20859 * #
US-PATENT-CLASS-332-7.51 ..... c 36 N76-18427 * #
US-PATENT-CLASS-332-7.5 ..... c 36 N75-15029 * #
US-PATENT-CLASS-332-7.5 ..... c 36 N78-18410 * #
US-PATENT-CLASS-332-7.5 ..... c 36 N83-35350 * #
US-PATENT-CLASS-332-751 ..... c 36 N80-16321 * #
US-PATENT-CLASS-332-9R ..... c 08 N71-29138 *
US-PATENT-CLASS-332-9 ..... c 07 N71-12390 * #
US-PATENT-CLASS-333-104 ..... c 33 N82-16340 * #
US-PATENT-CLASS-333-12 ..... c 32 N80-32605 * #
US-PATENT-CLASS-333-12 ..... c 33 N81-27397 * #
US-PATENT-CLASS-333-14 ..... c 32 N74-19788 * #
US-PATENT-CLASS-333-162 ..... c 33 N84-16452 * #
US-PATENT-CLASS-333-162 ..... c 33 N84-27974 * #
US-PATENT-CLASS-333-16 ..... c 33 N74-17927 * #
US-PATENT-CLASS-333-17R ..... c 33 N78-32340 * #
US-PATENT-CLASS-333-17 ..... c 44 N74-19870 * #
US-PATENT-CLASS-333-18 ..... c 33 N74-17927 * #
US-PATENT-CLASS-333-18 ..... c 32 N76-21366 * #
US-PATENT-CLASS-333-204 ..... c 33 N81-17348 * #
US-PATENT-CLASS-333-20 ..... c 33 N82-24418 * #
US-PATENT-CLASS-333-21A ..... c 07 N71-33606 *
US-PATENT-CLASS-333-21R ..... c 33 N75-30430 * #
US-PATENT-CLASS-333-21 ..... c 07 N71-10676 * #
US-PATENT-CLASS-333-22F ..... c 32 N83-27085 * #
US-PATENT-CLASS-333-231 ..... c 33 N85-29143 * #
US-PATENT-CLASS-333-24.2 ..... c 36 N83-35350 * #
US-PATENT-CLASS-333-24R ..... c 09 N72-29172 * #
US-PATENT-CLASS-333-24R ..... c 36 N80-18372 * #
US-PATENT-CLASS-333-246 ..... c 33 N82-16340 * #
US-PATENT-CLASS-333-252 ..... c 32 N80-32605 * #
US-PATENT-CLASS-333-254 ..... c 32 N83-27085 * #
US-PATENT-CLASS-333-262 ..... c 33 N80-18285 * #
US-PATENT-CLASS-333-30 ..... c 10 N71-25900 *
US-PATENT-CLASS-333-6 ..... c 07 N71-33606 *
US-PATENT-CLASS-333-70CR .... c 10 N72-17171 * #
US-PATENT-CLASS-333-70R ..... c 32 N77-18307 * #
US-PATENT-CLASS-333-72 ..... c 10 N71-25900 *
US-PATENT-CLASS-333-72 ..... c 71 N77-26919 * #
US-PATENT-CLASS-333-73R ..... c 09 N73-26195 * #
US-PATENT-CLASS-333-73S ..... c 09 N73-26195 * #
US-PATENT-CLASS-333-73W ..... c 07 N72-20141 * #
US-PATENT-CLASS-333-73 ..... c 07 N69-24323 * #
US-PATENT-CLASS-333-73 ..... c 09 N71-23573 *
US-PATENT-CLASS-333-75 ..... c 32 N77-18307 * #
US-PATENT-CLASS-333-76 ..... c 32 N77-18307 * #
US-PATENT-CLASS-333-79 ..... c 10 N70-41964 * #
US-PATENT-CLASS-333-79 ..... c 09 N72-25256 * #
US-PATENT-CLASS-333-7 ..... c 07 N71-33606 *
US-PATENT-CLASS-333-7 ..... c 07 N72-25170 * #
US-PATENT-CLASS-333-80R ..... c 33 N74-32712 * #
US-PATENT-CLASS-333-80T ..... c 10 N72-33230 * #
US-PATENT-CLASS-333-80 ..... c 09 N71-12517 * #
US-PATENT-CLASS-333-80 ..... c 09 N72-21245 * #
US-PATENT-CLASS-333-81B ..... c 14 N73-13420 * #
US-PATENT-CLASS-333-81R ..... c 07 N72-25170 * #
US-PATENT-CLASS-333-81R ..... c 33 N78-32340 * #
US-PATENT-CLASS-333-81R ..... c 32 N80-14281 * #
US-PATENT-CLASS-333-81 ..... c 07 N71-29065 *
US-PATENT-CLASS-333-82A ..... c 09 N73-26195 * #
US-PATENT-CLASS-333-82B ..... c 32 N77-18307 * #
US-PATENT-CLASS-333-83BT .... c 33 N75-30430 * #
US-PATENT-CLASS-333-83R ..... c 36 N74-11313 * #
US-PATENT-CLASS-333-83 ..... c 09 N71-24841 *
US-PATENT-CLASS-333-84M ..... c 09 N73-26195 * #
US-PATENT-CLASS-333-8 ..... c 07 N69-24334 * #
US-PATENT-CLASS-333-95 ..... c 07 N71-27191 *
US-PATENT-CLASS-333-96 ..... c 09 N71-20445 *
US-PATENT-CLASS-333-96 ..... c 07 N71-27191 *
US-PATENT-CLASS-333-97R ..... c 36 N74-11313 * #
US-PATENT-CLASS-333-97 ..... c 07 N69-27462 * #
US-PATENT-CLASS-333-98P ..... c 07 N72-25170 * #
US-PATENT-CLASS-333-98P ..... c 09 N72-29172 * #
US-PATENT-CLASS-333-98R ..... c 07 N72-25170 * #
US-PATENT-CLASS-333-98R ..... c 09 N72-29172 * #
US-PATENT-CLASS-333-98R ..... c 14 N73-13420 * #
US-PATENT-CLASS-333-98R ..... c 33 N75-30430 * #
US-PATENT-CLASS-333-98S ..... c 07 N72-25170 * #
US-PATENT-CLASS-333-98 ..... c 09 N71-23548 *
US-PATENT-CLASS-333-98 ..... c 09 N71-24808 *
US-PATENT-CLASS-333-99S ..... c 32 N80-32605 * #
US-PATENT-CLASS-335-100 ..... c 37 N85-30333 * #
US-PATENT-CLASS-335-205 ..... c 09 N72-20199 * #
US-PATENT-CLASS-335-216 ..... c 16 N71-28554 *
US-PATENT-CLASS-335-216 ..... c 23 N71-29049 *
US-PATENT-CLASS-335-216 ..... c 26 N73-32571 * #
US-PATENT-CLASS-335-216 ..... c 20 N75-24837 * #
US-PATENT-CLASS-335-216 ..... c 33 N79-21264 * #
US-PATENT-CLASS-335-222 ..... c 35 N84-28017 * #
US-PATENT-CLASS-335-229 ..... c 33 N82-24421 * #
US-PATENT-CLASS-335-256 ..... c 33 N82-11357 * #
US-PATENT-CLASS-335-266 ..... c 33 N82-11357 * #
US-PATENT-CLASS-335-266 ..... c 33 N82-24421 * #
US-PATENT-CLASS-335-296 ..... c 09 N73-30185 * #
US-PATENT-CLASS-335-297 ..... c 09 N73-30185 * #
US-PATENT-CLASS-335-300 ..... c 09 N70-41929 * #
US-PATENT-CLASS-336-DIG.1 .... c 26 N73-26752 * #
US-PATENT-CLASS-336-DIG.1 .... c 33 N79-17133 * #
US-PATENT-CLASS-336-120 ..... c 33 N82-24422 * #
US-PATENT-CLASS-336-178 ..... c 09 N72-17154 * #
US-PATENT-CLASS-336-198 ..... c 09 N72-27226 * #
US-PATENT-CLASS-336-198 ..... c 33 N85-29146 * #
US-PATENT-CLASS-336-200 ..... c 26 N73-26752 * #
US-PATENT-CLASS-336-210 ..... c 33 N74-17928 * #
US-PATENT-CLASS-336-220 ..... c 09 N72-27226 * #
US-PATENT-CLASS-336-60 ..... c 09 N72-27226 * #
US-PATENT-CLASS-336-83 ..... c 33 N82-24422 * #
US-PATENT-CLASS-336-84C ..... c 33 N85-29146 * #
US-PATENT-CLASS-337-114 ..... c 09 N71-29035 *
US-PATENT-CLASS-337-121 ..... c 09 N71-29035 *
US-PATENT-CLASS-337-140 ..... c 37 N86-19604 * #
US-PATENT-CLASS-337-14 ..... c 31 N83-31897 * #
US-PATENT-CLASS-337-334 ..... c 37 N77-19458 * #
US-PATENT-CLASS-337-354 ..... c 15 N72-12409 *
US-PATENT-CLASS-337-359 ..... c 15 N72-12409 *
US-PATENT-CLASS-337-75 ..... c 15 N72-12409 *
US-PATENT-CLASS-337 ..... c 25 N79-28253 * #
US-PATENT-CLASS-338-100 ..... c 35 N78-17359 * #
US-PATENT-CLASS-338-114 ..... c 52 N74-27864 * #
US-PATENT-CLASS-338-13 ..... c 24 N75-30260 * #
US-PATENT-CLASS-338-162 ..... c 37 N75-13265 * #
US-PATENT-CLASS-338-18 ..... c 35 N79-33449 * #
US-PATENT-CLASS-338-229 ..... c 35 N77-24454 * #
US-PATENT-CLASS-338-25 ..... c 35 N77-21393 * #
US-PATENT-CLASS-338-25 ..... c 35 N82-24470 * #
US-PATENT-CLASS-338-275 ..... c 35 N82-24470 * #
US-PATENT-CLASS-338-283 ..... c 24 N75-30260 * #
US-PATENT-CLASS-338-28 ..... c 35 N77-20400 * #
US-PATENT-CLASS-338-28 ..... c 35 N77-24454 * #
US-PATENT-CLASS-338-28 ..... c 35 N82-24470 * #
US-PATENT-CLASS-338-2 ..... c 33 N75-31329 * #
US-PATENT-CLASS-338-2 ..... c 35 N80-20560 * #
US-PATENT-CLASS-338-2 ..... c 52 N80-27072 * #
US-PATENT-CLASS-338-2 ..... c 35 N84-12443 * #
US-PATENT-CLASS-338-309 ..... c 27 N84-33589 * #
US-PATENT-CLASS-338-32S ..... c 33 N78-13320 * #
US-PATENT-CLASS-338-320 ..... c 33 N74-14935 * #
US-PATENT-CLASS-338-36 ..... c 35 N78-17359 * #
US-PATENT-CLASS-338-5 ..... c 32 N71-15974 *
US-PATENT-CLASS-338-5 ..... c 52 N74-27864 * #
US-PATENT-CLASS-338-64 ..... c 09 N71-21583 *
US-PATENT-CLASS-338-6 ..... c 35 N76-14430 * #
US-PATENT-CLASS-338-6 ..... c 52 N76-29895 * #
US-PATENT-CLASS-338-75 ..... c 37 N75-13265 * #
US-PATENT-CLASS-338-82 ..... c 09 N71-20842 *
US-PATENT-CLASS-338-89 ..... c 35 N74-32877 * #
US-PATENT-CLASS-338-97 ..... c 37 N75-13265 * #
US-PATENT-CLASS-338-99 ..... c 35 N78-17359 * #
US-PATENT-CLASS-339-143C .... c 33 N76-16332 * #
US-PATENT-CLASS-339-143R .... c 09 N72-25256 * #
US-PATENT-CLASS-339-147R .... c 09 N72-25256 * #
US-PATENT-CLASS-339-150 ..... c 09 N69-21470 * #
US-PATENT-CLASS-339-17M ..... c 37 N76-27567 * #
US-PATENT-CLASS-339-17R ..... c 15 N71-29133 *
US-PATENT-CLASS-339-176MF . c 09 N72-28225 * #
US-PATENT-CLASS-339-176M .... c 15 N72-17455 * #
US-PATENT-CLASS-339-176 ..... c 09 N70-34596 * #
US-PATENT-CLASS-339-176 ..... c 09 N70-36494 * #
US-PATENT-CLASS-339-177 ..... c 09 N71-20851 *
US-PATENT-CLASS-339-17 ..... c 14 N69-27431 * #
US-PATENT-CLASS-339-17 ..... c 15 N71-17685 *
US-PATENT-CLASS-339-17 ..... c 09 N71-26133 *
US-PATENT-CLASS-339-18C ..... c 37 N76-27567 * #
US-PATENT-CLASS-339-198R .... c 33 N76-16332 * #
US-PATENT-CLASS-339-218M .... c 09 N72-28225 * #
US-PATENT-CLASS-339-242 ..... c 33 N76-16332 * #
US-PATENT-CLASS-339-252R .... c 52 N77-14738 * #
US-PATENT-CLASS-339-258RR . c 33 N84-14423 * #
US-PATENT-CLASS-339-262RR . c 33 N84-14423 * #
US-PATENT-CLASS-339-275R .... c 33 N76-16332 * #
US-PATENT-CLASS-339-275T .... c 09 N72-20200 * #
US-PATENT-CLASS-339-276T .... c 09 N72-20200 * #
US-PATENT-CLASS-339-278M .... c 15 N72-17455 * #
US-PATENT-CLASS-339-3R ..... c 07 N83-20944 * #
US-PATENT-CLASS-339-45M ..... c 15 N72-25450 * #
US-PATENT-CLASS-339-46 ..... c 15 N72-17455 * #
US-PATENT-CLASS-339-5R ..... c 07 N83-20944 * #
US-PATENT-CLASS-339-5 ..... c 15 N71-23049 *
US-PATENT-CLASS-339-64M ..... c 33 N84-14423 * #
US-PATENT-CLASS-339-75MP .... c 09 N72-28225 * #
US-PATENT-CLASS-339-91B ..... c 15 N72-25450 * #
US-PATENT-CLASS-339-91 ..... c 09 N69-21927 * #
US-PATENT-CLASS-339-94M ..... c 09 N72-28225 * #
US-PATENT-CLASS-339-95 ..... c 09 N69-39734 * #
US-PATENT-CLASS-339,12R ..... c 52 N77-25772 * #
US-PATENT-CLASS-34-155 ..... c 14 N73-28489 * #
US-PATENT-CLASS-34-15 ..... c 28 N78-24365 * #
US-PATENT-CLASS-34-160 ..... c 14 N73-28489 * #
US-PATENT-CLASS-34-162 ..... c 14 N73-28489 * #
US-PATENT-CLASS-34-162 ..... c 35 N74-15831 * #
US-PATENT-CLASS-34-57A ..... c 35 N83-24828 * #
US-PATENT-CLASS-340-12R ..... c 35 N74-16135 * #
US-PATENT-CLASS-340-12R ..... c 46 N79-23555 * #
US-PATENT-CLASS-340-146.1AL c 08 N72-25210 * #
US-PATENT-CLASS-340-146.1AL c 08 N73-12175 * #
US-PATENT-CLASS-340-146.1AL c 32 N77-12240 * #

US-PATENT-CLASS-340-146.1AQ c 08 N73-12177 * #
US-PATENT-CLASS-340-146.1AQ c 32 N74-32598 * #
US-PATENT-CLASS-340-146.1AQ c 32 N77-12240 * #
US-PATENT-CLASS-340-146.1AV c 08 N73-12177 * #
US-PATENT-CLASS-340-146.1AV c 32 N77-12240 * #
US-PATENT-CLASS-340-146.1AX c 32 N79-10263 * #
US-PATENT-CLASS-340-146.1C . c 07 N73-20176 * #
US-PATENT-CLASS-340-146.1E . c 32 N79-10263 * #
US-PATENT-CLASS-340-146.1 .... c 09 N71-18843 *
US-PATENT-CLASS-340-146.1 .... c 08 N71-22749 *
US-PATENT-CLASS-340-146.1 .... c 10 N71-26103 *
US-PATENT-CLASS-340-146.1 .... c 08 N71-27255 *
US-PATENT-CLASS-340-146.1 .... c 08 N72-22167 * #
US-PATENT-CLASS-340-146.1 .... c 08 N72-25207 * #
US-PATENT-CLASS-340-146.1 .... c 07 N73-13149 * #
US-PATENT-CLASS-340-146.2 .... c 08 N71-12505 * #
US-PATENT-CLASS-340-146.2 .... c 08 N71-23295 *
US-PATENT-CLASS-340-146.3H . c 74 N81-19896 * #
US-PATENT-CLASS-340-146.3P . c 43 N77-10584 * #
US-PATENT-CLASS-340-146.3Q . c 43 N77-10584 * #
US-PATENT-CLASS-340-146.3S . c 74 N81-19896 * #
US-PATENT-CLASS-340-146.3Y . c 74 N81-19896 * #
US-PATENT-CLASS-340-147C .... c 60 N76-14818 * #
US-PATENT-CLASS-340-147R .... c 07 N73-20176 * #
US-PATENT-CLASS-340-147R .... c 60 N76-14818 * #
US-PATENT-CLASS-340-147SY .. c 17 N76-22245 * #
US-PATENT-CLASS-340-147 ..... c 09 N70-33182 *
US-PATENT-CLASS-340-147 ..... c 09 N70-38998 * #
US-PATENT-CLASS-340-15.5GC c 14 N73-26432 * #
US-PATENT-CLASS-340-150 ..... c 10 N71-27272 *
US-PATENT-CLASS-340-151 ..... c 33 N74-27862 * #
US-PATENT-CLASS-340-163 ..... c 07 N73-20176 * #
US-PATENT-CLASS-340-164 ..... c 10 N71-27272 *
US-PATENT-CLASS-340-166 ..... c 10 N71-27272 *
US-PATENT-CLASS-340-166 ..... c 10 N73-32144 * #
US-PATENT-CLASS-340-167 ..... c 07 N72-25173 * #
US-PATENT-CLASS-340-171 ..... c 09 N72-22202 * #
US-PATENT-CLASS-340-171 ..... c 16 N73-16536 * #
US-PATENT-CLASS-340-172.5 .... c 08 N69-21928 * #
US-PATENT-CLASS-340-172.5 .... c 09 N69-24333 * #
US-PATENT-CLASS-340-172.5 .... c 08 N71-12502 * #
US-PATENT-CLASS-340-172.5 .... c 08 N71-12506 * #
US-PATENT-CLASS-340-172.5 .... c 31 N71-15566 *
US-PATENT-CLASS-340-172.5 .... c 08 N71-19288 *
US-PATENT-CLASS-340-172.5 .... c 08 N71-22707 *
US-PATENT-CLASS-340-172.5 .... c 08 N71-22710 *
US-PATENT-CLASS-340-172.5 .... c 07 N71-24624 *
US-PATENT-CLASS-340-172.5 .... c 08 N71-27255 *
US-PATENT-CLASS-340-172.5 .... c 07 N72-25172 * #
US-PATENT-CLASS-340-172.5 .... c 08 N72-25207 * #
US-PATENT-CLASS-340-172.5 .... c 09 N72-25248 * #
US-PATENT-CLASS-340-172.5 .... c 08 N73-13187 * #
US-PATENT-CLASS-340-172.5 .... c 08 N73-26176 * #
US-PATENT-CLASS-340-172.5 .... c 60 N76-18800 * #
US-PATENT-CLASS-340-172.5 .... c 60 N76-21914 * #
US-PATENT-CLASS-340-172.5 .... c 60 N77-12721 * #
US-PATENT-CLASS-340-172.5 .... c 60 N77-14751 * #
US-PATENT-CLASS-340-172.5 .... c 60 N77-19760 * #
US-PATENT-CLASS-340-173.2 .... c 08 N72-21198 * #
US-PATENT-CLASS-340-173CA .. c 33 N75-31331 * #
US-PATENT-CLASS-340-173CR .. c 60 N74-12888 * #
US-PATENT-CLASS-340-173LM .. c 60 N74-12888 * #
US-PATENT-CLASS-340-173LM .. c 60 N78-10709 * #
US-PATENT-CLASS-340-173LS .. c 08 N72-21198 * #
US-PATENT-CLASS-340-173LS .. c 36 N75-19652 * #
US-PATENT-CLASS-340-173 ..... c 10 N73-32144 * #
US-PATENT-CLASS-340-174.1L .. c 35 N74-11283 * #
US-PATENT-CLASS-340-174.1M . c 36 N74-13205 * #
US-PATENT-CLASS-340-174.1M . c 35 N78-29421 * #
US-PATENT-CLASS-340-174.1M . c 35 N79-16246 * #
US-PATENT-CLASS-340-174.1R . c 21 N73-13644 * #
US-PATENT-CLASS-340-174.1 .... c 08 N71-21042 *
US-PATENT-CLASS-340-174.1 .... c 07 N71-23001 *
US-PATENT-CLASS-340-174.1 .... c 08 N71-27210 *
US-PATENT-CLASS-340-174AG . c 23 N72-17747 * #
US-PATENT-CLASS-340-174CS .. c 08 N72-21199 * #
US-PATENT-CLASS-340-174CT .. c 23 N72-17747 * #
US-PATENT-CLASS-340-174GA . c 23 N72-17747 * #
US-PATENT-CLASS-340-174LC .. c 08 N72-21199 * #
US-PATENT-CLASS-340-174MA . c 24 N75-13032 * #
US-PATENT-CLASS-340-174M .... c 08 N72-21199 * #
US-PATENT-CLASS-340-174SC .. c 23 N72-17747 * #
US-PATENT-CLASS-340-174SR .. c 08 N72-21199 * #
US-PATENT-CLASS-340-174YC .. c 36 N74-13205 * #
US-PATENT-CLASS-340-174YC .. c 35 N78-29421 * #
US-PATENT-CLASS-340-174 ..... c 08 N71-12504 * #
US-PATENT-CLASS-340-174 ..... c 09 N71-12515 * #
US-PATENT-CLASS-340-174 ..... c 08 N71-18595 *
US-PATENT-CLASS-340-174 ..... c 08 N71-18694 *
US-PATENT-CLASS-340-174 ..... c 10 N71-23033 *
US-PATENT-CLASS-340-174 ..... c 10 N71-26418 *
US-PATENT-CLASS-340-174 ..... c 10 N71-26434 *
US-PATENT-CLASS-340-174 ..... c 08 N71-28925 *
US-PATENT-CLASS-340-174 ..... c 10 N71-29135 *
US-PATENT-CLASS-340-177VA .. c 06 N80-18036 * #
US-PATENT-CLASS-340-177 ..... c 09 N72-17153 * #
US-PATENT-CLASS-340-182 ..... c 33 N74-27862 * #
US-PATENT-CLASS-340-183 ..... c 52 N74-26625 * #
US-PATENT-CLASS-340-189M .... c 17 N76-29347 * #
US-PATENT-CLASS-340-198 ..... c 14 N70-33179 *
US-PATENT-CLASS-340-198 ..... c 07 N71-11298 * #
US-PATENT-CLASS-340-200 ..... c 33 N74-27862 * #
US-PATENT-CLASS-340-200 ..... c 33 N77-31404 * #
US-PATENT-CLASS-340-203 ..... c 09 N72-22202 * #
US-PATENT-CLASS-340-203 ..... c 52 N74-26625 * #
US-PATENT-CLASS-340-206 ..... c 17 N76-29347 * #
US-PATENT-CLASS-340-207P .... c 17 N76-22245 * #
US-PATENT-CLASS-340-207R .... c 52 N74-26625 * #
US-PATENT-CLASS-340-207 ..... c 07 N73-25160 * #
US-PATENT-CLASS-340-210 ..... c 03 N72-20031 * #
US-PATENT-CLASS-340-213.1 .... c 10 N71-19417 *
US-PATENT-CLASS-340-213R .... c 54 N78-32720 * #
US-PATENT-CLASS-340-213 ..... c 10 N71-27272 *
US-PATENT-CLASS-340-223 ..... c 10 N73-32144 * #
US-PATENT-CLASS-340-224 ..... c 37 N77-19458 * #
US-PATENT-CLASS-340-227R .... c 14 N72-25412 * #
US-PATENT-CLASS-340-227 ..... c 10 N71-16058 *
US-PATENT-CLASS-340-227 ..... c 14 N71-27186 *
US-PATENT-CLASS-340-228.2 .... c 10 N72-17173 * #
US-PATENT-CLASS-340-228S .... c 14 N73-16484 * #
US-PATENT-CLASS-340-233 ..... c 14 N71-25901 *
US-PATENT-CLASS-340-235 ..... c 10 N71-26334 *
US-PATENT-CLASS-340-237S .... c 45 N76-17656 * #
US-PATENT-CLASS-340-240 ..... c 09 N72-27227 * #
US-PATENT-CLASS-340-242 ..... c 35 N75-19612 * #
US-PATENT-CLASS-340-248 ..... c 10 N71-27338 *
US-PATENT-CLASS-340-258R .... c 07 N73-25160 * #
US-PATENT-CLASS-340-258 ..... c 10 N72-28240 * #
US-PATENT-CLASS-340-25 ..... c 14 N73-16483 * #
US-PATENT-CLASS-340-262 ..... c 54 N78-32720 * #
US-PATENT-CLASS-340-26 ..... c 21 N72-22619 * #
US-PATENT-CLASS-340-26 ..... c 04 N82-16059 * #
US-PATENT-CLASS-340-27AT .... c 21 N73-14692 * #
US-PATENT-CLASS-340-27NA .... c 21 N73-13643 * #
US-PATENT-CLASS-340-27NA .... c 06 N82-16075 * #
US-PATENT-CLASS-340-27R ..... c 14 N73-16483 * #
US-PATENT-CLASS-340-27R ..... c 14 N73-20474 * #
US-PATENT-CLASS-340-27SS .... c 35 N78-14364 * #
US-PATENT-CLASS-340-27.1 .... c 35 N77-30436 * #
US-PATENT-CLASS-340-277 ..... c 10 N73-30205 * #
US-PATENT-CLASS-340-279 ..... c 05 N72-16015 * #
US-PATENT-CLASS-340-279 ..... c 10 N73-30205 * #
US-PATENT-CLASS-340-279 ..... c 54 N78-32720 * #
US-PATENT-CLASS-340-285 ..... c 14 N71-25901 *
US-PATENT-CLASS-340-285 ..... c 54 N78-32720 * #
US-PATENT-CLASS-340-309.1 .... c 54 N78-32720 * #
US-PATENT-CLASS-340-309.4 .... c 33 N81-14221 * #
US-PATENT-CLASS-340-310A .... c 33 N81-14221 * #
US-PATENT-CLASS-340-310R .... c 33 N81-14221 * #
US-PATENT-CLASS-340-324AD .. c 33 N75-19517 * #
US-PATENT-CLASS-340-324A .... c 09 N72-25248 * #
US-PATENT-CLASS-340-324R .... c 26 N72-25680 * #
US-PATENT-CLASS-340-324 ..... c 08 N71-12507 * #
US-PATENT-CLASS-340-324 ..... c 09 N71-33519 *
US-PATENT-CLASS-340-332 ..... c 09 N72-25250 * #
US-PATENT-CLASS-340-336 ..... c 09 N71-33519 *
US-PATENT-CLASS-340-33 ..... c 21 N73-13643 * #
US-PATENT-CLASS-340-347AD .. c 14 N71-28991 *
US-PATENT-CLASS-340-347AD .. c 08 N72-21200 * #
US-PATENT-CLASS-340-347AD .. c 08 N72-22163 * #
US-PATENT-CLASS-340-347AD .. c 08 N72-22166 * #
US-PATENT-CLASS-340-347AD .. c 08 N72-31226 * #
US-PATENT-CLASS-340-347AD .. c 08 N73-20217 * #
US-PATENT-CLASS-340-347AD .. c 35 N74-17885 * #
US-PATENT-CLASS-340-347AD .. c 35 N74-32877 * #
US-PATENT-CLASS-340-347AD .. c 33 N76-18345 * #
US-PATENT-CLASS-340-347AD .. c 60 N77-32731 * #
US-PATENT-CLASS-340-347DA .. c 08 N71-27057 *
US-PATENT-CLASS-340-347DA .. c 08 N72-20176 * #
US-PATENT-CLASS-340-347DA .. c 08 N72-25206 * #
US-PATENT-CLASS-340-347DA .. c 08 N73-32081 * #
US-PATENT-CLASS-340-347DD .. c 10 N71-33407 *
US-PATENT-CLASS-340-347DD .. c 08 N72-18184 * #
US-PATENT-CLASS-340-347DD .. c 08 N72-20176 * #
US-PATENT-CLASS-340-347DD .. c 08 N72-21197 * #
US-PATENT-CLASS-340-347DD .. c 08 N73-12176 * #
US-PATENT-CLASS-340-347DD .. c 60 N76-23850 * #
US-PATENT-CLASS-340-347DD .. c 32 N77-12239 * #
US-PATENT-CLASS-340-347DD .. c 60 N78-17691 * #
US-PATENT-CLASS-340-347DD .. c 60 N79-20751 * #
US-PATENT-CLASS-340-347DD .. c 33 N82-26570 * #
US-PATENT-CLASS-340-347P ..... c 60 N76-23850 * #
US-PATENT-CLASS-340-347P ..... c 35 N77-30436 * #
US-PATENT-CLASS-340-347R ..... c 08 N72-22165 * #
US-PATENT-CLASS-340-347SH .. c 33 N77-31404 * #
US-PATENT-CLASS-340-347SY .. c 62 N76-31946 * #
US-PATENT-CLASS-340-347SY .. c 35 N77-30436 * #
US-PATENT-CLASS-340-347 ..... c 08 N70-35423 * #
US-PATENT-CLASS-340-347 ..... c 08 N70-40125 * #
US-PATENT-CLASS-340-347 ..... c 08 N71-12501 * #
US-PATENT-CLASS-340-347 ..... c 08 N71-18594 *
US-PATENT-CLASS-340-347 ..... c 08 N71-19435 *
US-PATENT-CLASS-340-347 ..... c 08 N71-19544 *
US-PATENT-CLASS-340-347 ..... c 08 N71-19687 *
US-PATENT-CLASS-340-347 ..... c 08 N71-24650 *
US-PATENT-CLASS-340-347 ..... c 10 N71-25917 *
US-PATENT-CLASS-340-347 ..... c 10 N71-26544 *
US-PATENT-CLASS-340-347 ..... c 08 N73-28045 * #
US-PATENT-CLASS-340-348 ..... c 08 N72-22167 * #
US-PATENT-CLASS-340-38P ..... c 66 N76-19888 * #
US-PATENT-CLASS-340-403 ..... c 10 N71-27272 *
US-PATENT-CLASS-340-407 ..... c 71 N74-21014 * #
US-PATENT-CLASS-340-412 ..... c 10 N71-24798 *
US-PATENT-CLASS-340-415 ..... c 10 N73-32144 * #
US-PATENT-CLASS-340-418 ..... c 14 N73-16484 * #
US-PATENT-CLASS-340-5C ..... c 14 N73-27379 * #
US-PATENT-CLASS-340-5H ..... c 32 N77-21267 * #
US-PATENT-CLASS-340-5R ..... c 35 N74-16135 * #
US-PATENT-CLASS-340-518 ..... c 35 N83-34272 * #
US-PATENT-CLASS-340-555 ..... c 74 N85-22139 * #
US-PATENT-CLASS-340-566 ..... c 35 N83-34272 * #
US-PATENT-CLASS-340-57 ..... c 14 N71-15620 * #
US-PATENT-CLASS-340-602 ..... c 33 N80-23559 * #
US-PATENT-CLASS-340-604 ..... c 33 N80-23559 * #
US-PATENT-CLASS-340-650 ..... c 33 N79-18193 * #
US-PATENT-CLASS-340-664 ..... c 33 N79-18193 * #
US-PATENT-CLASS-340-705 ..... c 06 N84-27733 * #
US-PATENT-CLASS-340-8LF ..... c 71 N79-23753 * #
US-PATENT-CLASS-340-8R ..... c 35 N74-16135 * #
US-PATENT-CLASS-340-825.21 .. c 60 N84-28492 * #
US-PATENT-CLASS-340-825.5 .... c 60 N84-28492 * #
US-PATENT-CLASS-340-825.89 .. c 33 N82-29538 * #
US-PATENT-CLASS-340-870.13 .. c 35 N84-22934 * #
US-PATENT-CLASS-340-870.24 .. c 33 N81-14221 * #
US-PATENT-CLASS-340-905 ..... c 35 N84-33769 * #
US-PATENT-CLASS-340-971 ..... c 06 N84-27733 * #
US-PATENT-CLASS-340-975 ..... c 06 N84-27733 * #
US-PATENT-CLASS-340-978 ..... c 06 N84-27733 * #
US-PATENT-CLASS-340-97 ..... c 21 N73-13643 * #
US-PATENT-CLASS-340-980 ..... c 06 N84-27733 * #
US-PATENT-CLASS-340-988 ..... c 35 N84-33769 * #
US-PATENT-CLASS-343-DIG.2 .... c 07 N73-24176 * #
US-PATENT-CLASS-343-DIG.2 .... c 33 N74-20860 * #
US-PATENT-CLASS-343-DIG.3 .... c 09 N72-12136 *
US-PATENT-CLASS-343-DIG2 ..... c 07 N83-20944 * #
US-PATENT-CLASS-343-100AP .. c 33 N83-36355 * #
US-PATENT-CLASS-343-100CL .. c 32 N77-32342 * #
US-PATENT-CLASS-343-100CL .. c 32 N79-14268 * #
US-PATENT-CLASS-343-100CL .. c 32 N81-29308 * #
US-PATENT-CLASS-343-100CL .. c 32 N83-18975 * #
US-PATENT-CLASS-343-100CL .. c 32 N83-19968 * #
US-PATENT-CLASS-343-100ME . c 14 N72-28437 * #
US-PATENT-CLASS-343-100ME . c 14 N73-26432 * #
US-PATENT-CLASS-343-100ME . c 46 N80-14603 * #
US-PATENT-CLASS-343-100ME . c 35 N80-18359 * #
US-PATENT-CLASS-343-100ME . c 46 N82-12685 * #
US-PATENT-CLASS-343-100ME . c 06 N83-10040 * #
US-PATENT-CLASS-343-100PE .. c 32 N75-24982 * #
US-PATENT-CLASS-343-100PE .. c 33 N81-26358 * #
US-PATENT-CLASS-343-100PE .. c 46 N82-12685 * #
US-PATENT-CLASS-343-100PE .. c 35 N82-15381 * #
US-PATENT-CLASS-343-100R .... c 10 N73-16206 * #
US-PATENT-CLASS-343-100R .... c 33 N80-18287 * #
US-PATENT-CLASS-343-100SA .. c 10 N73-16206 * #
US-PATENT-CLASS-343-100SA .. c 33 N74-20860 * #
US-PATENT-CLASS-343-100SA .. c 17 N76-21250 * #
US-PATENT-CLASS-343-100SA .. c 32 N80-28578 * #
US-PATENT-CLASS-343-100ST .. c 07 N72-21118 * #
US-PATENT-CLASS-343-100ST .. c 33 N74-20860 * #
US-PATENT-CLASS-343-100ST .. c 32 N75-15854 * #
US-PATENT-CLASS-343-100ST .. c 17 N76-21250 * #
US-PATENT-CLASS-343-100ST .. c 32 N77-20289 * #
US-PATENT-CLASS-343-100ST .. c 33 N80-18287 * #
US-PATENT-CLASS-343-100TD .. c 32 N79-24210 * #
US-PATENT-CLASS-343-100TD .. c 32 N81-14185 * #
US-PATENT-CLASS-343-100 ..... c 10 N71-18722 *
US-PATENT-CLASS-343-100 ..... c 07 N71-19854 *
US-PATENT-CLASS-343-100 ..... c 30 N71-23723 *
US-PATENT-CLASS-343-100 ..... c 07 N71-24621 *
US-PATENT-CLASS-343-100 ..... c 09 N71-24804 *
US-PATENT-CLASS-343-100 ..... c 31 N71-24813 *
US-PATENT-CLASS-343-100 ..... c 07 N71-27056 *
US-PATENT-CLASS-343-100 ..... c 07 N71-28900 *
US-PATENT-CLASS-343-105R .... c 32 N75-26194 * #
US-PATENT-CLASS-343-105R .... c 04 N84-27713 * #
US-PATENT-CLASS-343-108R .... c 04 N74-13420 * #
US-PATENT-CLASS-343-10 ..... c 32 N77-32342 * #
US-PATENT-CLASS-343-11R ..... c 09 N73-12211 * #
US-PATENT-CLASS-343-11VB .... c 09 N73-12211 * #
US-PATENT-CLASS-343-112CA .. c 21 N73-13643 * #
US-PATENT-CLASS-343-112CA .. c 21 N73-30641 * #
US-PATENT-CLASS-343-112CA .. c 03 N75-30132 * #
US-PATENT-CLASS-343-112D .... c 14 N72-28437 * #
US-PATENT-CLASS-343-112D .... c 32 N75-26194 * #
US-PATENT-CLASS-343-112D .... c 46 N80-14603 * #
US-PATENT-CLASS-343-112R .... c 09 N73-32110 * #
US-PATENT-CLASS-343-112R .... c 17 N78-17140 * #
US-PATENT-CLASS-343-112R .... c 04 N80-32359 * #

US-PATENT-CLASS-343-112R .... c 32 N81-27341 * #
US-PATENT-CLASS-343-112TC .. c 17 N76-21250 * #
US-PATENT-CLASS-343-112 ..... c 21 N71-13958 * #
US-PATENT-CLASS-343-112 ..... c 02 N71-19287 *
US-PATENT-CLASS-343-112 ..... c 21 N71-24948 *
US-PATENT-CLASS-343-113R .... c 09 N73-32110 * #
US-PATENT-CLASS-343-113R .... c 44 N78-28594 * #
US-PATENT-CLASS-343-113 ..... c 10 N71-21473 *
US-PATENT-CLASS-343-113 ..... c 07 N71-24625 *
US-PATENT-CLASS-343-117R .... c 32 N79-13214 * #
US-PATENT-CLASS-343-117 ..... c 07 N71-27056 *
US-PATENT-CLASS-343-118 ..... c 32 N79-13214 * #
US-PATENT-CLASS-343-119 ..... c 44 N78-28594 * #
US-PATENT-CLASS-343-12R ..... c 08 N72-25209 * #
US-PATENT-CLASS-343-12 ..... c 21 N70-41930 * #
US-PATENT-CLASS-343-12 ..... c 10 N72-20224 * #
US-PATENT-CLASS-343-13-R ..... c 74 N85-34629 * #
US-PATENT-CLASS-343-13 ..... c 09 N71-18598 *
US-PATENT-CLASS-343-14 ..... c 07 N70-41680 * #
US-PATENT-CLASS-343-14 ..... c 08 N72-25209 * #
US-PATENT-CLASS-343-14 ..... c 14 N73-25461 * #
US-PATENT-CLASS-343-14 ..... c 32 N79-14267 * #
US-PATENT-CLASS-343-14 ..... c 31 N79-28370 * #
US-PATENT-CLASS-343-16M ..... c 10 N72-22235 * #
US-PATENT-CLASS-343-16M ..... c 44 N78-28594 * #
US-PATENT-CLASS-343-16 ..... c 09 N71-20864 *
US-PATENT-CLASS-343-16 ..... c 10 N71-21483 *
US-PATENT-CLASS-343-17.1PF . c 32 N82-23376 * #
US-PATENT-CLASS-343-17.2-PC c 32 N85-34327 * #
US-PATENT-CLASS-343-17.2PC . c 35 N79-10391 * #
US-PATENT-CLASS-343-17.2 ..... c 07 N70-36911 * #
US-PATENT-CLASS-343-17.5 ..... c 14 N73-25461 * #
US-PATENT-CLASS-343-17.5 ..... c 32 N75-15854 * #
US-PATENT-CLASS-343-17.5 ..... c 32 N84-22820 * #
US-PATENT-CLASS-343-17.7 ..... c 07 N71-12391 * #
US-PATENT-CLASS-343-17.7 ..... c 44 N74-19870 * #
US-PATENT-CLASS-343-17.7 ..... c 32 N77-31350 * #
US-PATENT-CLASS-343-17.7 ..... c 32 N79-11265 * #
US-PATENT-CLASS-343-17.7 ..... c 32 N84-27951 * #
US-PATENT-CLASS-343-17.7 ..... c 33 N85-21493 * #
US-PATENT-CLASS-343-176 ..... c 07 N71-27056 *
US-PATENT-CLASS-343-176 ..... c 32 N76-14321 * #
US-PATENT-CLASS-343-179 ..... c 07 N72-11149 *
US-PATENT-CLASS-343-179 ..... c 07 N73-20174 * #
US-PATENT-CLASS-343-179 ..... c 32 N78-15323 * #
US-PATENT-CLASS-343-179 ..... c 32 N79-20296 * #
US-PATENT-CLASS-343-18A ..... c 32 N80-14281 * #
US-PATENT-CLASS-343-18B ..... c 32 N74-12912 * #
US-PATENT-CLASS-343-18B ..... c 32 N77-21267 * #
US-PATENT-CLASS-343-18B ..... c 43 N80-18498 * #
US-PATENT-CLASS-343-18D ..... c 43 N80-18498 * #
US-PATENT-CLASS-343-18 ..... c 31 N70-37981 * #
US-PATENT-CLASS-343-18 ..... c 07 N70-40063 * #
US-PATENT-CLASS-343-18 ..... c 30 N70-40309 * #
US-PATENT-CLASS-343-18 ..... c 07 N70-41678 * #
US-PATENT-CLASS-343-200 ..... c 07 N73-16121 * #
US-PATENT-CLASS-343-204 ..... c 07 N73-26118 * #
US-PATENT-CLASS-343-225 ..... c 17 N78-17140 * #
US-PATENT-CLASS-343-352 ..... c 43 N85-21723 * #
US-PATENT-CLASS-343-352 ..... c 46 N85-21846 * #
US-PATENT-CLASS-343-356 ..... c 04 N84-22546 * #
US-PATENT-CLASS-343-357 ..... c 04 N84-22546 * #
US-PATENT-CLASS-343-376 ..... c 33 N85-21493 * #
US-PATENT-CLASS-343-460 ..... c 46 N85-21846 * #
US-PATENT-CLASS-343-5-CD ..... c 43 N86-19711 * #
US-PATENT-CLASS-343-5-CM .... c 32 N84-34651 * #
US-PATENT-CLASS-343-5-CM .... c 32 N85-34327 * #
US-PATENT-CLASS-343-5-CM .... c 43 N86-19711 * #
US-PATENT-CLASS-343-5-DP .... c 32 N84-34651 * #
US-PATENT-CLASS-343-5-FT .... c 32 N84-34651 * #
US-PATENT-CLASS-343-5-VQ .... c 43 N86-19711 * #
US-PATENT-CLASS-343-5-W ..... c 32 N85-34327 * #
US-PATENT-CLASS-343-5CM ..... c 07 N72-21118 * #
US-PATENT-CLASS-343-5CM ..... c 32 N77-21267 * #
US-PATENT-CLASS-343-5CM ..... c 32 N77-32342 * #
US-PATENT-CLASS-343-5CM ..... c 35 N79-10391 * #
US-PATENT-CLASS-343-5CM ..... c 32 N79-14268 * #
US-PATENT-CLASS-343-5CM ..... c 43 N80-18498 * #
US-PATENT-CLASS-343-5CM ..... c 32 N82-12297 * #
US-PATENT-CLASS-343-5CM ..... c 32 N83-18975 * #
US-PATENT-CLASS-343-5CM ..... c 32 N83-19968 * #
US-PATENT-CLASS-343-5CM ..... c 32 N83-31918 * #
US-PATENT-CLASS-343-5DP ..... c 07 N72-11149 *
US-PATENT-CLASS-343-5DP ..... c 09 N73-12211 * #
US-PATENT-CLASS-343-5DP ..... c 32 N77-32342 * #
US-PATENT-CLASS-343-5DP ..... c 32 N82-23376 * #
US-PATENT-CLASS-343-5GC ..... c 32 N75-24982 * #
US-PATENT-CLASS-343-5MM ..... c 32 N77-21267 * #
US-PATENT-CLASS-343-5NA ..... c 31 N79-28370 * #
US-PATENT-CLASS-343-5W ..... c 35 N79-10391 * #
US-PATENT-CLASS-343-5W ..... c 43 N80-18498 * #
US-PATENT-CLASS-343-5W ..... c 46 N85-21846 * #
US-PATENT-CLASS-343-6.8R .... c 32 N77-20289 * #
US-PATENT-CLASS-343-6.5R .... c 07 N72-12080 *
US-PATENT-CLASS-343-6.5R .... c 07 N72-21118 * #
US-PATENT-CLASS-343-6.5R .... c 07 N72-25171 * #
US-PATENT-CLASS-343-6.5R .... c 08 N72-25209 * #
US-PATENT-CLASS-343-6.5R .... c 07 N73-25161 * #
US-PATENT-CLASS-343-6.5R .... c 21 N73-30641 * #
US-PATENT-CLASS-343-6.5R .... c 32 N74-12912 * #
US-PATENT-CLASS-343-6.5R .... c 32 N75-15854 * #
US-PATENT-CLASS-343-6.5R .... c 03 N75-30132 * #
US-PATENT-CLASS-343-6.5R .... c 32 N77-20289 * #
US-PATENT-CLASS-343-6.5SS ... c 32 N74-12912 * #
US-PATENT-CLASS-343-6.5 ..... c 21 N71-11766 * #
US-PATENT-CLASS-343-6.5 ..... c 10 N71-23099 *
US-PATENT-CLASS-343-6.8-R .... c 04 N86-19304 * #
US-PATENT-CLASS-343-6.8R .... c 07 N72-12080 *
US-PATENT-CLASS-343-6.8R .... c 07 N73-25161 * #
US-PATENT-CLASS-343-6.8R .... c 14 N73-25461 * #
US-PATENT-CLASS-343-6R ..... c 32 N79-10264 * #
US-PATENT-CLASS-343-6 ..... c 30 N71-16090 *
US-PATENT-CLASS-343-7.4 ..... c 10 N72-22235 * #
US-PATENT-CLASS-343-7.4 ..... c 32 N79-13214 * #
US-PATENT-CLASS-343-7.5 ..... c 07 N69-39974 * #
US-PATENT-CLASS-343-7.5 ..... c 09 N71-24595 *
US-PATENT-CLASS-343-7.5 ..... c 07 N72-11149 *
US-PATENT-CLASS-343-7.5 ..... c 44 N74-19870 * #
US-PATENT-CLASS-343-7.5 ..... c 32 N82-23376 * #
US-PATENT-CLASS-343-700MS . c 32 N78-24391 * #
US-PATENT-CLASS-343-700MS . c 32 N80-32604 * #
US-PATENT-CLASS-343-700MS . c 32 N82-11336 * #
US-PATENT-CLASS-343-703 ..... c 09 N71-13521 * #
US-PATENT-CLASS-343-703 ..... c 07 N71-24614 *
US-PATENT-CLASS-343-705 ..... c 07 N70-38200 * #
US-PATENT-CLASS-343-705 ..... c 07 N70-40202 * #
US-PATENT-CLASS-343-705 ..... c 31 N71-10747 * #
US-PATENT-CLASS-343-705 ..... c 03 N76-32140 * #
US-PATENT-CLASS-343-706 ..... c 07 N72-21117 * #
US-PATENT-CLASS-343-708 ..... c 09 N71-22888 *
US-PATENT-CLASS-343-708 ..... c 07 N71-22984 *
US-PATENT-CLASS-343-708 ..... c 07 N71-28980 *
US-PATENT-CLASS-343-708 ..... c 09 N72-25247 * #
US-PATENT-CLASS-343-708 ..... c 32 N74-20864 * #
US-PATENT-CLASS-343-708 ..... c 32 N82-11336 * #
US-PATENT-CLASS-343-718 ..... c 09 N71-18720 *
US-PATENT-CLASS-343-720 ..... c 09 N72-12136 *
US-PATENT-CLASS-343-725 ..... c 07 N73-28013 * #
US-PATENT-CLASS-343-727 ..... c 32 N81-14187 * #
US-PATENT-CLASS-343-727 ..... c 32 N82-11336 * #
US-PATENT-CLASS-343-729 ..... c 07 N73-28013 * #
US-PATENT-CLASS-343-730 ..... c 32 N74-20863 * #
US-PATENT-CLASS-343-754 ..... c 09 N73-19234 * #
US-PATENT-CLASS-343-755 ..... c 33 N76-27472 * #
US-PATENT-CLASS-343-755 ..... c 32 N81-25278 * #
US-PATENT-CLASS-343-761 ..... c 33 N75-19516 * #
US-PATENT-CLASS-343-761 ..... c 32 N76-21365 * #
US-PATENT-CLASS-343-762 ..... c 07 N72-25174 * #
US-PATENT-CLASS-343-768 ..... c 10 N71-26142 *
US-PATENT-CLASS-343-769 ..... c 32 N74-20864 * #
US-PATENT-CLASS-343-770 ..... c 09 N72-31235 * #
US-PATENT-CLASS-343-770 ..... c 33 N76-14372 * #
US-PATENT-CLASS-343-771 ..... c 07 N71-28809 *
US-PATENT-CLASS-343-771 ..... c 07 N72-11148 *
US-PATENT-CLASS-343-771 ..... c 09 N72-21244 * #
US-PATENT-CLASS-343-771 ..... c 07 N72-22127 * #
US-PATENT-CLASS-343-771 ..... c 09 N72-25247 * #
US-PATENT-CLASS-343-771 ..... c 09 N72-31235 * #
US-PATENT-CLASS-343-772 ..... c 07 N72-20141 * #
US-PATENT-CLASS-343-772 ..... c 32 N81-25278 * #
US-PATENT-CLASS-343-773 ..... c 07 N72-20141 * #
US-PATENT-CLASS-343-776 ..... c 07 N71-12396 * #
US-PATENT-CLASS-343-777 ..... c 07 N71-27233 *
US-PATENT-CLASS-343-777 ..... c 07 N72-25174 * #
US-PATENT-CLASS-343-779 ..... c 07 N71-11285 * #
US-PATENT-CLASS-343-779 ..... c 10 N72-22235 * #
US-PATENT-CLASS-343-779 ..... c 07 N72-25174 * #
US-PATENT-CLASS-343-779 ..... c 32 N76-15329 * #
US-PATENT-CLASS-343-779 ..... c 33 N76-27472 * #
US-PATENT-CLASS-343-781CA .. c 32 N78-31321 * #
US-PATENT-CLASS-343-781P .... c 46 N82-12685 * #
US-PATENT-CLASS-343-781R .... c 32 N81-25278 * #
US-PATENT-CLASS-343-781 ..... c 09 N70-35219 * #
US-PATENT-CLASS-343-781 ..... c 09 N70-35382 * #
US-PATENT-CLASS-343-781 ..... c 09 N70-35425 * #
US-PATENT-CLASS-343-781 ..... c 07 N72-32169 * #
US-PATENT-CLASS-343-781 ..... c 32 N74-11000 * #
US-PATENT-CLASS-343-781 ..... c 33 N75-19516 * #
US-PATENT-CLASS-343-781 ..... c 32 N76-21365 * #
US-PATENT-CLASS-343-782 ..... c 07 N73-14130 * #
US-PATENT-CLASS-343-782 ..... c 32 N78-31321 * #
US-PATENT-CLASS-343-784 ..... c 07 N71-28980 *
US-PATENT-CLASS-343-786 ..... c 07 N71-15907 *
US-PATENT-CLASS-343-786 ..... c 07 N71-22750 *
US-PATENT-CLASS-343-786 ..... c 07 N71-26101 *
US-PATENT-CLASS-343-786 ..... c 07 N71-27233 *
US-PATENT-CLASS-343-786 ..... c 07 N72-20141 * #
US-PATENT-CLASS-343-786 ..... c 10 N72-22235 * #
US-PATENT-CLASS-343-786 ..... c 07 N72-25174 * #
US-PATENT-CLASS-343-786 ..... c 09 N72-31235 * #
US-PATENT-CLASS-343-786 ..... c 32 N74-20863 * #
US-PATENT-CLASS-343-786 ..... c 32 N76-15330 * #
US-PATENT-CLASS-343-786 ..... c 32 N76-21365 * #
US-PATENT-CLASS-343-786 ..... c 32 N80-23524 * #
US-PATENT-CLASS-343-786 ..... c 32 N80-29539 * #
US-PATENT-CLASS-343-786 ..... c 32 N81-25278 * #
US-PATENT-CLASS-343-789 ..... c 32 N81-14187 * #
US-PATENT-CLASS-343-789 ..... c 32 N82-27558 * #
US-PATENT-CLASS-343-795 ..... c 32 N82-11336 * #
US-PATENT-CLASS-343-797 ..... c 09 N71-24842 *
US-PATENT-CLASS-343-797 ..... c 07 N72-22127 * #
US-PATENT-CLASS-343-797 ..... c 09 N72-31235 * #
US-PATENT-CLASS-343-797 ..... c 07 N73-28013 * #
US-PATENT-CLASS-343-797 ..... c 32 N74-20863 * #
US-PATENT-CLASS-343-797 ..... c 33 N76-14372 * #
US-PATENT-CLASS-343-797 ..... c 32 N81-14187 * #
US-PATENT-CLASS-343-799 ..... c 07 N71-27233 *
US-PATENT-CLASS-343-803 ..... c 07 N73-28013 * #
US-PATENT-CLASS-343-823 ..... c 07 N71-28979 *
US-PATENT-CLASS-343-830 ..... c 32 N80-32604 * #
US-PATENT-CLASS-343-833 ..... c 31 N70-34135 * #
US-PATENT-CLASS-343-837 ..... c 07 N72-32169 * #
US-PATENT-CLASS-343-837 ..... c 07 N73-14130 * #
US-PATENT-CLASS-343-837 ..... c 33 N75-19516 * #
US-PATENT-CLASS-343-837 ..... c 32 N76-15329 * #
US-PATENT-CLASS-343-837 ..... c 32 N76-18295 * #
US-PATENT-CLASS-343-837 ..... c 32 N78-31321 * #
US-PATENT-CLASS-343-839 ..... c 09 N73-19234 * #
US-PATENT-CLASS-343-840 ..... c 07 N71-27233 *
US-PATENT-CLASS-343-840 ..... c 09 N72-12136 *
US-PATENT-CLASS-343-840 ..... c 07 N72-32169 * #
US-PATENT-CLASS-343-840 ..... c 32 N76-18295 * #
US-PATENT-CLASS-343-840 ..... c 33 N83-36355 * #
US-PATENT-CLASS-343-844 ..... c 32 N79-11264 * #
US-PATENT-CLASS-343-844 ..... c 32 N80-28578 * #
US-PATENT-CLASS-343-846 ..... c 33 N76-14372 * #
US-PATENT-CLASS-343-846 ..... c 32 N82-11336 * #
US-PATENT-CLASS-343-853 ..... c 07 N72-11148 *
US-PATENT-CLASS-343-853 ..... c 07 N72-22127 * #
US-PATENT-CLASS-343-853 ..... c 07 N72-25174 * #
US-PATENT-CLASS-343-853 ..... c 09 N72-31235 * #
US-PATENT-CLASS-343-853 ..... c 10 N73-16206 * #
US-PATENT-CLASS-343-853 ..... c 32 N74-20863 * #
US-PATENT-CLASS-343-853 ..... c 32 N74-20864 * #
US-PATENT-CLASS-343-854 ..... c 07 N69-27460 * #
US-PATENT-CLASS-343-854 ..... c 07 N71-27233 *
US-PATENT-CLASS-343-854 ..... c 09 N73-19234 * #
US-PATENT-CLASS-343-854 ..... c 33 N74-20860 * #
US-PATENT-CLASS-343-854 ..... c 33 N76-27472 * #
US-PATENT-CLASS-343-854 ..... c 32 N79-11264 * #
US-PATENT-CLASS-343-854 ..... c 32 N80-28578 * #
US-PATENT-CLASS-343-872 ..... c 07 N71-28980 *
US-PATENT-CLASS-343-873 ..... c 07 N71-19493 *
US-PATENT-CLASS-343-873 ..... c 09 N72-25247 * #
US-PATENT-CLASS-343-876 ..... c 32 N76-15329 * #
US-PATENT-CLASS-343-876 ..... c 32 N85-29118 * #
US-PATENT-CLASS-343-880 ..... c 07 N73-26117 * #
US-PATENT-CLASS-343-880 ..... c 18 N80-14183 * #
US-PATENT-CLASS-343-882 ..... c 33 N76-32457 * #
US-PATENT-CLASS-343-883 ..... c 07 N73-26117 * #
US-PATENT-CLASS-343-883 ..... c 18 N80-14183 * #
US-PATENT-CLASS-343-884 ..... c 07 N71-27191 * ✓
US-PATENT-CLASS-343-889 ..... c 07 N73-26117 * #
US-PATENT-CLASS-343-893 ..... c 09 N72-21244 * #
US-PATENT-CLASS-343-893 ..... c 07 N73-28013 * #
US-PATENT-CLASS-343-895 ..... c 09 N73-19234 * #
US-PATENT-CLASS-343-895 ..... c 07 N73-26117 * #
US-PATENT-CLASS-343-895 ..... c 32 N80-23524 * #
US-PATENT-CLASS-343-895 ..... c 32 N82-27558 * #
US-PATENT-CLASS-343-9PS ..... c 32 N83-19968 * #
US-PATENT-CLASS-343-9PS ..... c 32 N83-31918 * #
US-PATENT-CLASS-343-9R ..... c 32 N84-22820 * #
US-PATENT-CLASS-343-909 ..... c 32 N74-11000 * #
US-PATENT-CLASS-343-909 ..... c 35 N76-15435 * #
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US-PATENT-CLASS-343-915 ..... c 31 N71-16102 *
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US-PATENT-CLASS-343-915 ..... c 07 N72-32169 * #
US-PATENT-CLASS-343-915 ..... c 07 N73-14130 * #
US-PATENT-CLASS-343-915 ..... c 07 N73-24176 * #
US-PATENT-CLASS-343-915 ..... c 32 N76-18295 * #
US-PATENT-CLASS-343-915 ..... c 33 N76-32457 * #
US-PATENT-CLASS-343-9 ..... c 32 N75-15854 * #
US-PATENT-CLASS-343-9 ..... c 32 N79-10264 * #
US-PATENT-CLASS-346-107A .... c 14 N72-18411 * #
US-PATENT-CLASS-346-107 ..... c 23 N71-23976 *
US-PATENT-CLASS-346-108 ..... c 35 N74-15831 * #
US-PATENT-CLASS-346-110 ..... c 14 N73-32322 * #
US-PATENT-CLASS-346-138 ..... c 21 N73-13644 * #
US-PATENT-CLASS-346-138 ..... c 35 N74-15831 * #
US-PATENT-CLASS-346-1 ..... c 12 N71-20815 *
US-PATENT-CLASS-346-1 ..... c 09 N72-21246 * #
US-PATENT-CLASS-346-23 ..... c 14 N72-18411 * #
US-PATENT-CLASS-346-24 ..... c 35 N74-15831 * #

US-PATENT-CLASS-346-29 ..... c 09 N72-21246 * #
US-PATENT-CLASS-346-33R ..... c 35 N74-32877 * #
US-PATENT-CLASS-346-44 ..... c 09 N69-21467 * #
US-PATENT-CLASS-346-50 ..... c 14 N71-21006 *
US-PATENT-CLASS-346-74MD ... c 21 N73-13644 * #
US-PATENT-CLASS-346-74MT .... c 35 N79-16246 * #
US-PATENT-CLASS-346R ..... c 73 N77-18691 * #
US-PATENT-CLASS-349 ..... c 25 N79-28253 * #
US-PATENT-CLASS-35-10.2 ..... c 14 N71-15621 * #
US-PATENT-CLASS-35-12C ..... c 14 N73-27377 * #
US-PATENT-CLASS-35-12C ..... c 09 N75-15662 * #
US-PATENT-CLASS-35-12C ..... c 74 N79-13855 * #
US-PATENT-CLASS-35-12E ..... c 09 N74-30597 * #
US-PATENT-CLASS-35-12E ..... c 09 N79-31228 * #
US-PATENT-CLASS-35-12H ..... c 09 N79-31228 * #
US-PATENT-CLASS-35-12N ..... c 09 N76-24280 * #
US-PATENT-CLASS-35-12N ..... c 09 N78-18083 * #
US-PATENT-CLASS-35-12N ..... c 74 N79-13855 * #
US-PATENT-CLASS-35-12 ..... c 11 N70-34815 * #
US-PATENT-CLASS-35-12 ..... c 31 N70-34966 * #
US-PATENT-CLASS-35-12 ..... c 11 N71-10746 * #
US-PATENT-CLASS-35-12 ..... c 11 N71-10748 * #
US-PATENT-CLASS-35-12 ..... c 11 N71-10776 * #
US-PATENT-CLASS-35-12 ..... c 11 N71-18773 *
US-PATENT-CLASS-35-12 ..... c 11 N71-19494 *
US-PATENT-CLASS-35-12 ..... c 11 N71-21474 *
US-PATENT-CLASS-35-12 ..... c 18 N76-14186 * #
US-PATENT-CLASS-35-17 ..... c 05 N71-24606 *
US-PATENT-CLASS-35-19 ..... c 10 N71-27365 *
US-PATENT-CLASS-35-22R ..... c 05 N73-13114 * #
US-PATENT-CLASS-35-29 ..... c 11 N71-16028 *
US-PATENT-CLASS-35-29 ..... c 05 N71-28619 *
US-PATENT-CLASS-35-35A ..... c 71 N74-21014 * #
US-PATENT-CLASS-35-45 ..... c 14 N70-35394 * #
US-PATENT-CLASS-35-49 ..... c 12 N69-39988 * #
US-PATENT-CLASS-35-8 ..... c 05 N72-16015 * #
US-PATENT-CLASS-350-100 ..... c 36 N77-25501 * #
US-PATENT-CLASS-350-102 ..... c 23 N71-29123 *
US-PATENT-CLASS-350-102 ..... c 36 N77-25501 * #
US-PATENT-CLASS-350-138 ..... c 23 N72-27728 * #
US-PATENT-CLASS-350-145 ..... c 74 N77-20882 * #
US-PATENT-CLASS-350-147 ..... c 14 N72-27409 * #
US-PATENT-CLASS-350-150 ..... c 26 N72-25680 * #
US-PATENT-CLASS-350-150 ..... c 36 N76-18427 * #
US-PATENT-CLASS-350-151 ..... c 36 N74-13205 * #
US-PATENT-CLASS-350-151 ..... c 35 N78-29421 * #
US-PATENT-CLASS-350-157 ..... c 74 N79-14891 * #
US-PATENT-CLASS-350-159 ..... c 74 N78-17865 * #
US-PATENT-CLASS-350-160R .... c 14 N72-25410 * #
US-PATENT-CLASS-350-160R .... c 26 N72-25680 * #
US-PATENT-CLASS-350-160 ..... c 36 N76-18427 * #
US-PATENT-CLASS-350-161 ..... c 26 N72-27784 * #
US-PATENT-CLASS-350-161 ..... c 36 N75-31427 * #
US-PATENT-CLASS-350-162R .... c 74 N80-21140 * #
US-PATENT-CLASS-350-162SF .. c 23 N73-30666 * #
US-PATENT-CLASS-350-162SF .. c 74 N76-31998 * #
US-PATENT-CLASS-350-162SF .. c 74 N77-28932 * #
US-PATENT-CLASS-350-162SF .. c 36 N77-32478 * #
US-PATENT-CLASS-350-162 ..... c 14 N72-17323 * #
US-PATENT-CLASS-350-165 ..... c 27 N78-31233 * #
US-PATENT-CLASS-350-166 ..... c 44 N83-34448 * #
US-PATENT-CLASS-350-168 ..... c 74 N85-23396 * #
US-PATENT-CLASS-350-16 ..... c 14 N72-22444 * #
US-PATENT-CLASS-350-170 ..... c 73 N78-32848 * #
US-PATENT-CLASS-350-170 ..... c 74 N83-10900 * #
US-PATENT-CLASS-350-171 ..... c 23 N72-23695 * #
US-PATENT-CLASS-350-171 ..... c 74 N83-17305 * #
US-PATENT-CLASS-350-172 ..... c 74 N84-23248 * #
US-PATENT-CLASS-350-173 ..... c 73 N78-32848 * #
US-PATENT-CLASS-350-173 ..... c 74 N83-36898 * #
US-PATENT-CLASS-350-173 ..... c 74 N84-23248 * #
US-PATENT-CLASS-350-174 ..... c 74 N77-20882 * #
US-PATENT-CLASS-350-174 ..... c 73 N78-32848 * #
US-PATENT-CLASS-350-175E ..... c 74 N80-27185 * #
US-PATENT-CLASS-350-175FS .. c 14 N72-25414 * #
US-PATENT-CLASS-350-175NG . c 27 N78-31233 * #
US-PATENT-CLASS-350-189 ..... c 23 N71-24857 *
US-PATENT-CLASS-350-199 ..... c 14 N73-30393 * #
US-PATENT-CLASS-350-19 ..... c 14 N72-22441 * #
US-PATENT-CLASS-350-1 ..... c 23 N69-24332 * #
US-PATENT-CLASS-350-1 ..... c 07 N71-29065 *
US-PATENT-CLASS-350-1 ..... c 16 N72-12440 *
US-PATENT-CLASS-350-1 ..... c 24 N76-24363 * #
US-PATENT-CLASS-350-1 ..... c 74 N78-15879 * #
US-PATENT-CLASS-350-202 ..... c 23 N73-20741 * #
US-PATENT-CLASS-350-202 ..... c 74 N77-28932 * #
US-PATENT-CLASS-350-203 ..... c 14 N72-25409 * #
US-PATENT-CLASS-350-204 ..... c 14 N73-30393 * #
US-PATENT-CLASS-350-204 ..... c 74 N78-17866 * #
US-PATENT-CLASS-350-211 ..... c 44 N76-14602 * #
US-PATENT-CLASS-350-213 ..... c 14 N71-15622 * #
US-PATENT-CLASS-350-226 ..... c 74 N80-27185 * #
US-PATENT-CLASS-350-236 ..... c 74 N74-15095 * #
US-PATENT-CLASS-350-23 ..... c 14 N72-22441 * #
US-PATENT-CLASS-350-253 ..... c 35 N77-27366 * #
US-PATENT-CLASS-350-25 ..... c 74 N80-21138 * #
US-PATENT-CLASS-350-269 ..... c 33 N74-20861 * #
US-PATENT-CLASS-350-26 ..... c 14 N72-22441 * #
US-PATENT-CLASS-350-270 ..... c 70 N74-21300 * #
US-PATENT-CLASS-350-275 ..... c 09 N71-19479 *
US-PATENT-CLASS-350-276-R ... c 74 N86-20125 * #
US-PATENT-CLASS-350-285 ..... c 14 N71-15605 * #
US-PATENT-CLASS-350-285 ..... c 14 N71-17662 *
US-PATENT-CLASS-350-285 ..... c 19 N71-26674 *
US-PATENT-CLASS-350-285 ..... c 15 N72-11386 *
US-PATENT-CLASS-350-285 ..... c 16 N73-33397 * #
US-PATENT-CLASS-350-285 ..... c 74 N74-15095 * #
US-PATENT-CLASS-350-285 ..... c 74 N80-21138 * #
US-PATENT-CLASS-350-286 ..... c 07 N71-29065 *
US-PATENT-CLASS-350-286 ..... c 73 N78-32848 * #
US-PATENT-CLASS-350-286 ..... c 74 N83-10900 * #
US-PATENT-CLASS-350-287 ..... c 15 N72-11386 *
US-PATENT-CLASS-350-287 ..... c 74 N83-13978 * #
US-PATENT-CLASS-350-288 ..... c 23 N71-29123 *
US-PATENT-CLASS-350-288 ..... c 12 N76-15189 * #
US-PATENT-CLASS-350-288 ..... c 74 N77-28933 * #
US-PATENT-CLASS-350-288 ..... c 44 N79-11471 * #
US-PATENT-CLASS-350-288 ..... c 44 N79-24433 * #
US-PATENT-CLASS-350-292 ..... c 35 N75-12273 * #
US-PATENT-CLASS-350-292 ..... c 44 N79-14529 * #
US-PATENT-CLASS-350-292 ..... c 44 N79-24432 * #
US-PATENT-CLASS-350-293 ..... c 16 N73-16536 * #
US-PATENT-CLASS-350-293 ..... c 12 N76-15189 * #
US-PATENT-CLASS-350-293 ..... c 44 N76-24696 * #
US-PATENT-CLASS-350-293 ..... c 44 N78-10554 * #
US-PATENT-CLASS-350-293 ..... c 44 N79-14529 * #
US-PATENT-CLASS-350-294 ..... c 89 N79-10969 * #
US-PATENT-CLASS-350-294 ..... c 44 N79-24432 * #
US-PATENT-CLASS-350-294 ..... c 32 N80-24510 * #
US-PATENT-CLASS-350-295 ..... c 44 N77-32583 * #
US-PATENT-CLASS-350-295 ..... c 44 N80-14473 * #
US-PATENT-CLASS-350-296 ..... c 44 N79-24432 * #
US-PATENT-CLASS-350-296 ..... c 44 N80-14473 * #
US-PATENT-CLASS-350-299 ..... c 74 N74-21304 * #
US-PATENT-CLASS-350-299 ..... c 44 N76-24696 * #
US-PATENT-CLASS-350-299 ..... c 74 N77-28932 * #
US-PATENT-CLASS-350-299 ..... c 44 N78-10554 * #
US-PATENT-CLASS-350-299 ..... c 44 N78-31526 * #
US-PATENT-CLASS-350-299 ..... c 44 N79-11471 * #
US-PATENT-CLASS-350-299 ..... c 44 N79-24433 * #
US-PATENT-CLASS-350-299 ..... c 36 N84-14509 * #
US-PATENT-CLASS-350-2 ..... c 23 N71-30027 *
US-PATENT-CLASS-350-3.5 ..... c 16 N71-15551 *
US-PATENT-CLASS-350-3.5 ..... c 16 N71-15565 *
US-PATENT-CLASS-350-3.5 ..... c 16 N71-15567 *
US-PATENT-CLASS-350-3.5 ..... c 16 N71-26154 *
US-PATENT-CLASS-350-3.5 ..... c 16 N71-29131 *
US-PATENT-CLASS-350-3.5 ..... c 14 N72-17324 * #
US-PATENT-CLASS-350-3.5 ..... c 16 N73-30476 * #
US-PATENT-CLASS-350-3.5 ..... c 35 N74-15146 * #
US-PATENT-CLASS-350-3.5 ..... c 35 N74-17153 * #
US-PATENT-CLASS-350-3.5 ..... c 35 N74-26946 * #
US-PATENT-CLASS-350-3.5 ..... c 35 N75-25124 * #
US-PATENT-CLASS-350-3.5 ..... c 35 N75-27328 * #
US-PATENT-CLASS-350-3.5 ..... c 35 N76-18402 * #
US-PATENT-CLASS-350-3.5 ..... c 35 N78-17357 * #
US-PATENT-CLASS-350-3.5 ..... c 38 N78-32447 * #
US-PATENT-CLASS-350-301 ..... c 74 N81-17886 * #
US-PATENT-CLASS-350-310 ..... c 11 N69-24321 * #
US-PATENT-CLASS-350-310 ..... c 23 N71-24868 *
US-PATENT-CLASS-350-310 ..... c 23 N71-29123 *
US-PATENT-CLASS-350-310 ..... c 23 N71-33229 *
US-PATENT-CLASS-350-310 ..... c 23 N72-22673 * #
US-PATENT-CLASS-350-310 ..... c 74 N77-28933 * #
US-PATENT-CLASS-350-311 ..... c 74 N75-25706 * #
US-PATENT-CLASS-350-312 ..... c 16 N72-12440 *
US-PATENT-CLASS-350-312 ..... c 74 N85-29750 * #
US-PATENT-CLASS-350-316 ..... c 27 N83-36220 * #
US-PATENT-CLASS-350-319 ..... c 74 N85-29750 * #
US-PATENT-CLASS-350-319 ..... c 74 N86-20125 * #
US-PATENT-CLASS-350-320 ..... c 74 N77-28933 * #
US-PATENT-CLASS-350-320 ..... c 44 N77-32583 * #
US-PATENT-CLASS-350-320 ..... c 73 N78-32848 * #
US-PATENT-CLASS-350-320 ..... c 44 N79-14529 * #
US-PATENT-CLASS-350-320 ..... c 74 N85-29749 * #
US-PATENT-CLASS-350-321 ..... c 74 N85-29750 * #
US-PATENT-CLASS-350-335 ..... c 74 N86-21348 * #
US-PATENT-CLASS-350-342 ..... c 76 N85-33826 * #
US-PATENT-CLASS-350-353 ..... c 74 N83-19597 * #
US-PATENT-CLASS-350-354 ..... c 32 N86-20647 * #
US-PATENT-CLASS-350-358 ..... c 36 N82-29589 * #
US-PATENT-CLASS-350-359 ..... c 36 N80-16321 * #
US-PATENT-CLASS-350-35 ..... c 14 N72-22441 * #
US-PATENT-CLASS-350-36 ..... c 14 N72-22441 * #
US-PATENT-CLASS-350-370 ..... c 35 N81-33448 * #
US-PATENT-CLASS-350-443 ..... c 74 N84-23248 * #
US-PATENT-CLASS-350-445 ..... c 74 N83-36898 * #
US-PATENT-CLASS-350-448 ..... c 74 N86-20125 * #
US-PATENT-CLASS-350-453 ..... c 36 N82-32712 * #
US-PATENT-CLASS-350-486 ..... c 74 N83-13978 * #
US-PATENT-CLASS-350-49 ..... c 14 N72-22441 * #
US-PATENT-CLASS-350-505 ..... c 74 N85-23396 * #
US-PATENT-CLASS-350-52 ..... c 14 N72-22441 * #
US-PATENT-CLASS-350-52 ..... c 14 N72-22444 * #
US-PATENT-CLASS-350-537 ..... c 74 N86-20125 * #
US-PATENT-CLASS-350-55 ..... c 23 N71-33229 *
US-PATENT-CLASS-350-55 ..... c 14 N73-30393 * #
US-PATENT-CLASS-350-55 ..... c 23 N73-30666 * #
US-PATENT-CLASS-350-55 ..... c 89 N79-10969 * #
US-PATENT-CLASS-350-55 ..... c 74 N80-33210 * #
US-PATENT-CLASS-350-580 ..... c 74 N86-20125 * #
US-PATENT-CLASS-350-58 ..... c 14 N71-15604 * #
US-PATENT-CLASS-350-6.5 ..... c 32 N80-24510 * #
US-PATENT-CLASS-350-6.6 ..... c 32 N80-24510 * #
US-PATENT-CLASS-350-619 ..... c 74 N85-23396 * #
US-PATENT-CLASS-350-6 ..... c 14 N69-27461 * #
US-PATENT-CLASS-350-6 ..... c 36 N74-15145 * #
US-PATENT-CLASS-350-79 ..... c 14 N72-32452 * #
US-PATENT-CLASS-350-7 ..... c 74 N74-15095 * #
US-PATENT-CLASS-350-86 ..... c 14 N72-22445 * #
US-PATENT-CLASS-350-96.10 .... c 74 N84-11921 * #
US-PATENT-CLASS-350-96.15 .... c 74 N84-11921 * #
US-PATENT-CLASS-350-96.15 .... c 74 N85-29749 * #
US-PATENT-CLASS-350-96.16 .... c 74 N83-29032 * #
US-PATENT-CLASS-350-96.25 .... c 33 N81-29342 * #
US-PATENT-CLASS-350-96R ..... c 60 N77-14751 * #
US-PATENT-CLASS-350-96R ..... c 60 N77-32731 * #
US-PATENT-CLASS-350-96R ..... c 60 N78-10709 * #
US-PATENT-CLASS-350-96WG ... c 36 N75-31427 * #
US-PATENT-CLASS-350-96WG ... c 36 N76-18428 * #
US-PATENT-CLASS-350-96WG ... c 36 N76-24553 * #
US-PATENT-CLASS-350-96 ..... c 07 N71-26291 *
US-PATENT-CLASS-351-166 ..... c 74 N78-32854 * #
US-PATENT-CLASS-351-23 ..... c 05 N73-26072 * #
US-PATENT-CLASS-351-23 ..... c 52 N76-30793 * #
US-PATENT-CLASS-351-30 ..... c 05 N73-26072 * #
US-PATENT-CLASS-351-30 ..... c 52 N76-30793 * #
US-PATENT-CLASS-351-36 ..... c 05 N73-26072 * #
US-PATENT-CLASS-351-36 ..... c 52 N76-30793 * #
US-PATENT-CLASS-351-38 ..... c 54 N75-27759 * #
US-PATENT-CLASS-352-169 ..... c 14 N73-14427 * #
US-PATENT-CLASS-352-171 ..... c 35 N82-26628 * #
US-PATENT-CLASS-352-84 ..... c 16 N71-33410 *
US-PATENT-CLASS-352-84 ..... c 14 N72-18411 * #
US-PATENT-CLASS-353-54 ..... c 34 N74-23066 * #
US-PATENT-CLASS-353-61 ..... c 34 N74-23066 * #
US-PATENT-CLASS-354-118 ..... c 74 N81-17886 * #
US-PATENT-CLASS-354-217 ..... c 35 N82-26628 * #
US-PATENT-CLASS-354-234 ..... c 33 N74-20861 * #
US-PATENT-CLASS-354-234 ..... c 70 N74-21300 * #
US-PATENT-CLASS-354-289 ..... c 35 N82-26628 * #
US-PATENT-CLASS-354-77 ..... c 74 N79-20856 * #
US-PATENT-CLASS-355-18 ..... c 14 N73-33361 * #
US-PATENT-CLASS-356-103 ..... c 14 N71-28994 *
US-PATENT-CLASS-356-103 ..... c 36 N75-15028 * #
US-PATENT-CLASS-356-103 ..... c 74 N78-13874 * #
US-PATENT-CLASS-356-104 ..... c 16 N71-24074 *
US-PATENT-CLASS-356-104 ..... c 74 N78-13874 * #
US-PATENT-CLASS-356-106LR .. c 36 N75-19653 * #
US-PATENT-CLASS-356-106R .... c 72 N74-19310 * #
US-PATENT-CLASS-356-106R .... c 36 N76-14447 * #
US-PATENT-CLASS-356-106R .... c 35 N77-10493 * #
US-PATENT-CLASS-356-106R .... c 47 N77-10753 * #
US-PATENT-CLASS-356-106S .... c 23 N73-13661 * #
US-PATENT-CLASS-356-106S .... c 35 N76-31490 * #
US-PATENT-CLASS-356-106S .... c 35 N78-18391 * #
US-PATENT-CLASS-356-1065 .... c 35 N74-23040 * #
US-PATENT-CLASS-356-106 ..... c 14 N71-17627 *
US-PATENT-CLASS-356-106 ..... c 14 N71-17655 *
US-PATENT-CLASS-356-106 ..... c 14 N71-27215 *
US-PATENT-CLASS-356-106 ..... c 14 N73-12446 * #
US-PATENT-CLASS-356-106 ..... c 35 N74-15146 * #
US-PATENT-CLASS-356-107 ..... c 16 N71-24170 *
US-PATENT-CLASS-356-108 ..... c 26 N73-26751 * #
US-PATENT-CLASS-356-108 ..... c 16 N73-30476 * #
US-PATENT-CLASS-356-109 ..... c 16 N73-30476 * #
US-PATENT-CLASS-356-110 ..... c 14 N73-25463 * #
US-PATENT-CLASS-356-110 ..... c 35 N78-18391 * #
US-PATENT-CLASS-356-112 ..... c 72 N74-19310 * #
US-PATENT-CLASS-356-113 ..... c 14 N72-17323 * #
US-PATENT-CLASS-356-113 ..... c 35 N74-23040 * #
US-PATENT-CLASS-356-114 ..... c 14 N73-12446 * #
US-PATENT-CLASS-356-114 ..... c 35 N76-31490 * #
US-PATENT-CLASS-356-117 ..... c 23 N71-16101 *
US-PATENT-CLASS-356-120 ..... c 74 N78-27904 * #
US-PATENT-CLASS-356-123 ..... c 74 N76-19935 * #
US-PATENT-CLASS-356-124 ..... c 74 N76-19935 * #
US-PATENT-CLASS-356-124 ..... c 74 N79-11865 * #
US-PATENT-CLASS-356-129 ..... c 74 N79-20856 * #
US-PATENT-CLASS-356-138 ..... c 14 N72-20379 * #
US-PATENT-CLASS-356-138 ..... c 16 N73-33397 * #
US-PATENT-CLASS-356-141 ..... c 14 N72-27409 * #
US-PATENT-CLASS-356-141 ..... c 14 N73-28490 * #
US-PATENT-CLASS-356-141 ..... c 36 N74-21091 * #
US-PATENT-CLASS-356-141 ..... c 89 N74-30886 * #
US-PATENT-CLASS-356-141 ..... c 74 N77-22951 * #
US-PATENT-CLASS-356-147 ..... c 89 N74-30886 * #
US-PATENT-CLASS-356-148 ..... c 16 N73-33397 * #

US-PATENT-CLASS-356-150 ..... c 15 N71-28740 *
US-PATENT-CLASS-356-150 ..... c 74 N80-21138 * #
US-PATENT-CLASS-356-152 ..... c 15 N71-28740 *
US-PATENT-CLASS-356-152 ..... c 16 N72-13437 *
US-PATENT-CLASS-356-152 ..... c 14 N72-20379 * #
US-PATENT-CLASS-356-152 ..... c 14 N72-27409 * #
US-PATENT-CLASS-356-152 ..... c 14 N73-25462 * #
US-PATENT-CLASS-356-152 ..... c 36 N74-15145 * #
US-PATENT-CLASS-356-152 ..... c 36 N74-21091 * #
US-PATENT-CLASS-356-152 ..... c 74 N74-21304 * #
US-PATENT-CLASS-356-152 ..... c 74 N77-22951 * #
US-PATENT-CLASS-356-152 ..... c 74 N80-21138 * #
US-PATENT-CLASS-356-152 ..... c 37 N81-27519 * #
US-PATENT-CLASS-356-153 ..... c 15 N71-28740 *
US-PATENT-CLASS-356-153 ..... c 23 N71-29125 *
US-PATENT-CLASS-356-153 ..... c 16 N73-33397 * #
US-PATENT-CLASS-356-153 ..... c 18 N76-14186 * #
US-PATENT-CLASS-356-154 ..... c 15 N71-26673 *
US-PATENT-CLASS-356-159 ..... c 36 N78-14380 * #
US-PATENT-CLASS-356-160 ..... c 36 N78-14380 * #
US-PATENT-CLASS-356-161 ..... c 26 N73-26751 * #
US-PATENT-CLASS-356-162 ..... c 66 N76-19888 * #
US-PATENT-CLASS-356-165 ..... c 38 N78-17396 * #
US-PATENT-CLASS-356-166 ..... c 14 N71-23175 *
US-PATENT-CLASS-356-167 ..... c 14 N72-11364 *
US-PATENT-CLASS-356-167 ..... c 66 N76-19888 * #
US-PATENT-CLASS-356-167 ..... c 74 N78-27904 * #
US-PATENT-CLASS-356-169 ..... c 60 N78-10709 * #
US-PATENT-CLASS-356-171 ..... c 74 N77-22950 * #
US-PATENT-CLASS-356-172 ..... c 16 N73-33397 * #
US-PATENT-CLASS-356-172 ..... c 36 N74-21091 * #
US-PATENT-CLASS-356-172 ..... c 74 N77-22951 * #
US-PATENT-CLASS-356-17 ..... c 14 N72-21409 * #
US-PATENT-CLASS-356-180 ..... c 35 N74-27860 * #
US-PATENT-CLASS-356-186 ..... c 35 N75-19613 * #
US-PATENT-CLASS-356-188 ..... c 35 N84-33766 * #
US-PATENT-CLASS-356-189 ..... c 35 N75-19613 * #
US-PATENT-CLASS-356-189 ..... c 35 N84-33766 * #
US-PATENT-CLASS-356-18 ..... c 14 N72-21409 * #
US-PATENT-CLASS-356-197 ..... c 37 N74-18123 * #
US-PATENT-CLASS-356-199 ..... c 36 N78-14380 * #
US-PATENT-CLASS-356-1 ..... c 36 N83-34304 * #
US-PATENT-CLASS-356-201 ..... c 75 N74-30156 * #
US-PATENT-CLASS-356-201 ..... c 35 N77-14411 * #
US-PATENT-CLASS-356-202 ..... c 26 N73-26751 * #
US-PATENT-CLASS-356-203 ..... c 14 N71-26788 *
US-PATENT-CLASS-356-204 ..... c 35 N77-14411 * #
US-PATENT-CLASS-356-204 ..... c 74 N78-17867 * #
US-PATENT-CLASS-356-207 ..... c 45 N76-17656 * #
US-PATENT-CLASS-356-208 ..... c 74 N78-33913 * #
US-PATENT-CLASS-356-209 ..... c 23 N71-16341 *
US-PATENT-CLASS-356-209 ..... c 14 N71-28993 *
US-PATENT-CLASS-356-209 ..... c 14 N72-17323 * #
US-PATENT-CLASS-356-209 ..... c 35 N76-31490 * #
US-PATENT-CLASS-356-210 ..... c 74 N79-11865 * #
US-PATENT-CLASS-356-212 ..... c 35 N77-31465 * #
US-PATENT-CLASS-356-213 ..... c 39 N81-25400 * #
US-PATENT-CLASS-356-216 ..... c 74 N74-15095 * #
US-PATENT-CLASS-356-216 ..... c 35 N80-18359 * #
US-PATENT-CLASS-356-216 ..... c 39 N81-25400 * #
US-PATENT-CLASS-356-216 ..... c 35 N84-22931 * #
US-PATENT-CLASS-356-222 ..... c 03 N72-20033 * #
US-PATENT-CLASS-356-222 ..... c 47 N83-32232 * #
US-PATENT-CLASS-356-234 ..... c 39 N81-25400 * #
US-PATENT-CLASS-356-234 ..... c 35 N84-22931 * #
US-PATENT-CLASS-356-236 ..... c 74 N77-21941 * #
US-PATENT-CLASS-356-237 ..... c 74 N77-10899 * #
US-PATENT-CLASS-356-237 ..... c 38 N78-17395 * #
US-PATENT-CLASS-356-237 ..... c 38 N78-17396 * #
US-PATENT-CLASS-356-237 ..... c 35 N79-28527 * #
US-PATENT-CLASS-356-239 ..... c 74 N77-10899 * #
US-PATENT-CLASS-356-241 ..... c 14 N72-32452 * #
US-PATENT-CLASS-356-243 ..... c 36 N80-16321 * #
US-PATENT-CLASS-356-244 ..... c 14 N72-17323 * #
US-PATENT-CLASS-356-244 ..... c 35 N76-31490 * #
US-PATENT-CLASS-356-244 ..... c 35 N80-28687 * #
US-PATENT-CLASS-356-246 ..... c 35 N74-27860 * #
US-PATENT-CLASS-356-246 ..... c 74 N78-17867 * #
US-PATENT-CLASS-356-248 ..... c 14 N72-22444 * #
US-PATENT-CLASS-356-28.5 ..... c 32 N80-24510 * #
US-PATENT-CLASS-356-28.5 ..... c 36 N81-24422 * #
US-PATENT-CLASS-356-28.5 ..... c 36 N82-32712 * #
US-PATENT-CLASS-356-28 ..... c 21 N71-19212 *
US-PATENT-CLASS-356-28 ..... c 16 N71-24828 *
US-PATENT-CLASS-356-28 ..... c 72 N74-19310 * #
US-PATENT-CLASS-356-28 ..... c 36 N75-15028 * #
US-PATENT-CLASS-356-28 ..... c 35 N75-16783 * #
US-PATENT-CLASS-356-28 ..... c 36 N76-14447 * #
US-PATENT-CLASS-356-28 ..... c 36 N77-25501 * #
US-PATENT-CLASS-356-28 ..... c 74 N78-17866 * #
US-PATENT-CLASS-356-28 ..... c 35 N79-18296 * #
US-PATENT-CLASS-356-28 ..... c 36 N80-16321 * #
US-PATENT-CLASS-356-300 ..... c 43 N79-17288 * #
US-PATENT-CLASS-356-323 ..... c 74 N85-23396 * #
US-PATENT-CLASS-356-328 ..... c 35 N80-26635 * #
US-PATENT-CLASS-356-32 ..... c 14 N72-11364 *
US-PATENT-CLASS-356-32 ..... c 32 N73-20740 * #
US-PATENT-CLASS-356-32 ..... c 39 N81-25400 * #
US-PATENT-CLASS-356-330 ..... c 74 N85-23396 * #
US-PATENT-CLASS-356-331 ..... c 74 N85-23396 * #
US-PATENT-CLASS-356-334 ..... c 74 N80-21140 * #
US-PATENT-CLASS-356-345 ..... c 74 N81-17888 * #
US-PATENT-CLASS-356-345 ..... c 74 N81-29963 * #
US-PATENT-CLASS-356-345 ..... c 36 N84-14509 * #
US-PATENT-CLASS-356-345 ..... c 74 N86-21348 * #
US-PATENT-CLASS-356-346 ..... c 35 N80-20563 * #
US-PATENT-CLASS-356-346 ..... c 74 N81-29963 * #
US-PATENT-CLASS-356-347 ..... c 35 N84-22929 * #
US-PATENT-CLASS-356-349 ..... c 36 N82-16396 * #
US-PATENT-CLASS-356-350 ..... c 35 N81-33448 * #
US-PATENT-CLASS-356-351 ..... c 35 N81-33448 * #
US-PATENT-CLASS-356-351 ..... c 35 N85-30282 * #
US-PATENT-CLASS-356-352 ..... c 74 N81-17888 * #
US-PATENT-CLASS-356-353 ..... c 74 N83-32577 * #
US-PATENT-CLASS-356-356 ..... c 36 N81-24422 * #
US-PATENT-CLASS-356-357 ..... c 74 N83-21949 * #
US-PATENT-CLASS-356-358 ..... c 74 N81-17888 * #
US-PATENT-CLASS-356-358 ..... c 36 N81-24422 * #
US-PATENT-CLASS-356-358 ..... c 35 N85-30282 * #
US-PATENT-CLASS-356-363 ..... c 74 N83-32577 * #
US-PATENT-CLASS-356-369 ..... c 35 N80-28687 * #
US-PATENT-CLASS-356-36 ..... c 23 N71-16365 *
US-PATENT-CLASS-356-37 ..... c 45 N76-21742 * #
US-PATENT-CLASS-356-386 ..... c 36 N82-16396 * #
US-PATENT-CLASS-356-394 ..... c 33 N83-18996 * #
US-PATENT-CLASS-356-4.5 ..... c 74 N86-21348 * #
US-PATENT-CLASS-356-404 ..... c 35 N79-28527 * #
US-PATENT-CLASS-356-406 ..... c 52 N81-27783 * #
US-PATENT-CLASS-356-407 ..... c 43 N79-17288 * #
US-PATENT-CLASS-356-407 ..... c 52 N81-27783 * #
US-PATENT-CLASS-356-416 ..... c 43 N79-17288 * #
US-PATENT-CLASS-356-416 ..... c 52 N81-27783 * #
US-PATENT-CLASS-356-432 ..... c 74 N81-17887 * #
US-PATENT-CLASS-356-432 ..... c 25 N81-25159 * #
US-PATENT-CLASS-356-434 ..... c 35 N84-34705 * #
US-PATENT-CLASS-356-437 ..... c 25 N81-14015 * #
US-PATENT-CLASS-356-43 ..... c 74 N74-15095 * #
US-PATENT-CLASS-356-43 ..... c 75 N74-30156 * #
US-PATENT-CLASS-356-43 ..... c 36 N85-21639 * #
US-PATENT-CLASS-356-45 ..... c 36 N85-21639 * #
US-PATENT-CLASS-356-4 ..... c 14 N72-17326 * #
US-PATENT-CLASS-356-4 ..... c 07 N73-26119 * #
US-PATENT-CLASS-356-4 ..... c 36 N74-15145 * #
US-PATENT-CLASS-356-4 ..... c 35 N75-15014 * #
US-PATENT-CLASS-356-4 ..... c 36 N83-34304 * #
US-PATENT-CLASS-356-51 ..... c 06 N72-31141 * #
US-PATENT-CLASS-356-51 ..... c 35 N75-30502 * #
US-PATENT-CLASS-356-51 ..... c 35 N83-21311 * #
US-PATENT-CLASS-356-51 ..... c 35 N84-34705 * #
US-PATENT-CLASS-356-5 ..... c 07 N73-26119 * #
US-PATENT-CLASS-356-5 ..... c 36 N74-15145 * #
US-PATENT-CLASS-356-5 ..... c 36 N75-15028 * #
US-PATENT-CLASS-356-5 ..... c 32 N82-23376 * #
US-PATENT-CLASS-356-5 ..... c 74 N85-34629 * #
US-PATENT-CLASS-356-71 ..... c 66 N76-19888 * #
US-PATENT-CLASS-356-72 ..... c 14 N71-23268 *
US-PATENT-CLASS-356-72 ..... c 33 N73-27796 * #
US-PATENT-CLASS-356-72 ..... c 38 N78-32447 * #
US-PATENT-CLASS-356-72 ..... c 74 N80-33210 * #
US-PATENT-CLASS-356-73 ..... c 75 N74-30156 * #
US-PATENT-CLASS-356-73 ..... c 38 N78-32447 * #
US-PATENT-CLASS-356-73 ..... c 35 N84-33766 * #
US-PATENT-CLASS-356-74 ..... c 30 N71-15990 *
US-PATENT-CLASS-356-74 ..... c 35 N84-33766 * #
US-PATENT-CLASS-356-76 ..... c 23 N71-26206 *
US-PATENT-CLASS-356-76 ..... c 14 N71-29041 *
US-PATENT-CLASS-356-83 ..... c 35 N75-19613 * #
US-PATENT-CLASS-356-85 ..... c 37 N74-18123 * #
US-PATENT-CLASS-356-85 ..... c 75 N74-30156 * #
US-PATENT-CLASS-356-87 ..... c 75 N74-30156 * #
US-PATENT-CLASS-356-96 ..... c 35 N75-19613 * #
US-PATENT-CLASS-356-97 ..... c 35 N77-14411 * #
US-PATENT-CLASS-357-12 ..... c 33 N85-21492 * #
US-PATENT-CLASS-357-15 ..... c 44 N78-13526 * #
US-PATENT-CLASS-357-15 ..... c 44 N79-11467 * #
US-PATENT-CLASS-357-15 ..... c 44 N81-29525 * #
US-PATENT-CLASS-357-15 ..... c 76 N86-20150 * #
US-PATENT-CLASS-357-16 ..... c 44 N78-13526 * #
US-PATENT-CLASS-357-16 ..... c 44 N79-11467 * #
US-PATENT-CLASS-357-17 ..... c 36 N85-30305 * #
US-PATENT-CLASS-357-22 ..... c 33 N79-11314 * #
US-PATENT-CLASS-357-22 ..... c 33 N79-12321 * #
US-PATENT-CLASS-357-23.6 ..... c 33 N86-19516 * #
US-PATENT-CLASS-357-23 ..... c 76 N75-25730 * #
US-PATENT-CLASS-357-23 ..... c 33 N79-12321 * #
US-PATENT-CLASS-357-23 ..... c 33 N81-26360 * #
US-PATENT-CLASS-357-24 ..... c 33 N75-31331 * #
US-PATENT-CLASS-357-29 ..... c 76 N75-25730 * #
US-PATENT-CLASS-357-29 ..... c 35 N84-33765 * #
US-PATENT-CLASS-357-30 ..... c 44 N76-28635 * #
US-PATENT-CLASS-357-30 ..... c 44 N78-13526 * #
US-PATENT-CLASS-357-30 ..... c 44 N78-24609 * #
US-PATENT-CLASS-357-30 ..... c 44 N78-25527 * #
US-PATENT-CLASS-357-30 ..... c 44 N79-11467 * #
US-PATENT-CLASS-357-30 ..... c 44 N79-14528 * #
US-PATENT-CLASS-357-30 ..... c 44 N79-31752 * #
US-PATENT-CLASS-357-30 ..... c 44 N80-29835 * #
US-PATENT-CLASS-357-30 ..... c 44 N81-19558 * #
US-PATENT-CLASS-357-30 ..... c 44 N81-29525 * #
US-PATENT-CLASS-357-30 ..... c 44 N82-26777 * #
US-PATENT-CLASS-357-30 ..... c 44 N82-29709 * #
US-PATENT-CLASS-357-30 ..... c 44 N82-31764 * #
US-PATENT-CLASS-357-30 ..... c 44 N83-13579 * #
US-PATENT-CLASS-357-30 ..... c 44 N83-32177 * #
US-PATENT-CLASS-357-30 ..... c 35 N84-33765 * #
US-PATENT-CLASS-357-30 ..... c 33 N85-21492 * #
US-PATENT-CLASS-357-30 ..... c 44 N85-21768 * #
US-PATENT-CLASS-357-30 ..... c 44 N85-30475 * #
US-PATENT-CLASS-357-30 ..... c 33 N86-19516 * #
US-PATENT-CLASS-357-30 ..... c 76 N86-20150 * #
US-PATENT-CLASS-357-32 ..... c 35 N84-33765 * #
US-PATENT-CLASS-357-40 ..... c 36 N85-30305 * #
US-PATENT-CLASS-357-41 ..... c 33 N79-12321 * #
US-PATENT-CLASS-357-42 ..... c 76 N75-25730 * #
US-PATENT-CLASS-357-45 ..... c 33 N79-12321 * #
US-PATENT-CLASS-357-45 ..... c 44 N79-26475 * #
US-PATENT-CLASS-357-46 ..... c 36 N85-30305 * #
US-PATENT-CLASS-357-4 ..... c 33 N78-13320 * #
US-PATENT-CLASS-357-4 ..... c 76 N85-30922 * #
US-PATENT-CLASS-357-50 ..... c 76 N85-30922 * #
US-PATENT-CLASS-357-52 ..... c 76 N75-25730 * #
US-PATENT-CLASS-357-52 ..... c 44 N80-29835 * #
US-PATENT-CLASS-357-54 ..... c 76 N75-25730 * #
US-PATENT-CLASS-357-55 ..... c 33 N79-12321 * #
US-PATENT-CLASS-357-55 ..... c 33 N81-26360 * #
US-PATENT-CLASS-357-58 ..... c 33 N86-19516 * #
US-PATENT-CLASS-357-59 ..... c 44 N76-28635 * #
US-PATENT-CLASS-357-59 ..... c 44 N78-24609 * #
US-PATENT-CLASS-357-59 ..... c 44 N81-19558 * #
US-PATENT-CLASS-357-59 ..... c 33 N86-19516 * #
US-PATENT-CLASS-357-5 ..... c 33 N75-31332 * #
US-PATENT-CLASS-357-5 ..... c 33 N78-13320 * #
US-PATENT-CLASS-357-60 ..... c 33 N81-26360 * #
US-PATENT-CLASS-357-63 ..... c 33 N76-31409 * #
US-PATENT-CLASS-357-63 ..... c 44 N81-19558 * #
US-PATENT-CLASS-357-63 ..... c 44 N82-26777 * #
US-PATENT-CLASS-357-65 ..... c 44 N78-25527 * #
US-PATENT-CLASS-357-65 ..... c 44 N79-11467 * #
US-PATENT-CLASS-357-65 ..... c 44 N79-31752 * #
US-PATENT-CLASS-357-67 ..... c 44 N78-25527 * #
US-PATENT-CLASS-357-67 ..... c 44 N79-11467 * #
US-PATENT-CLASS-357-67 ..... c 44 N79-31752 * #
US-PATENT-CLASS-357-73 ..... c 33 N78-13320 * #
US-PATENT-CLASS-357-74 ..... c 37 N79-28549 * #
US-PATENT-CLASS-357-79 ..... c 37 N79-28549 * #
US-PATENT-CLASS-357-7 ..... c 33 N75-31331 * #
US-PATENT-CLASS-357-81 ..... c 37 N79-28549 * #
US-PATENT-CLASS-357-82 ..... c 37 N79-28549 * #
US-PATENT-CLASS-357-83 ..... c 37 N79-28549 * #
US-PATENT-CLASS-357-91 ..... c 76 N75-25730 * #
US-PATENT-CLASS-357-91 ..... c 33 N78-27326 * #
US-PATENT-CLASS-357-91 ..... c 44 N80-29835 * #
US-PATENT-CLASS-357-91 ..... c 33 N81-26360 * #
US-PATENT-CLASS-358-101 ..... c 37 N86-21850 * #
US-PATENT-CLASS-358-104 ..... c 09 N78-18083 * #
US-PATENT-CLASS-358-104 ..... c 74 N79-13855 * #
US-PATENT-CLASS-358-104 ..... c 36 N83-34304 * #
US-PATENT-CLASS-358-105 ..... c 39 N83-20280 * #
US-PATENT-CLASS-358-105 ..... c 74 N86-21348 * #
US-PATENT-CLASS-358-106 ..... c 39 N78-16387 * #
US-PATENT-CLASS-358-107 ..... c 35 N79-18296 * #
US-PATENT-CLASS-358-109 ..... c 32 N79-20297 * #
US-PATENT-CLASS-358-109 ..... c 33 N81-33403 * #
US-PATENT-CLASS-358-109 ..... c 43 N82-13465 * #
US-PATENT-CLASS-358-109 ..... c 36 N83-34304 * #
US-PATENT-CLASS-358-109 ..... c 32 N85-29117 * #
US-PATENT-CLASS-358-111 ..... c 52 N79-10724 * #
US-PATENT-CLASS-358-125 ..... c 74 N84-23247 * #
US-PATENT-CLASS-358-125 ..... c 74 N86-21348 * #
US-PATENT-CLASS-358-133 ..... c 32 N77-24328 * #
US-PATENT-CLASS-358-133 ..... c 32 N85-29117 * #
US-PATENT-CLASS-358-138 ..... c 32 N77-24328 * #
US-PATENT-CLASS-358-142 ..... c 74 N78-14889 * #
US-PATENT-CLASS-358-161 ..... c 32 N85-21427 * #
US-PATENT-CLASS-358-168 ..... c 32 N86-20647 * #
US-PATENT-CLASS-358-174 ..... c 32 N85-21427 * #
US-PATENT-CLASS-358-213 ..... c 33 N81-33403 * #
US-PATENT-CLASS-358-213 ..... c 33 N82-24416 * #
US-PATENT-CLASS-358-213 ..... c 74 N84-23247 * #
US-PATENT-CLASS-358-217 ..... c 32 N85-21427 * #
US-PATENT-CLASS-358-219 ..... c 32 N85-21427 * #
US-PATENT-CLASS-358-225 ..... c 74 N78-17865 * #
US-PATENT-CLASS-358-36 ..... c 32 N75-21485 * #
US-PATENT-CLASS-358-41 ..... c 74 N78-17865 * #
US-PATENT-CLASS-358-44 ..... c 74 N77-18893 * #
US-PATENT-CLASS-358-55 ..... c 74 N78-17865 * #
US-PATENT-CLASS-358-81 ..... c 32 N79-20297 * #
US-PATENT-CLASS-358-88 ..... c 74 N86-21348 * #

US-PATENT-CLASS-358-96 ..... c 52 N79-10724 * #
US-PATENT-CLASS-36-119 ..... c 54 N78-17675 * #
US-PATENT-CLASS-36-92 ..... c 54 N78-17675 * #
US-PATENT-CLASS-360-101 ..... c 35 N76-16391 * #
US-PATENT-CLASS-360-10 ..... c 35 N76-16391 * #
US-PATENT-CLASS-360-25 ..... c 35 N77-17426 * #
US-PATENT-CLASS-360-26 ..... c 33 N76-18353 * #
US-PATENT-CLASS-360-31 ..... c 35 N77-17426 * #
US-PATENT-CLASS-360-35 ..... c 35 N76-16391 * #
US-PATENT-CLASS-360-51 ..... c 33 N76-18353 * #
US-PATENT-CLASS-360-9 ..... c 35 N76-16391 * #
US-PATENT-CLASS-361-100 ..... c 33 N83-34190 * #
US-PATENT-CLASS-361-141 ..... c 33 N82-11357 * #
US-PATENT-CLASS-361-170 ..... c 33 N79-28415 * #
US-PATENT-CLASS-361-226 ..... c 28 N82-18401 * #
US-PATENT-CLASS-361-230 ..... c 28 N82-18401 * #
US-PATENT-CLASS-361-283 ..... c 33 N82-26572 * #
US-PATENT-CLASS-361-334 ..... c 35 N81-26431 * #
US-PATENT-CLASS-361-395 ..... c 32 N78-24391 * #
US-PATENT-CLASS-361-56 ..... c 33 N81-27397 * #
US-PATENT-CLASS-361-91 ..... c 33 N81-27397 * #
US-PATENT-CLASS-362-11 ..... c 74 N81-17886 * #
US-PATENT-CLASS-362-241 ..... c 74 N81-17886 * #
US-PATENT-CLASS-362-269 ..... c 17 N78-17140 * #
US-PATENT-CLASS-363-100 ..... c 33 N85-29147 * #
US-PATENT-CLASS-363-101 ..... c 33 N78-32341 * #
US-PATENT-CLASS-363-101 ..... c 33 N81-19392 * #
US-PATENT-CLASS-363-132 ..... c 33 N82-18494 * #
US-PATENT-CLASS-363-134 ..... c 33 N79-24257 * #
US-PATENT-CLASS-363-147 ..... c 44 N81-12542 * #
US-PATENT-CLASS-363-16 ..... c 33 N78-32341 * #
US-PATENT-CLASS-363-17 ..... c 33 N82-18494 * #
US-PATENT-CLASS-363-19 ..... c 33 N85-29147 * #
US-PATENT-CLASS-363-21 ..... c 33 N81-19392 * #
US-PATENT-CLASS-363-21 ..... c 33 N81-19393 * #
US-PATENT-CLASS-363-22 ..... c 33 N84-33663 * #
US-PATENT-CLASS-363-23 ..... c 33 N85-29147 * #
US-PATENT-CLASS-363-24 ..... c 33 N81-33404 * #
US-PATENT-CLASS-363-25 ..... c 33 N84-16453 * #
US-PATENT-CLASS-363-27 ..... c 44 N81-12542 * #
US-PATENT-CLASS-363-36 ..... c 33 N81-19393 * #
US-PATENT-CLASS-363-40 ..... c 33 N81-19393 * #
US-PATENT-CLASS-363-47 ..... c 33 N81-19393 * #
US-PATENT-CLASS-363-49 ..... c 33 N84-33663 * #
US-PATENT-CLASS-363-53 ..... c 33 N77-30365 * #
US-PATENT-CLASS-363-54 ..... c 33 N83-34190 * #
US-PATENT-CLASS-363-56 ..... c 33 N79-24254 * #
US-PATENT-CLASS-363-56 ..... c 33 N81-14220 * #
US-PATENT-CLASS-363-56 ..... c 33 N81-33404 * #
US-PATENT-CLASS-363-57 ..... c 33 N78-10377 * #
US-PATENT-CLASS-363-60 ..... c 33 N78-32341 * #
US-PATENT-CLASS-363-60 ..... c 44 N81-12542 * #
US-PATENT-CLASS-363-61 ..... c 33 N82-18494 * #
US-PATENT-CLASS-363-61 ..... c 33 N85-29147 * #
US-PATENT-CLASS-363-65 ..... c 33 N84-16453 * #
US-PATENT-CLASS-363-67 ..... c 33 N84-16453 * #
US-PATENT-CLASS-363-70 ..... c 33 N77-30365 * #
US-PATENT-CLASS-363-71 ..... c 33 N79-24254 * #
US-PATENT-CLASS-363-71 ..... c 33 N79-24257 * #
US-PATENT-CLASS-363-71 ..... c 33 N81-14220 * #
US-PATENT-CLASS-363-71 ..... c 33 N84-16453 * #
US-PATENT-CLASS-363-71 ..... c 33 N85-29147 * #
US-PATENT-CLASS-363-78 ..... c 33 N81-14220 * #
US-PATENT-CLASS-363-87 ..... c 33 N83-10345 * #
US-PATENT-CLASS-363-89 ..... c 33 N78-10377 * #
US-PATENT-CLASS-363-95 ..... c 33 N79-24257 * #
US-PATENT-CLASS-363-97 ..... c 33 N79-24254 * #
US-PATENT-CLASS-364-106 ..... c 07 N81-19115 * #
US-PATENT-CLASS-364-120 ..... c 52 N79-12694 * #
US-PATENT-CLASS-364-200 ..... c 62 N81-24779 * #
US-PATENT-CLASS-364-200 ..... c 60 N81-27814 * #
US-PATENT-CLASS-364-200 ..... c 60 N83-25378 * #
US-PATENT-CLASS-364-200 ..... c 60 N83-32342 * #
US-PATENT-CLASS-364-200 ..... c 32 N85-21428 * #
US-PATENT-CLASS-364-200 ..... c 60 N85-21992 * #
US-PATENT-CLASS-364-300 ..... c 52 N79-12694 * #
US-PATENT-CLASS-364-400 ..... c 33 N85-29142 * #
US-PATENT-CLASS-364-413 ..... c 39 N83-20280 * #
US-PATENT-CLASS-364-415 ..... c 52 N79-12694 * #
US-PATENT-CLASS-364-415 ..... c 35 N84-12445 * #
US-PATENT-CLASS-364-417 ..... c 52 N79-10724 * #
US-PATENT-CLASS-364-431 ..... c 07 N81-19115 * #
US-PATENT-CLASS-364-434 ..... c 08 N79-23097 * #
US-PATENT-CLASS-364-434 ..... c 08 N81-24106 * #
US-PATENT-CLASS-364-452 ..... c 04 N84-27713 * #
US-PATENT-CLASS-364-453 ..... c 18 N81-29152 * #
US-PATENT-CLASS-364-453 ..... c 33 N85-29142 * #
US-PATENT-CLASS-364-458 ..... c 32 N79-14267 * #
US-PATENT-CLASS-364-510 ..... c 34 N81-26402 * #
US-PATENT-CLASS-364-514 ..... c 33 N81-33405 * #
US-PATENT-CLASS-364-522 ..... c 39 N83-20280 * #
US-PATENT-CLASS-364-556 ..... c 36 N85-29264 * #
US-PATENT-CLASS-364-557 ..... c 35 N84-14491 * #
US-PATENT-CLASS-364-558 ..... c 35 N84-14491 * #
US-PATENT-CLASS-364-558 ..... c 07 N84-22559 * #
US-PATENT-CLASS-364-559 ..... c 39 N83-20280 * #
US-PATENT-CLASS-364-560 ..... c 43 N79-26439 * #
US-PATENT-CLASS-364-566 ..... c 18 N81-29152 * #
US-PATENT-CLASS-364-571 ..... c 34 N81-26402 * #
US-PATENT-CLASS-364-571 ..... c 35 N84-14491 * #
US-PATENT-CLASS-364-571 ..... c 33 N85-34333 * #
US-PATENT-CLASS-364-578 ..... c 33 N85-34333 * #
US-PATENT-CLASS-364-604 ..... c 32 N79-14267 * #
US-PATENT-CLASS-364-713 ..... c 32 N79-20297 * #
US-PATENT-CLASS-364-717 ..... c 32 N82-31583 * #
US-PATENT-CLASS-364-723 ..... c 60 N85-33701 * #
US-PATENT-CLASS-364-728 ..... c 32 N79-14267 * #
US-PATENT-CLASS-364-728 ..... c 60 N86-21154 * #
US-PATENT-CLASS-364-822 ..... c 32 N83-18975 * #
US-PATENT-CLASS-364-822 ..... c 74 N86-21348 * #
US-PATENT-CLASS-364-825 ..... c 33 N82-24417 * #
US-PATENT-CLASS-364-853 ..... c 60 N85-33701 * #
US-PATENT-CLASS-364-861 ..... c 32 N83-18975 * #
US-PATENT-CLASS-364-900 ..... c 52 N79-12694 * #
US-PATENT-CLASS-364-900 ..... c 60 N79-20751 * #
US-PATENT-CLASS-364-900 ..... c 60 N81-27814 * #
US-PATENT-CLASS-364-900 ..... c 60 N83-32342 * #
US-PATENT-CLASS-364-900 ..... c 60 N84-28491 * #
US-PATENT-CLASS-364-900 ..... c 60 N84-28492 * #
US-PATENT-CLASS-365-120 ..... c 33 N81-29342 * #
US-PATENT-CLASS-366-106 ..... c 71 N84-28568 * #
US-PATENT-CLASS-366-114 ..... c 71 N83-35781 * #
US-PATENT-CLASS-367-100 ..... c 32 N82-18443 * #
US-PATENT-CLASS-367-102 ..... c 32 N82-18443 * #
US-PATENT-CLASS-367-181 ..... c 33 N82-26572 * #
US-PATENT-CLASS-367-189 ..... c 35 N84-22933 * #
US-PATENT-CLASS-367-26 ..... c 39 N80-10507 * #
US-PATENT-CLASS-367-27 ..... c 31 N80-32584 * #
US-PATENT-CLASS-367-36 ..... c 31 N80-32584 * #
US-PATENT-CLASS-367-57 ..... c 31 N80-32584 * #
US-PATENT-CLASS-367-88 ..... c 32 N82-18443 * #
US-PATENT-CLASS-367-88 ..... c 32 N83-31918 * #
US-PATENT-CLASS-367-88 ..... c 43 N86-19711 * #
US-PATENT-CLASS-367-95 ..... c 32 N82-23376 * #
US-PATENT-CLASS-368-184 ..... c 33 N83-36357 * #
US-PATENT-CLASS-368-200 ..... c 33 N83-36357 * #
US-PATENT-CLASS-368-201 ..... c 33 N83-36357 * #
US-PATENT-CLASS-368-47 ..... c 33 N81-14221 * #
US-PATENT-CLASS-37N ..... c 27 N81-15104 * #
US-PATENT-CLASS-370-100 ..... c 60 N82-16747 * #
US-PATENT-CLASS-370-58 ..... c 60 N81-27814 * #
US-PATENT-CLASS-370-67 ..... c 33 N82-29538 * #
US-PATENT-CLASS-370-85 ..... c 33 N81-14221 * #
US-PATENT-CLASS-371-20 ..... c 33 N81-26359 * #
US-PATENT-CLASS-371-25 ..... c 33 N81-26359 * #
US-PATENT-CLASS-371-68 ..... c 60 N82-29013 * #
US-PATENT-CLASS-371-6 ..... c 32 N83-13323 * #
US-PATENT-CLASS-372-100 ..... c 36 N84-14509 * #
US-PATENT-CLASS-372-103 ..... c 36 N84-28065 * #
US-PATENT-CLASS-372-108 ..... c 36 N84-14509 * #
US-PATENT-CLASS-372-20 ..... c 36 N84-22943 * #
US-PATENT-CLASS-372-25 ..... c 33 N83-34189 * #
US-PATENT-CLASS-372-28 ..... c 36 N84-22943 * #
US-PATENT-CLASS-372-32 ..... c 36 N84-22943 * #
US-PATENT-CLASS-372-32 ..... c 33 N85-34333 * #
US-PATENT-CLASS-372-38 ..... c 36 N85-30305 * #
US-PATENT-CLASS-372-46 ..... c 36 N85-30305 * #
US-PATENT-CLASS-372-4 ..... c 36 N84-28065 * #
US-PATENT-CLASS-372-50 ..... c 36 N85-30305 * #
US-PATENT-CLASS-372-55 ..... c 36 N84-16542 * #
US-PATENT-CLASS-372-56 ..... c 36 N82-28616 * #
US-PATENT-CLASS-372-56 ..... c 36 N83-10417 * #
US-PATENT-CLASS-372-58 ..... c 36 N82-28616 * #
US-PATENT-CLASS-372-59 ..... c 36 N83-10417 * #
US-PATENT-CLASS-372-60 ..... c 36 N83-10417 * #
US-PATENT-CLASS-372-71 ..... c 36 N84-28065 * #
US-PATENT-CLASS-372-74 ..... c 35 N84-12444 * #
US-PATENT-CLASS-372-79 ..... c 36 N84-16542 * #
US-PATENT-CLASS-372-82 ..... c 36 N82-28616 * #
US-PATENT-CLASS-372-93 ..... c 36 N84-14509 * #
US-PATENT-CLASS-372-93 ..... c 36 N84-28065 * #
US-PATENT-CLASS-372-94 ..... c 36 N84-14509 * #
US-PATENT-CLASS-372-95 ..... c 36 N84-28065 * #
US-PATENT-CLASS-372-98 ..... c 36 N84-14509 * #
US-PATENT-CLASS-374-115 ..... c 35 N86-19580 * #
US-PATENT-CLASS-374-117 ..... c 52 N85-30618 * #
US-PATENT-CLASS-374-120 ..... c 35 N86-19580 * #
US-PATENT-CLASS-374-122 ..... c 06 N83-10040 * #
US-PATENT-CLASS-374-122 ..... c 43 N85-21723 * #
US-PATENT-CLASS-374-123 ..... c 06 N83-10040 * #
US-PATENT-CLASS-374-137 ..... c 36 N85-21639 * #
US-PATENT-CLASS-374-160 ..... c 52 N85-30618 * #
US-PATENT-CLASS-374-162R ..... c 74 N82-30071 * #
US-PATENT-CLASS-374-163 ..... c 35 N86-19580 * #
US-PATENT-CLASS-374-17 ..... c 35 N83-29650 * #
US-PATENT-CLASS-374-1 ..... c 35 N84-28019 * #
US-PATENT-CLASS-374-208 ..... c 37 N85-21651 * #
US-PATENT-CLASS-374-210 ..... c 37 N85-21651 * #
US-PATENT-CLASS-374-46 ..... c 34 N83-34221 * #
US-PATENT-CLASS-374-46 ..... c 25 N86-19413 * #
US-PATENT-CLASS-374-51 ..... c 39 N83-32081 * #
US-PATENT-CLASS-374-8 ..... c 25 N86-19413 * #
US-PATENT-CLASS-375-104 ..... c 35 N81-19427 * #
US-PATENT-CLASS-375-106 ..... c 60 N82-16747 * #
US-PATENT-CLASS-375-106 ..... c 32 N82-31583 * #
US-PATENT-CLASS-375-107 ..... c 32 N81-14186 * #
US-PATENT-CLASS-375-114 ..... c 60 N82-16747 * #
US-PATENT-CLASS-375-115 ..... c 32 N81-15179 * #
US-PATENT-CLASS-375-116 ..... c 60 N82-16747 * #
US-PATENT-CLASS-375-120 ..... c 32 N84-27952 * #
US-PATENT-CLASS-375-1 ..... c 32 N81-15179 * #
US-PATENT-CLASS-375-1 ..... c 35 N81-19427 * #
US-PATENT-CLASS-375-1 ..... c 33 N81-33405 * #
US-PATENT-CLASS-375-34 ..... c 35 N81-19427 * #
US-PATENT-CLASS-375-54 ..... c 33 N81-15192 * #
US-PATENT-CLASS-375-58 ..... c 32 N81-15179 * #
US-PATENT-CLASS-375-67 ..... c 33 N81-15192 * #
US-PATENT-CLASS-375-77 ..... c 32 N84-27952 * #
US-PATENT-CLASS-375-81 ..... c 32 N84-27952 * #
US-PATENT-CLASS-375-99 ..... c 35 N81-19427 * #
US-PATENT-CLASS-376-159 ..... c 25 N85-21279 * #
US-PATENT-CLASS-378-104 ..... c 33 N85-29147 * #
US-PATENT-CLASS-378-112 ..... c 33 N85-29147 * #
US-PATENT-CLASS-378-2 ..... c 34 N83-19015 * #
US-PATENT-CLASS-378-2 ..... c 74 N84-11920 * #
US-PATENT-CLASS-378-43 ..... c 34 N83-19015 * #
US-PATENT-CLASS-378-43 ..... c 74 N86-20124 * #
US-PATENT-CLASS-378-58 ..... c 74 N86-20126 * #
US-PATENT-CLASS-378-59 ..... c 74 N86-20126 * #
US-PATENT-CLASS-378-85 ..... c 74 N86-20124 * #
US-PATENT-CLASS-382-42 ..... c 74 N86-21348 * #
US-PATENT-CLASS-384-101 ..... c 37 N85-33490 * #
US-PATENT-CLASS-384-103 ..... c 37 N86-19606 * #
US-PATENT-CLASS-384-106 ..... c 37 N86-19606 * #
US-PATENT-CLASS-384-124 ..... c 27 N83-34043 * #
US-PATENT-CLASS-384-99 ..... c 37 N85-33490 * #
US-PATENT-CLASS-39-25.35 ..... c 33 N86-20671 * #
US-PATENT-CLASS-4-10 ..... c 54 N74-20725 * #
US-PATENT-CLASS-4-110 ..... c 05 N72-22093 * #
US-PATENT-CLASS-4-120 ..... c 54 N74-20725 * #
US-PATENT-CLASS-4-144.3 ..... c 52 N81-24711 * #
US-PATENT-CLASS-4-144.3 ..... c 52 N81-28740 * #
US-PATENT-CLASS-4-498 ..... c 44 N84-34792 * #
US-PATENT-CLASS-4-99 ..... c 05 N72-22093 * #
US-PATENT-CLASS-40-28 ..... c 12 N71-18603 *
US-PATENT-CLASS-403-102 ..... c 37 N85-30336 * #
US-PATENT-CLASS-403-105 ..... c 37 N79-14382 * #
US-PATENT-CLASS-403-113 ..... c 37 N86-19605 * #
US-PATENT-CLASS-403-120 ..... c 37 N86-19605 * #
US-PATENT-CLASS-403-143 ..... c 18 N85-29991 * #
US-PATENT-CLASS-403-15 ..... c 37 N85-30334 * #
US-PATENT-CLASS-403-16 ..... c 37 N85-30334 * #
US-PATENT-CLASS-403-171 ..... c 31 N81-25258 * #
US-PATENT-CLASS-403-171 ..... c 31 N86-19479 * #
US-PATENT-CLASS-403-179 ..... c 27 N76-14264 * #
US-PATENT-CLASS-403-217 ..... c 37 N82-32732 * #
US-PATENT-CLASS-403-273 ..... c 37 N77-23482 * #
US-PATENT-CLASS-403-282 ..... c 26 N83-10170 * #
US-PATENT-CLASS-403-28 ..... c 27 N76-14264 * #
US-PATENT-CLASS-403-28 ..... c 37 N85-29285 * #
US-PATENT-CLASS-403-315 ..... c 37 N82-24494 * #
US-PATENT-CLASS-403-317 ..... c 37 N82-32732 * #
US-PATENT-CLASS-403-317 ..... c 37 N85-21649 * #
US-PATENT-CLASS-403-322 ..... c 18 N84-22605 * #
US-PATENT-CLASS-403-322 ..... c 37 N85-30334 * #
US-PATENT-CLASS-403-322 ..... c 37 N85-30336 * #
US-PATENT-CLASS-403-328 ..... c 18 N86-20469 * #
US-PATENT-CLASS-403-331 ..... c 37 N82-32732 * #
US-PATENT-CLASS-403-340 ..... c 37 N82-32732 * #
US-PATENT-CLASS-403-348 ..... c 37 N85-30336 * #
US-PATENT-CLASS-403-408 ..... c 37 N85-29285 * #
US-PATENT-CLASS-403-56 ..... c 18 N85-29991 * #
US-PATENT-CLASS-403-64 ..... c 31 N86-19479 * #
US-PATENT-CLASS-403-76 ..... c 18 N85-29991 * #
US-PATENT-CLASS-403-90 ..... c 18 N85-29991 * #
US-PATENT-CLASS-405-229 ..... c 44 N79-24432 * #
US-PATENT-CLASS-405-263 ..... c 44 N79-24432 * #
US-PATENT-CLASS-406-155 ..... c 37 N84-16561 * #
US-PATENT-CLASS-407-117 ..... c 37 N81-14319 * #
US-PATENT-CLASS-407-85 ..... c 37 N81-14319 * #
US-PATENT-CLASS-408-1R ..... c 37 N81-14319 * #
US-PATENT-CLASS-408-1R ..... c 31 N83-27058 * #
US-PATENT-CLASS-408-111 ..... c 37 N74-25968 * #
US-PATENT-CLASS-408-112 ..... c 37 N75-25186 * #
US-PATENT-CLASS-408-137 ..... c 15 N71-33518 *
US-PATENT-CLASS-408-186 ..... c 37 N75-25186 * #
US-PATENT-CLASS-408-193 ..... c 37 N75-25186 * #
US-PATENT-CLASS-408-195 ..... c 37 N75-25186 * #
US-PATENT-CLASS-408-61 ..... c 31 N83-27058 * #
US-PATENT-CLASS-408-80 ..... c 37 N74-25968 * #
US-PATENT-CLASS-409-131 ..... c 31 N83-27058 * #
US-PATENT-CLASS-41R ..... c 27 N81-15104 * #
US-PATENT-CLASS-410-156 ..... c 37 N85-34401 * #
US-PATENT-CLASS-410-79 ..... c 18 N85-29991 * #
US-PATENT-CLASS-410-90 ..... c 18 N85-29991 * #
US-PATENT-CLASS-411-103 ..... c 37 N85-30335 * #
US-PATENT-CLASS-411-108 ..... c 37 N85-30335 * #
US-PATENT-CLASS-411-353 ..... c 37 N83-19091 * #

US-PATENT-CLASS-411-368 ..... c 37 N85-29285 * #
US-PATENT-CLASS-411-378 ..... c 37 N85-29285 * #
US-PATENT-CLASS-411-426 ..... c 37 N85-29285 * #
US-PATENT-CLASS-411-501 ..... c 37 N85-29285 * #
US-PATENT-CLASS-411-517 ..... c 37 N83-19091 * #
US-PATENT-CLASS-411-531 ..... c 37 N85-29285 * #
US-PATENT-CLASS-414-1 ..... c 37 N80-14398 * #
US-PATENT-CLASS-414-1 ..... c 37 N81-14320 * #
US-PATENT-CLASS-414-217 ..... c 37 N85-29286 * #
US-PATENT-CLASS-414-222 ..... c 37 N82-32731 * #
US-PATENT-CLASS-414-226 ..... c 37 N82-32731 * #
US-PATENT-CLASS-414-288 ..... c 85 N85-34722 * #
US-PATENT-CLASS-414-328 ..... c 85 N85-34722 * #
US-PATENT-CLASS-414-373 ..... c 85 N85-34722 * #
US-PATENT-CLASS-414-4 ..... c 37 N79-28551 * #
US-PATENT-CLASS-414-4 ..... c 54 N81-26718 * #
US-PATENT-CLASS-414-4 ..... c 37 N86-20789 * #
US-PATENT-CLASS-414-6 ..... c 54 N79-24652 * #
US-PATENT-CLASS-414-718 ..... c 37 N86-20789 * #
US-PATENT-CLASS-414-730 ..... c 37 N81-27519 * #
US-PATENT-CLASS-414-730 ..... c 37 N86-19603 * #
US-PATENT-CLASS-414-735 ..... c 54 N81-26718 * #
US-PATENT-CLASS-414-739 ..... c 37 N82-32731 * #
US-PATENT-CLASS-414-744A .... c 54 N81-26718 * #
US-PATENT-CLASS-414-753 ..... c 37 N86-20789 * #
US-PATENT-CLASS-414-786 ..... c 85 N85-34722 * #
US-PATENT-CLASS-415-DIG.8 .... c 44 N82-24639 * #
US-PATENT-CLASS-415-DIG.8 .... c 44 N84-23018 * #
US-PATENT-CLASS-415-101 ..... c 44 N80-21828 * #
US-PATENT-CLASS-415-115 ..... c 07 N79-10057 * #
US-PATENT-CLASS-415-115 ..... c 34 N83-27144 * #
US-PATENT-CLASS-415-115 ..... c 07 N84-33410 * #
US-PATENT-CLASS-415-115 ..... c 34 N85-33433 * #
US-PATENT-CLASS-415-116 ..... c 07 N79-10057 * #
US-PATENT-CLASS-415-118 ..... c 35 N83-35338 * #
US-PATENT-CLASS-415-143 ..... c 34 N79-20335 * #
US-PATENT-CLASS-415-145 ..... c 07 N77-28118 * #
US-PATENT-CLASS-415-145 ..... c 07 N82-32366 * #
US-PATENT-CLASS-415-170-R ... c 37 N85-34402 * #
US-PATENT-CLASS-415-174 ..... c 37 N79-18318 * #
US-PATENT-CLASS-415-174 ..... c 37 N80-26658 * #
US-PATENT-CLASS-415-174 ..... c 37 N82-19540 * #
US-PATENT-CLASS-415-174 ..... c 27 N82-29453 * #
US-PATENT-CLASS-415-174 ..... c 18 N83-20996 * #
US-PATENT-CLASS-415-174 ..... c 37 N84-22957 * #
US-PATENT-CLASS-415-174 ..... c 37 N85-34402 * #
US-PATENT-CLASS-415-174 ..... c 37 N86-20788 * #
US-PATENT-CLASS-415-175 ..... c 07 N83-31603 * #
US-PATENT-CLASS-415-178 ..... c 07 N82-32366 * #
US-PATENT-CLASS-415-178 ..... c 07 N83-31603 * #
US-PATENT-CLASS-415-180 ..... c 07 N77-23106 * #
US-PATENT-CLASS-415-180 ..... c 37 N78-10467 * #
US-PATENT-CLASS-415-181 ..... c 07 N74-28226 * #
US-PATENT-CLASS-415-181 ..... c 07 N74-31270 * #
US-PATENT-CLASS-415-196 ..... c 37 N80-26658 * #
US-PATENT-CLASS-415-196 ..... c 37 N82-19540 * #
US-PATENT-CLASS-415-196 ..... c 37 N85-34402 * #
US-PATENT-CLASS-415-197 ..... c 18 N83-20996 * #
US-PATENT-CLASS-415-199 ..... c 05 N80-14107 * #
US-PATENT-CLASS-415-1 ..... c 34 N79-20335 * #
US-PATENT-CLASS-415-1 ..... c 07 N83-31603 * #
US-PATENT-CLASS-415-1 ..... c 37 N85-29282 * #
US-PATENT-CLASS-415-2R ..... c 44 N82-24639 * #
US-PATENT-CLASS-415-2R ..... c 44 N84-23018 * #
US-PATENT-CLASS-415-200 ..... c 07 N79-14096 * #
US-PATENT-CLASS-415-200 ..... c 37 N79-18318 * #
US-PATENT-CLASS-415-200 ..... c 37 N85-34402 * #
US-PATENT-CLASS-415-201 ..... c 07 N79-14096 * #
US-PATENT-CLASS-415-2 ..... c 44 N80-21828 * #
US-PATENT-CLASS-415-47 ..... c 07 N83-31603 * #
US-PATENT-CLASS-415-68 ..... c 37 N85-29282 * #
US-PATENT-CLASS-415-9 ..... c 44 N79-14527 * #
US-PATENT-CLASS-416-104 ..... c 05 N77-17029 * #
US-PATENT-CLASS-416-114 ..... c 05 N81-19087 * #
US-PATENT-CLASS-416-115 ..... c 02 N72-11018 *
US-PATENT-CLASS-416-117 ..... c 37 N84-12493 * #
US-PATENT-CLASS-416-121 ..... c 02 N72-11018 *
US-PATENT-CLASS-416-127 ..... c 02 N72-11018 *
US-PATENT-CLASS-416-130 ..... c 02 N72-11018 *
US-PATENT-CLASS-416-132B .... c 37 N84-12493 * #
US-PATENT-CLASS-416-132R .... c 05 N79-17847 * #
US-PATENT-CLASS-416-135 ..... c 07 N77-32148 * #
US-PATENT-CLASS-416-135 ..... c 37 N78-10468 * #
US-PATENT-CLASS-416-138 ..... c 05 N77-17029 * #
US-PATENT-CLASS-416-138 ..... c 05 N79-17847 * #
US-PATENT-CLASS-416-141 ..... c 05 N77-17029 * #
US-PATENT-CLASS-416-141 ..... c 37 N78-10468 * #
US-PATENT-CLASS-416-144 ..... c 35 N78-24515 * #
US-PATENT-CLASS-416-145 ..... c 05 N85-29947 * #
US-PATENT-CLASS-416-149 ..... c 02 N72-11018 *
US-PATENT-CLASS-416-153 ..... c 07 N77-14025 * #
US-PATENT-CLASS-416-157B .... c 07 N79-14095 * #
US-PATENT-CLASS-416-160 ..... c 07 N77-14025 * #
US-PATENT-CLASS-416-160 ..... c 07 N79-14095 * #
US-PATENT-CLASS-416-162 ..... c 07 N77-14025 * #
US-PATENT-CLASS-416-162 ..... c 07 N79-14095 * #
US-PATENT-CLASS-416-165 ..... c 07 N77-14025 * #
US-PATENT-CLASS-416-167 ..... c 07 N77-14025 * #
US-PATENT-CLASS-416-167 ..... c 07 N79-14095 * #
US-PATENT-CLASS-416-174 ..... c 37 N85-34402 * #
US-PATENT-CLASS-416-190 ..... c 07 N77-32148 * #
US-PATENT-CLASS-416-193A .... c 07 N77-32148 * #
US-PATENT-CLASS-416-1 ..... c 34 N83-27144 * #
US-PATENT-CLASS-416-200 ..... c 02 N72-11018 *
US-PATENT-CLASS-416-214A .... c 07 N78-33101 * #
US-PATENT-CLASS-416-220R .... c 07 N77-27116 * #
US-PATENT-CLASS-416-220R .... c 37 N78-10468 * #
US-PATENT-CLASS-416-221 ..... c 07 N77-27116 * #
US-PATENT-CLASS-416-223R .... c 02 N84-11136 * #
US-PATENT-CLASS-416-223R .... c 02 N84-28732 * #
US-PATENT-CLASS-416-223 ..... c 07 N74-28226 * #
US-PATENT-CLASS-416-224 ..... c 24 N77-19170 * #
US-PATENT-CLASS-416-224 ..... c 07 N84-22560 * #
US-PATENT-CLASS-416-228 ..... c 05 N80-14107 * #
US-PATENT-CLASS-416-230 ..... c 24 N77-19170 * #
US-PATENT-CLASS-416-233 ..... c 07 N84-22560 * #
US-PATENT-CLASS-416-237 ..... c 07 N74-28226 * #
US-PATENT-CLASS-416-238 ..... c 05 N80-14107 * #
US-PATENT-CLASS-416-23 ..... c 05 N85-29947 * #
US-PATENT-CLASS-416-241A .... c 07 N77-32148 * #
US-PATENT-CLASS-416-241R .... c 26 N84-33555 * #
US-PATENT-CLASS-416-242 ..... c 02 N84-11136 * #
US-PATENT-CLASS-416-242 ..... c 02 N84-28732 * #
US-PATENT-CLASS-416-244A .... c 07 N78-33101 * #
US-PATENT-CLASS-416-248 ..... c 37 N78-10468 * #
US-PATENT-CLASS-416-25 ..... c 05 N75-12930 * #
US-PATENT-CLASS-416-2 ..... c 44 N79-14527 * #
US-PATENT-CLASS-416-500 ..... c 05 N81-19087 * #
US-PATENT-CLASS-416-500 ..... c 05 N85-29947 * #
US-PATENT-CLASS-416-51 ..... c 05 N79-17847 * #
US-PATENT-CLASS-416-61 ..... c 35 N78-24515 * #
US-PATENT-CLASS-416-61 ..... c 37 N79-14382 * #
US-PATENT-CLASS-416-88 ..... c 05 N79-17847 * #
US-PATENT-CLASS-416-89 ..... c 05 N79-17847 * #
US-PATENT-CLASS-416-92 ..... c 07 N84-22560 * #
US-PATENT-CLASS-416-97A ..... c 34 N85-33433 * #
US-PATENT-CLASS-416-97R ..... c 34 N83-27144 * #
US-PATENT-CLASS-416-97R ..... c 07 N84-22560 * #
US-PATENT-CLASS-417-138 ..... c 35 N75-19611 * #
US-PATENT-CLASS-417-141 ..... c 44 N76-29701 * #
US-PATENT-CLASS-417-152 ..... c 15 N72-22489 * #
US-PATENT-CLASS-417-159 ..... c 09 N84-27749 * #
US-PATENT-CLASS-417-15 ..... c 37 N83-26078 * #
US-PATENT-CLASS-417-207 ..... c 44 N76-29701 * #
US-PATENT-CLASS-417-209 ..... c 34 N76-17317 * #
US-PATENT-CLASS-417-209 ..... c 44 N76-29701 * #
US-PATENT-CLASS-417-225 ..... c 35 N78-10428 * #
US-PATENT-CLASS-417-328 ..... c 37 N84-28081 * #
US-PATENT-CLASS-417-36 ..... c 35 N75-19611 * #
US-PATENT-CLASS-417-379 ..... c 44 N76-29701 * #
US-PATENT-CLASS-417-383 ..... c 37 N80-31790 * #
US-PATENT-CLASS-417-391 ..... c 15 N73-24513 * #
US-PATENT-CLASS-417-392 ..... c 37 N84-28081 * #
US-PATENT-CLASS-417-395 ..... c 35 N75-19611 * #
US-PATENT-CLASS-417-399 ..... c 44 N83-14693 * #
US-PATENT-CLASS-417-417 ..... c 44 N83-28574 * #
US-PATENT-CLASS-417-417 ..... c 31 N85-21404 * #
US-PATENT-CLASS-417-462 ..... c 37 N84-28081 * #
US-PATENT-CLASS-417-470 ..... c 35 N74-15126 * #
US-PATENT-CLASS-417-471 ..... c 35 N74-15126 * #
US-PATENT-CLASS-417-488 ..... c 31 N85-21404 * #
US-PATENT-CLASS-417-50 ..... c 15 N71-27084 *
US-PATENT-CLASS-417-52 ..... c 37 N74-27904 * #
US-PATENT-CLASS-417-88 ..... c 44 N78-32539 * #
US-PATENT-CLASS-418-113 ..... c 37 N82-16408 * #
US-PATENT-CLASS-418-142 ..... c 37 N82-16408 * #
US-PATENT-CLASS-42-1F ..... c 11 N72-22247 * #
US-PATENT-CLASS-42-215 ..... c 44 N76-29704 * #
US-PATENT-CLASS-420-445 ..... c 26 N82-31505 * #
US-PATENT-CLASS-420-551 ..... c 26 N82-31505 * #
US-PATENT-CLASS-420-588 ..... c 26 N82-31505 * #
US-PATENT-CLASS-422-103 ..... c 35 N85-29213 * #
US-PATENT-CLASS-422-109 ..... c 54 N81-24724 * #
US-PATENT-CLASS-422-121 ..... c 35 N84-17555 * #
US-PATENT-CLASS-422-129 ..... c 37 N85-21652 * #
US-PATENT-CLASS-422-169 ..... c 35 N84-17555 * #
US-PATENT-CLASS-422-178 ..... c 35 N84-17555 * #
US-PATENT-CLASS-422-186 ..... c 25 N82-28368 * #
US-PATENT-CLASS-422-186 ..... c 35 N84-17555 * #
US-PATENT-CLASS-422-187 ..... c 37 N80-10494 * #
US-PATENT-CLASS-422-198 ..... c 25 N82-28368 * #
US-PATENT-CLASS-422-199 ..... c 37 N80-10494 * #
US-PATENT-CLASS-422-199 ..... c 37 N85-21652 * #
US-PATENT-CLASS-422-200 ..... c 44 N83-10501 * #
US-PATENT-CLASS-422-202 ..... c 44 N83-10501 * #
US-PATENT-CLASS-422-208 ..... c 37 N80-10494 * #
US-PATENT-CLASS-422-224 ..... c 31 N80-18231 * #
US-PATENT-CLASS-422-224 ..... c 44 N83-10501 * #
US-PATENT-CLASS-422-235 ..... c 37 N80-10494 * #
US-PATENT-CLASS-422-242 ..... c 37 N80-10494 * #
US-PATENT-CLASS-422-246 ..... c 76 N80-32244 * #
US-PATENT-CLASS-422-246 ..... c 33 N81-19389 * #
US-PATENT-CLASS-422-246 ..... c 76 N82-30105 * #
US-PATENT-CLASS-422-246 ..... c 76 N84-35113 * #
US-PATENT-CLASS-422-249 ..... c 33 N81-19389 * #
US-PATENT-CLASS-422-249 ..... c 76 N84-35113 * #
US-PATENT-CLASS-422-27 ..... c 54 N81-24724 * #
US-PATENT-CLASS-422-30 ..... c 54 N81-24724 * #
US-PATENT-CLASS-422-34 ..... c 54 N81-24724 * #
US-PATENT-CLASS-422-3 ..... c 54 N81-24724 * #
US-PATENT-CLASS-422-40 ..... c 35 N82-11432 * #
US-PATENT-CLASS-422-41 ..... c 52 N79-14749 * #
US-PATENT-CLASS-422-48 ..... c 52 N79-14749 * #
US-PATENT-CLASS-422-52 ..... c 51 N80-16714 * #
US-PATENT-CLASS-422-52 ..... c 51 N83-27569 * #
US-PATENT-CLASS-422-68 ..... c 51 N80-27067 * #
US-PATENT-CLASS-422-78 ..... c 25 N86-19413 * #
US-PATENT-CLASS-422-80 ..... c 25 N82-12166 * #
US-PATENT-CLASS-422-86 ..... c 35 N85-29213 * #
US-PATENT-CLASS-422-88 ..... c 35 N85-29213 * #
US-PATENT-CLASS-422-9 ..... c 45 N80-14579 * #
US-PATENT-CLASS-423-DIG.10 . c 24 N84-22695 * #
US-PATENT-CLASS-423-DIG.10 . c 31 N85-20153 * #
US-PATENT-CLASS-423-131 ..... c 28 N81-15119 * #
US-PATENT-CLASS-423-149 ..... c 26 N80-14229 * #
US-PATENT-CLASS-423-1 ..... c 28 N81-15119 * #
US-PATENT-CLASS-423-231 ..... c 25 N74-12813 * #
US-PATENT-CLASS-423-235 ..... c 25 N82-28368 * #
US-PATENT-CLASS-423-242 ..... c 45 N79-12584 * #
US-PATENT-CLASS-423-249 ..... c 25 N76-27383 * #
US-PATENT-CLASS-423-293 ..... c 26 N80-14229 * #
US-PATENT-CLASS-423-303 ..... c 44 N84-23019 * #
US-PATENT-CLASS-423-33-5 ..... c 25 N79-28253 * #
US-PATENT-CLASS-423-345 ..... c 76 N76-25049 * #
US-PATENT-CLASS-423-345 ..... c 76 N79-23798 * #
US-PATENT-CLASS-423-346 ..... c 76 N76-25049 * #
US-PATENT-CLASS-423-348 ..... c 26 N80-14229 * #
US-PATENT-CLASS-423-350 ..... c 37 N80-10494 * #
US-PATENT-CLASS-423-350 ..... c 31 N80-18231 * #
US-PATENT-CLASS-423-352 ..... c 36 N76-18427 * #
US-PATENT-CLASS-423-407 ..... c 24 N76-14203 * #
US-PATENT-CLASS-423-414 ..... c 24 N84-22695 * #
US-PATENT-CLASS-423-414 ..... c 31 N85-20153 * #
US-PATENT-CLASS-423-417 ..... c 26 N80-14229 * #
US-PATENT-CLASS-423-419P ..... c 25 N83-33977 * #
US-PATENT-CLASS-423-445 ..... c 24 N84-22695 * #
US-PATENT-CLASS-423-445 ..... c 31 N85-20153 * #
US-PATENT-CLASS-423-445 ..... c 24 N85-21267 * #
US-PATENT-CLASS-423-446 ..... c 15 N73-19457 * #
US-PATENT-CLASS-423-446 ..... c 24 N84-22695 * #
US-PATENT-CLASS-423-446 ..... c 31 N85-20153 * #
US-PATENT-CLASS-423-446 ..... c 24 N85-21267 * #
US-PATENT-CLASS-423-447.2 .... c 24 N83-25789 * #
US-PATENT-CLASS-423-447.6 .... c 24 N83-25789 * #
US-PATENT-CLASS-423-447.7 .... c 24 N83-25789 * #
US-PATENT-CLASS-423-449 ..... c 24 N84-22695 * #
US-PATENT-CLASS-423-449 ..... c 31 N85-20153 * #
US-PATENT-CLASS-423-449 ..... c 24 N85-21267 * #
US-PATENT-CLASS-423-539 ..... c 25 N82-28368 * #
US-PATENT-CLASS-423-540 ..... c 25 N82-28368 * #
US-PATENT-CLASS-423-542 ..... c 25 N82-28368 * #
US-PATENT-CLASS-423-579 ..... c 46 N74-13011 * #
US-PATENT-CLASS-423-579 ..... c 25 N82-28368 * #
US-PATENT-CLASS-423-581 ..... c 25 N79-10162 * #
US-PATENT-CLASS-423-582 ..... c 26 N78-32229 * #
US-PATENT-CLASS-423-583 ..... c 26 N78-32229 * #
US-PATENT-CLASS-423-600 ..... c 25 N83-33977 * #
US-PATENT-CLASS-423-625 ..... c 15 N73-19457 * #
US-PATENT-CLASS-423-625 ..... c 26 N80-14229 * #
US-PATENT-CLASS-423-644 ..... c 36 N76-18427 * #
US-PATENT-CLASS-423-648R .... c 44 N77-22607 * #
US-PATENT-CLASS-423-648R .... c 28 N78-24365 * #
US-PATENT-CLASS-423-648R .... c 28 N80-20402 * #
US-PATENT-CLASS-423-648R .... c 28 N81-14103 * #
US-PATENT-CLASS-423-648R .... c 25 N82-28368 * #
US-PATENT-CLASS-423-648R .... c 25 N83-29324 * #
US-PATENT-CLASS-423-649 ..... c 25 N83-29324 * #
US-PATENT-CLASS-423-650 ..... c 44 N76-18642 * #
US-PATENT-CLASS-423-650 ..... c 44 N76-29700 * #
US-PATENT-CLASS-423-650 ..... c 44 N76-29704 * #
US-PATENT-CLASS-423-650 ..... c 44 N77-10636 * #
US-PATENT-CLASS-423-650 ..... c 28 N80-10374 * #
US-PATENT-CLASS-423-658.5 .... c 28 N81-15119 * #
US-PATENT-CLASS-424-12 ..... c 25 N79-14169 * #
US-PATENT-CLASS-424-12 ..... c 51 N80-16715 * #
US-PATENT-CLASS-424-156 ..... c 25 N83-33977 * #
US-PATENT-CLASS-424-180 ..... c 52 N75-15270 * #
US-PATENT-CLASS-424-247 ..... c 52 N81-29764 * #
US-PATENT-CLASS-424-267 ..... c 52 N81-29764 * #
US-PATENT-CLASS-424-274 ..... c 52 N81-14613 * #
US-PATENT-CLASS-424-274 ..... c 52 N81-29764 * #
US-PATENT-CLASS-424-3 ..... c 51 N77-27677 * #
US-PATENT-CLASS-425-DIG.43 . c 31 N75-13111 * #
US-PATENT-CLASS-425-10 ..... c 31 N83-35176 * #
US-PATENT-CLASS-425-113 ..... c 15 N73-13464 * #
US-PATENT-CLASS-425-128 ..... c 31 N74-32920 * #
US-PATENT-CLASS-425-133 ..... c 15 N73-13464 * #
US-PATENT-CLASS-425-176 ..... c 15 N73-13464 * #

US-PATENT-CLASS-425-28B ..... c 31 N74-32917 * #
US-PATENT-CLASS-425-35 ..... c 31 N74-32917 * #
US-PATENT-CLASS-425-378R .... c 31 N81-15154 * #
US-PATENT-CLASS-425-405R .... c 31 N75-13111 * #
US-PATENT-CLASS-425-415 ..... c 31 N74-32920 * #
US-PATENT-CLASS-425-438 ..... c 31 N75-13111 * #
US-PATENT-CLASS-425-468 ..... c 31 N75-13111 * #
US-PATENT-CLASS-425-6 ..... c 31 N81-33319 * #
US-PATENT-CLASS-425-6 ..... c 27 N82-28442 * #
US-PATENT-CLASS-425-6 ..... c 31 N83-31896 * #
US-PATENT-CLASS-425-6 ..... c 31 N83-35176 * #
US-PATENT-CLASS-425-6 ..... c 71 N84-28568 * #
US-PATENT-CLASS-425-77 ..... c 15 N72-20446 * #
US-PATENT-CLASS-425-7 ..... c 31 N83-35176 * #
US-PATENT-CLASS-427-113 ..... c 44 N76-28635 * #
US-PATENT-CLASS-427-113 ..... c 44 N78-24609 * #
US-PATENT-CLASS-427-113 ..... c 44 N84-28205 * #
US-PATENT-CLASS-427-115 ..... c 25 N82-21268 * #
US-PATENT-CLASS-427-115 ..... c 26 N84-22734 * #
US-PATENT-CLASS-427-115 ..... c 44 N84-28205 * #
US-PATENT-CLASS-427-123 ..... c 44 N79-11472 * #
US-PATENT-CLASS-427-124 ..... c 37 N78-13436 * #
US-PATENT-CLASS-427-125 ..... c 26 N84-22734 * #
US-PATENT-CLASS-427-125 ..... c 44 N84-28205 * #
US-PATENT-CLASS-427-126.6 .... c 26 N84-22734 * #
US-PATENT-CLASS-427-126 ..... c 37 N78-13436 * #
US-PATENT-CLASS-427-126 ..... c 44 N79-11472 * #
US-PATENT-CLASS-427-130 ..... c 44 N77-32583 * #
US-PATENT-CLASS-427-140 ..... c 27 N82-33520 * #
US-PATENT-CLASS-427-140 ..... c 24 N83-13172 * #
US-PATENT-CLASS-427-160 ..... c 34 N77-18382 * #
US-PATENT-CLASS-427-160 ..... c 44 N78-19599 * #
US-PATENT-CLASS-427-162 ..... c 12 N76-15189 * #
US-PATENT-CLASS-427-164 ..... c 27 N78-14164 * #
US-PATENT-CLASS-427-164 ..... c 27 N78-31233 * #
US-PATENT-CLASS-427-164 ..... c 74 N78-32854 * #
US-PATENT-CLASS-427-164 ..... c 27 N80-24437 * #
US-PATENT-CLASS-427-178 ..... c 24 N85-30027 * #
US-PATENT-CLASS-427-191 ..... c 26 N85-35267 * #
US-PATENT-CLASS-427-196 ..... c 27 N76-15310 * #
US-PATENT-CLASS-427-203 ..... c 27 N76-16229 * #
US-PATENT-CLASS-427-204 ..... c 27 N76-16229 * #
US-PATENT-CLASS-427-205 ..... c 27 N76-16229 * #
US-PATENT-CLASS-427-205 ..... c 27 N82-28441 * #
US-PATENT-CLASS-427-215 ..... c 27 N78-32260 * #
US-PATENT-CLASS-427-215 ..... c 24 N83-33950 * #
US-PATENT-CLASS-427-216 ..... c 33 N84-16456 * #
US-PATENT-CLASS-427-217 ..... c 33 N84-16456 * #
US-PATENT-CLASS-427-219.2 .... c 27 N83-31855 * #
US-PATENT-CLASS-427-221 ..... c 27 N81-19296 * #
US-PATENT-CLASS-427-226 ..... c 33 N84-16456 * #
US-PATENT-CLASS-427-226 ..... c 44 N84-28205 * #
US-PATENT-CLASS-427-228 ..... c 26 N85-35267 * #
US-PATENT-CLASS-427-229 ..... c 25 N78-10225 * #
US-PATENT-CLASS-427-230 ..... c 37 N76-31524 * #
US-PATENT-CLASS-427-240 ..... c 37 N81-33482 * #
US-PATENT-CLASS-427-241 ..... c 24 N83-33950 * #
US-PATENT-CLASS-427-243 ..... c 31 N83-35177 * #
US-PATENT-CLASS-427-244 ..... c 25 N82-21268 * #
US-PATENT-CLASS-427-245 ..... c 27 N80-23452 * #
US-PATENT-CLASS-427-246 ..... c 25 N82-21268 * #
US-PATENT-CLASS-427-247 ..... c 31 N83-35177 * #
US-PATENT-CLASS-427-248.1 .... c 27 N86-19458 * #
US-PATENT-CLASS-427-248E .... c 37 N78-13436 * #
US-PATENT-CLASS-427-248J .... c 44 N78-24609 * #
US-PATENT-CLASS-427-248 ..... c 44 N76-28635 * #
US-PATENT-CLASS-427-249 ..... c 44 N76-28635 * #
US-PATENT-CLASS-427-249 ..... c 44 N78-24609 * #
US-PATENT-CLASS-427-250 ..... c 12 N76-15189 * #
US-PATENT-CLASS-427-250 ..... c 44 N76-28635 * #
US-PATENT-CLASS-427-250 ..... c 37 N78-13436 * #
US-PATENT-CLASS-427-253 ..... c 27 N82-28441 * #
US-PATENT-CLASS-427-255 ..... c 37 N78-13436 * #
US-PATENT-CLASS-427-261 ..... c 44 N78-25527 * #
US-PATENT-CLASS-427-261 ..... c 44 N79-11472 * #
US-PATENT-CLASS-427-270 ..... c 27 N76-16229 * #
US-PATENT-CLASS-427-275 ..... c 27 N76-16229 * #
US-PATENT-CLASS-427-287 ..... c 27 N76-16229 * #
US-PATENT-CLASS-427-292 ..... c 24 N79-17916 * #
US-PATENT-CLASS-427-292 ..... c 24 N83-13172 * #
US-PATENT-CLASS-427-294 ..... c 27 N79-14214 * #
US-PATENT-CLASS-427-294 ..... c 26 N85-35267 * #
US-PATENT-CLASS-427-296 ..... c 26 N84-22734 * #
US-PATENT-CLASS-427-302 ..... c 74 N78-32854 * #
US-PATENT-CLASS-427-302 ..... c 24 N83-13172 * #
US-PATENT-CLASS-427-306 ..... c 26 N84-22734 * #
US-PATENT-CLASS-427-318 ..... c 26 N83-31795 * #
US-PATENT-CLASS-427-322 ..... c 34 N77-18382 * #
US-PATENT-CLASS-427-322 ..... c 74 N78-32854 * #
US-PATENT-CLASS-427-322 ..... c 27 N83-34039 * #
US-PATENT-CLASS-427-327 ..... c 24 N79-17916 * #
US-PATENT-CLASS-427-328 ..... c 24 N79-17916 * #
US-PATENT-CLASS-427-340 ..... c 27 N83-34039 * #
US-PATENT-CLASS-427-343 ..... c 44 N79-11472 * #
US-PATENT-CLASS-427-346 ..... c 71 N84-16940 * #
US-PATENT-CLASS-427-34 ..... c 34 N78-18355 * #
US-PATENT-CLASS-427-34 ..... c 24 N79-17916 * #
US-PATENT-CLASS-427-34 ..... c 27 N82-29453 * #
US-PATENT-CLASS-427-34 ..... c 27 N83-31855 * #
US-PATENT-CLASS-427-34 ..... c 31 N83-35177 * #
US-PATENT-CLASS-427-34 ..... c 37 N84-22957 * #
US-PATENT-CLASS-427-34 ..... c 26 N84-27855 * #
US-PATENT-CLASS-427-350 ..... c 24 N79-25142 * #
US-PATENT-CLASS-427-352 ..... c 27 N83-34039 * #
US-PATENT-CLASS-427-355 ..... c 24 N79-17916 * #
US-PATENT-CLASS-427-372.2 .... c 27 N82-33520 * #
US-PATENT-CLASS-427-372.2 .... c 44 N84-28205 * #
US-PATENT-CLASS-427-372A .... c 24 N79-25142 * #
US-PATENT-CLASS-427-376.2 .... c 26 N85-35267 * #
US-PATENT-CLASS-427-376.6 .... c 33 N84-16456 * #
US-PATENT-CLASS-427-376.7 .... c 33 N84-16456 * #
US-PATENT-CLASS-427-376A .... c 27 N78-32260 * #
US-PATENT-CLASS-427-376B .... c 27 N78-32260 * #
US-PATENT-CLASS-427-376B .... c 24 N79-17916 * #
US-PATENT-CLASS-427-376C .... c 24 N79-17916 * #
US-PATENT-CLASS-427-376 ..... c 27 N76-22377 * #
US-PATENT-CLASS-427-376 ..... c 27 N76-23426 * #
US-PATENT-CLASS-427-379 ..... c 27 N76-22377 * #
US-PATENT-CLASS-427-379 ..... c 27 N76-23426 * #
US-PATENT-CLASS-427-379 ..... c 27 N78-32260 * #
US-PATENT-CLASS-427-379 ..... c 27 N81-19296 * #
US-PATENT-CLASS-427-379 ..... c 24 N83-13171 * #
US-PATENT-CLASS-427-379 ..... c 24 N83-13172 * #
US-PATENT-CLASS-427-379 ..... c 44 N84-28205 * #
US-PATENT-CLASS-427-37 ..... c 24 N85-30027 * #
US-PATENT-CLASS-427-380 ..... c 27 N76-22377 * #
US-PATENT-CLASS-427-380 ..... c 27 N76-23426 * #
US-PATENT-CLASS-427-380 ..... c 27 N78-32260 * #
US-PATENT-CLASS-427-380 ..... c 44 N84-28205 * #
US-PATENT-CLASS-427-380 ..... c 26 N85-35267 * #
US-PATENT-CLASS-427-384 ..... c 24 N83-13171 * #
US-PATENT-CLASS-427-384 ..... c 24 N83-13172 * #
US-PATENT-CLASS-427-385.5 .... c 27 N81-14078 * #
US-PATENT-CLASS-427-385.5 .... c 27 N86-20561 * #
US-PATENT-CLASS-427-385B .... c 44 N78-25530 * #
US-PATENT-CLASS-427-385C .... c 44 N78-25530 * #
US-PATENT-CLASS-427-386 ..... c 24 N78-27180 * #
US-PATENT-CLASS-427-387 ..... c 74 N78-32854 * #
US-PATENT-CLASS-427-387 ..... c 24 N83-13171 * #
US-PATENT-CLASS-427-387 ..... c 24 N83-13172 * #
US-PATENT-CLASS-427-388.1 .... c 27 N86-20561 * #
US-PATENT-CLASS-427-388A .... c 24 N78-27180 * #
US-PATENT-CLASS-427-38 ..... c 74 N78-32854 * #
US-PATENT-CLASS-427-38 ..... c 27 N80-24437 * #
US-PATENT-CLASS-427-38 ..... c 26 N85-29005 * #
US-PATENT-CLASS-427-38 ..... c 27 N86-19458 * #
US-PATENT-CLASS-427-393.3 .... c 27 N82-16238 * #
US-PATENT-CLASS-427-397.7 .... c 27 N82-33520 * #
US-PATENT-CLASS-427-397.7 .... c 26 N85-35267 * #
US-PATENT-CLASS-427-398A .... c 44 N79-11472 * #
US-PATENT-CLASS-427-399 ..... c 44 N79-11472 * #
US-PATENT-CLASS-427-399 ..... c 36 N84-22944 * #
US-PATENT-CLASS-427-39 ..... c 24 N85-21267 * #
US-PATENT-CLASS-427-400 ..... c 27 N83-34039 * #
US-PATENT-CLASS-427-402 ..... c 27 N76-22377 * #
US-PATENT-CLASS-427-402 ..... c 27 N76-23426 * #
US-PATENT-CLASS-427-405 ..... c 34 N78-18355 * #
US-PATENT-CLASS-427-405 ..... c 27 N82-28441 * #
US-PATENT-CLASS-427-405 ..... c 27 N83-31855 * #
US-PATENT-CLASS-427-405 ..... c 26 N84-27855 * #
US-PATENT-CLASS-427-407.1 .... c 27 N83-34039 * #
US-PATENT-CLASS-427-40 ..... c 27 N78-31233 * #
US-PATENT-CLASS-427-40 ..... c 27 N79-18052 * #
US-PATENT-CLASS-427-40 ..... c 27 N80-24437 * #
US-PATENT-CLASS-427-419.2 .... c 26 N83-31795 * #
US-PATENT-CLASS-427-419.2 .... c 26 N84-27855 * #
US-PATENT-CLASS-427-419A .... c 34 N78-18355 * #
US-PATENT-CLASS-427-41 ..... c 27 N78-31233 * #
US-PATENT-CLASS-427-41 ..... c 74 N78-32854 * #
US-PATENT-CLASS-427-41 ..... c 27 N79-14214 * #
US-PATENT-CLASS-427-41 ..... c 27 N79-18052 * #
US-PATENT-CLASS-427-41 ..... c 27 N80-23452 * #
US-PATENT-CLASS-427-421 ..... c 71 N84-16940 * #
US-PATENT-CLASS-427-422 ..... c 24 N85-30027 * #
US-PATENT-CLASS-427-423 ..... c 34 N78-18355 * #
US-PATENT-CLASS-427-423 ..... c 27 N82-29453 * #
US-PATENT-CLASS-427-423 ..... c 27 N83-31855 * #
US-PATENT-CLASS-427-423 ..... c 31 N83-35177 * #
US-PATENT-CLASS-427-423 ..... c 37 N84-22957 * #
US-PATENT-CLASS-427-425 ..... c 37 N82-24492 * #
US-PATENT-CLASS-427-426 ..... c 27 N76-15310 * #
US-PATENT-CLASS-427-426 ..... c 71 N84-16940 * #
US-PATENT-CLASS-427-427 ..... c 24 N78-24290 * #
US-PATENT-CLASS-427-429 ..... c 27 N81-14078 * #
US-PATENT-CLASS-427-436 ..... c 33 N84-16456 * #
US-PATENT-CLASS-427-437 ..... c 33 N84-16456 * #
US-PATENT-CLASS-427-443.2 .... c 25 N84-12262 * #
US-PATENT-CLASS-427-443 ..... c 44 N84-28205 * #
US-PATENT-CLASS-427-44 ..... c 74 N78-32854 * #
US-PATENT-CLASS-427-44 ..... c 27 N80-32516 * #
US-PATENT-CLASS-427-47 ..... c 44 N77-32583 * #
US-PATENT-CLASS-427-47 ..... c 26 N85-29005 * #
US-PATENT-CLASS-427-4 ..... c 51 N77-27677 * #
US-PATENT-CLASS-427-53.1 ..... c 36 N84-22944 * #
US-PATENT-CLASS-427-53.1 ..... c 37 N84-22957 * #
US-PATENT-CLASS-427-531 ..... c 44 N82-28780 * #
US-PATENT-CLASS-427-57 ..... c 71 N84-16940 * #
US-PATENT-CLASS-427-58 ..... c 33 N84-16456 * #
US-PATENT-CLASS-427-6 ..... c 71 N84-16940 * #
US-PATENT-CLASS-427-74 ..... c 44 N82-28780 * #
US-PATENT-CLASS-427-75 ..... c 44 N78-25527 * #
US-PATENT-CLASS-427-75 ..... c 44 N79-11468 * #
US-PATENT-CLASS-427-75 ..... c 44 N79-11472 * #
US-PATENT-CLASS-427-75 ..... c 33 N84-16456 * #
US-PATENT-CLASS-427-84 ..... c 44 N79-11472 * #
US-PATENT-CLASS-427-85 ..... c 44 N85-20530 * #
US-PATENT-CLASS-427-86 ..... c 44 N76-28635 * #
US-PATENT-CLASS-427-86 ..... c 44 N78-24609 * #
US-PATENT-CLASS-427-88 ..... c 44 N79-31752 * #
US-PATENT-CLASS-427-88 ..... c 44 N83-13579 * #
US-PATENT-CLASS-427-88 ..... c 33 N84-16456 * #
US-PATENT-CLASS-427-89 ..... c 44 N83-13579 * #
US-PATENT-CLASS-427-90 ..... c 44 N83-13579 * #
US-PATENT-CLASS-427-91 ..... c 44 N83-13579 * #
US-PATENT-CLASS-427-95 ..... c 25 N79-28253 * #
US-PATENT-CLASS-427-96 ..... c 33 N84-16456 * #
US-PATENT-CLASS-428-109 ..... c 27 N76-14264 * #
US-PATENT-CLASS-428-109 ..... c 33 N79-12331 * #
US-PATENT-CLASS-428-113 ..... c 24 N81-14000 * #
US-PATENT-CLASS-428-114 ..... c 24 N81-13999 * #
US-PATENT-CLASS-428-114 ..... c 24 N81-14000 * #
US-PATENT-CLASS-428-116 ..... c 24 N78-10214 * #
US-PATENT-CLASS-428-116 ..... c 24 N78-17149 * #
US-PATENT-CLASS-428-117 ..... c 37 N76-24575 * #
US-PATENT-CLASS-428-117 ..... c 24 N78-15180 * #
US-PATENT-CLASS-428-117 ..... c 24 N79-16915 * #
US-PATENT-CLASS-428-119 ..... c 24 N79-16915 * #
US-PATENT-CLASS-428-133 ..... c 37 N79-10422 * #
US-PATENT-CLASS-428-137 ..... c 24 N79-25142 * #
US-PATENT-CLASS-428-138 ..... c 24 N78-10214 * #
US-PATENT-CLASS-428-139 ..... c 23 N81-29160 * #
US-PATENT-CLASS-428-140 ..... c 24 N81-14000 * #
US-PATENT-CLASS-428-141 ..... c 24 N77-28225 * #
US-PATENT-CLASS-428-141 ..... c 27 N82-28440 * #
US-PATENT-CLASS-428-141 ..... c 27 N82-33521 * #
US-PATENT-CLASS-428-155 ..... c 37 N84-22957 * #
US-PATENT-CLASS-428-161 ..... c 24 N77-28225 * #
US-PATENT-CLASS-428-182 ..... c 18 N84-33450 * #
US-PATENT-CLASS-428-184 ..... c 18 N84-33450 * #
US-PATENT-CLASS-428-189 ..... c 27 N79-12221 * #
US-PATENT-CLASS-428-192 ..... c 27 N82-24339 * #
US-PATENT-CLASS-428-193 ..... c 27 N82-24339 * #
US-PATENT-CLASS-428-202 ..... c 27 N84-14323 * #
US-PATENT-CLASS-428-212 ..... c 27 N76-14264 * #
US-PATENT-CLASS-428-212 ..... c 27 N79-12221 * #
US-PATENT-CLASS-428-212 ..... c 27 N82-29456 * #
US-PATENT-CLASS-428-214 ..... c 27 N76-14264 * #
US-PATENT-CLASS-428-218 ..... c 27 N82-29456 * #
US-PATENT-CLASS-428-218 ..... c 24 N83-13171 * #
US-PATENT-CLASS-428-220 ..... c 15 N79-26100 * #
US-PATENT-CLASS-428-241 ..... c 27 N82-24339 * #
US-PATENT-CLASS-428-241 ..... c 27 N83-18908 * #
US-PATENT-CLASS-428-242 ..... c 27 N82-24339 * #
US-PATENT-CLASS-428-244 ..... c 27 N83-18908 * #
US-PATENT-CLASS-428-245 ..... c 27 N82-24339 * #
US-PATENT-CLASS-428-245 ..... c 27 N83-18908 * #
US-PATENT-CLASS-428-246 ..... c 27 N84-14322 * #
US-PATENT-CLASS-428-246 ..... c 03 N84-33394 * #
US-PATENT-CLASS-428-247 ..... c 33 N79-12331 * #
US-PATENT-CLASS-428-247 ..... c 33 N82-26571 * #
US-PATENT-CLASS-428-251 ..... c 27 N82-24339 * #
US-PATENT-CLASS-428-257 ..... c 27 N82-24339 * #
US-PATENT-CLASS-428-258 ..... c 33 N79-12331 * #
US-PATENT-CLASS-428-259 ..... c 33 N79-12331 * #
US-PATENT-CLASS-428-260 ..... c 27 N81-27272 * #
US-PATENT-CLASS-428-260 ..... c 27 N82-24339 * #
US-PATENT-CLASS-428-260 ..... c 27 N83-18908 * #
US-PATENT-CLASS-428-260 ..... c 27 N84-14322 * #
US-PATENT-CLASS-428-260 ..... c 27 N85-34281 * #
US-PATENT-CLASS-428-263 ..... c 27 N82-16238 * #
US-PATENT-CLASS-428-264 ..... c 27 N82-16238 * #
US-PATENT-CLASS-428-265 ..... c 27 N82-16238 * #
US-PATENT-CLASS-428-266 ..... c 27 N82-24339 * #
US-PATENT-CLASS-428-267 ..... c 27 N82-16238 * #
US-PATENT-CLASS-428-272 ..... c 27 N82-16238 * #
US-PATENT-CLASS-428-280 ..... c 27 N79-12221 * #
US-PATENT-CLASS-428-280 ..... c 03 N84-33394 * #
US-PATENT-CLASS-428-282 ..... c 24 N79-25142 * #
US-PATENT-CLASS-428-283 ..... c 24 N82-29362 * #
US-PATENT-CLASS-428-283 ..... c 27 N82-29456 * #
US-PATENT-CLASS-428-284 ..... c 24 N82-29362 * #
US-PATENT-CLASS-428-285 ..... c 27 N79-12221 * #
US-PATENT-CLASS-428-286 ..... c 27 N79-12221 * #
US-PATENT-CLASS-428-286 ..... c 24 N82-29362 * #
US-PATENT-CLASS-428-287 ..... c 24 N82-29362 * #
US-PATENT-CLASS-428-287 ..... c 03 N84-33394 * #
US-PATENT-CLASS-428-288 ..... c 24 N82-29362 * #
US-PATENT-CLASS-428-289 ..... c 27 N82-29456 * #

US-PATENT-CLASS-428-290 ..... c 24 N78-15180 * #
US-PATENT-CLASS-428-290 ..... c 24 N79-25142 * #
US-PATENT-CLASS-428-294 ..... c 24 N78-17150 * #
US-PATENT-CLASS-428-294 ..... c 76 N83-34796 * #
US-PATENT-CLASS-428-301 ..... c 24 N77-27188 * #
US-PATENT-CLASS-428-302 ..... c 24 N78-17150 * #
US-PATENT-CLASS-428-303 ..... c 27 N76-15310 * #
US-PATENT-CLASS-428-304.4 .... c 03 N84-33394 * #
US-PATENT-CLASS-428-307.7 .... c 27 N82-29456 * #
US-PATENT-CLASS-428-311.5 .... c 27 N82-29456 * #
US-PATENT-CLASS-428-312.6 .... c 27 N82-29456 * #
US-PATENT-CLASS-428-312.6 .... c 44 N83-34448 * #
US-PATENT-CLASS-428-312 ..... c 27 N78-32260 * #
US-PATENT-CLASS-428-313 ..... c 24 N78-27180 * #
US-PATENT-CLASS-428-317.9 .... c 27 N82-29456 * #
US-PATENT-CLASS-428-319.1 .... c 03 N84-33394 * #
US-PATENT-CLASS-428-325 ..... c 27 N78-32260 * #
US-PATENT-CLASS-428-325 ..... c 27 N82-29456 * #
US-PATENT-CLASS-428-325 ..... c 44 N83-34448 * #
US-PATENT-CLASS-428-328 ..... c 24 N77-27188 * #
US-PATENT-CLASS-428-331 ..... c 27 N78-32260 * #
US-PATENT-CLASS-428-331 ..... c 27 N83-18908 * #
US-PATENT-CLASS-428-332 ..... c 27 N76-22377 * #
US-PATENT-CLASS-428-332 ..... c 27 N76-23426 * #
US-PATENT-CLASS-428-332 ..... c 24 N78-27180 * #
US-PATENT-CLASS-428-332 ..... c 27 N79-12221 * #
US-PATENT-CLASS-428-332 ..... c 24 N79-25142 * #
US-PATENT-CLASS-428-332 ..... c 27 N82-24340 * #
US-PATENT-CLASS-428-334 ..... c 74 N78-15879 * #
US-PATENT-CLASS-428-336 ..... c 74 N78-15879 * #
US-PATENT-CLASS-428-339 ..... c 27 N82-24340 * #
US-PATENT-CLASS-428-341 ..... c 27 N78-32260 * #
US-PATENT-CLASS-428-347 ..... c 27 N84-14323 * #
US-PATENT-CLASS-428-35 ..... c 34 N77-18382 * #
US-PATENT-CLASS-428-366 ..... c 24 N79-24062 * #
US-PATENT-CLASS-428-367 ..... c 27 N81-27272 * #
US-PATENT-CLASS-428-367 ..... c 24 N83-33950 * #
US-PATENT-CLASS-428-367 ..... c 27 N84-14322 * #
US-PATENT-CLASS-428-368 ..... c 24 N77-27188 * #
US-PATENT-CLASS-428-368 ..... c 27 N83-18908 * #
US-PATENT-CLASS-428-370 ..... c 27 N84-22745 * #
US-PATENT-CLASS-428-375 ..... c 24 N79-16915 * #
US-PATENT-CLASS-428-375 ..... c 24 N83-33950 * #
US-PATENT-CLASS-428-392 ..... c 24 N83-33950 * #
US-PATENT-CLASS-428-406 ..... c 27 N78-32260 * #
US-PATENT-CLASS-428-408 ..... c 27 N81-27272 * #
US-PATENT-CLASS-428-408 ..... c 27 N84-14322 * #
US-PATENT-CLASS-428-408 ..... c 27 N84-22745 * #
US-PATENT-CLASS-428-408 ..... c 27 N85-34281 * #
US-PATENT-CLASS-428-40 ..... c 27 N84-14323 * #
US-PATENT-CLASS-428-410 ..... c 23 N86-19376 * #
US-PATENT-CLASS-428-411 ..... c 27 N78-14164 * #
US-PATENT-CLASS-428-411 ..... c 27 N78-31233 * #
US-PATENT-CLASS-428-411 ..... c 27 N79-14214 * #
US-PATENT-CLASS-428-412 ..... c 27 N76-16230 * #
US-PATENT-CLASS-428-412 ..... c 27 N78-31233 * #
US-PATENT-CLASS-428-412 ..... c 74 N78-32854 * #
US-PATENT-CLASS-428-412 ..... c 27 N79-18052 * #
US-PATENT-CLASS-428-413 ..... c 27 N76-16230 * #
US-PATENT-CLASS-428-413 ..... c 15 N79-26100 * #
US-PATENT-CLASS-428-413 ..... c 24 N81-14000 * #
US-PATENT-CLASS-428-413 ..... c 27 N85-34281 * #
US-PATENT-CLASS-428-414 ..... c 15 N79-26100 * #
US-PATENT-CLASS-428-416 ..... c 27 N76-14264 * #
US-PATENT-CLASS-428-418 ..... c 24 N77-27188 * #
US-PATENT-CLASS-428-418 ..... c 15 N79-26100 * #
US-PATENT-CLASS-428-421 ..... c 34 N77-18382 * #
US-PATENT-CLASS-428-421 ..... c 15 N79-26100 * #
US-PATENT-CLASS-428-421 ..... c 27 N80-24437 * #
US-PATENT-CLASS-428-421 ..... c 76 N83-34796 * #
US-PATENT-CLASS-428-422 ..... c 27 N78-31233 * #
US-PATENT-CLASS-428-422 ..... c 76 N83-34796 * #
US-PATENT-CLASS-428-423.5 .... c 03 N84-33394 * #
US-PATENT-CLASS-428-425 ..... c 24 N77-28225 * #
US-PATENT-CLASS-428-426 ..... c 74 N78-15879 * #
US-PATENT-CLASS-428-427 ..... c 27 N78-32260 * #
US-PATENT-CLASS-428-427 ..... c 44 N83-34448 * #
US-PATENT-CLASS-428-428 ..... c 27 N76-22377 * #
US-PATENT-CLASS-428-428 ..... c 27 N76-23426 * #
US-PATENT-CLASS-428-428 ..... c 74 N78-15879 * #
US-PATENT-CLASS-428-428 ..... c 27 N78-32260 * #
US-PATENT-CLASS-428-428 ..... c 44 N83-34448 * #
US-PATENT-CLASS-428-432 ..... c 27 N84-33589 * #
US-PATENT-CLASS-428-432 ..... c 76 N85-33826 * #
US-PATENT-CLASS-428-446 ..... c 27 N78-32260 * #
US-PATENT-CLASS-428-446 ..... c 27 N82-29456 * #
US-PATENT-CLASS-428-446 ..... c 27 N86-19458 * #
US-PATENT-CLASS-428-447 ..... c 27 N76-14264 * #
US-PATENT-CLASS-428-447 ..... c 27 N76-16230 * #
US-PATENT-CLASS-428-447 ..... c 27 N78-31233 * #
US-PATENT-CLASS-428-447 ..... c 74 N78-32854 * #
US-PATENT-CLASS-428-447 ..... c 27 N79-12221 * #
US-PATENT-CLASS-428-447 ..... c 27 N79-18052 * #
US-PATENT-CLASS-428-447 ..... c 24 N79-25142 * #
US-PATENT-CLASS-428-447 ..... c 27 N82-24339 * #
US-PATENT-CLASS-428-448 ..... c 27 N82-24339 * #
US-PATENT-CLASS-428-450 ..... c 27 N76-16229 * #
US-PATENT-CLASS-428-450 ..... c 27 N76-22377 * #
US-PATENT-CLASS-428-450 ..... c 27 N76-23426 * #
US-PATENT-CLASS-428-450 ..... c 27 N79-12221 * #
US-PATENT-CLASS-428-450 ..... c 26 N83-31795 * #
US-PATENT-CLASS-428-451 ..... c 27 N79-18052 * #
US-PATENT-CLASS-428-457 ..... c 27 N76-16229 * #
US-PATENT-CLASS-428-457 ..... c 24 N77-27188 * #
US-PATENT-CLASS-428-457 ..... c 24 N77-28225 * #
US-PATENT-CLASS-428-457 ..... c 26 N82-30371 * #
US-PATENT-CLASS-428-458 ..... c 24 N77-28225 * #
US-PATENT-CLASS-428-458 ..... c 24 N79-16915 * #
US-PATENT-CLASS-428-458 ..... c 27 N86-20561 * #
US-PATENT-CLASS-428-461 ..... c 34 N77-18382 * #
US-PATENT-CLASS-428-462 ..... c 27 N82-24340 * #
US-PATENT-CLASS-428-466 ..... c 27 N82-24340 * #
US-PATENT-CLASS-428-469 ..... c 27 N76-16229 * #
US-PATENT-CLASS-428-469 ..... c 26 N83-31795 * #
US-PATENT-CLASS-428-471 ..... c 26 N81-25188 * #
US-PATENT-CLASS-428-472 ..... c 26 N82-30371 * #
US-PATENT-CLASS-428-473.5 .... c 27 N81-14078 * #
US-PATENT-CLASS-428-473.5 .... c 27 N81-29229 * #
US-PATENT-CLASS-428-473.5 .... c 27 N84-14322 * #
US-PATENT-CLASS-428-473.5 .... c 27 N86-19458 * #
US-PATENT-CLASS-428-473.5 .... c 27 N86-20561 * #
US-PATENT-CLASS-428-474 ..... c 34 N77-18382 * #
US-PATENT-CLASS-428-474 ..... c 27 N79-33316 * #
US-PATENT-CLASS-428-474 ..... c 27 N80-24437 * #
US-PATENT-CLASS-428-480 ..... c 24 N81-14000 * #
US-PATENT-CLASS-428-493 ..... c 27 N82-24340 * #
US-PATENT-CLASS-428-49 ..... c 27 N82-24339 * #
US-PATENT-CLASS-428-49 ..... c 27 N82-29456 * #
US-PATENT-CLASS-428-500 ..... c 27 N80-32516 * #
US-PATENT-CLASS-428-515 ..... c 27 N78-31233 * #
US-PATENT-CLASS-428-522 ..... c 27 N78-14164 * #
US-PATENT-CLASS-428-523 ..... c 27 N78-31233 * #
US-PATENT-CLASS-428-528 ..... c 24 N81-13999 * #
US-PATENT-CLASS-428-538 ..... c 27 N76-22377 * #
US-PATENT-CLASS-428-538 ..... c 27 N76-23426 * #
US-PATENT-CLASS-428-538 ..... c 27 N78-31233 * #
US-PATENT-CLASS-428-539 ..... c 27 N76-16229 * #
US-PATENT-CLASS-428-541 ..... c 24 N81-13999 * #
US-PATENT-CLASS-428-564 ..... c 26 N84-33555 * #
US-PATENT-CLASS-428-593 ..... c 24 N82-24296 * #
US-PATENT-CLASS-428-593 ..... c 24 N84-11214 * #
US-PATENT-CLASS-428-594 ..... c 24 N82-24296 * #
US-PATENT-CLASS-428-594 ..... c 24 N82-32417 * #
US-PATENT-CLASS-428-595 ..... c 18 N84-33450 * #
US-PATENT-CLASS-428-604 ..... c 24 N82-24296 * #
US-PATENT-CLASS-428-604 ..... c 24 N82-32417 * #
US-PATENT-CLASS-428-607 ..... c 24 N82-32417 * #
US-PATENT-CLASS-428-608 ..... c 24 N82-32417 * #
US-PATENT-CLASS-428-623 ..... c 27 N83-31855 * #
US-PATENT-CLASS-428-629 ..... c 44 N80-16452 * #
US-PATENT-CLASS-428-632 ..... c 26 N81-25188 * #
US-PATENT-CLASS-428-632 ..... c 26 N84-27855 * #
US-PATENT-CLASS-428-633 ..... c 34 N78-18355 * #
US-PATENT-CLASS-428-633 ..... c 27 N83-31855 * #
US-PATENT-CLASS-428-633 ..... c 24 N85-21266 * #
US-PATENT-CLASS-428-633 ..... c 24 N85-35233 * #
US-PATENT-CLASS-428-639 ..... c 26 N84-33555 * #
US-PATENT-CLASS-428-63 ..... c 24 N83-13172 * #
US-PATENT-CLASS-428-641 ..... c 26 N83-31795 * #
US-PATENT-CLASS-428-650 ..... c 44 N80-16452 * #
US-PATENT-CLASS-428-650 ..... c 26 N83-31795 * #
US-PATENT-CLASS-428-652 ..... c 34 N78-18355 * #
US-PATENT-CLASS-428-652 ..... c 44 N78-19599 * #
US-PATENT-CLASS-428-656 ..... c 24 N85-21266 * #
US-PATENT-CLASS-428-656 ..... c 24 N85-35233 * #
US-PATENT-CLASS-428-658 ..... c 44 N80-16452 * #
US-PATENT-CLASS-428-667 ..... c 34 N78-18355 * #
US-PATENT-CLASS-428-667 ..... c 44 N78-19599 * #
US-PATENT-CLASS-428-675 ..... c 44 N80-16452 * #
US-PATENT-CLASS-428-678 ..... c 26 N81-25188 * #
US-PATENT-CLASS-428-678 ..... c 27 N83-31855 * #
US-PATENT-CLASS-428-678 ..... c 26 N84-33555 * #
US-PATENT-CLASS-428-678 ..... c 24 N85-21266 * #
US-PATENT-CLASS-428-678 ..... c 24 N85-35233 * #
US-PATENT-CLASS-428-679 ..... c 44 N78-19599 * #
US-PATENT-CLASS-428-679 ..... c 26 N81-25188 * #
US-PATENT-CLASS-428-679 ..... c 24 N85-21266 * #
US-PATENT-CLASS-428-679 ..... c 24 N85-35233 * #
US-PATENT-CLASS-428-680 ..... c 44 N80-16452 * #
US-PATENT-CLASS-428-680 ..... c 26 N81-25188 * #
US-PATENT-CLASS-428-680 ..... c 26 N83-31795 * #
US-PATENT-CLASS-428-680 ..... c 24 N85-21266 * #
US-PATENT-CLASS-428-680 ..... c 24 N85-35233 * #
US-PATENT-CLASS-428-681 ..... c 24 N85-21266 * #
US-PATENT-CLASS-428-681 ..... c 24 N85-35233 * #
US-PATENT-CLASS-428-682 ..... c 24 N85-21266 * #
US-PATENT-CLASS-428-682 ..... c 24 N85-35233 * #
US-PATENT-CLASS-428-683 ..... c 24 N85-21266 * #
US-PATENT-CLASS-428-684 ..... c 24 N85-21266 * #
US-PATENT-CLASS-428-698 ..... c 76 N85-33826 * #
US-PATENT-CLASS-428-698 ..... c 26 N85-35267 * #
US-PATENT-CLASS-428-702 ..... c 27 N86-19458 * #
US-PATENT-CLASS-428-704 ..... c 26 N85-35267 * #
US-PATENT-CLASS-428-71 ..... c 24 N78-15180 * #
US-PATENT-CLASS-428-71 ..... c 03 N84-33394 * #
US-PATENT-CLASS-428-73 ..... c 24 N78-10214 * #
US-PATENT-CLASS-428-73 ..... c 24 N78-15180 * #
US-PATENT-CLASS-428-73 ..... c 24 N79-16915 * #
US-PATENT-CLASS-428-76 ..... c 03 N84-33394 * #
US-PATENT-CLASS-428-77 ..... c 27 N76-14264 * #
US-PATENT-CLASS-428-77 ..... c 27 N79-12221 * #
US-PATENT-CLASS-428-78 ..... c 27 N84-14323 * #
US-PATENT-CLASS-428-902 ..... c 24 N77-27188 * #
US-PATENT-CLASS-428-902 ..... c 24 N78-10214 * #
US-PATENT-CLASS-428-902 ..... c 24 N78-17149 * #
US-PATENT-CLASS-428-902 ..... c 24 N81-14000 * #
US-PATENT-CLASS-428-902 ..... c 31 N81-25258 * #
US-PATENT-CLASS-428-902 ..... c 27 N81-27272 * #
US-PATENT-CLASS-428-902 ..... c 27 N83-18908 * #
US-PATENT-CLASS-428-902 ..... c 24 N83-33950 * #
US-PATENT-CLASS-428-902 ..... c 27 N84-14322 * #
US-PATENT-CLASS-428-902 ..... c 27 N84-22745 * #
US-PATENT-CLASS-428-903 ..... c 24 N83-33950 * #
US-PATENT-CLASS-428-911 ..... c 27 N76-16230 * #
US-PATENT-CLASS-428-911 ..... c 24 N77-27188 * #
US-PATENT-CLASS-428-913 ..... c 34 N78-25350 * #
US-PATENT-CLASS-428-913 ..... c 27 N83-18908 * #
US-PATENT-CLASS-428-913 ..... c 76 N85-33826 * #
US-PATENT-CLASS-428-920 ..... c 27 N76-16230 * #
US-PATENT-CLASS-428-920 ..... c 27 N76-22377 * #
US-PATENT-CLASS-428-920 ..... c 27 N76-23426 * #
US-PATENT-CLASS-428-920 ..... c 24 N78-15180 * #
US-PATENT-CLASS-428-920 ..... c 27 N78-32260 * #
US-PATENT-CLASS-428-920 ..... c 27 N79-12221 * #
US-PATENT-CLASS-428-920 ..... c 24 N79-25142 * #
US-PATENT-CLASS-428-920 ..... c 15 N79-26100 * #
US-PATENT-CLASS-428-920 ..... c 27 N81-27272 * #
US-PATENT-CLASS-428-920 ..... c 27 N83-18908 * #
US-PATENT-CLASS-428-920 ..... c 27 N84-14322 * #
US-PATENT-CLASS-428-920 ..... c 27 N84-22745 * #
US-PATENT-CLASS-428-921 ..... c 27 N76-16230 * #
US-PATENT-CLASS-428-921 ..... c 24 N78-27180 * #
US-PATENT-CLASS-428-921 ..... c 24 N81-13999 * #
US-PATENT-CLASS-428-921 ..... c 03 N84-33394 * #
US-PATENT-CLASS-428-922 ..... c 27 N78-14164 * #
US-PATENT-CLASS-428-938 ..... c 27 N82-28441 * #
US-PATENT-CLASS-428-93 ..... c 34 N78-25350 * #
US-PATENT-CLASS-428-941 ..... c 27 N82-28441 * #
US-PATENT-CLASS-428-94 ..... c 34 N78-25350 * #
US-PATENT-CLASS-428-95 ..... c 34 N78-25350 * #
US-PATENT-CLASS-428-96 ..... c 34 N78-25350 * #
US-PATENT-CLASS-428-97 ..... c 34 N78-25350 * #
US-PATENT-CLASS-429-101 ..... c 44 N79-17313 * #
US-PATENT-CLASS-429-101 ..... c 44 N79-26474 * #
US-PATENT-CLASS-429-101 ..... c 33 N80-20487 * #
US-PATENT-CLASS-429-105 ..... c 44 N77-22606 * #
US-PATENT-CLASS-429-105 ..... c 33 N80-20487 * #
US-PATENT-CLASS-429-105 ..... c 44 N83-27344 * #
US-PATENT-CLASS-429-107 ..... c 44 N77-22606 * #
US-PATENT-CLASS-429-107 ..... c 33 N80-20487 * #
US-PATENT-CLASS-429-107 ..... c 44 N83-27344 * #
US-PATENT-CLASS-429-109 ..... c 33 N80-20487 * #
US-PATENT-CLASS-429-109 ..... c 44 N83-27344 * #
US-PATENT-CLASS-429-109 ..... c 44 N86-19721 * #
US-PATENT-CLASS-429-111 ..... c 25 N84-12262 * #
US-PATENT-CLASS-429-111 ..... c 44 N84-23019 * #
US-PATENT-CLASS-429-120 ..... c 44 N81-24521 * #
US-PATENT-CLASS-429-139 ..... c 27 N80-32516 * #
US-PATENT-CLASS-429-139 ..... c 27 N81-24257 * #
US-PATENT-CLASS-429-13 ..... c 44 N79-10513 * #
US-PATENT-CLASS-429-144 ..... c 44 N82-29708 * #
US-PATENT-CLASS-429-144 ..... c 44 N83-32176 * #
US-PATENT-CLASS-429-15 ..... c 44 N79-26474 * #
US-PATENT-CLASS-429-15 ..... c 44 N86-19721 * #
US-PATENT-CLASS-429-160 ..... c 44 N81-24521 * #
US-PATENT-CLASS-429-164 ..... c 44 N81-24521 * #
US-PATENT-CLASS-429-190 ..... c 44 N77-22606 * #
US-PATENT-CLASS-429-193 ..... c 44 N82-29710 * #
US-PATENT-CLASS-429-19 ..... c 44 N86-19721 * #
US-PATENT-CLASS-429-206 ..... c 25 N83-13188 * #
US-PATENT-CLASS-429-206 ..... c 33 N84-14422 * #
US-PATENT-CLASS-429-206 ..... c 33 N85-29144 * #
US-PATENT-CLASS-429-223 ..... c 26 N84-22734 * #
US-PATENT-CLASS-429-229 ..... c 33 N84-14422 * #
US-PATENT-CLASS-429-234 ..... c 26 N84-22734 * #
US-PATENT-CLASS-429-23 ..... c 44 N77-14581 * #
US-PATENT-CLASS-429-249 ..... c 27 N81-24257 * #
US-PATENT-CLASS-429-249 ..... c 23 N81-29160 * #
US-PATENT-CLASS-429-249 ..... c 33 N85-29144 * #
US-PATENT-CLASS-429-251 ..... c 44 N82-29708 * #
US-PATENT-CLASS-429-251 ..... c 44 N83-32176 * #
US-PATENT-CLASS-429-253 ..... c 44 N79-25481 * #
US-PATENT-CLASS-429-253 ..... c 27 N81-24257 * #
US-PATENT-CLASS-429-253 ..... c 23 N81-29160 * #
US-PATENT-CLASS-429-253 ..... c 25 N83-13188 * #
US-PATENT-CLASS-429-254 ..... c 44 N78-25530 * #
US-PATENT-CLASS-429-254 ..... c 44 N82-29708 * #
US-PATENT-CLASS-429-254 ..... c 44 N83-32176 * #

US-PATENT-CLASS-429-27 ..... c 27 N81-24257 * #
US-PATENT-CLASS-429-27 ..... c 23 N81-29160 * #
US-PATENT-CLASS-429-28 ..... c 27 N81-24257 * #
US-PATENT-CLASS-429-28 ..... c 23 N81-29160 * #
US-PATENT-CLASS-429-33 ..... c 44 N79-17313 * #
US-PATENT-CLASS-429-33 ..... c 44 N82-29710 * #
US-PATENT-CLASS-429-34 ..... c 44 N77-14581 * #
US-PATENT-CLASS-429-34 ..... c 44 N83-27344 * #
US-PATENT-CLASS-429-40 ..... c 44 N82-29710 * #
US-PATENT-CLASS-429-40 ..... c 44 N83-27344 * #
US-PATENT-CLASS-429-41 ..... c 44 N79-10513 * #
US-PATENT-CLASS-429-42 ..... c 44 N79-10513 * #
US-PATENT-CLASS-429-44 ..... c 44 N84-28205 * #
US-PATENT-CLASS-429-51 ..... c 44 N86-19721 * #
US-PATENT-CLASS-429-58 ..... c 35 N85-21596 * #
US-PATENT-CLASS-429-94 ..... c 44 N81-24521 * #
US-PATENT-CLASS-430-17 ..... c 35 N82-11432 * #
US-PATENT-CLASS-430-271 ..... c 27 N81-25209 * #
US-PATENT-CLASS-430-325 ..... c 27 N81-25209 * #
US-PATENT-CLASS-430-329 ..... c 27 N81-25209 * #
US-PATENT-CLASS-430-330 ..... c 27 N81-25209 * #
US-PATENT-CLASS-430-372 ..... c 35 N82-11432 * #
US-PATENT-CLASS-431-10 ..... c 34 N78-27357 * #
US-PATENT-CLASS-431-10 ..... c 25 N79-11151 * #
US-PATENT-CLASS-431-116 ..... c 44 N77-10636 * #
US-PATENT-CLASS-431-11 ..... c 44 N77-10636 * #
US-PATENT-CLASS-431-158 ..... c 25 N78-10224 * #
US-PATENT-CLASS-431-162 ..... c 44 N77-10636 * #
US-PATENT-CLASS-431-163 ..... c 44 N76-29704 * #
US-PATENT-CLASS-431-170 ..... c 44 N77-10636 * #
US-PATENT-CLASS-431-173 ..... c 23 N73-30665 * #
US-PATENT-CLASS-431-1 ..... c 25 N84-16276 * #
US-PATENT-CLASS-431-202 ..... c 25 N74-33378 * #
US-PATENT-CLASS-431-208 ..... c 25 N79-11151 * #
US-PATENT-CLASS-431-210 ..... c 44 N76-29704 * #
US-PATENT-CLASS-431-2 ..... c 07 N81-29129 * #
US-PATENT-CLASS-431-328 ..... c 34 N78-27357 * #
US-PATENT-CLASS-431-352 ..... c 28 N71-28915 *
US-PATENT-CLASS-431-352 ..... c 25 N78-10224 * #
US-PATENT-CLASS-431-41 ..... c 44 N77-10636 * #
US-PATENT-CLASS-431-4 ..... c 44 N76-29704 * #
US-PATENT-CLASS-431-7 ..... c 34 N78-27357 * #
US-PATENT-CLASS-431-9 ..... c 23 N73-30665 * #
US-PATENT-CLASS-432-18 ..... c 35 N86-20750 * #
US-PATENT-CLASS-432-223 ..... c 25 N79-11151 * #
US-PATENT-CLASS-432-227 ..... c 35 N83-24828 * #
US-PATENT-CLASS-432-264 ..... c 33 N81-19389 * #
US-PATENT-CLASS-432-29 ..... c 25 N79-11151 * #
US-PATENT-CLASS-432-58 ..... c 35 N83-24828 * #
US-PATENT-CLASS-433-118 ..... c 52 N82-29862 * #
US-PATENT-CLASS-433-125 ..... c 52 N82-29862 * #
US-PATENT-CLASS-433-86 ..... c 52 N82-29862 * #
US-PATENT-CLASS-434-242 ..... c 09 N85-19990 * #
US-PATENT-CLASS-434-243 ..... c 09 N85-19990 * #
US-PATENT-CLASS-434-2 ..... c 32 N84-27951 * #
US-PATENT-CLASS-434-35 ..... c 09 N85-19990 * #
US-PATENT-CLASS-434-38 ..... c 36 N83-34304 * #
US-PATENT-CLASS-434-403 ..... c 31 N83-34073 * #
US-PATENT-CLASS-434-42 ..... c 09 N82-24212 * #
US-PATENT-CLASS-434-43 ..... c 09 N82-24212 * #
US-PATENT-CLASS-434-49 ..... c 09 N85-19990 * #
US-PATENT-CLASS-434-4 ..... c 36 N83-34304 * #
US-PATENT-CLASS-434-59 ..... c 54 N81-27806 * #
US-PATENT-CLASS-434-88 ..... c 31 N83-34073 * #
US-PATENT-CLASS-435-160 ..... c 23 N85-35227 * #
US-PATENT-CLASS-435-289 ..... c 51 N80-27067 * #
US-PATENT-CLASS-435-289 ..... c 51 N83-27569 * #
US-PATENT-CLASS-435-290 ..... c 51 N80-27067 * #
US-PATENT-CLASS-435-291 ..... c 51 N80-27067 * #
US-PATENT-CLASS-435-291 ..... c 51 N81-28698 * #
US-PATENT-CLASS-435-291 ..... c 35 N82-28604 * #
US-PATENT-CLASS-435-291 ..... c 51 N83-27569 * #
US-PATENT-CLASS-435-311 ..... c 51 N80-27067 * #
US-PATENT-CLASS-435-316 ..... c 51 N80-27067 * #
US-PATENT-CLASS-435-32 ..... c 51 N80-27067 * #
US-PATENT-CLASS-435-34 ..... c 51 N80-16714 * #
US-PATENT-CLASS-435-34 ..... c 51 N80-27067 * #
US-PATENT-CLASS-435-34 ..... c 51 N81-28698 * #
US-PATENT-CLASS-435-34 ..... c 35 N82-28604 * #
US-PATENT-CLASS-435-34 ..... c 51 N83-27569 * #
US-PATENT-CLASS-435-34 ..... c 51 N83-28849 * #
US-PATENT-CLASS-435-38 ..... c 51 N80-27067 * #
US-PATENT-CLASS-435-38 ..... c 51 N83-27569 * #
US-PATENT-CLASS-435-38 ..... c 51 N83-28849 * #
US-PATENT-CLASS-435-39 ..... c 51 N80-27067 * #
US-PATENT-CLASS-435-39 ..... c 35 N82-28604 * #
US-PATENT-CLASS-435-39 ..... c 51 N83-27569 * #
US-PATENT-CLASS-435-39 ..... c 51 N83-28849 * #
US-PATENT-CLASS-435-3 ..... c 51 N80-27067 * #
US-PATENT-CLASS-435-3 ..... c 51 N83-27569 * #
US-PATENT-CLASS-435-3 ..... c 51 N83-28849 * #
US-PATENT-CLASS-435-5 ..... c 51 N81-28698 * #
US-PATENT-CLASS-435-807 ..... c 51 N83-28849 * #
US-PATENT-CLASS-435-842 ..... c 23 N85-35227 * #
US-PATENT-CLASS-435-8 ..... c 51 N83-27569 * #
US-PATENT-CLASS-436-155 ..... c 25 N86-19413 * #
US-PATENT-CLASS-436-2 ..... c 35 N85-29213 * #
US-PATENT-CLASS-44-1-SR ..... c 25 N85-35253 * #
US-PATENT-CLASS-44-1R ..... c 44 N78-31527 * #
US-PATENT-CLASS-44-1R ..... c 25 N81-33246 * #
US-PATENT-CLASS-44-1SR ..... c 25 N82-29371 * #
US-PATENT-CLASS-44-1SR ..... c 25 N83-31743 * #
US-PATENT-CLASS-44-2 ..... c 44 N78-31527 * #
US-PATENT-CLASS-44-2 ..... c 25 N81-33246 * #
US-PATENT-CLASS-44-50 ..... c 27 N81-17261 * #
US-PATENT-CLASS-44-51 ..... c 25 N79-11152 * #
US-PATENT-CLASS-44-62 ..... c 27 N81-17261 * #
US-PATENT-CLASS-44-7R ..... c 28 N81-14103 * #
US-PATENT-CLASS-44-77 ..... c 06 N71-23499 *
US-PATENT-CLASS-445-35 ..... c 37 N85-33489 * #
US-PATENT-CLASS-455-102 ..... c 33 N81-15192 * #
US-PATENT-CLASS-455-137 ..... c 35 N82-15381 * #
US-PATENT-CLASS-455-139 ..... c 35 N82-15381 * #
US-PATENT-CLASS-455-202 ..... c 33 N82-29539 * #
US-PATENT-CLASS-455-202 ..... c 32 N84-27952 * #
US-PATENT-CLASS-455-208 ..... c 33 N82-29539 * #
US-PATENT-CLASS-455-208 ..... c 32 N84-27952 * #
US-PATENT-CLASS-455-234 ..... c 33 N82-29539 * #
US-PATENT-CLASS-455-260 ..... c 32 N84-27952 * #
US-PATENT-CLASS-455-265 ..... c 32 N84-27952 * #
US-PATENT-CLASS-455-278 ..... c 32 N81-29308 * #
US-PATENT-CLASS-455-306 ..... c 33 N82-29539 * #
US-PATENT-CLASS-455-51 ..... c 32 N81-14186 * #
US-PATENT-CLASS-455-60 ..... c 35 N82-15381 * #
US-PATENT-CLASS-455-610 ..... c 74 N82-19029 * #
US-PATENT-CLASS-455-612 ..... c 74 N82-19029 * #
US-PATENT-CLASS-455-612 ..... c 74 N83-29032 * #
US-PATENT-CLASS-455-615 ..... c 74 N82-19029 * #
US-PATENT-CLASS-455-617 ..... c 74 N82-19029 * #
US-PATENT-CLASS-455-619 ..... c 32 N81-14186 * #
US-PATENT-CLASS-455-71 ..... c 32 N81-14186 * #
US-PATENT-CLASS-455-73 ..... c 32 N85-29118 * #
US-PATENT-CLASS-467-28 ..... c 39 N80-10507 * #
US-PATENT-CLASS-47-1.2 ..... c 51 N75-25503 * #
US-PATENT-CLASS-47-1.4 ..... c 31 N73-32750 * #
US-PATENT-CLASS-47-17 ..... c 31 N73-32750 * #
US-PATENT-CLASS-47-26 ..... c 37 N83-26078 * #
US-PATENT-CLASS-47-39 ..... c 51 N75-25503 * #
US-PATENT-CLASS-47-58 ..... c 51 N75-25503 * #
US-PATENT-CLASS-47-58 ..... c 51 N83-17045 * #
US-PATENT-CLASS-47-58 ..... c 45 N84-12654 * #
US-PATENT-CLASS-474-205 ..... c 37 N80-32717 * #
US-PATENT-CLASS-48-DIG.8 ..... c 28 N80-10374 * #
US-PATENT-CLASS-48-10-3 ..... c 28 N80-10374 * #
US-PATENT-CLASS-48-102A ..... c 28 N80-10374 * #
US-PATENT-CLASS-48-107 ..... c 28 N80-10374 * #
US-PATENT-CLASS-48-116 ..... c 44 N76-18642 * #
US-PATENT-CLASS-48-116 ..... c 44 N77-10636 * #
US-PATENT-CLASS-48-117 ..... c 44 N76-18642 * #
US-PATENT-CLASS-48-117 ..... c 44 N77-10636 * #
US-PATENT-CLASS-48-117 ..... c 28 N80-10374 * #
US-PATENT-CLASS-48-197R ..... c 44 N76-29704 * #
US-PATENT-CLASS-48-197R ..... c 44 N77-10636 * #
US-PATENT-CLASS-48-212 ..... c 44 N77-10636 * #
US-PATENT-CLASS-48-215 ..... c 44 N76-29700 * #
US-PATENT-CLASS-48-61 ..... c 44 N77-10636 * #
US-PATENT-CLASS-48-61 ..... c 28 N80-10374 * #
US-PATENT-CLASS-48-63 ..... c 44 N76-18642 * #
US-PATENT-CLASS-48-75 ..... c 44 N76-18642 * #
US-PATENT-CLASS-48-89 ..... c 44 N82-16475 * #
US-PATENT-CLASS-48-95 ..... c 44 N76-18642 * #
US-PATENT-CLASS-48-95 ..... c 44 N76-29700 * #
US-PATENT-CLASS-48-99 ..... c 44 N82-16475 * #
US-PATENT-CLASS-49-DIG.1 ..... c 34 N78-25350 * #
US-PATENT-CLASS-49-171 ..... c 31 N81-19343 * #
US-PATENT-CLASS-49-479 ..... c 34 N78-25350 * #
US-PATENT-CLASS-49-485 ..... c 34 N78-25350 * #
US-PATENT-CLASS-49-68 ..... c 18 N74-22136 * #
US-PATENT-CLASS-5-345 ..... c 05 N70-33285 *
US-PATENT-CLASS-5-459 ..... c 03 N84-33394 * #
US-PATENT-CLASS-5-69 ..... c 05 N72-11085 *
US-PATENT-CLASS-5-82 ..... c 05 N71-23159 *
US-PATENT-CLASS-51-170 ..... c 15 N71-26134 *
US-PATENT-CLASS-51-216 ..... c 15 N72-20444 * #
US-PATENT-CLASS-51-225 ..... c 37 N74-27905 * #
US-PATENT-CLASS-51-234 ..... c 37 N74-27905 * #
US-PATENT-CLASS-51-235 ..... c 37 N78-17383 * #
US-PATENT-CLASS-51-235 ..... c 76 N80-18951 * #
US-PATENT-CLASS-51-277 ..... c 74 N80-24149 * #
US-PATENT-CLASS-51-283R ..... c 74 N80-24149 * #
US-PATENT-CLASS-51-283 ..... c 46 N74-23069 * #
US-PATENT-CLASS-51-320 ..... c 15 N72-20444 * #
US-PATENT-CLASS-51-323 ..... c 15 N72-20444 * #
US-PATENT-CLASS-51-57 ..... c 15 N71-22705 *
US-PATENT-CLASS-51-73R ..... c 37 N85-21650 * #
US-PATENT-CLASS-51-97R ..... c 37 N74-27905 * #
US-PATENT-CLASS-52-DIG.10 .... c 18 N72-25540 * #
US-PATENT-CLASS-52-DIG.10 .... c 18 N72-25541 * #
US-PATENT-CLASS-52-108 ..... c 15 N72-18477 * #
US-PATENT-CLASS-52-108 ..... c 31 N81-27323 * #
US-PATENT-CLASS-52-109 ..... c 31 N73-32749 * #
US-PATENT-CLASS-52-111 ..... c 31 N81-27324 * #
US-PATENT-CLASS-52-117 ..... c 44 N77-32582 * #
US-PATENT-CLASS-52-127.7 ..... c 37 N85-30335 * #
US-PATENT-CLASS-52-127 ..... c 15 N71-21531 *
US-PATENT-CLASS-52-169 ..... c 15 N72-25454 * #
US-PATENT-CLASS-52-171 ..... c 11 N73-12265 * #
US-PATENT-CLASS-52-171 ..... c 74 N85-29750 * #
US-PATENT-CLASS-52-173R ..... c 44 N77-31601 * #
US-PATENT-CLASS-52-173 ..... c 15 N72-25454 * #
US-PATENT-CLASS-52-1 ..... c 15 N72-28496 * #
US-PATENT-CLASS-52-232 ..... c 37 N81-14317 * #
US-PATENT-CLASS-52-236 ..... c 39 N76-31562 * #
US-PATENT-CLASS-52-249 ..... c 33 N71-25351 *
US-PATENT-CLASS-52-272 ..... c 31 N71-24035 *
US-PATENT-CLASS-52-284 ..... c 32 N73-13921 * #
US-PATENT-CLASS-52-2 ..... c 32 N71-21045 *
US-PATENT-CLASS-52-2 ..... c 44 N77-32583 * #
US-PATENT-CLASS-52-309.1 ..... c 31 N81-25258 * #
US-PATENT-CLASS-52-3 ..... c 31 N71-16080 *
US-PATENT-CLASS-52-404 ..... c 33 N71-25351 *
US-PATENT-CLASS-52-404 ..... c 16 N84-22601 * #
US-PATENT-CLASS-52-506 ..... c 16 N84-22601 * #
US-PATENT-CLASS-52-506 ..... c 37 N85-30335 * #
US-PATENT-CLASS-52-51 ..... c 44 N77-31601 * #
US-PATENT-CLASS-52-573 ..... c 15 N72-28496 * #
US-PATENT-CLASS-52-594 ..... c 15 N72-25454 * #
US-PATENT-CLASS-52-594 ..... c 32 N73-13921 * #
US-PATENT-CLASS-52-632 ..... c 31 N81-27324 * #
US-PATENT-CLASS-52-632 ..... c 31 N86-19479 * #
US-PATENT-CLASS-52-637 ..... c 39 N76-31562 * #
US-PATENT-CLASS-52-637 ..... c 31 N86-19479 * #
US-PATENT-CLASS-52-645 ..... c 31 N81-25259 * #
US-PATENT-CLASS-52-646 ..... c 31 N73-32749 * #
US-PATENT-CLASS-52-646 ..... c 31 N86-19479 * #
US-PATENT-CLASS-52-648 ..... c 11 N72-25287 * #
US-PATENT-CLASS-52-648 ..... c 39 N76-31562 * #
US-PATENT-CLASS-52-648 ..... c 31 N81-25258 * #
US-PATENT-CLASS-52-648 ..... c 31 N86-19479 * #
US-PATENT-CLASS-52-64 ..... c 31 N73-32749 * #
US-PATENT-CLASS-52-651 ..... c 39 N76-31562 * #
US-PATENT-CLASS-52-655 ..... c 11 N72-25287 * #
US-PATENT-CLASS-52-705 ..... c 37 N76-19437 * #
US-PATENT-CLASS-52-71 ..... c 18 N75-27040 * #
US-PATENT-CLASS-52-726 ..... c 39 N76-31562 * #
US-PATENT-CLASS-52-726 ..... c 31 N81-25258 * #
US-PATENT-CLASS-52-743 ..... c 37 N81-14317 * #
US-PATENT-CLASS-52-745 ..... c 39 N76-31562 * #
US-PATENT-CLASS-52-745 ..... c 31 N81-27323 * #
US-PATENT-CLASS-52-745 ..... c 37 N85-30335 * #
US-PATENT-CLASS-52-749 ..... c 39 N76-31562 * #
US-PATENT-CLASS-52-758F ..... c 37 N76-19437 * #
US-PATENT-CLASS-52-806 ..... c 24 N84-11214 * #
US-PATENT-CLASS-52-808 ..... c 24 N84-11214 * #
US-PATENT-CLASS-52-80 ..... c 18 N72-25540 * #
US-PATENT-CLASS-52-80 ..... c 18 N72-25541 * #
US-PATENT-CLASS-52-80 ..... c 31 N73-32749 * #
US-PATENT-CLASS-52-814 ..... c 18 N84-33450 * #
US-PATENT-CLASS-52-81 ..... c 37 N82-32732 * #
US-PATENT-CLASS-521-124 ..... c 25 N80-16116 * #
US-PATENT-CLASS-521-125 ..... c 25 N80-16116 * #
US-PATENT-CLASS-521-127 ..... c 25 N80-16116 * #
US-PATENT-CLASS-521-141 ..... c 51 N84-28361 * #
US-PATENT-CLASS-521-142 ..... c 51 N84-28361 * #
US-PATENT-CLASS-521-146 ..... c 25 N80-23383 * #
US-PATENT-CLASS-521-149 ..... c 51 N84-28361 * #
US-PATENT-CLASS-521-157 ..... c 25 N80-16116 * #
US-PATENT-CLASS-521-27 ..... c 27 N81-14076 * #
US-PATENT-CLASS-521-32 ..... c 27 N81-14076 * #
US-PATENT-CLASS-521-55 ..... c 25 N80-23383 * #
US-PATENT-CLASS-521-62 ..... c 27 N81-14076 * #
US-PATENT-CLASS-521-918 ..... c 25 N80-23383 * #
US-PATENT-CLASS-523-135 ..... c 27 N85-29044 * #
US-PATENT-CLASS-523-205 ..... c 27 N83-19900 * #
US-PATENT-CLASS-523-433 ..... c 24 N86-19380 * #
US-PATENT-CLASS-523-435 ..... c 24 N84-11213 * #
US-PATENT-CLASS-523-440 ..... c 27 N83-34043 * #
US-PATENT-CLASS-523-443 ..... c 27 N83-34043 * #
US-PATENT-CLASS-523-445 ..... c 24 N86-19380 * #
US-PATENT-CLASS-523-454 ..... c 24 N84-34571 * #
US-PATENT-CLASS-523-454 ..... c 27 N85-34282 * #
US-PATENT-CLASS-523-456 ..... c 24 N84-11213 * #
US-PATENT-CLASS-523-458 ..... c 24 N84-34571 * #
US-PATENT-CLASS-523-458 ..... c 27 N85-34282 * #
US-PATENT-CLASS-523-66468 ... c 24 N86-19380 * #
US-PATENT-CLASS-524-104 ..... c 27 N83-28240 * #
US-PATENT-CLASS-524-171 ..... c 27 N84-22747 * #
US-PATENT-CLASS-524-173 ..... c 27 N83-28240 * #
US-PATENT-CLASS-524-233 ..... c 27 N83-28240 * #
US-PATENT-CLASS-524-371 ..... c 27 N84-14324 * #
US-PATENT-CLASS-524-388 ..... c 27 N85-29044 * #
US-PATENT-CLASS-524-436 ..... c 27 N83-19900 * #
US-PATENT-CLASS-524-437 ..... c 27 N83-19900 * #
US-PATENT-CLASS-524-494 ..... c 27 N84-14322 * #
US-PATENT-CLASS-524-496 ..... c 27 N84-14322 * #
US-PATENT-CLASS-524-500 ..... c 27 N84-14322 * #
US-PATENT-CLASS-524-503 ..... c 27 N83-19900 * #
US-PATENT-CLASS-524-530 ..... c 27 N84-14322 * #

US-PATENT-CLASS-524-548 ..... c 27 N86-20560 * #
US-PATENT-CLASS-524-564 ..... c 27 N83-19900 * #
US-PATENT-CLASS-524-567 ..... c 27 N85-29044 * #
US-PATENT-CLASS-524-726 ..... c 27 N83-28240 * #
US-PATENT-CLASS-524-786 ..... c 27 N83-19900 * #
US-PATENT-CLASS-525-107 ..... c 27 N85-34281 * #
US-PATENT-CLASS-525-113 ..... c 27 N85-34281 * #
US-PATENT-CLASS-525-119 ..... c 27 N85-34281 * #
US-PATENT-CLASS-525-181 ..... c 27 N83-28240 * #
US-PATENT-CLASS-525-181 ..... c 27 N85-21349 * #
US-PATENT-CLASS-525-182 ..... c 27 N85-21349 * #
US-PATENT-CLASS-525-183 ..... c 27 N83-28240 * #
US-PATENT-CLASS-525-183 ..... c 27 N85-21349 * #
US-PATENT-CLASS-525-184 ..... c 27 N83-28240 * #
US-PATENT-CLASS-525-184 ..... c 27 N85-21349 * #
US-PATENT-CLASS-525-186 ..... c 27 N85-34281 * #
US-PATENT-CLASS-525-186 ..... c 27 N86-20560 * #
US-PATENT-CLASS-525-229 ..... c 27 N85-34281 * #
US-PATENT-CLASS-525-26 ..... c 27 N85-29043 * #
US-PATENT-CLASS-525-282 ..... c 27 N84-14322 * #
US-PATENT-CLASS-525-287 ..... c 27 N84-14322 * #
US-PATENT-CLASS-525-326 ..... c 27 N80-24438 * #
US-PATENT-CLASS-525-336 ..... c 27 N80-24438 * #
US-PATENT-CLASS-525-340 ..... c 27 N80-24438 * #
US-PATENT-CLASS-525-374 ..... c 27 N80-24438 * #
US-PATENT-CLASS-525-375 ..... c 27 N80-24438 * #
US-PATENT-CLASS-525-384 ..... c 28 N81-15119 * #
US-PATENT-CLASS-525-389 ..... c 27 N84-22750 * #
US-PATENT-CLASS-525-417 ..... c 27 N84-22745 * #
US-PATENT-CLASS-525-420 ..... c 27 N85-20123 * #
US-PATENT-CLASS-525-423 ..... c 24 N86-19380 * #
US-PATENT-CLASS-525-426 ..... c 27 N80-26446 * #
US-PATENT-CLASS-525-426 ..... c 27 N84-22746 * #
US-PATENT-CLASS-525-432 ..... c 27 N86-19456 * #
US-PATENT-CLASS-525-436 ..... c 27 N86-19456 * #
US-PATENT-CLASS-525-474 ..... c 27 N83-28240 * #
US-PATENT-CLASS-525-474 ..... c 27 N85-21349 * #
US-PATENT-CLASS-525-47 ..... c 27 N85-29043 * #
US-PATENT-CLASS-525-484 ..... c 24 N84-34571 * #
US-PATENT-CLASS-525-4 ..... c 25 N80-23383 * #
US-PATENT-CLASS-525-527 ..... c 24 N86-19380 * #
US-PATENT-CLASS-525-532 ..... c 23 N85-28973 * #
US-PATENT-CLASS-525-534 ..... c 27 N84-22747 * #
US-PATENT-CLASS-525-534 ..... c 23 N85-28973 * #
US-PATENT-CLASS-525-535 ..... c 27 N84-22747 * #
US-PATENT-CLASS-525-536 ..... c 27 N84-22747 * #
US-PATENT-CLASS-525-56 ..... c 23 N81-29160 * #
US-PATENT-CLASS-525-61 ..... c 27 N81-24257 * #
US-PATENT-CLASS-525-61 ..... c 23 N81-29160 * #
US-PATENT-CLASS-525-61 ..... c 25 N83-13188 * #
US-PATENT-CLASS-526-13 ..... c 27 N78-32256 * #
US-PATENT-CLASS-526-193 ..... c 27 N78-15276 * #
US-PATENT-CLASS-526-1 ..... c 27 N76-24405 * #
US-PATENT-CLASS-526-201 ..... c 25 N81-19242 * #
US-PATENT-CLASS-526-204 ..... c 25 N85-30039 * #
US-PATENT-CLASS-526-217 ..... c 27 N85-21350 * #
US-PATENT-CLASS-526-217 ..... c 25 N85-30039 * #
US-PATENT-CLASS-526-225 ..... c 27 N78-15276 * #
US-PATENT-CLASS-526-23 ..... c 27 N78-32256 * #
US-PATENT-CLASS-526-255 ..... c 27 N76-24405 * #
US-PATENT-CLASS-526-259 ..... c 27 N83-34040 * #
US-PATENT-CLASS-526-261 ..... c 27 N80-24438 * #
US-PATENT-CLASS-526-262 ..... c 27 N81-27272 * #
US-PATENT-CLASS-526-262 ..... c 27 N84-22745 * #
US-PATENT-CLASS-526-262 ..... c 27 N84-27885 * #
US-PATENT-CLASS-526-262 ..... c 27 N85-21347 * #
US-PATENT-CLASS-526-262 ..... c 27 N85-21350 * #
US-PATENT-CLASS-526-262 ..... c 27 N85-21351 * #
US-PATENT-CLASS-526-262 ..... c 27 N85-21352 * #
US-PATENT-CLASS-526-262 ..... c 25 N85-28982 * #
US-PATENT-CLASS-526-262 ..... c 25 N85-30039 * #
US-PATENT-CLASS-526-262 ..... c 27 N86-20560 * #
US-PATENT-CLASS-526-262 ..... c 24 N86-21590 * #
US-PATENT-CLASS-526-274 ..... c 27 N85-21347 * #
US-PATENT-CLASS-526-275 ..... c 27 N78-32256 * #
US-PATENT-CLASS-526-275 ..... c 27 N80-24438 * #
US-PATENT-CLASS-526-276 ..... c 27 N78-32256 * #
US-PATENT-CLASS-526-276 ..... c 27 N80-24438 * #
US-PATENT-CLASS-526-278 ..... c 27 N78-32256 * #
US-PATENT-CLASS-526-278 ..... c 27 N80-24438 * #
US-PATENT-CLASS-526-27 ..... c 27 N78-32256 * #
US-PATENT-CLASS-526-285 ..... c 27 N83-34040 * #
US-PATENT-CLASS-526-328 ..... c 27 N85-29043 * #
US-PATENT-CLASS-526-329.2 .... c 27 N85-29043 * #
US-PATENT-CLASS-526-49 ..... c 27 N78-32256 * #
US-PATENT-CLASS-526-50 ..... c 27 N78-32256 * #
US-PATENT-CLASS-526-7 ..... c 44 N79-25481 * #
US-PATENT-CLASS-526-88 ..... c 25 N81-19242 * #
US-PATENT-CLASS-526-914 ..... c 28 N81-15119 * #
US-PATENT-CLASS-526-9 ..... c 44 N79-25481 * #
US-PATENT-CLASS-528-102 ..... c 24 N86-19380 * #
US-PATENT-CLASS-528-103 ..... c 24 N86-19380 * #
US-PATENT-CLASS-528-106 ..... c 27 N85-34282 * #
US-PATENT-CLASS-528-110 ..... c 24 N84-11213 * #
US-PATENT-CLASS-528-113 ..... c 27 N85-34281 * #
US-PATENT-CLASS-528-117 ..... c 27 N85-34281 * #
US-PATENT-CLASS-528-118 ..... c 27 N81-17260 * #
US-PATENT-CLASS-528-125 ..... c 27 N83-34040 * #
US-PATENT-CLASS-528-125 ..... c 27 N84-22749 * #
US-PATENT-CLASS-528-125 ..... c 27 N85-21348 * #
US-PATENT-CLASS-528-126 ..... c 27 N79-28307 * #
US-PATENT-CLASS-528-126 ..... c 27 N82-11206 * #
US-PATENT-CLASS-528-126 ..... c 27 N83-34040 * #
US-PATENT-CLASS-528-126 ..... c 27 N85-21348 * #
US-PATENT-CLASS-528-127 ..... c 27 N79-28307 * #
US-PATENT-CLASS-528-128 ..... c 27 N79-28307 * #
US-PATENT-CLASS-528-128 ..... c 27 N83-34040 * #
US-PATENT-CLASS-528-128 ..... c 27 N84-22749 * #
US-PATENT-CLASS-528-128 ..... c 27 N85-21348 * #
US-PATENT-CLASS-528-12 ..... c 27 N83-34040 * #
US-PATENT-CLASS-528-166 ..... c 27 N85-21348 * #
US-PATENT-CLASS-528-167 ..... c 27 N85-21347 * #
US-PATENT-CLASS-528-168 ..... c 27 N81-27271 * #
US-PATENT-CLASS-528-168 ..... c 27 N82-18389 * #
US-PATENT-CLASS-528-168 ..... c 27 N85-21347 * #
US-PATENT-CLASS-528-168 ..... c 27 N85-34280 * #
US-PATENT-CLASS-528-170 ..... c 27 N85-21347 * #
US-PATENT-CLASS-528-172 ..... c 27 N82-11206 * #
US-PATENT-CLASS-528-172 ..... c 27 N84-22749 * #
US-PATENT-CLASS-528-173 ..... c 27 N82-11206 * #
US-PATENT-CLASS-528-179 ..... c 27 N86-19456 * #
US-PATENT-CLASS-528-180 ..... c 27 N82-11206 * #
US-PATENT-CLASS-528-182 ..... c 27 N86-19456 * #
US-PATENT-CLASS-528-183 ..... c 27 N84-22746 * #
US-PATENT-CLASS-528-183 ..... c 27 N85-20123 * #
US-PATENT-CLASS-528-185 ..... c 27 N84-22749 * #
US-PATENT-CLASS-528-185 ..... c 27 N85-21348 * #
US-PATENT-CLASS-528-185 ..... c 27 N86-19456 * #
US-PATENT-CLASS-528-186 ..... c 27 N85-21348 * #
US-PATENT-CLASS-528-187 ..... c 27 N85-21348 * #
US-PATENT-CLASS-528-192 ..... c 27 N85-20123 * #
US-PATENT-CLASS-528-207 ..... c 27 N80-16158 * #
US-PATENT-CLASS-528-207 ..... c 27 N82-11206 * #
US-PATENT-CLASS-528-208 ..... c 27 N80-16158 * #
US-PATENT-CLASS-528-208 ..... c 27 N82-11206 * #
US-PATENT-CLASS-528-210 ..... c 27 N82-11206 * #
US-PATENT-CLASS-528-211 ..... c 27 N82-11206 * #
US-PATENT-CLASS-528-220 ..... c 27 N83-34040 * #
US-PATENT-CLASS-528-220 ..... c 27 N84-22746 * #
US-PATENT-CLASS-528-220 ..... c 27 N85-20123 * #
US-PATENT-CLASS-528-221 ..... c 27 N79-28307 * #
US-PATENT-CLASS-528-222 ..... c 27 N81-29229 * #
US-PATENT-CLASS-528-222 ..... c 27 N83-34040 * #
US-PATENT-CLASS-528-222 ..... c 27 N83-34041 * #
US-PATENT-CLASS-528-223 ..... c 27 N79-28307 * #
US-PATENT-CLASS-528-225 ..... c 27 N79-28307 * #
US-PATENT-CLASS-528-225 ..... c 27 N82-11206 * #
US-PATENT-CLASS-528-226 ..... c 27 N83-34041 * #
US-PATENT-CLASS-528-226 ..... c 27 N85-20124 * #
US-PATENT-CLASS-528-226 ..... c 27 N85-21348 * #
US-PATENT-CLASS-528-227 ..... c 27 N79-28307 * #
US-PATENT-CLASS-528-228 ..... c 27 N81-27272 * #
US-PATENT-CLASS-528-228 ..... c 27 N82-11206 * #
US-PATENT-CLASS-528-228 ..... c 27 N83-34040 * #
US-PATENT-CLASS-528-228 ..... c 27 N84-22745 * #
US-PATENT-CLASS-528-229 ..... c 27 N79-28307 * #
US-PATENT-CLASS-528-229 ..... c 27 N79-33316 * #
US-PATENT-CLASS-528-229 ..... c 27 N81-29229 * #
US-PATENT-CLASS-528-229 ..... c 27 N83-34040 * #
US-PATENT-CLASS-528-229 ..... c 27 N85-21348 * #
US-PATENT-CLASS-528-229 ..... c 27 N85-21350 * #
US-PATENT-CLASS-528-229 ..... c 27 N85-21351 * #
US-PATENT-CLASS-528-229 ..... c 27 N85-21352 * #
US-PATENT-CLASS-528-229 ..... c 27 N85-34280 * #
US-PATENT-CLASS-528-229 ..... c 27 N85-34282 * #
US-PATENT-CLASS-528-229 ..... c 27 N86-19457 * #
US-PATENT-CLASS-528-239 ..... c 27 N85-20124 * #
US-PATENT-CLASS-528-241 ..... c 27 N85-20124 * #
US-PATENT-CLASS-528-258 ..... c 27 N85-20124 * #
US-PATENT-CLASS-528-25 ..... c 27 N84-22747 * #
US-PATENT-CLASS-528-26 ..... c 27 N84-22747 * #
US-PATENT-CLASS-528-271 ..... c 27 N84-27884 * #
US-PATENT-CLASS-528-279 ..... c 27 N85-20124 * #
US-PATENT-CLASS-528-288 ..... c 27 N85-29043 * #
US-PATENT-CLASS-528-289 ..... c 27 N85-29043 * #
US-PATENT-CLASS-528-303 ..... c 27 N85-29043 * #
US-PATENT-CLASS-528-304 ..... c 27 N85-29043 * #
US-PATENT-CLASS-528-310 ..... c 27 N81-17262 * #
US-PATENT-CLASS-528-310 ..... c 27 N81-24256 * #
US-PATENT-CLASS-528-310 ..... c 27 N82-24338 * #
US-PATENT-CLASS-528-310 ..... c 27 N84-27884 * #
US-PATENT-CLASS-528-310 ..... c 23 N86-19376 * #
US-PATENT-CLASS-528-314 ..... c 25 N85-30039 * #
US-PATENT-CLASS-528-315 ..... c 27 N85-21350 * #
US-PATENT-CLASS-528-321 ..... c 27 N85-21347 * #
US-PATENT-CLASS-528-322 ..... c 27 N81-17260 * #
US-PATENT-CLASS-528-322 ..... c 27 N84-22745 * #
US-PATENT-CLASS-528-322 ..... c 27 N84-27885 * #
US-PATENT-CLASS-528-322 ..... c 27 N85-21347 * #
US-PATENT-CLASS-528-322 ..... c 27 N85-21350 * #
US-PATENT-CLASS-528-322 ..... c 27 N85-21351 * #
US-PATENT-CLASS-528-322 ..... c 27 N85-21352 * #
US-PATENT-CLASS-528-322 ..... c 25 N85-28982 * #
US-PATENT-CLASS-528-322 ..... c 25 N85-30039 * #
US-PATENT-CLASS-528-322 ..... c 27 N86-19457 * #
US-PATENT-CLASS-528-327 ..... c 27 N84-27884 * #
US-PATENT-CLASS-528-327 ..... c 27 N86-19455 * #
US-PATENT-CLASS-528-328 ..... c 27 N82-24338 * #
US-PATENT-CLASS-528-331 ..... c 27 N79-28307 * #
US-PATENT-CLASS-528-331 ..... c 27 N84-27884 * #
US-PATENT-CLASS-528-336 ..... c 27 N79-28307 * #
US-PATENT-CLASS-528-336 ..... c 27 N85-20123 * #
US-PATENT-CLASS-528-336 ..... c 27 N85-21350 * #
US-PATENT-CLASS-528-337 ..... c 27 N79-28307 * #
US-PATENT-CLASS-528-338 ..... c 27 N79-28307 * #
US-PATENT-CLASS-528-342 ..... c 27 N79-28307 * #
US-PATENT-CLASS-528-342 ..... c 27 N84-27885 * #
US-PATENT-CLASS-528-342 ..... c 27 N85-21350 * #
US-PATENT-CLASS-528-342 ..... c 27 N85-21351 * #
US-PATENT-CLASS-528-342 ..... c 27 N85-21352 * #
US-PATENT-CLASS-528-342 ..... c 25 N85-28982 * #
US-PATENT-CLASS-528-342 ..... c 27 N86-19457 * #
US-PATENT-CLASS-528-345 ..... c 27 N84-22746 * #
US-PATENT-CLASS-528-345 ..... c 27 N85-20123 * #
US-PATENT-CLASS-528-348 ..... c 27 N84-22746 * #
US-PATENT-CLASS-528-351 ..... c 27 N82-11206 * #
US-PATENT-CLASS-528-352 ..... c 27 N85-21348 * #
US-PATENT-CLASS-528-352 ..... c 27 N85-34280 * #
US-PATENT-CLASS-528-352 ..... c 27 N86-19456 * #
US-PATENT-CLASS-528-353 ..... c 27 N81-19296 * #
US-PATENT-CLASS-528-353 ..... c 27 N82-11206 * #
US-PATENT-CLASS-528-353 ..... c 27 N85-21348 * #
US-PATENT-CLASS-528-353 ..... c 27 N85-34280 * #
US-PATENT-CLASS-528-353 ..... c 27 N86-19456 * #
US-PATENT-CLASS-528-361 ..... c 24 N84-11213 * #
US-PATENT-CLASS-528-362 ..... c 25 N81-14016 * #
US-PATENT-CLASS-528-362 ..... c 27 N81-17259 * #
US-PATENT-CLASS-528-362 ..... c 27 N81-17262 * #
US-PATENT-CLASS-528-362 ..... c 27 N82-24338 * #
US-PATENT-CLASS-528-362 ..... c 27 N84-22744 * #
US-PATENT-CLASS-528-362 ..... c 27 N84-27884 * #
US-PATENT-CLASS-528-38 ..... c 27 N83-34040 * #
US-PATENT-CLASS-528-394 ..... c 27 N84-22750 * #
US-PATENT-CLASS-528-399 ..... c 27 N81-27271 * #
US-PATENT-CLASS-528-399 ..... c 27 N82-18389 * #
US-PATENT-CLASS-528-399 ..... c 27 N84-22750 * #
US-PATENT-CLASS-528-401 ..... c 27 N79-22300 * #
US-PATENT-CLASS-528-401 ..... c 25 N81-14016 * #
US-PATENT-CLASS-528-401 ..... c 27 N81-17259 * #
US-PATENT-CLASS-528-401 ..... c 27 N81-17262 * #
US-PATENT-CLASS-528-401 ..... c 27 N82-24338 * #
US-PATENT-CLASS-528-401 ..... c 23 N82-28353 * #
US-PATENT-CLASS-528-401 ..... c 27 N84-22744 * #
US-PATENT-CLASS-528-402 ..... c 25 N82-24312 * #
US-PATENT-CLASS-528-407 ..... c 24 N84-34571 * #
US-PATENT-CLASS-528-407 ..... c 27 N85-34281 * #
US-PATENT-CLASS-528-407 ..... c 27 N85-34282 * #
US-PATENT-CLASS-528-422 ..... c 27 N79-22300 * #
US-PATENT-CLASS-528-422 ..... c 25 N81-14016 * #
US-PATENT-CLASS-528-422 ..... c 27 N81-17259 * #
US-PATENT-CLASS-528-422 ..... c 27 N81-17262 * #
US-PATENT-CLASS-528-422 ..... c 27 N82-24338 * #
US-PATENT-CLASS-528-422 ..... c 23 N82-28353 * #
US-PATENT-CLASS-528-422 ..... c 27 N84-22744 * #
US-PATENT-CLASS-528-423 ..... c 27 N81-17259 * #
US-PATENT-CLASS-528-423 ..... c 27 N84-22744 * #
US-PATENT-CLASS-528-481 ..... c 27 N80-24438 * #
US-PATENT-CLASS-528-4 ..... c 27 N81-27271 * #
US-PATENT-CLASS-528-4 ..... c 27 N82-18389 * #
US-PATENT-CLASS-528-6 ..... c 27 N81-27271 * #
US-PATENT-CLASS-528-6 ..... c 27 N82-18389 * #
US-PATENT-CLASS-528-6 ..... c 27 N84-22750 * #
US-PATENT-CLASS-528-73 ..... c 25 N80-16116 * #
US-PATENT-CLASS-528-7 ..... c 27 N82-18389 * #
US-PATENT-CLASS-528-7 ..... c 27 N84-22750 * #
US-PATENT-CLASS-528-86 ..... c 23 N85-28973 * #
US-PATENT-CLASS-528-92 ..... c 24 N84-34571 * #
US-PATENT-CLASS-528-92 ..... c 27 N85-34282 * #
US-PATENT-CLASS-528-94 ..... c 27 N85-34281 * #
US-PATENT-CLASS-528345 ..... c 27 N86-19457 * #
US-PATENT-CLASS-53-102 ..... c 15 N71-21528 *
US-PATENT-CLASS-53-112A ..... c 15 N73-27405 * #
US-PATENT-CLASS-53-22A ..... c 15 N73-27405 * #
US-PATENT-CLASS-53-22 ..... c 15 N71-23256 *
US-PATENT-CLASS-53-429 ..... c 09 N82-29330 * #
US-PATENT-CLASS-53-9 ..... c 37 N77-23482 * #
US-PATENT-CLASS-536-105 ..... c 27 N77-30236 * #
US-PATENT-CLASS-536-536-85 . c 27 N77-30236 * #
US-PATENT-CLASS-536-56 ..... c 27 N77-30236 * #
US-PATENT-CLASS-536-58 ..... c 27 N77-30236 * #
US-PATENT-CLASS-536-84 ..... c 27 N77-30236 * #
US-PATENT-CLASS-538-117 ..... c 27 N81-17260 * #
US-PATENT-CLASS-544-193 ..... c 27 N78-15276 * #
US-PATENT-CLASS-544-193 ..... c 27 N79-28307 * #
US-PATENT-CLASS-544-195 ..... c 27 N78-32256 * #
US-PATENT-CLASS-544-215 ..... c 27 N84-22744 * #
US-PATENT-CLASS-547-131 ..... c 23 N82-28353 * #
US-PATENT-CLASS-548-413 ..... c 27 N83-31854 * #

US-PATENT-CLASS-548-413 ..... c 23 N86-19376 * #
US-PATENT-CLASS-548-415 ..... c 27 N83-31854 * #
US-PATENT-CLASS-548-415 ..... c 27 N84-22745 * #
US-PATENT-CLASS-549-335 ..... c 23 N85-33187 * #
US-PATENT-CLASS-55-DIG.25 .... c 35 N84-17555 * #
US-PATENT-CLASS-55-DIG.30 .... c 35 N84-17555 * #
US-PATENT-CLASS-55-DIG.35 .... c 54 N75-27761 * #
US-PATENT-CLASS-55-DIG.42 .... c 37 N85-29283 * #
US-PATENT-CLASS-55-100 ..... c 35 N78-12390 * #
US-PATENT-CLASS-55-100 ..... c 25 N78-25148 * #
US-PATENT-CLASS-55-101 ..... c 25 N78-25148 * #
US-PATENT-CLASS-55-105 ..... c 35 N84-17555 * #
US-PATENT-CLASS-55-118 ..... c 35 N79-17192 * #
US-PATENT-CLASS-55-122 ..... c 35 N79-17192 * #
US-PATENT-CLASS-55-126 ..... c 35 N84-17555 * #
US-PATENT-CLASS-55-127 ..... c 35 N79-17192 * #
US-PATENT-CLASS-55-12 ..... c 35 N84-17555 * #
US-PATENT-CLASS-55-131 ..... c 35 N84-17555 * #
US-PATENT-CLASS-55-138 ..... c 35 N84-17555 * #
US-PATENT-CLASS-55-139 ..... c 35 N84-17555 * #
US-PATENT-CLASS-55-145 ..... c 35 N84-17555 * #
US-PATENT-CLASS-55-15-8 ..... c 52 N79-14749 * #
US-PATENT-CLASS-55-155 ..... c 35 N79-17192 * #
US-PATENT-CLASS-55-158 ..... c 18 N71-20742 *
US-PATENT-CLASS-55-158 ..... c 44 N77-22607 * #
US-PATENT-CLASS-55-158 ..... c 25 N82-21269 * #
US-PATENT-CLASS-55-159 ..... c 34 N74-30608 * #
US-PATENT-CLASS-55-159 ..... c 37 N79-21345 * #
US-PATENT-CLASS-55-15 ..... c 71 N83-35781 * #
US-PATENT-CLASS-55-15 ..... c 71 N85-22104 * #
US-PATENT-CLASS-55-160 ..... c 15 N71-15968 *
US-PATENT-CLASS-55-16 ..... c 06 N72-31140 * #
US-PATENT-CLASS-55-179 ..... c 14 N71-17588 *
US-PATENT-CLASS-55-179 ..... c 54 N77-32722 * #
US-PATENT-CLASS-55-194 ..... c 35 N83-29652 * #
US-PATENT-CLASS-55-197 ..... c 23 N77-17161 * #
US-PATENT-CLASS-55-199 ..... c 34 N74-30608 * #
US-PATENT-CLASS-55-202 ..... c 35 N83-29652 * #
US-PATENT-CLASS-55-204 ..... c 15 N71-23023 *
US-PATENT-CLASS-55-204 ..... c 44 N83-10501 * #
US-PATENT-CLASS-55-208 ..... c 14 N71-18483 *
US-PATENT-CLASS-55-241 ..... c 35 N79-17192 * #
US-PATENT-CLASS-55-242 ..... c 35 N79-17192 * #
US-PATENT-CLASS-55-26-9 ..... c 35 N78-12390 * #
US-PATENT-CLASS-55-261 ..... c 35 N76-18401 * #
US-PATENT-CLASS-55-269 ..... c 54 N77-32722 * #
US-PATENT-CLASS-55-270 ..... c 35 N84-17555 * #
US-PATENT-CLASS-55-277 ..... c 71 N83-35781 * #
US-PATENT-CLASS-55-277 ..... c 71 N85-22104 * #
US-PATENT-CLASS-55-283 ..... c 35 N84-17555 * #
US-PATENT-CLASS-55-291 ..... c 35 N84-17555 * #
US-PATENT-CLASS-55-2 ..... c 25 N78-25148 * #
US-PATENT-CLASS-55-2 ..... c 28 N81-14103 * #
US-PATENT-CLASS-55-2 ..... c 35 N84-17555 * #
US-PATENT-CLASS-55-306 ..... c 28 N70-34788 * #
US-PATENT-CLASS-55-35 ..... c 05 N70-41297 * #
US-PATENT-CLASS-55-360 ..... c 35 N79-17192 * #
US-PATENT-CLASS-55-386 ..... c 35 N75-26334 * #
US-PATENT-CLASS-55-38 ..... c 71 N83-35781 * #
US-PATENT-CLASS-55-3 ..... c 35 N78-12390 * #
US-PATENT-CLASS-55-400 ..... c 11 N71-10777 * #
US-PATENT-CLASS-55-407 ..... c 35 N79-17192 * #
US-PATENT-CLASS-55-408 ..... c 15 N70-40062 * #
US-PATENT-CLASS-55-418 ..... c 15 N71-22721 *
US-PATENT-CLASS-55-43 ..... c 34 N74-30608 * #
US-PATENT-CLASS-55-446 ..... c 15 N72-22489 * #
US-PATENT-CLASS-55-464 ..... c 15 N72-22489 * #
US-PATENT-CLASS-55-466 ..... c 35 N84-17555 * #
US-PATENT-CLASS-55-493 ..... c 14 N72-23457 * #
US-PATENT-CLASS-55-498 ..... c 14 N72-23457 * #
US-PATENT-CLASS-55-502 ..... c 14 N72-23457 * #
US-PATENT-CLASS-55-510 ..... c 25 N74-12813 * #
US-PATENT-CLASS-55-518 ..... c 25 N74-12813 * #
US-PATENT-CLASS-55-521 ..... c 14 N72-23457 * #
US-PATENT-CLASS-55-523 ..... c 34 N76-27515 * #
US-PATENT-CLASS-55-526 ..... c 34 N76-27515 * #
US-PATENT-CLASS-55-52 ..... c 71 N83-35781 * #
US-PATENT-CLASS-55-55 ..... c 06 N72-31140 * #
US-PATENT-CLASS-55-66 ..... c 25 N80-23383 * #
US-PATENT-CLASS-55-67 ..... c 23 N77-17161 * #
US-PATENT-CLASS-55-67 ..... c 25 N80-23383 * #
US-PATENT-CLASS-55-68 ..... c 25 N80-23383 * #
US-PATENT-CLASS-55-6 ..... c 35 N84-17555 * #
US-PATENT-CLASS-55-72 ..... c 25 N80-23383 * #
US-PATENT-CLASS-55-73 ..... c 45 N79-12584 * #
US-PATENT-CLASS-55-74 ..... c 23 N77-17161 * #
US-PATENT-CLASS-55-75 ..... c 15 N71-26185 *
US-PATENT-CLASS-55-96 ..... c 35 N84-17555 * #
US-PATENT-CLASS-556-410 ..... c 25 N85-21280 * #
US-PATENT-CLASS-556-436 ..... c 27 N86-21675 * #
US-PATENT-CLASS-564-113 ..... c 23 N86-19376 * #
US-PATENT-CLASS-564-229 ..... c 27 N81-24256 * #
US-PATENT-CLASS-564-229 ..... c 23 N82-28353 * #
US-PATENT-CLASS-564-243 ..... c 27 N84-22744 * #
US-PATENT-CLASS-564-243 ..... c 23 N86-21582 * #
US-PATENT-CLASS-568-2 ..... c 27 N82-18389 * #
US-PATENT-CLASS-568-445 ..... c 23 N82-16174 * #
US-PATENT-CLASS-568-497 ..... c 23 N82-16174 * #
US-PATENT-CLASS-568-4 ..... c 27 N82-18389 * #
US-PATENT-CLASS-568-4 ..... c 27 N84-22750 * #
US-PATENT-CLASS-568-5 ..... c 27 N82-18389 * #
US-PATENT-CLASS-568-5 ..... c 27 N84-22750 * #
US-PATENT-CLASS-568-852 ..... c 27 N80-32514 * #
US-PATENT-CLASS-568-861 ..... c 27 N80-32514 * #
US-PATENT-CLASS-57-906 ..... c 37 N82-18601 * #
US-PATENT-CLASS-570-123 ..... c 25 N82-24312 * #
US-PATENT-CLASS-570-129 ..... c 25 N82-24312 * #
US-PATENT-CLASS-58-24 ..... c 10 N71-26326 *
US-PATENT-CLASS-585-24 ..... c 27 N86-21675 * #
US-PATENT-CLASS-60.39.08 ..... c 37 N79-11403 * #
US-PATENT-CLASS-60-108 ..... c 33 N71-16104 *
US-PATENT-CLASS-60-1 ..... c 15 N72-33477 * #
US-PATENT-CLASS-60-1 ..... c 15 N73-13467 * #
US-PATENT-CLASS-60-200A ..... c 33 N72-25911 * #
US-PATENT-CLASS-60-200A ..... c 33 N73-25952 * #
US-PATENT-CLASS-60-200A ..... c 27 N78-17206 * #
US-PATENT-CLASS-60-200R ..... c 20 N82-18314 * #
US-PATENT-CLASS-60-200 ..... c 28 N71-14044 * #
US-PATENT-CLASS-60-202 ..... c 28 N70-41922 * #
US-PATENT-CLASS-60-202 ..... c 28 N71-10574 * #
US-PATENT-CLASS-60-202 ..... c 25 N71-21694 *
US-PATENT-CLASS-60-202 ..... c 28 N71-21822 *
US-PATENT-CLASS-60-202 ..... c 28 N71-23081 *
US-PATENT-CLASS-60-202 ..... c 28 N71-23293 *
US-PATENT-CLASS-60-202 ..... c 28 N71-25213 *
US-PATENT-CLASS-60-202 ..... c 28 N71-26173 *
US-PATENT-CLASS-60-202 ..... c 28 N71-26642 *
US-PATENT-CLASS-60-202 ..... c 28 N71-26781 *
US-PATENT-CLASS-60-202 ..... c 28 N72-11709 *
US-PATENT-CLASS-60-202 ..... c 28 N72-22770 * #
US-PATENT-CLASS-60-202 ..... c 28 N72-22771 * #
US-PATENT-CLASS-60-202 ..... c 28 N73-24783 * #
US-PATENT-CLASS-60-202 ..... c 25 N73-25760 * #
US-PATENT-CLASS-60-202 ..... c 28 N73-27699 * #
US-PATENT-CLASS-60-202 ..... c 20 N77-10148 * #
US-PATENT-CLASS-60-202 ..... c 20 N77-20162 * #
US-PATENT-CLASS-60-202 ..... c 20 N85-21256 * #
US-PATENT-CLASS-60-203 ..... c 20 N80-14188 * #
US-PATENT-CLASS-60-204 ..... c 07 N78-17055 * #
US-PATENT-CLASS-60-204 ..... c 07 N78-18067 * #
US-PATENT-CLASS-60-204 ..... c 44 N81-24519 * #
US-PATENT-CLASS-60-211 ..... c 28 N73-13773 * #
US-PATENT-CLASS-60-214 ..... c 15 N74-27360 * #
US-PATENT-CLASS-60-215 ..... c 06 N73-30097 * #
US-PATENT-CLASS-60-215 ..... c 15 N74-27360 * #
US-PATENT-CLASS-60-217 ..... c 12 N71-17631 *
US-PATENT-CLASS-60-225 ..... c 28 N71-10780 * #
US-PATENT-CLASS-60-226A ..... c 07 N77-17059 * #
US-PATENT-CLASS-60-226A ..... c 07 N79-14096 * #
US-PATENT-CLASS-60-226A ..... c 07 N79-14097 * #
US-PATENT-CLASS-60-226A ..... c 07 N82-26293 * #
US-PATENT-CLASS-60-226R ..... c 07 N78-18066 * #
US-PATENT-CLASS-60-226R ..... c 07 N77-14025 * #
US-PATENT-CLASS-60-226R ..... c 07 N77-28118 * #
US-PATENT-CLASS-60-226R ..... c 07 N78-17055 * #
US-PATENT-CLASS-60-226R ..... c 07 N78-17056 * #
US-PATENT-CLASS-60-226R ..... c 07 N78-25089 * #
US-PATENT-CLASS-60-226R ..... c 07 N79-14096 * #
US-PATENT-CLASS-60-226R ..... c 07 N81-19116 * #
US-PATENT-CLASS-60-228 ..... c 07 N77-17059 * #
US-PATENT-CLASS-60-230 ..... c 07 N78-27121 * #
US-PATENT-CLASS-60-236 ..... c 07 N81-19116 * #
US-PATENT-CLASS-60-238 ..... c 07 N81-19116 * #
US-PATENT-CLASS-60-239 ..... c 07 N81-19116 * #
US-PATENT-CLASS-60-23 ..... c 09 N71-26182 *
US-PATENT-CLASS-60-23 ..... c 15 N72-12409 *
US-PATENT-CLASS-60-23 ..... c 21 N72-31637 * #
US-PATENT-CLASS-60-23 ..... c 15 N73-13467 * #
US-PATENT-CLASS-60-240 ..... c 28 N71-24736 *
US-PATENT-CLASS-60-240 ..... c 28 N73-13773 * #
US-PATENT-CLASS-60-240 ..... c 07 N80-18039 * #
US-PATENT-CLASS-60-243 ..... c 33 N71-21507 *
US-PATENT-CLASS-60-243 ..... c 15 N71-27432 *
US-PATENT-CLASS-60-243 ..... c 28 N73-13773 * #
US-PATENT-CLASS-60-243 ..... c 20 N79-21124 * #
US-PATENT-CLASS-60-251 ..... c 28 N70-41311 * #
US-PATENT-CLASS-60-251 ..... c 27 N71-21819 *
US-PATENT-CLASS-60-254 ..... c 28 N72-20758 * #
US-PATENT-CLASS-60-254 ..... c 28 N73-24784 * #
US-PATENT-CLASS-60-256 ..... c 28 N73-24784 * #
US-PATENT-CLASS-60-257 ..... c 31 N70-41948 * #
US-PATENT-CLASS-60-258 ..... c 15 N70-22192 * #
US-PATENT-CLASS-60-258 ..... c 28 N71-22983 *
US-PATENT-CLASS-60-258 ..... c 28 N71-28849 *
US-PATENT-CLASS-60-258 ..... c 28 N72-17843 * #
US-PATENT-CLASS-60-258 ..... c 15 N72-25455 * #
US-PATENT-CLASS-60-258 ..... c 20 N74-13502 * #
US-PATENT-CLASS-60-259 ..... c 28 N70-41275 * #
US-PATENT-CLASS-60-259 ..... c 20 N74-13502 * #
US-PATENT-CLASS-60-259 ..... c 34 N77-30399 * #
US-PATENT-CLASS-60-259 ..... c 20 N80-14188 * #
US-PATENT-CLASS-60-259 ..... c 05 N81-26114 * #
US-PATENT-CLASS-60-25 ..... c 15 N73-24513 * #
US-PATENT-CLASS-60-25 ..... c 37 N74-21060 * #
US-PATENT-CLASS-60-260 ..... c 28 N70-41992 * #
US-PATENT-CLASS-60-260 ..... c 28 N72-18766 * #
US-PATENT-CLASS-60-261 ..... c 37 N78-17384 * #
US-PATENT-CLASS-60-262 ..... c 37 N78-17384 * #
US-PATENT-CLASS-60-262 ..... c 07 N78-18067 * #
US-PATENT-CLASS-60-262 ..... c 07 N83-33884 * #
US-PATENT-CLASS-60-263 ..... c 28 N71-24321 *
US-PATENT-CLASS-60-263 ..... c 07 N77-28118 * #
US-PATENT-CLASS-60-264 ..... c 07 N80-32392 * #
US-PATENT-CLASS-60-265 ..... c 28 N71-20942 *
US-PATENT-CLASS-60-265 ..... c 33 N72-25911 * #
US-PATENT-CLASS-60-265 ..... c 33 N73-25952 * #
US-PATENT-CLASS-60-265 ..... c 20 N76-14191 * #
US-PATENT-CLASS-60-266 ..... c 33 N71-28852 *
US-PATENT-CLASS-60-266 ..... c 28 N72-23810 * #
US-PATENT-CLASS-60-267 ..... c 33 N71-29053 *
US-PATENT-CLASS-60-267 ..... c 33 N72-25911 * #
US-PATENT-CLASS-60-267 ..... c 33 N73-25952 * #
US-PATENT-CLASS-60-267 ..... c 28 N73-32606 * #
US-PATENT-CLASS-60-267 ..... c 20 N76-14191 * #
US-PATENT-CLASS-60-267 ..... c 34 N79-13288 * #
US-PATENT-CLASS-60-267 ..... c 34 N79-13289 * #
US-PATENT-CLASS-60-267 ..... c 34 N80-24573 * #
US-PATENT-CLASS-60-267 ..... c 44 N81-24519 * #
US-PATENT-CLASS-60-267 ..... c 05 N81-26114 * #
US-PATENT-CLASS-60-269 ..... c 07 N83-33884 * #
US-PATENT-CLASS-60-26 ..... c 21 N72-31637 * #
US-PATENT-CLASS-60-26 ..... c 03 N73-20040 * #
US-PATENT-CLASS-60-271 ..... c 28 N72-11708 *
US-PATENT-CLASS-60-271 ..... c 28 N72-23810 * #
US-PATENT-CLASS-60-271 ..... c 07 N78-17055 * #
US-PATENT-CLASS-60-271 ..... c 37 N78-17384 * #
US-PATENT-CLASS-60-271 ..... c 07 N83-33884 * #
US-PATENT-CLASS-60-275 ..... c 35 N84-17555 * #
US-PATENT-CLASS-60-291 ..... c 31 N73-13898 * #
US-PATENT-CLASS-60-300 ..... c 28 N80-10374 * #
US-PATENT-CLASS-60-303 ..... c 35 N84-17555 * #
US-PATENT-CLASS-60-303 ..... c 37 N84-33808 * #
US-PATENT-CLASS-60-311 ..... c 35 N84-17555 * #
US-PATENT-CLASS-60-316 ..... c 34 N76-18364 * #
US-PATENT-CLASS-60-35.3 ..... c 28 N70-33265 *
US-PATENT-CLASS-60-35.3 ..... c 28 N70-40367 * #
US-PATENT-CLASS-60-35.54 ..... c 28 N70-34294 * #
US-PATENT-CLASS-60-35.54 ..... c 28 N70-38645 * #
US-PATENT-CLASS-60-35.54 ..... c 28 N71-29153 *
US-PATENT-CLASS-60-35.55 ..... c 28 N70-34162 * #
US-PATENT-CLASS-60-35.55 ..... c 28 N70-38711 * #
US-PATENT-CLASS-60-35.55 ..... c 21 N71-15582 *
US-PATENT-CLASS-60-35.55 ..... c 15 N71-28951 *
US-PATENT-CLASS-60-35.5 ..... c 28 N70-33356 *
US-PATENT-CLASS-60-35.5 ..... c 28 N70-34175 * #
US-PATENT-CLASS-60-35.5 ..... c 28 N70-36802 * #
US-PATENT-CLASS-60-35.5 ..... c 21 N70-36938 * #
US-PATENT-CLASS-60-35.5 ..... c 25 N70-36946 * #
US-PATENT-CLASS-60-35.5 ..... c 28 N70-37245 * #
US-PATENT-CLASS-60-35.5 ..... c 28 N70-37980 * #
US-PATENT-CLASS-60-35.5 ..... c 28 N71-14043 * #
US-PATENT-CLASS-60-35.5 ..... c 28 N71-15661 *
US-PATENT-CLASS-60-35.60 ..... c 28 N71-15659 *
US-PATENT-CLASS-60-35.6 ..... c 28 N70-33284 *
US-PATENT-CLASS-60-35.6 ..... c 28 N70-33331 *
US-PATENT-CLASS-60-35.6 ..... c 28 N70-33374 *
US-PATENT-CLASS-60-35.6 ..... c 28 N70-33375 *
US-PATENT-CLASS-60-35.6 ..... c 28 N70-34860 * #
US-PATENT-CLASS-60-35.6 ..... c 28 N70-35381 * #
US-PATENT-CLASS-60-35.6 ..... c 27 N70-35534 * #
US-PATENT-CLASS-60-35.6 ..... c 15 N70-36535 * #
US-PATENT-CLASS-60-35.6 ..... c 28 N70-36806 * #
US-PATENT-CLASS-60-35.6 ..... c 28 N70-36910 * #
US-PATENT-CLASS-60-35.6 ..... c 28 N70-38249 * #
US-PATENT-CLASS-60-35.6 ..... c 28 N70-38504 * #
US-PATENT-CLASS-60-35.6 ..... c 28 N70-38505 * #
US-PATENT-CLASS-60-35.6 ..... c 28 N70-38710 * #
US-PATENT-CLASS-60-35.6 ..... c 28 N70-39899 * #
US-PATENT-CLASS-60-35.6 ..... c 33 N71-15623 *
US-PATENT-CLASS-60-35.6 ..... c 27 N71-15634 *
US-PATENT-CLASS-60-35.6 ..... c 31 N71-15637 *
US-PATENT-CLASS-60-35.6 ..... c 31 N71-15647 * #
US-PATENT-CLASS-60-35.6 ..... c 28 N71-15660 *
US-PATENT-CLASS-60-35.6 ..... c 14 N71-27186 *
US-PATENT-CLASS-60-36 ..... c 15 N72-33477 * #
US-PATENT-CLASS-60-37 ..... c 15 N73-13467 * #
US-PATENT-CLASS-60-39.02 ..... c 07 N86-20389 * #
US-PATENT-CLASS-60-39.03 ..... c 07 N77-23106 * #
US-PATENT-CLASS-60-39.03 ..... c 07 N80-18039 * #
US-PATENT-CLASS-60-39.06 ..... c 07 N80-26298 * #
US-PATENT-CLASS-60-39.06 ..... c 07 N81-29129 * #
US-PATENT-CLASS-60-39.07 ..... c 44 N78-32539 * #
US-PATENT-CLASS-60-39.07 ..... c 07 N82-32366 * #
US-PATENT-CLASS-60-39.07 ..... c 07 N83-36029 * #
US-PATENT-CLASS-60-39.14 ..... c 44 N78-32539 * #
US-PATENT-CLASS-60-39.14 ..... c 07 N79-10057 * #
US-PATENT-CLASS-60-39.23 ..... c 20 N76-14190 * #
US-PATENT-CLASS-60-39.23 ..... c 07 N85-35195 * #

US-PATENT-CLASS-60-39.24 ..... c 07 N81-19115 * #
US-PATENT-CLASS-60-39.27 ..... c 07 N80-18039 * #
US-PATENT-CLASS-60-39.28R ... c 28 N73-19793 * #
US-PATENT-CLASS-60-39.28R ... c 07 N77-23106 * #
US-PATENT-CLASS-60-39.28R ... c 37 N78-10467 * #
US-PATENT-CLASS-60-39.28R ... c 37 N78-24545 * #
US-PATENT-CLASS-60-39.28R ... c 37 N79-11403 * #
US-PATENT-CLASS-60-39.29 ..... c 20 N76-14190 * #
US-PATENT-CLASS-60-39.29 ..... c 35 N76-14431 * #
US-PATENT-CLASS-60-39.29 ..... c 07 N82-32366 * #
US-PATENT-CLASS-60-39.29 ..... c 07 N84-33410 * #
US-PATENT-CLASS-60-39.31 ..... c 07 N78-18066 * #
US-PATENT-CLASS-60-39.31 ..... c 07 N79-14096 * #
US-PATENT-CLASS-60-39.33 ..... c 44 N78-32539 * #
US-PATENT-CLASS-60-39.36 ..... c 28 N71-20330 *
US-PATENT-CLASS-60-39.36 ..... c 28 N71-28915 *
US-PATENT-CLASS-60-39.46M .... c 20 N82-18314 * #
US-PATENT-CLASS-60-39.46 ..... c 27 N71-15635 *
US-PATENT-CLASS-60-39.46 ..... c 15 N74-27360 * #
US-PATENT-CLASS-60-39.47 ..... c 27 N71-16392 *
US-PATENT-CLASS-60-39.48 ..... c 28 N70-38199 * #
US-PATENT-CLASS-60-39.48 ..... c 28 N70-39931 * #
US-PATENT-CLASS-60-39.48 ..... c 27 N71-28929 *
US-PATENT-CLASS-60-39.51R ... c 25 N78-10224 * #
US-PATENT-CLASS-60-39.52 ..... c 07 N78-25089 * #
US-PATENT-CLASS-60-39.65 ..... c 28 N71-28915 *
US-PATENT-CLASS-60-39.65 ..... c 23 N73-30665 * #
US-PATENT-CLASS-60-39.65 ..... c 34 N78-27357 * #
US-PATENT-CLASS-60-39.66 ..... c 15 N70-36411 * #
US-PATENT-CLASS-60-39.66 ..... c 23 N73-30665 * #
US-PATENT-CLASS-60-39.66 ..... c 07 N77-23106 * #
US-PATENT-CLASS-60-39.66 ..... c 37 N78-10467 * #
US-PATENT-CLASS-60-39.66 ..... c 37 N79-11403 * #
US-PATENT-CLASS-60-39.69R ... c 34 N78-27357 * #
US-PATENT-CLASS-60-39.72 ..... c 23 N73-30665 * #
US-PATENT-CLASS-60-39.74A ... c 15 N72-25455 * #
US-PATENT-CLASS-60-39.74R ... c 23 N73-30665 * #
US-PATENT-CLASS-60-39.74R ... c 20 N76-14190 * #
US-PATENT-CLASS-60-39.74 ..... c 28 N70-33241 *
US-PATENT-CLASS-60-39.74 ..... c 28 N72-17843 * #
US-PATENT-CLASS-60-39.74 ..... c 20 N79-21125 * #
US-PATENT-CLASS-60-39.82E .... c 20 N78-24275 * #
US-PATENT-CLASS-60-39.83 ..... c 07 N84-33410 * #
US-PATENT-CLASS-60-39-48 ..... c 28 N72-11709 *
US-PATENT-CLASS-60-508 ..... c 44 N79-18443 * #
US-PATENT-CLASS-60-516 ..... c 20 N75-24837 * #
US-PATENT-CLASS-60-516 ..... c 44 N82-24640 * #
US-PATENT-CLASS-60-517 ..... c 44 N76-29701 * #
US-PATENT-CLASS-60-517 ..... c 37 N81-25370 * #
US-PATENT-CLASS-60-518 ..... c 37 N81-14318 * #
US-PATENT-CLASS-60-518 ..... c 37 N81-17432 * #
US-PATENT-CLASS-60-51 ..... c 15 N71-27754 *
US-PATENT-CLASS-60-520 ..... c 37 N80-31790 * #
US-PATENT-CLASS-60-524 ..... c 44 N81-17518 * #
US-PATENT-CLASS-60-525 ..... c 37 N81-25370 * #
US-PATENT-CLASS-60-527 ..... c 44 N74-33379 * #
US-PATENT-CLASS-60-527 ..... c 37 N77-12402 * #
US-PATENT-CLASS-60-527 ..... c 37 N77-19458 * #
US-PATENT-CLASS-60-527 ..... c 37 N78-31426 * #
US-PATENT-CLASS-60-527 ..... c 37 N86-19604 * #
US-PATENT-CLASS-60-528 ..... c 37 N86-19604 * #
US-PATENT-CLASS-60-530 ..... c 20 N75-24837 * #
US-PATENT-CLASS-60-53 ..... c 37 N77-22479 * #
US-PATENT-CLASS-60-54.5 ..... c 15 N71-10658 * #
US-PATENT-CLASS-60-560 ..... c 35 N78-10428 * #
US-PATENT-CLASS-60-572 ..... c 44 N79-18443 * #
US-PATENT-CLASS-60-574 ..... c 35 N78-10428 * #
US-PATENT-CLASS-60-606 ..... c 28 N80-10374 * #
US-PATENT-CLASS-60-606 ..... c 37 N84-33808 * #
US-PATENT-CLASS-60-632 ..... c 20 N80-18097 * #
US-PATENT-CLASS-60-641.12 .... c 44 N84-23018 * #
US-PATENT-CLASS-60-641.14 .... c 44 N82-24640 * #
US-PATENT-CLASS-60-641 ..... c 44 N75-32581 * #
US-PATENT-CLASS-60-641 ..... c 44 N77-32582 * #
US-PATENT-CLASS-60-641 ..... c 44 N78-17460 * #
US-PATENT-CLASS-60-641 ..... c 44 N78-32542 * #
US-PATENT-CLASS-60-641 ..... c 44 N79-18443 * #
US-PATENT-CLASS-60-641 ..... c 44 N81-17518 * #
US-PATENT-CLASS-60-645 ..... c 34 N79-20335 * #
US-PATENT-CLASS-60-649 ..... c 34 N79-20335 * #
US-PATENT-CLASS-60-659 ..... c 44 N75-32581 * #
US-PATENT-CLASS-60-659 ..... c 44 N76-31667 * #
US-PATENT-CLASS-60-671 ..... c 44 N78-32542 * #
US-PATENT-CLASS-60-698 ..... c 44 N84-23018 * #
US-PATENT-CLASS-60-716 ..... c 44 N84-23018 * #
US-PATENT-CLASS-60-721 ..... c 71 N79-20827 * #
US-PATENT-CLASS-60-721 ..... c 71 N83-32515 * #
US-PATENT-CLASS-60-721 ..... c 71 N83-32516 * #
US-PATENT-CLASS-60-721 ..... c 71 N84-23233 * #
US-PATENT-CLASS-60-726 ..... c 07 N81-29129 * #
US-PATENT-CLASS-60-726 ..... c 07 N82-32366 * #
US-PATENT-CLASS-60-730 ..... c 05 N81-26114 * #
US-PATENT-CLASS-60-730 ..... c 37 N84-22958 * #
US-PATENT-CLASS-60-733 ..... c 07 N80-26298 * #
US-PATENT-CLASS-60-736 ..... c 37 N84-22958 * #
US-PATENT-CLASS-60-736 ..... c 07 N86-20389 * #
US-PATENT-CLASS-60-737 ..... c 07 N81-29129 * #
US-PATENT-CLASS-60-746 ..... c 07 N80-26298 * #
US-PATENT-CLASS-60-748 ..... c 07 N85-35195 * #
US-PATENT-CLASS-60-757 ..... c 07 N84-24577 * #
US-PATENT-CLASS-60-836 ..... c 24 N78-14096 * #
US-PATENT-CLASS-60-97 ..... c 03 N71-12260 * #
US-PATENT-CLASS-604-114 ..... c 52 N83-27577 * #
US-PATENT-CLASS-604-151 ..... c 52 N83-27577 * #
US-PATENT-CLASS-604-280 ..... c 52 N83-21785 * #
US-PATENT-CLASS-604-368 ..... c 54 N84-11758 * #
US-PATENT-CLASS-604-378 ..... c 54 N84-11758 * #
US-PATENT-CLASS-604-396 ..... c 54 N84-11758 * #
US-PATENT-CLASS-604-8 ..... c 52 N83-21785 * #
US-PATENT-CLASS-61-83 ..... c 18 N74-22136 * #
US-PATENT-CLASS-62-DIG.1 ..... c 34 N84-22903 * #
US-PATENT-CLASS-62-DIG.5 ..... c 05 N81-26114 * #
US-PATENT-CLASS-62-100 ..... c 34 N77-19353 * #
US-PATENT-CLASS-62-100 ..... c 28 N78-24365 * #
US-PATENT-CLASS-62-121 ..... c 34 N77-19353 * #
US-PATENT-CLASS-62-128 ..... c 35 N84-28018 * #
US-PATENT-CLASS-62-129 ..... c 31 N76-14284 * #
US-PATENT-CLASS-62-12 ..... c 28 N81-14103 * #
US-PATENT-CLASS-62-148 ..... c 44 N82-26776 * #
US-PATENT-CLASS-62-15 ..... c 06 N70-34946 * #
US-PATENT-CLASS-62-176 ..... c 05 N73-26071 * #
US-PATENT-CLASS-62-18 ..... c 28 N81-14103 * #
US-PATENT-CLASS-62-207 ..... c 05 N73-26071 * #
US-PATENT-CLASS-62-209 ..... c 05 N73-26071 * #
US-PATENT-CLASS-62-217 ..... c 31 N77-10229 * #
US-PATENT-CLASS-62-235.1 ..... c 44 N82-26776 * #
US-PATENT-CLASS-62-238.3 ..... c 44 N82-26776 * #
US-PATENT-CLASS-62-239 ..... c 44 N82-26776 * #
US-PATENT-CLASS-62-244 ..... c 44 N82-26776 * #
US-PATENT-CLASS-62-259 ..... c 05 N73-20137 * #
US-PATENT-CLASS-62-259 ..... c 05 N73-26071 * #
US-PATENT-CLASS-62-259 ..... c 54 N78-32721 * #
US-PATENT-CLASS-62-264 ..... c 34 N84-22903 * #
US-PATENT-CLASS-62-268 ..... c 14 N71-20427 *
US-PATENT-CLASS-62-268 ..... c 34 N79-20336 * #
US-PATENT-CLASS-62-269 ..... c 34 N77-19353 * #
US-PATENT-CLASS-62-285 ..... c 77 N75-20139 * #
US-PATENT-CLASS-62-288 ..... c 77 N75-20139 * #
US-PATENT-CLASS-62-289 ..... c 77 N75-20139 * #
US-PATENT-CLASS-62-290 ..... c 77 N75-20139 * #
US-PATENT-CLASS-62-295 ..... c 35 N83-32026 * #
US-PATENT-CLASS-62-2 ..... c 15 N71-15906 *
US-PATENT-CLASS-62-315 ..... c 34 N77-19353 * #
US-PATENT-CLASS-62-317 ..... c 77 N75-20139 * #
US-PATENT-CLASS-62-376 ..... c 31 N78-17237 * #
US-PATENT-CLASS-62-376 ..... c 34 N79-20336 * #
US-PATENT-CLASS-62-383 ..... c 33 N82-24419 * #
US-PATENT-CLASS-62-384 ..... c 23 N71-24725 *
US-PATENT-CLASS-62-3 ..... c 20 N75-24837 * #
US-PATENT-CLASS-62-3 ..... c 34 N78-17335 * #
US-PATENT-CLASS-62-3 ..... c 34 N83-29625 * #
US-PATENT-CLASS-62-3 ..... c 31 N85-29082 * #
US-PATENT-CLASS-62-40 ..... c 15 N71-24044 *
US-PATENT-CLASS-62-40 ..... c 28 N81-14103 * #
US-PATENT-CLASS-62-45 ..... c 15 N70-33323 *
US-PATENT-CLASS-62-45 ..... c 31 N70-41871 * #
US-PATENT-CLASS-62-45 ..... c 33 N71-25351 *
US-PATENT-CLASS-62-45 ..... c 33 N71-28892 *
US-PATENT-CLASS-62-45 ..... c 15 N73-12486 * #
US-PATENT-CLASS-62-45 ..... c 35 N74-15093 * #
US-PATENT-CLASS-62-467R ..... c 34 N84-22903 * #
US-PATENT-CLASS-62-467 ..... c 33 N70-37979 * #
US-PATENT-CLASS-62-467 ..... c 33 N71-17897 *
US-PATENT-CLASS-62-467 ..... c 05 N72-11084 *
US-PATENT-CLASS-62-467 ..... c 33 N72-25911 * #
US-PATENT-CLASS-62-467 ..... c 33 N73-25952 * #
US-PATENT-CLASS-62-467 ..... c 20 N75-24837 * #
US-PATENT-CLASS-62-475 ..... c 23 N72-25619 * #
US-PATENT-CLASS-62-476 ..... c 44 N82-26776 * #
US-PATENT-CLASS-62-47 ..... c 28 N81-14103 * #
US-PATENT-CLASS-62-48 ..... c 28 N78-24365 * #
US-PATENT-CLASS-62-48 ..... c 31 N83-31897 * #
US-PATENT-CLASS-62-49 ..... c 31 N76-14284 * #
US-PATENT-CLASS-62-4 ..... c 44 N77-32581 * #
US-PATENT-CLASS-62-4 ..... c 44 N78-17460 * #
US-PATENT-CLASS-62-50 ..... c 15 N70-34247 * #
US-PATENT-CLASS-62-50 ..... c 35 N78-12390 * #
US-PATENT-CLASS-62-514 R ..... c 35 N83-32026 * #
US-PATENT-CLASS-62-514JT ..... c 31 N77-10229 * #
US-PATENT-CLASS-62-514R ..... c 35 N78-12390 * #
US-PATENT-CLASS-62-514R ..... c 31 N78-17237 * #
US-PATENT-CLASS-62-514R ..... c 31 N78-25256 * #
US-PATENT-CLASS-62-514R ..... c 51 N79-10694 * #
US-PATENT-CLASS-62-514R ..... c 31 N79-17029 * #
US-PATENT-CLASS-62-514R ..... c 34 N79-20336 * #
US-PATENT-CLASS-62-514R ..... c 35 N81-14287 * #
US-PATENT-CLASS-62-514R ..... c 31 N83-31897 * #
US-PATENT-CLASS-62-514R ..... c 34 N83-34221 * #
US-PATENT-CLASS-62-514 ..... c 23 N71-26654 *
US-PATENT-CLASS-62-51 ..... c 15 N72-17453 * #
US-PATENT-CLASS-62-55.5 ..... c 11 N71-24964 *
US-PATENT-CLASS-62-55.5 ..... c 15 N72-22484 * #
US-PATENT-CLASS-62-55 ..... c 15 N70-38020 * #
US-PATENT-CLASS-62-55 ..... c 34 N77-30399 * #
US-PATENT-CLASS-62-56 ..... c 05 N72-11084 *
US-PATENT-CLASS-62-62 ..... c 34 N83-34221 * #
US-PATENT-CLASS-62-6 ..... c 15 N69-23190 * #
US-PATENT-CLASS-62-6 ..... c 23 N71-15467 *
US-PATENT-CLASS-62-6 ..... c 15 N71-23025 *
US-PATENT-CLASS-62-6 ..... c 23 N72-25619 * #
US-PATENT-CLASS-62-6 ..... c 37 N76-29590 * #
US-PATENT-CLASS-62-6 ..... c 44 N76-29701 * #
US-PATENT-CLASS-62-6 ..... c 44 N83-28574 * #
US-PATENT-CLASS-62-6 ..... c 31 N85-21404 * #
US-PATENT-CLASS-62-78 ..... c 51 N79-10694 * #
US-PATENT-CLASS-62-7 ..... c 15 N73-12486 * #
US-PATENT-CLASS-62-80 ..... c 23 N72-25619 * #
US-PATENT-CLASS-62-85 ..... c 23 N72-25619 * #
US-PATENT-CLASS-62-89 ..... c 05 N73-26071 * #
US-PATENT-CLASS-62-93 ..... c 15 N69-21465 * #
US-PATENT-CLASS-62-93 ..... c 03 N72-28025 * #
US-PATENT-CLASS-62-93 ..... c 77 N75-20139 * #
US-PATENT-CLASS-64-18 ..... c 15 N71-28467 *
US-PATENT-CLASS-64-27 ..... c 15 N71-28959 *
US-PATENT-CLASS-64-28 ..... c 15 N69-27505 * #
US-PATENT-CLASS-65-DIG.11 .... c 37 N74-21063 * #
US-PATENT-CLASS-65-DIG.4 ..... c 71 N78-10837 * #
US-PATENT-CLASS-65-DIG.7 ..... c 71 N78-10837 * #
US-PATENT-CLASS-65-102 ..... c 71 N78-10837 * #
US-PATENT-CLASS-65-108 ..... c 35 N77-24455 * #
US-PATENT-CLASS-65-11.1 ..... c 31 N86-21718 * #
US-PATENT-CLASS-65-12 ..... c 31 N86-21718 * #
US-PATENT-CLASS-65-134 ..... c 71 N83-35781 * #
US-PATENT-CLASS-65-142 ..... c 31 N81-33319 * #
US-PATENT-CLASS-65-142 ..... c 27 N82-28442 * #
US-PATENT-CLASS-65-142 ..... c 31 N83-31896 * #
US-PATENT-CLASS-65-142 ..... c 31 N83-35176 * #
US-PATENT-CLASS-65-142 ..... c 71 N84-28568 * #
US-PATENT-CLASS-65-160 ..... c 71 N84-28568 * #
US-PATENT-CLASS-65-1 ..... c 31 N86-21718 * #
US-PATENT-CLASS-65-21.3 ..... c 31 N83-35176 * #
US-PATENT-CLASS-65-21.3 ..... c 71 N84-28568 * #
US-PATENT-CLASS-65-21.4 ..... c 31 N81-33319 * #
US-PATENT-CLASS-65-21.4 ..... c 27 N82-28442 * #
US-PATENT-CLASS-65-21.4 ..... c 31 N83-35176 * #
US-PATENT-CLASS-65-21.4 ..... c 71 N84-28568 * #
US-PATENT-CLASS-65-213 ..... c 71 N84-16940 * #
US-PATENT-CLASS-65-214 ..... c 31 N83-31896 * #
US-PATENT-CLASS-65-22 ..... c 31 N81-33319 * #
US-PATENT-CLASS-65-22 ..... c 27 N82-28442 * #
US-PATENT-CLASS-65-22 ..... c 31 N83-31896 * #
US-PATENT-CLASS-65-22 ..... c 31 N83-35176 * #
US-PATENT-CLASS-65-2 ..... c 71 N78-10837 * #
US-PATENT-CLASS-65-2 ..... c 31 N86-21718 * #
US-PATENT-CLASS-65-30R ..... c 27 N78-32260 * #
US-PATENT-CLASS-65-32 ..... c 71 N78-10837 * #
US-PATENT-CLASS-65-3 ..... c 37 N75-26371 * #
US-PATENT-CLASS-65-4B ..... c 71 N78-10837 * #
US-PATENT-CLASS-65-43 ..... c 37 N75-15992 * #
US-PATENT-CLASS-65-43 ..... c 24 N79-25143 * #
US-PATENT-CLASS-65-59A ..... c 35 N77-24455 * #
US-PATENT-CLASS-65-60D ..... c 27 N78-32260 * #
US-PATENT-CLASS-65-61 ..... c 74 N80-24149 * #
US-PATENT-CLASS-65-7 ..... c 18 N71-23088 *
US-PATENT-CLASS-65-87 ..... c 71 N78-10837 * #
US-PATENT-CLASS-6554 ..... c 35 N77-24455 * #
US-PATENT-CLASS-6564 ..... c 35 N77-24455 * #
US-PATENT-CLASS-70-58 ..... c 33 N81-25299 * #
US-PATENT-CLASS-71-98 ..... c 51 N83-17045 * #
US-PATENT-CLASS-72-253 ..... c 15 N71-22797 *
US-PATENT-CLASS-72-258 ..... c 15 N73-13464 * #
US-PATENT-CLASS-72-307 ..... c 15 N72-12408 *
US-PATENT-CLASS-72-324 ..... c 71 N86-21276 * #
US-PATENT-CLASS-72-341 ..... c 71 N86-21276 * #
US-PATENT-CLASS-72-34 ..... c 15 N71-21536 *
US-PATENT-CLASS-72-354 ..... c 15 N71-23811 *
US-PATENT-CLASS-72-363 ..... c 37 N76-14461 * #
US-PATENT-CLASS-72-364 ..... c 15 N71-18579 *
US-PATENT-CLASS-72-369 ..... c 15 N71-24679 *
US-PATENT-CLASS-72-436 ..... c 37 N79-28550 * #
US-PATENT-CLASS-72-447 ..... c 15 N73-13463 * #
US-PATENT-CLASS-72-451 ..... c 37 N79-28550 * #
US-PATENT-CLASS-72-453 ..... c 37 N76-18454 * #
US-PATENT-CLASS-72-467 ..... c 15 N71-23817 *
US-PATENT-CLASS-72-46 ..... c 24 N75-33181 * #
US-PATENT-CLASS-72-470 ..... c 37 N79-28550 * #
US-PATENT-CLASS-72-476 ..... c 15 N73-13463 * #
US-PATENT-CLASS-72-53 ..... c 15 N71-18616 *
US-PATENT-CLASS-72-53 ..... c 15 N73-32360 * #
US-PATENT-CLASS-72-54 ..... c 37 N76-14461 * #
US-PATENT-CLASS-72-56 ..... c 15 N70-34249 * #
US-PATENT-CLASS-72-56 ..... c 15 N71-24833 *
US-PATENT-CLASS-72-56 ..... c 15 N71-24865 *
US-PATENT-CLASS-72-56 ..... c 15 N71-26148 *
US-PATENT-CLASS-72-60 ..... c 15 N71-24836 *
US-PATENT-CLASS-72-61 ..... c 15 N71-26346 *
US-PATENT-CLASS-72-63 ..... c 20 N75-18310 * #
US-PATENT-CLASS-72-63 ..... c 37 N76-14461 * #

US-PATENT-CLASS-72-83 ..... c 15 N71-22723 *
US-PATENT-CLASS-73-DIG.11 .... c 35 N78-18390 * #
US-PATENT-CLASS-73-1-DV ..... c 71 N86-21276 * #
US-PATENT-CLASS-73-1B ..... c 35 N76-24523 * #
US-PATENT-CLASS-73-1B ..... c 35 N84-28019 * #
US-PATENT-CLASS-73-1DV ..... c 14 N73-27379 * #
US-PATENT-CLASS-73-1F ..... c 35 N74-21019 * #
US-PATENT-CLASS-73-1R ..... c 14 N71-29134 *
US-PATENT-CLASS-73-1R ..... c 35 N75-15932 * #
US-PATENT-CLASS-73-1R ..... c 35 N76-15432 * #
US-PATENT-CLASS-73-100 ..... c 15 N70-41993 * #
US-PATENT-CLASS-73-100 ..... c 32 N72-25877 * #
US-PATENT-CLASS-73-103 ..... c 15 N71-17696 *
US-PATENT-CLASS-73-103 ..... c 14 N72-27412 * #
US-PATENT-CLASS-73-103 ..... c 14 N73-32323 * #
US-PATENT-CLASS-73-103 ..... c 35 N76-18400 * #
US-PATENT-CLASS-73-104 ..... c 35 N74-32879 * #
US-PATENT-CLASS-73-105 ..... c 14 N70-34161 * #
US-PATENT-CLASS-73-105 ..... c 14 N71-17586 *
US-PATENT-CLASS-73-115 ..... c 35 N79-14345 * #
US-PATENT-CLASS-73-115 ..... c 07 N84-22559 * #
US-PATENT-CLASS-73-116 ..... c 11 N70-33278 *
US-PATENT-CLASS-73-116 ..... c 11 N70-34844 * #
US-PATENT-CLASS-73-116 ..... c 14 N70-40203 * #
US-PATENT-CLASS-73-116 ..... c 11 N70-41677 * #
US-PATENT-CLASS-73-116 ..... c 11 N71-10604 * #
US-PATENT-CLASS-73-116 ..... c 31 N71-15643 *
US-PATENT-CLASS-73-117.1 ..... c 11 N72-27262 * #
US-PATENT-CLASS-73-117.1 ..... c 09 N84-27749 * #
US-PATENT-CLASS-73-117.4 ..... c 14 N71-20429 *
US-PATENT-CLASS-73-117.4 ..... c 28 N71-27094 *
US-PATENT-CLASS-73-117.4 ..... c 35 N75-29382 * #
US-PATENT-CLASS-73-117 ..... c 14 N71-22965 *
US-PATENT-CLASS-73-12 ..... c 14 N71-23225 *
US-PATENT-CLASS-73-12 ..... c 14 N71-26161 *
US-PATENT-CLASS-73-12 ..... c 14 N72-16282 * #
US-PATENT-CLASS-73-12 ..... c 14 N72-25411 * #
US-PATENT-CLASS-73-12 ..... c 14 N73-32327 * #
US-PATENT-CLASS-73-12 ..... c 35 N74-21062 * #
US-PATENT-CLASS-73-12 ..... c 35 N75-33367 * #
US-PATENT-CLASS-73-12 ..... c 75 N76-14931 * #
US-PATENT-CLASS-73-12 ..... c 35 N77-18417 * #
US-PATENT-CLASS-73-12 ..... c 43 N79-25443 * #
US-PATENT-CLASS-73-12 ..... c 43 N80-14423 * #
US-PATENT-CLASS-73-12 ..... c 43 N80-23711 * #
US-PATENT-CLASS-73-12 ..... c 37 N84-33807 * #
US-PATENT-CLASS-73-133R ..... c 35 N77-14407 * #
US-PATENT-CLASS-73-133 ..... c 14 N71-23725 *
US-PATENT-CLASS-73-133 ..... c 15 N72-22482 * #
US-PATENT-CLASS-73-134 ..... c 14 N70-40201 * #
US-PATENT-CLASS-73-136R ..... c 15 N72-26371 * #
US-PATENT-CLASS-73-136 ..... c 14 N70-34818 * #
US-PATENT-CLASS-73-140 ..... c 11 N72-25288 * #
US-PATENT-CLASS-73-141AB .... c 14 N72-33377 * #
US-PATENT-CLASS-73-141A ..... c 14 N72-21405 * #
US-PATENT-CLASS-73-141A ..... c 14 N72-22437 * #
US-PATENT-CLASS-73-141A ..... c 35 N74-26945 * #
US-PATENT-CLASS-73-141A ..... c 35 N74-27865 * #
US-PATENT-CLASS-73-141A ..... c 35 N75-33369 * #
US-PATENT-CLASS-73-141A ..... c 52 N81-20703 * #
US-PATENT-CLASS-73-141 ..... c 14 N70-41957 * #
US-PATENT-CLASS-73-141 ..... c 15 N71-20441 *
US-PATENT-CLASS-73-141 ..... c 14 N71-23790 *
US-PATENT-CLASS-73-141 ..... c 26 N71-25490 *
US-PATENT-CLASS-73-142 ..... c 15 N70-40180 * #
US-PATENT-CLASS-73-142 ..... c 14 N71-20439 *
US-PATENT-CLASS-73-143 ..... c 35 N75-19615 * #
US-PATENT-CLASS-73-143 ..... c 14 N75-24794 * #
US-PATENT-CLASS-73-144 ..... c 15 N71-22878 *
US-PATENT-CLASS-73-147 ..... c 11 N70-33287 *
US-PATENT-CLASS-73-147 ..... c 14 N70-33386 *
US-PATENT-CLASS-73-147 ..... c 14 N70-34813 * #
US-PATENT-CLASS-73-147 ..... c 11 N70-36913 * #
US-PATENT-CLASS-73-147 ..... c 14 N70-40400 * #
US-PATENT-CLASS-73-147 ..... c 14 N70-41366 * #
US-PATENT-CLASS-73-147 ..... c 11 N71-15926 *
US-PATENT-CLASS-73-147 ..... c 09 N71-16086 *
US-PATENT-CLASS-73-147 ..... c 12 N71-20436 *
US-PATENT-CLASS-73-147 ..... c 09 N71-20816 *
US-PATENT-CLASS-73-147 ..... c 11 N71-21481 *
US-PATENT-CLASS-73-147 ..... c 11 N71-23030 *
US-PATENT-CLASS-73-147 ..... c 15 N71-27006 *
US-PATENT-CLASS-73-147 ..... c 15 N71-28740 *
US-PATENT-CLASS-73-147 ..... c 11 N71-33612 *
US-PATENT-CLASS-73-147 ..... c 11 N72-17183 * #
US-PATENT-CLASS-73-147 ..... c 14 N72-21407 * #
US-PATENT-CLASS-73-147 ..... c 11 N72-22246 * #
US-PATENT-CLASS-73-147 ..... c 11 N73-12264 * #
US-PATENT-CLASS-73-147 ..... c 14 N73-13415 * #
US-PATENT-CLASS-73-147 ..... c 12 N73-25262 * #
US-PATENT-CLASS-73-147 ..... c 12 N73-28144 * #
US-PATENT-CLASS-73-147 ..... c 09 N74-17955 * #
US-PATENT-CLASS-73-147 ..... c 34 N74-27730 * #
US-PATENT-CLASS-73-147 ..... c 09 N75-12969 * #
US-PATENT-CLASS-73-147 ..... c 09 N76-23273 * #
US-PATENT-CLASS-73-147 ..... c 34 N76-27517 * #
US-PATENT-CLASS-73-147 ..... c 09 N77-10071 * #
US-PATENT-CLASS-73-147 ..... c 09 N78-31129 * #
US-PATENT-CLASS-73-147 ..... c 35 N79-14347 * #
US-PATENT-CLASS-73-147 ..... c 09 N79-21083 * #
US-PATENT-CLASS-73-147 ..... c 02 N80-20224 * #
US-PATENT-CLASS-73-147 ..... c 06 N81-17057 * #
US-PATENT-CLASS-73-147 ..... c 09 N82-11088 * #
US-PATENT-CLASS-73-147 ..... c 09 N82-23254 * #
US-PATENT-CLASS-73-147 ..... c 71 N83-17235 * #
US-PATENT-CLASS-73-147 ..... c 44 N83-21503 * #
US-PATENT-CLASS-73-147 ..... c 44 N83-21504 * #
US-PATENT-CLASS-73-147 ..... c 74 N83-21949 * #
US-PATENT-CLASS-73-147 ..... c 35 N84-22934 * #
US-PATENT-CLASS-73-147 ..... c 09 N84-34448 * #
US-PATENT-CLASS-73-147 ..... c 09 N85-21178 * #
US-PATENT-CLASS-73-149 ..... c 14 N72-11363 *
US-PATENT-CLASS-73-149 ..... c 52 N74-10975 * #
US-PATENT-CLASS-73-15.4 ..... c 14 N71-17659 *
US-PATENT-CLASS-73-15.4 ..... c 35 N74-32879 * #
US-PATENT-CLASS-73-15.6 ..... c 14 N70-35368 * #
US-PATENT-CLASS-73-15.6 ..... c 14 N71-24234 *
US-PATENT-CLASS-73-15.6 ..... c 14 N71-26136 *
US-PATENT-CLASS-73-15.6 ..... c 32 N72-25877 * #
US-PATENT-CLASS-73-15.6 ..... c 09 N74-19528 * #
US-PATENT-CLASS-73-15.6 ..... c 35 N76-24523 * #
US-PATENT-CLASS-73-15.6 ..... c 35 N77-22450 * #
US-PATENT-CLASS-73-15.6 ..... c 39 N78-10493 * #
US-PATENT-CLASS-73-15R ..... c 33 N72-25913 * #
US-PATENT-CLASS-73-15R ..... c 14 N73-28486 * #
US-PATENT-CLASS-73-15R ..... c 25 N74-18551 * #
US-PATENT-CLASS-73-15R ..... c 31 N74-27900 * #
US-PATENT-CLASS-73-15R ..... c 09 N77-27131 * #
US-PATENT-CLASS-73-15R ..... c 74 N81-17887 * #
US-PATENT-CLASS-73-150-A ..... c 39 N86-20841 * #
US-PATENT-CLASS-73-150R ..... c 35 N84-28018 * #
US-PATENT-CLASS-73-155 ..... c 46 N80-10709 * #
US-PATENT-CLASS-73-155 ..... c 46 N80-24906 * #
US-PATENT-CLASS-73-159 ..... c 31 N79-11246 * #
US-PATENT-CLASS-73-15 ..... c 14 N70-34156 * #
US-PATENT-CLASS-73-15 ..... c 14 N71-15992 *
US-PATENT-CLASS-73-15 ..... c 14 N71-22964 *
US-PATENT-CLASS-73-15 ..... c 11 N71-24985 *
US-PATENT-CLASS-73-15 ..... c 11 N71-28629 *
US-PATENT-CLASS-73-161 ..... c 11 N72-25288 * #
US-PATENT-CLASS-73-167 ..... c 15 N84-16231 * #
US-PATENT-CLASS-73-170A ..... c 35 N78-27384 * #
US-PATENT-CLASS-73-170A ..... c 48 N80-18667 * #
US-PATENT-CLASS-73-170R ..... c 07 N73-20175 * #
US-PATENT-CLASS-73-170R ..... c 14 N73-28487 * #
US-PATENT-CLASS-73-170R ..... c 14 N73-32327 * #
US-PATENT-CLASS-73-170R ..... c 33 N74-27862 * #
US-PATENT-CLASS-73-170R ..... c 35 N75-33367 * #
US-PATENT-CLASS-73-170R ..... c 91 N76-30131 * #
US-PATENT-CLASS-73-170R ..... c 06 N83-10040 * #
US-PATENT-CLASS-73-170R ..... c 35 N84-28018 * #
US-PATENT-CLASS-73-170 ..... c 14 N71-14996 * #
US-PATENT-CLASS-73-170 ..... c 17 N73-32415 * #
US-PATENT-CLASS-73-178-R ..... c 06 N84-34443 * #
US-PATENT-CLASS-73-178R ..... c 35 N75-29381 * #
US-PATENT-CLASS-73-178R ..... c 04 N77-19056 * #
US-PATENT-CLASS-73-178R ..... c 37 N78-27424 * #
US-PATENT-CLASS-73-178R ..... c 35 N79-26372 * #
US-PATENT-CLASS-73-178R ..... c 06 N81-17057 * #
US-PATENT-CLASS-73-178R ..... c 04 N81-21047 * #
US-PATENT-CLASS-73-178R ..... c 18 N81-29152 * #
US-PATENT-CLASS-73-178R ..... c 06 N82-16075 * #
US-PATENT-CLASS-73-178R ..... c 06 N83-10040 * #
US-PATENT-CLASS-73-178R ..... c 06 N84-27733 * #
US-PATENT-CLASS-73-178 ..... c 14 N70-36807 * #
US-PATENT-CLASS-73-178 ..... c 14 N70-40157 * #
US-PATENT-CLASS-73-179 ..... c 34 N85-21568 * #
US-PATENT-CLASS-73-17 ..... c 06 N71-24607 *
US-PATENT-CLASS-73-180 ..... c 35 N78-14364 * #
US-PATENT-CLASS-73-180 ..... c 02 N80-28300 * #
US-PATENT-CLASS-73-182 ..... c 14 N73-13415 * #
US-PATENT-CLASS-73-182 ..... c 35 N74-32878 * #
US-PATENT-CLASS-73-182 ..... c 35 N76-14429 * #
US-PATENT-CLASS-73-182 ..... c 02 N80-28300 * #
US-PATENT-CLASS-73-187 ..... c 35 N85-20295 * #
US-PATENT-CLASS-73-188 ..... c 06 N80-18036 * #
US-PATENT-CLASS-73-189 ..... c 20 N71-16281 *
US-PATENT-CLASS-73-189 ..... c 02 N71-23007 *
US-PATENT-CLASS-73-189 ..... c 14 N71-23726 *
US-PATENT-CLASS-73-189 ..... c 14 N73-13415 * #
US-PATENT-CLASS-73-189 ..... c 14 N73-25460 * #
US-PATENT-CLASS-73-189 ..... c 35 N76-24524 * #
US-PATENT-CLASS-73-189 ..... c 34 N76-27517 * #
US-PATENT-CLASS-73-189 ..... c 34 N77-27345 * #
US-PATENT-CLASS-73-189 ..... c 34 N79-12359 * #
US-PATENT-CLASS-73-189 ..... c 06 N80-18036 * #
US-PATENT-CLASS-73-189 ..... c 47 N84-28292 * #
US-PATENT-CLASS-73-190H ..... c 35 N74-22095 * #
US-PATENT-CLASS-73-190R ..... c 34 N74-27859 * #
US-PATENT-CLASS-73-190R ..... c 35 N81-19426 * #
US-PATENT-CLASS-73-190 ..... c 33 N71-15641 *
US-PATENT-CLASS-73-190 ..... c 14 N71-22989 *
US-PATENT-CLASS-73-190 ..... c 33 N71-23085 *
US-PATENT-CLASS-73-190 ..... c 33 N71-29051 *
US-PATENT-CLASS-73-194A ..... c 14 N72-17329 * #
US-PATENT-CLASS-73-194EM ... c 14 N73-32326 * #
US-PATENT-CLASS-73-194EM ... c 35 N74-21018 * #
US-PATENT-CLASS-73-194E ..... c 14 N73-20478 * #
US-PATENT-CLASS-73-194E ..... c 05 N73-32015 * #
US-PATENT-CLASS-73-194F ..... c 14 N72-11365 *
US-PATENT-CLASS-73-194M ..... c 05 N73-32015 * #
US-PATENT-CLASS-73-194M ..... c 35 N75-30503 * #
US-PATENT-CLASS-73-194R ..... c 34 N76-27517 * #
US-PATENT-CLASS-73-194VS .... c 34 N79-12359 * #
US-PATENT-CLASS-73-194 ..... c 14 N70-41994 * #
US-PATENT-CLASS-73-194 ..... c 14 N71-23226 *
US-PATENT-CLASS-73-194 ..... c 12 N71-26546 *
US-PATENT-CLASS-73-195 ..... c 35 N75-30503 * #
US-PATENT-CLASS-73-198 ..... c 14 N69-24257 * #
US-PATENT-CLASS-73-198 ..... c 14 N72-17327 * #
US-PATENT-CLASS-73-1 ..... c 10 N71-13545 * #
US-PATENT-CLASS-73-1 ..... c 09 N71-22988 *
US-PATENT-CLASS-73-204 ..... c 12 N71-17569 *
US-PATENT-CLASS-73-204 ..... c 35 N76-24524 * #
US-PATENT-CLASS-73-204 ..... c 35 N77-20400 * #
US-PATENT-CLASS-73-204 ..... c 52 N83-27577 * #
US-PATENT-CLASS-73-205L ..... c 02 N80-20224 * #
US-PATENT-CLASS-73-212 ..... c 14 N70-36824 * #
US-PATENT-CLASS-73-212 ..... c 14 N73-13415 * #
US-PATENT-CLASS-73-212 ..... c 35 N76-14429 * #
US-PATENT-CLASS-73-212 ..... c 06 N80-18036 * #
US-PATENT-CLASS-73-221 ..... c 35 N75-19611 * #
US-PATENT-CLASS-73-228 ..... c 34 N77-27345 * #
US-PATENT-CLASS-73-23.1 ..... c 06 N69-39936 * #
US-PATENT-CLASS-73-23.1 ..... c 06 N72-17094 * #
US-PATENT-CLASS-73-23.1 ..... c 06 N72-25146 * #
US-PATENT-CLASS-73-23.1 ..... c 25 N76-18245 * #
US-PATENT-CLASS-73-23.1 ..... c 23 N77-17161 * #
US-PATENT-CLASS-73-23 ..... c 14 N71-10774 * #
US-PATENT-CLASS-73-23 ..... c 05 N71-11202 * #
US-PATENT-CLASS-73-23 ..... c 52 N74-20728 * #
US-PATENT-CLASS-73-23 ..... c 35 N75-29380 * #
US-PATENT-CLASS-73-23 ..... c 25 N78-15210 * #
US-PATENT-CLASS-73-23 ..... c 35 N78-19465 * #
US-PATENT-CLASS-73-24 ..... c 06 N69-39733 * #
US-PATENT-CLASS-73-28 ..... c 14 N73-27376 * #
US-PATENT-CLASS-73-28 ..... c 14 N73-30395 * #
US-PATENT-CLASS-73-28 ..... c 35 N76-18401 * #
US-PATENT-CLASS-73-28 ..... c 35 N78-18390 * #
US-PATENT-CLASS-73-290B ..... c 14 N72-11363 *
US-PATENT-CLASS-73-290 ..... c 14 N71-10500 * #
US-PATENT-CLASS-73-290 ..... c 14 N71-21007 *
US-PATENT-CLASS-73-295 ..... c 23 N71-17802 *
US-PATENT-CLASS-73-295 ..... c 31 N76-14284 * #
US-PATENT-CLASS-73-29 ..... c 14 N71-17701 *
US-PATENT-CLASS-73-29 ..... c 14 N71-20741 *
US-PATENT-CLASS-73-301 ..... c 12 N71-26387 *
US-PATENT-CLASS-73-304C ..... c 14 N71-29134 *
US-PATENT-CLASS-73-304 ..... c 14 N72-22442 * #
US-PATENT-CLASS-73-30 ..... c 14 N70-41681 * #
US-PATENT-CLASS-73-32R ..... c 76 N75-12810 * #
US-PATENT-CLASS-73-32R ..... c 35 N84-28018 * #
US-PATENT-CLASS-73-32 ..... c 14 N70-41330 * #
US-PATENT-CLASS-73-336.5 ..... c 35 N78-25391 * #
US-PATENT-CLASS-73-336.5 ..... c 35 N85-29212 * #
US-PATENT-CLASS-73-339 ..... c 33 N73-27796 * #
US-PATENT-CLASS-73-341 ..... c 14 N71-15598 * #
US-PATENT-CLASS-73-341 ..... c 44 N82-16474 * #
US-PATENT-CLASS-73-343R ..... c 52 N77-10780 * #
US-PATENT-CLASS-73-343R ..... c 35 N80-18357 * #
US-PATENT-CLASS-73-343 ..... c 33 N71-16356 *
US-PATENT-CLASS-73-343 ..... c 11 N71-21475 *
US-PATENT-CLASS-73-355R ..... c 14 N72-24477 * #
US-PATENT-CLASS-73-355R ..... c 35 N80-18359 * #
US-PATENT-CLASS-73-355 ..... c 14 N71-27323 *
US-PATENT-CLASS-73-355 ..... c 14 N72-28437 * #
US-PATENT-CLASS-73-356 ..... c 35 N75-25122 * #
US-PATENT-CLASS-73-35 ..... c 33 N72-27959 * #
US-PATENT-CLASS-73-361 ..... c 35 N81-26431 * #
US-PATENT-CLASS-73-362AR .... c 35 N77-27368 * #
US-PATENT-CLASS-73-379 ..... c 05 N73-27941 * #
US-PATENT-CLASS-73-379 ..... c 05 N73-30078 * #
US-PATENT-CLASS-73-379 ..... c 35 N75-15932 * #
US-PATENT-CLASS-73-379 ..... c 39 N83-20280 * #
US-PATENT-CLASS-73-382 ..... c 10 N71-13537 * #
US-PATENT-CLASS-73-382 ..... c 14 N71-17587 *
US-PATENT-CLASS-73-384 ..... c 15 N70-37925 * #
US-PATENT-CLASS-73-388 ..... c 35 N74-32878 * #
US-PATENT-CLASS-73-389 ..... c 12 N71-24692 *
US-PATENT-CLASS-73-38 ..... c 18 N71-24934 *
US-PATENT-CLASS-73-398AR .... c 52 N74-27566 * #
US-PATENT-CLASS-73-398AR .... c 52 N76-29896 * #
US-PATENT-CLASS-73-398C ..... c 14 N72-22438 * #
US-PATENT-CLASS-73-398C ..... c 33 N76-21390 * #
US-PATENT-CLASS-73-398 ..... c 14 N70-34816 * #
US-PATENT-CLASS-73-398 ..... c 14 N71-21072 *
US-PATENT-CLASS-73-398 ..... c 09 N71-24597 *
US-PATENT-CLASS-73-398 ..... c 14 N73-30394 * #

US-PATENT-CLASS-73-399 ..... c 37 N76-18454 * #
US-PATENT-CLASS-73-3 ..... c 34 N74-27730 * #
US-PATENT-CLASS-73-3 ..... c 34 N86-12547 * #
US-PATENT-CLASS-73-4R ..... c 35 N74-13132 * #
US-PATENT-CLASS-73-4R ..... c 35 N79-14347 * #
US-PATENT-CLASS-73-4R ..... c 35 N80-18358 * #
US-PATENT-CLASS-73-4V ..... c 35 N74-15092 * #
US-PATENT-CLASS-73-40.5A ..... c 35 N85-21597 * #
US-PATENT-CLASS-73-40.5 ..... c 14 N71-10779 * #
US-PATENT-CLASS-73-40.7 ..... c 15 N71-24910 *
US-PATENT-CLASS-73-40.7 ..... c 14 N71-28992 *
US-PATENT-CLASS-73-40.7 ..... c 35 N74-32879 * #
US-PATENT-CLASS-73-40.7 ..... c 35 N85-29213 * #
US-PATENT-CLASS-73-400 ..... c 14 N71-23093 *
US-PATENT-CLASS-73-400 ..... c 14 N71-24232 *
US-PATENT-CLASS-73-400 ..... c 35 N79-33450 * #
US-PATENT-CLASS-73-401 ..... c 14 N70-34820 * #
US-PATENT-CLASS-73-40 ..... c 35 N75-15931 * #
US-PATENT-CLASS-73-40 ..... c 35 N80-18358 * #
US-PATENT-CLASS-73-419 ..... c 14 N71-22752 *
US-PATENT-CLASS-73-420 ..... c 35 N74-13132 * #
US-PATENT-CLASS-73-421.5R ... c 13 N72-25323 * #
US-PATENT-CLASS-73-421.5R ... c 14 N73-30395 * #
US-PATENT-CLASS-73-421.5R ... c 52 N74-20728 * #
US-PATENT-CLASS-73-421.5R ... c 35 N76-18401 * #
US-PATENT-CLASS-73-421.5R ... c 35 N77-32456 * #
US-PATENT-CLASS-73-421.5 ..... c 14 N73-12444 * #
US-PATENT-CLASS-73-421R ..... c 54 N76-14804 * #
US-PATENT-CLASS-73-422GC .... c 13 N72-25323 * #
US-PATENT-CLASS-73-422TC .... c 13 N72-25323 * #
US-PATENT-CLASS-73-422 ..... c 14 N71-20435 *
US-PATENT-CLASS-73-425.2 ..... c 91 N76-30131 * #
US-PATENT-CLASS-73-425.4R ... c 35 N78-27384 * #
US-PATENT-CLASS-73-425.6 ..... c 15 N72-21465 * #
US-PATENT-CLASS-73-432PS .... c 76 N75-12810 * #
US-PATENT-CLASS-73-432PS .... c 35 N75-33367 * #
US-PATENT-CLASS-73-432PS .... c 35 N78-18390 * #
US-PATENT-CLASS-73-432R ..... c 33 N73-27796 * #
US-PATENT-CLASS-73-432R ..... c 14 N73-28487 * #
US-PATENT-CLASS-73-432R ..... c 91 N76-30131 * #
US-PATENT-CLASS-73-432R ..... c 35 N77-19385 * #
US-PATENT-CLASS-73-432R ..... c 35 N78-18390 * #
US-PATENT-CLASS-73-432R ..... c 15 N84-16231 * #
US-PATENT-CLASS-73-432SD .... c 11 N72-27262 * #
US-PATENT-CLASS-73-432SD .... c 11 N73-20267 * #
US-PATENT-CLASS-73-432SD .... c 35 N77-18417 * #
US-PATENT-CLASS-73-432T ..... c 74 N84-11921 * #
US-PATENT-CLASS-73-432 ..... c 11 N70-34786 * #
US-PATENT-CLASS-73-432 ..... c 11 N70-38675 * #
US-PATENT-CLASS-73-432 ..... c 05 N70-42000 * #
US-PATENT-CLASS-73-432 ..... c 31 N71-16221 *
US-PATENT-CLASS-73-432 ..... c 27 N71-16223 *
US-PATENT-CLASS-73-432 ..... c 30 N71-17788 *
US-PATENT-CLASS-73-432 ..... c 14 N71-23227 *
US-PATENT-CLASS-73-432 ..... c 10 N71-26339 *
US-PATENT-CLASS-73-432 ..... c 11 N71-28629 *
US-PATENT-CLASS-73-432 ..... c 14 N71-30026 *
US-PATENT-CLASS-73-432 ..... c 35 N74-21062 * #
US-PATENT-CLASS-73-45.5 ..... c 12 N71-17573 *
US-PATENT-CLASS-73-456 ..... c 35 N78-24515 * #
US-PATENT-CLASS-73-468 ..... c 37 N84-28082 * #
US-PATENT-CLASS-73-46 ..... c 35 N75-19612 * #
US-PATENT-CLASS-73-49.2 ..... c 32 N71-24285 *
US-PATENT-CLASS-73-49.2 ..... c 35 N75-15931 * #
US-PATENT-CLASS-73-49.2 ..... c 35 N75-19612 * #
US-PATENT-CLASS-73-49.3 ..... c 14 N71-26672 *
US-PATENT-CLASS-73-49.8 ..... c 14 N69-27503 * #
US-PATENT-CLASS-73-49.8 ..... c 15 N71-29132 *
US-PATENT-CLASS-73-490 ..... c 04 N81-21047 * #
US-PATENT-CLASS-73-492 ..... c 14 N72-25411 * #
US-PATENT-CLASS-73-493 ..... c 17 N76-29347 * #
US-PATENT-CLASS-73-497 ..... c 14 N71-30265 *
US-PATENT-CLASS-73-497 ..... c 35 N74-15094 * #
US-PATENT-CLASS-73-4 ..... c 14 N71-18481 *
US-PATENT-CLASS-73-4 ..... c 14 N71-23036 *
US-PATENT-CLASS-73-4 ..... c 14 N71-23755 *
US-PATENT-CLASS-73-4 ..... c 14 N73-30390 * #
US-PATENT-CLASS-73-504 ..... c 04 N81-21047 * #
US-PATENT-CLASS-73-505 ..... c 23 N71-16098 *
US-PATENT-CLASS-73-505 ..... c 12 N75-24774 * #
US-PATENT-CLASS-73-505 ..... c 71 N78-10837 * #
US-PATENT-CLASS-73-505 ..... c 71 N79-20827 * #
US-PATENT-CLASS-73-505 ..... c 71 N81-15767 * #
US-PATENT-CLASS-73-505 ..... c 71 N83-32515 * #
US-PATENT-CLASS-73-505 ..... c 71 N83-32516 * #
US-PATENT-CLASS-73-505 ..... c 71 N83-36846 * #
US-PATENT-CLASS-73-505 ..... c 71 N84-23233 * #
US-PATENT-CLASS-73-505 ..... c 71 N85-22105 * #
US-PATENT-CLASS-73-505 ..... c 71 N85-29693 * #
US-PATENT-CLASS-73-505 ..... c 35 N86-20752 * #
US-PATENT-CLASS-73-510 ..... c 18 N81-29152 * #
US-PATENT-CLASS-73-515 ..... c 14 N72-25410 * #
US-PATENT-CLASS-73-517B ..... c 35 N74-15094 * #
US-PATENT-CLASS-73-517R ..... c 17 N76-29347 * #
US-PATENT-CLASS-73-517 ..... c 11 N70-38196 * #
US-PATENT-CLASS-73-517 ..... c 14 N70-41682 * #
US-PATENT-CLASS-73-517 ..... c 14 N71-15969 *
US-PATENT-CLASS-73-521 ..... c 14 N72-25410 * #
US-PATENT-CLASS-73-557 ..... c 35 N75-19614 * #
US-PATENT-CLASS-73-557 ..... c 07 N76-27232 * #
US-PATENT-CLASS-73-56 ..... c 35 N80-18357 * #
US-PATENT-CLASS-73-579 ..... c 39 N78-15512 * #
US-PATENT-CLASS-73-579 ..... c 35 N79-10390 * #
US-PATENT-CLASS-73-579 ..... c 33 N83-16626 * #
US-PATENT-CLASS-73-579 ..... c 27 N85-20126 * #
US-PATENT-CLASS-73-57 ..... c 14 N71-17584 *
US-PATENT-CLASS-73-57 ..... c 14 N73-14429 * #
US-PATENT-CLASS-73-582 ..... c 27 N85-20126 * #
US-PATENT-CLASS-73-588 ..... c 37 N84-33807 * #
US-PATENT-CLASS-73-588 ..... c 27 N85-20126 * #
US-PATENT-CLASS-73-589 ..... c 35 N79-10390 * #
US-PATENT-CLASS-73-589 ..... c 35 N84-22933 * #
US-PATENT-CLASS-73-594 ..... c 35 N84-22933 * #
US-PATENT-CLASS-73-597 ..... c 33 N83-16626 * #
US-PATENT-CLASS-73-597 ..... c 52 N83-27578 * #
US-PATENT-CLASS-73-603 ..... c 38 N78-32447 * #
US-PATENT-CLASS-73-60 ..... c 14 N73-14429 * #
US-PATENT-CLASS-73-61.1C ..... c 23 N77-17161 * #
US-PATENT-CLASS-73-61R ..... c 35 N78-27384 * #
US-PATENT-CLASS-73-61 ..... c 14 N71-26199 *
US-PATENT-CLASS-73-620 ..... c 35 N84-22928 * #
US-PATENT-CLASS-73-626 ..... c 52 N79-26771 * #
US-PATENT-CLASS-73-629 ..... c 33 N83-16626 * #
US-PATENT-CLASS-73-630 ..... c 39 N78-15512 * #
US-PATENT-CLASS-73-632 ..... c 38 N79-14398 * #
US-PATENT-CLASS-73-633 ..... c 52 N79-14751 * #
US-PATENT-CLASS-73-633 ..... c 35 N84-22928 * #
US-PATENT-CLASS-73-64.4 ..... c 34 N83-31993 * #
US-PATENT-CLASS-73-641 ..... c 38 N79-14398 * #
US-PATENT-CLASS-73-644 ..... c 38 N79-14398 * #
US-PATENT-CLASS-73-644 ..... c 52 N79-14751 * #
US-PATENT-CLASS-73-646 ..... c 71 N78-14867 * #
US-PATENT-CLASS-73-646 ..... c 35 N84-12445 * #
US-PATENT-CLASS-73-647 ..... c 32 N79-24203 * #
US-PATENT-CLASS-73-655 ..... c 35 N80-14371 * #
US-PATENT-CLASS-73-657 ..... c 35 N85-30282 * #
US-PATENT-CLASS-73-658 ..... c 35 N84-12445 * #
US-PATENT-CLASS-73-65 ..... c 14 N71-22992 *
US-PATENT-CLASS-73-661 ..... c 35 N80-14371 * #
US-PATENT-CLASS-73-67.1 ..... c 35 N75-12271 * #
US-PATENT-CLASS-73-67.2 ..... c 11 N69-21540 * #
US-PATENT-CLASS-73-67.2 ..... c 15 N71-18132 *
US-PATENT-CLASS-73-67.2 ..... c 14 N72-22440 * #
US-PATENT-CLASS-73-67.2 ..... c 35 N78-17358 * #
US-PATENT-CLASS-73-67.3 ..... c 32 N73-26910 * #
US-PATENT-CLASS-73-67.5R ..... c 38 N74-15395 * #
US-PATENT-CLASS-73-67.7 ..... c 39 N77-28511 * #
US-PATENT-CLASS-73-67.8S ..... c 35 N74-10415 * #
US-PATENT-CLASS-73-67.8S ..... c 38 N74-15130 * #
US-PATENT-CLASS-73-67.9 ..... c 52 N74-20726 * #
US-PATENT-CLASS-73-683.31 .... c 35 N81-29407 * #
US-PATENT-CLASS-73-684.52 .... c 35 N81-29407 * #
US-PATENT-CLASS-73-69 ..... c 71 N74-31148 * #
US-PATENT-CLASS-73-70.2 ..... c 14 N71-10616 * #
US-PATENT-CLASS-73-705 ..... c 36 N85-21639 * #
US-PATENT-CLASS-73-708 ..... c 34 N85-21568 * #
US-PATENT-CLASS-73-71.2 ..... c 14 N70-34794 * #
US-PATENT-CLASS-73-71.3 ..... c 35 N74-15146 * #
US-PATENT-CLASS-73-71.4 ..... c 32 N71-16428 *
US-PATENT-CLASS-73-71.4 ..... c 32 N71-26681 *
US-PATENT-CLASS-73-71.5R ..... c 71 N74-31148 * #
US-PATENT-CLASS-73-71.5U ..... c 38 N74-15395 * #
US-PATENT-CLASS-73-71.6 ..... c 14 N71-27185 *
US-PATENT-CLASS-73-71.6 ..... c 14 N72-27412 * #
US-PATENT-CLASS-73-71.6 ..... c 14 N73-13416 * #
US-PATENT-CLASS-73-71.6 ..... c 14 N73-19421 * #
US-PATENT-CLASS-73-71.6 ..... c 35 N77-18417 * #
US-PATENT-CLASS-73-714 ..... c 35 N79-14347 * #
US-PATENT-CLASS-73-714 ..... c 34 N79-24285 * #
US-PATENT-CLASS-73-714 ..... c 35 N84-14491 * #
US-PATENT-CLASS-73-721 ..... c 35 N79-14347 * #
US-PATENT-CLASS-73-721 ..... c 35 N84-22934 * #
US-PATENT-CLASS-73-724 ..... c 32 N79-24203 * #
US-PATENT-CLASS-73-724 ..... c 52 N80-18691 * #
US-PATENT-CLASS-73-724 ..... c 33 N82-26572 * #
US-PATENT-CLASS-73-753 ..... c 35 N85-21597 * #
US-PATENT-CLASS-73-756 ..... c 35 N78-24515 * #
US-PATENT-CLASS-73-756 ..... c 35 N79-14347 * #
US-PATENT-CLASS-73-756 ..... c 35 N84-22934 * #
US-PATENT-CLASS-73-75 ..... c 35 N85-34373 * #
US-PATENT-CLASS-73-761 ..... c 33 N83-16626 * #
US-PATENT-CLASS-73-76 ..... c 06 N72-17095 * #
US-PATENT-CLASS-73-770 ..... c 39 N79-22537 * #
US-PATENT-CLASS-73-781 ..... c 52 N80-27072 * #
US-PATENT-CLASS-73-79 ..... c 14 N71-26161 *
US-PATENT-CLASS-73-7 ..... c 25 N86-19413 * #
US-PATENT-CLASS-73-810 ..... c 39 N79-22537 * #
US-PATENT-CLASS-73-818 ..... c 35 N83-21312 * #
US-PATENT-CLASS-73-818 ..... c 39 N83-32081 * #
US-PATENT-CLASS-73-81 ..... c 14 N73-32321 * #
US-PATENT-CLASS-73-822 ..... c 39 N83-32081 * #
US-PATENT-CLASS-73-827 ..... c 39 N86-20841 * #
US-PATENT-CLASS-73-82 ..... c 43 N79-25443 * #
US-PATENT-CLASS-73-82 ..... c 43 N80-14423 * #
US-PATENT-CLASS-73-82 ..... c 43 N80-23711 * #
US-PATENT-CLASS-73-831 ..... c 35 N85-34375 * #
US-PATENT-CLASS-73-833 ..... c 24 N84-27829 * #
US-PATENT-CLASS-73-84 ..... c 14 N71-22765 *
US-PATENT-CLASS-73-84 ..... c 14 N73-19420 * #
US-PATENT-CLASS-73-84 ..... c 35 N77-27367 * #
US-PATENT-CLASS-73-856 ..... c 39 N83-32081 * #
US-PATENT-CLASS-73-856 ..... c 24 N84-27829 * #
US-PATENT-CLASS-73-856 ..... c 35 N85-34375 * #
US-PATENT-CLASS-73-85 ..... c 14 N72-33377 * #
US-PATENT-CLASS-73-860 ..... c 39 N83-32081 * #
US-PATENT-CLASS-73-861.05 .... c 33 N83-31954 * #
US-PATENT-CLASS-73-861.07 .... c 34 N86-12547 * #
US-PATENT-CLASS-73-861.65 .... c 02 N80-28300 * #
US-PATENT-CLASS-73-861.66 .... c 02 N80-28300 * #
US-PATENT-CLASS-73-861.71 .... c 47 N84-28292 * #
US-PATENT-CLASS-73-861 ..... c 34 N81-26402 * #
US-PATENT-CLASS-73-862.01 .... c 35 N86-19581 * #
US-PATENT-CLASS-73-862.08 .... c 54 N82-26987 * #
US-PATENT-CLASS-73-862.54 .... c 37 N83-36482 * #
US-PATENT-CLASS-73-862.54 .... c 35 N85-20294 * #
US-PATENT-CLASS-73-862.54 .... c 35 N86-19581 * #
US-PATENT-CLASS-73-862.65 .... c 35 N84-28015 * #
US-PATENT-CLASS-73-863.11 .... c 35 N83-29650 * #
US-PATENT-CLASS-73-863.11 .... c 37 N85-29286 * #
US-PATENT-CLASS-73-863.31 .... c 45 N83-25217 * #
US-PATENT-CLASS-73-863.83 .... c 45 N83-25217 * #
US-PATENT-CLASS-73-863.86 .... c 35 N85-29213 * #
US-PATENT-CLASS-73-864.41 .... c 35 N84-28018 * #
US-PATENT-CLASS-73-864.52 .... c 35 N85-29213 * #
US-PATENT-CLASS-73-864.63 .... c 45 N83-25217 * #
US-PATENT-CLASS-73-864.81 .... c 37 N85-29286 * #
US-PATENT-CLASS-73-86 ..... c 14 N69-39975 * #
US-PATENT-CLASS-73-86 ..... c 33 N71-21586 *
US-PATENT-CLASS-73-86 ..... c 33 N73-27796 * #
US-PATENT-CLASS-73-86 ..... c 34 N74-15652 * #
US-PATENT-CLASS-73-88.5R ..... c 15 N72-17452 * #
US-PATENT-CLASS-73-88.5R ..... c 32 N73-26910 * #
US-PATENT-CLASS-73-88.5R ..... c 52 N74-27864 * #
US-PATENT-CLASS-73-88.5R ..... c 35 N76-14430 * #
US-PATENT-CLASS-73-88.5SD ... c 33 N76-19338 * #
US-PATENT-CLASS-73-88.5 ..... c 14 N70-34705 * #
US-PATENT-CLASS-73-88.5 ..... c 14 N70-34799 * #
US-PATENT-CLASS-73-88.5 ..... c 14 N71-17656 *
US-PATENT-CLASS-73-88.5 ..... c 14 N71-21091 *
US-PATENT-CLASS-73-88.5 ..... c 14 N71-23087 *
US-PATENT-CLASS-73-88.5 ..... c 14 N71-24233 *
US-PATENT-CLASS-73-88.5 ..... c 09 N72-22200 * #
US-PATENT-CLASS-73-88.5 ..... c 33 N75-31329 * #
US-PATENT-CLASS-73-88.5 ..... c 38 N76-28563 * #
US-PATENT-CLASS-73-88A ..... c 32 N73-20740 * #
US-PATENT-CLASS-73-88F ..... c 39 N78-15512 * #
US-PATENT-CLASS-73-88R ..... c 35 N74-13129 * #
US-PATENT-CLASS-73-88R ..... c 35 N77-22449 * #
US-PATENT-CLASS-73-88R ..... c 39 N77-28511 * #
US-PATENT-CLASS-73-88 ..... c 32 N71-17645 *
US-PATENT-CLASS-73-90 ..... c 32 N70-42003 * #
US-PATENT-CLASS-73-90 ..... c 32 N71-25360 *
US-PATENT-CLASS-73-90 ..... c 14 N73-20476 * #
US-PATENT-CLASS-73-91 ..... c 14 N73-20476 * #
US-PATENT-CLASS-73-91 ..... c 32 N73-26910 * #
US-PATENT-CLASS-73-91 ..... c 09 N74-19528 * #
US-PATENT-CLASS-73-91 ..... c 39 N78-10493 * #
US-PATENT-CLASS-73-94 ..... c 14 N73-32323 * #
US-PATENT-CLASS-73-95 ..... c 15 N71-24834 *
US-PATENT-CLASS-73-95 ..... c 14 N72-11364 *
US-PATENT-CLASS-73-95 ..... c 35 N76-18400 * #
US-PATENT-CLASS-73-95 ..... c 35 N77-22450 * #
US-PATENT-CLASS-73-95 ..... c 31 N79-11246 * #
US-PATENT-CLASS-73-97 ..... c 14 N71-15600 * #
US-PATENT-CLASS-73-99 ..... c 14 N71-10781 * #
US-PATENT-CLASS-73-9 ..... c 14 N71-22995 *
US-PATENT-CLASS-73-9 ..... c 35 N76-31489 * #
US-PATENT-CLASS-73-9 ..... c 15 N84-16231 * #
US-PATENT-CLASS-74-100R ..... c 37 N78-31426 * #
US-PATENT-CLASS-74-100 ..... c 15 N71-24045 *
US-PATENT-CLASS-74-105 ..... c 09 N72-22195 * #
US-PATENT-CLASS-74-110 ..... c 44 N83-14693 * #
US-PATENT-CLASS-74-126 ..... c 15 N71-21529 *
US-PATENT-CLASS-74-18.1 ..... c 37 N82-24493 * #
US-PATENT-CLASS-74-18.2 ..... c 11 N71-27036 *
US-PATENT-CLASS-74-18.2 ..... c 37 N82-24493 * #
US-PATENT-CLASS-74-217R ..... c 37 N74-23070 * #
US-PATENT-CLASS-74-2 ..... c 15 N71-24600 *
US-PATENT-CLASS-74-2 ..... c 31 N73-14855 * #
US-PATENT-CLASS-74-384 ..... c 37 N76-15457 * #
US-PATENT-CLASS-74-385 ..... c 07 N78-17056 * #
US-PATENT-CLASS-74-409 ..... c 15 N71-21744 *
US-PATENT-CLASS-74-417 ..... c 07 N78-17056 * #
US-PATENT-CLASS-74-417 ..... c 37 N81-14318 * #
US-PATENT-CLASS-74-417 ..... c 37 N81-17432 * #
US-PATENT-CLASS-74-424.8B ... c 37 N85-20338 * #
US-PATENT-CLASS-74-424.8VA . c 37 N75-15050 * #
US-PATENT-CLASS-74-424.8VA . c 37 N85-20338 * #

US-PATENT-CLASS-74-424.8 ..... c 15 N71-26635 *
US-PATENT-CLASS-74-425 ..... c 37 N80-32716 * #
US-PATENT-CLASS-74-436 ..... c 37 N75-13266 * #
US-PATENT-CLASS-74-468 ..... c 15 N71-24984 *
US-PATENT-CLASS-74-469 ..... c 15 N72-21463 * #
US-PATENT-CLASS-74-469 ..... c 15 N72-28495 * #
US-PATENT-CLASS-74-471XY .... c 54 N75-27760 * #
US-PATENT-CLASS-74-471 ..... c 05 N70-41581 * #
US-PATENT-CLASS-74-471 ..... c 03 N70-42073 * #
US-PATENT-CLASS-74-471 ..... c 15 N71-20740 *
US-PATENT-CLASS-74-479 ..... c 08 N82-24205 * #
US-PATENT-CLASS-74-480R ..... c 05 N75-12930 * #
US-PATENT-CLASS-74-480R ..... c 08 N82-24205 * #
US-PATENT-CLASS-74-5.12 ..... c 31 N71-26537 *
US-PATENT-CLASS-74-5.22 ..... c 21 N73-13644 * #
US-PATENT-CLASS-74-5.34 ..... c 04 N76-26175 * #
US-PATENT-CLASS-74-5.34 ..... c 06 N83-33882 * #
US-PATENT-CLASS-74-5.47 ..... c 21 N71-23289 *
US-PATENT-CLASS-74-5.5 ..... c 35 N74-28097 * #
US-PATENT-CLASS-74-5.5 ..... c 37 N84-28082 * #
US-PATENT-CLASS-74-5.6D ..... c 33 N85-29142 * #
US-PATENT-CLASS-74-5.6 ..... c 35 N74-15094 * #
US-PATENT-CLASS-74-5.7 ..... c 35 N74-18323 * #
US-PATENT-CLASS-74-5.7 ..... c 15 N76-14158 * #
US-PATENT-CLASS-74-5F ..... c 15 N73-12488 * #
US-PATENT-CLASS-74-501R ..... c 15 N72-22485 * #
US-PATENT-CLASS-74-515E ..... c 54 N78-17676 * #
US-PATENT-CLASS-74-519 ..... c 03 N70-41954 * #
US-PATENT-CLASS-74-519 ..... c 05 N81-19087 * #
US-PATENT-CLASS-74-572 ..... c 07 N78-33101 * #
US-PATENT-CLASS-74-572 ..... c 37 N79-10422 * #
US-PATENT-CLASS-74-572 ..... c 44 N79-14527 * #
US-PATENT-CLASS-74-572 ..... c 24 N81-29163 * #
US-PATENT-CLASS-74-573R ..... c 37 N84-28082 * #
US-PATENT-CLASS-74-586 ..... c 37 N79-14382 * #
US-PATENT-CLASS-74-58 ..... c 35 N84-22928 * #
US-PATENT-CLASS-74-594.6 ..... c 37 N74-18127 * #
US-PATENT-CLASS-74-594.7 ..... c 37 N74-18127 * #
US-PATENT-CLASS-74-63 ..... c 15 N71-17692 *
US-PATENT-CLASS-74-661 ..... c 37 N80-32716 * #
US-PATENT-CLASS-74-665B ..... c 37 N76-15457 * #
US-PATENT-CLASS-74-665C ..... c 37 N80-32716 * #
US-PATENT-CLASS-74-674 ..... c 37 N79-20377 * #
US-PATENT-CLASS-74-675 ..... c 37 N74-27901 * #
US-PATENT-CLASS-74-705 ..... c 37 N79-20377 * #
US-PATENT-CLASS-74-710 ..... c 37 N74-27901 * #
US-PATENT-CLASS-74-753 ..... c 37 N84-28084 * #
US-PATENT-CLASS-74-758 ..... c 37 N84-28084 * #
US-PATENT-CLASS-74-764 ..... c 37 N79-20377 * #
US-PATENT-CLASS-74-800 ..... c 37 N78-17385 * #
US-PATENT-CLASS-74-812 ..... c 37 N84-28084 * #
US-PATENT-CLASS-74-81 ..... c 37 N78-16369 * #
US-PATENT-CLASS-74-820 ..... c 37 N75-13266 * #
US-PATENT-CLASS-74-83 ..... c 37 N78-16369 * #
US-PATENT-CLASS-74-89.15 ..... c 15 N71-26635 *
US-PATENT-CLASS-74-89.15 ..... c 15 N72-21462 * #
US-PATENT-CLASS-74-89.18 ..... c 15 N71-23809 *
US-PATENT-CLASS-74-89 ..... c 37 N81-33483 * #
US-PATENT-CLASS-74-96 ..... c 37 N77-22482 * #
US-PATENT-CLASS-75-.5B ..... c 17 N72-22530 * #
US-PATENT-CLASS-75-DIG.1 ..... c 18 N72-25539 * #
US-PATENT-CLASS-75-DIG.1 ..... c 37 N75-26371 * #
US-PATENT-CLASS-75-0.5BB ..... c 15 N72-25448 * #
US-PATENT-CLASS-75-122.7 ..... c 37 N77-19458 * #
US-PATENT-CLASS-75-124 ..... c 26 N78-18182 * #
US-PATENT-CLASS-75-124 ..... c 26 N80-32484 * #
US-PATENT-CLASS-75-126D ..... c 26 N78-18182 * #
US-PATENT-CLASS-75-126F ..... c 26 N78-18182 * #
US-PATENT-CLASS-75-128G ..... c 26 N78-18182 * #
US-PATENT-CLASS-75-128T ..... c 26 N78-18182 * #
US-PATENT-CLASS-75-134D ..... c 76 N79-16678 * #
US-PATENT-CLASS-75-135 ..... c 18 N73-32437 * #
US-PATENT-CLASS-75-135 ..... c 24 N77-27187 * #
US-PATENT-CLASS-75-135 ..... c 26 N80-23419 * #
US-PATENT-CLASS-75-138 ..... c 26 N80-23419 * #
US-PATENT-CLASS-75-139 ..... c 24 N77-27187 * #
US-PATENT-CLASS-75-142 ..... c 17 N71-20743 *
US-PATENT-CLASS-75-170 ..... c 17 N71-15644 * #
US-PATENT-CLASS-75-170 ..... c 17 N71-16025 * #
US-PATENT-CLASS-75-170 ..... c 17 N71-23248 *
US-PATENT-CLASS-75-170 ..... c 17 N72-22535 * #
US-PATENT-CLASS-75-170 ..... c 37 N77-19458 * #
US-PATENT-CLASS-75-170 ..... c 26 N77-20201 * #
US-PATENT-CLASS-75-170 ..... c 26 N77-32279 * #
US-PATENT-CLASS-75-170 ..... c 26 N77-32280 * #
US-PATENT-CLASS-75-170 ..... c 26 N78-18183 * #
US-PATENT-CLASS-75-171 ..... c 17 N70-33283 *
US-PATENT-CLASS-75-171 ..... c 17 N70-36616 * #
US-PATENT-CLASS-75-171 ..... c 17 N71-16026 *
US-PATENT-CLASS-75-171 ..... c 17 N73-32415 * #
US-PATENT-CLASS-75-172 ..... c 17 N71-23365 *
US-PATENT-CLASS-75-173 ..... c 26 N75-27126 * #
US-PATENT-CLASS-75-173 ..... c 26 N75-27127 * #
US-PATENT-CLASS-75-178R ..... c 04 N76-20114 * #
US-PATENT-CLASS-75-178R ..... c 26 N80-23419 * #
US-PATENT-CLASS-75-20F ..... c 15 N72-11387 *
US-PATENT-CLASS-75-200 ..... c 26 N74-10521 * #
US-PATENT-CLASS-75-200 ..... c 37 N74-13179 * #
US-PATENT-CLASS-75-200 ..... c 24 N75-13032 * #
US-PATENT-CLASS-75-200 ..... c 37 N75-26371 * #
US-PATENT-CLASS-75-200 ..... c 24 N80-33482 * #
US-PATENT-CLASS-75-202 ..... c 17 N71-15468 *
US-PATENT-CLASS-75-203 ..... c 27 N79-14213 * #
US-PATENT-CLASS-75-204 ..... c 18 N71-22894 *
US-PATENT-CLASS-75-205 ..... c 27 N79-14213 * #
US-PATENT-CLASS-75-206 ..... c 15 N72-25448 * #
US-PATENT-CLASS-75-206 ..... c 27 N79-14213 * #
US-PATENT-CLASS-75-208R ..... c 37 N75-26371 * #
US-PATENT-CLASS-75-208 ..... c 18 N72-25539 * #
US-PATENT-CLASS-75-211 ..... c 18 N72-25539 * #
US-PATENT-CLASS-75-212 ..... c 37 N75-26371 * #
US-PATENT-CLASS-75-212 ..... c 27 N79-14213 * #
US-PATENT-CLASS-75-213 ..... c 15 N72-25448 * #
US-PATENT-CLASS-75-213 ..... c 37 N74-13179 * #
US-PATENT-CLASS-75-214 ..... c 37 N74-13179 * #
US-PATENT-CLASS-75-214 ..... c 37 N75-26371 * #
US-PATENT-CLASS-75-222 ..... c 28 N70-38197 * #
US-PATENT-CLASS-75-222 ..... c 37 N75-26371 * #
US-PATENT-CLASS-75-222 ..... c 24 N80-33482 * #
US-PATENT-CLASS-75-225 ..... c 34 N76-27515 * #
US-PATENT-CLASS-75-226 ..... c 18 N72-25539 * #
US-PATENT-CLASS-75-226 ..... c 26 N74-10521 * #
US-PATENT-CLASS-75-226 ..... c 37 N74-13179 * #
US-PATENT-CLASS-75-226 ..... c 27 N79-14213 * #
US-PATENT-CLASS-75-229 ..... c 27 N78-17206 * #
US-PATENT-CLASS-75-239 ..... c 27 N78-17206 * #
US-PATENT-CLASS-75-241 ..... c 27 N78-17206 * #
US-PATENT-CLASS-75-25 ..... c 28 N81-15119 * #
US-PATENT-CLASS-75-63 ..... c 15 N71-27184 *
US-PATENT-CLASS-75-65R ..... c 24 N77-27187 * #
US-PATENT-CLASS-75-66 ..... c 17 N71-26773 *
US-PATENT-CLASS-75-66 ..... c 06 N73-13129 * #
US-PATENT-CLASS-75-66 ..... c 17 N73-28573 * #
US-PATENT-CLASS-77.5AQ ..... c 27 N81-15104 * #
US-PATENT-CLASS-77.5CH ..... c 27 N81-15104 * #
US-PATENT-CLASS-78-1 ..... c 15 N70-33330 *
US-PATENT-CLASS-788-704 ..... c 36 N79-18307 * #
US-PATENT-CLASS-8-DIG.12 ..... c 27 N80-26446 * #
US-PATENT-CLASS-8-DIG.18 ..... c 27 N80-26446 * #
US-PATENT-CLASS-8-115.5 ..... c 27 N80-26446 * #
US-PATENT-CLASS-8-150 ..... c 09 N82-29330 * #
US-PATENT-CLASS-8-3 ..... c 51 N77-27677 * #
US-PATENT-CLASS-8-94.11 ..... c 51 N77-27677 * #
US-PATENT-CLASS-8-94.12 ..... c 18 N71-15545 *
US-PATENT-CLASS-81-119 ..... c 37 N79-14383 * #
US-PATENT-CLASS-81-177G ..... c 37 N85-21649 * #
US-PATENT-CLASS-81-180B ..... c 37 N79-14383 * #
US-PATENT-CLASS-81-3R ..... c 15 N71-29133 *
US-PATENT-CLASS-81-55 ..... c 37 N83-36482 * #
US-PATENT-CLASS-81-56 ..... c 37 N76-20480 * #
US-PATENT-CLASS-81-57.31 ..... c 37 N76-20480 * #
US-PATENT-CLASS-81-57.38 ..... c 15 N73-30457 * #
US-PATENT-CLASS-81-57.38 ..... c 37 N83-36482 * #
US-PATENT-CLASS-81-63.1 ..... c 15 N71-17805 *
US-PATENT-CLASS-81-9.5R ..... c 37 N79-10419 * #
US-PATENT-CLASS-81-90B ..... c 37 N79-14383 * #
US-PATENT-CLASS-82-1.2 ..... c 37 N81-14319 * #
US-PATENT-CLASS-82-1C ..... c 37 N81-14319 * #
US-PATENT-CLASS-82-14 ..... c 15 N71-22722 *
US-PATENT-CLASS-82-24R ..... c 14 N72-16283 * #
US-PATENT-CLASS-82-36R ..... c 37 N81-14319 * #
US-PATENT-CLASS-82-90 ..... c 37 N85-21650 * #
US-PATENT-CLASS-83-152 ..... c 76 N80-18951 * #
US-PATENT-CLASS-83-451 ..... c 37 N77-14478 * #
US-PATENT-CLASS-83-452 ..... c 39 N74-13131 * #
US-PATENT-CLASS-83-467R ..... c 37 N77-14478 * #
US-PATENT-CLASS-83-467 ..... c 15 N71-22798 *
US-PATENT-CLASS-83-522 ..... c 15 N72-27485 * #
US-PATENT-CLASS-83-562 ..... c 15 N72-27485 * #
US-PATENT-CLASS-83-563 ..... c 15 N72-27485 * #
US-PATENT-CLASS-83-588 ..... c 15 N72-27485 * #
US-PATENT-CLASS-83-602 ..... c 39 N74-13131 * #
US-PATENT-CLASS-83-664 ..... c 37 N85-21650 * #
US-PATENT-CLASS-83-676 ..... c 37 N85-21650 * #
US-PATENT-CLASS-83-820 ..... c 37 N80-29703 * #
US-PATENT-CLASS-83-870 ..... c 76 N80-18951 * #
US-PATENT-CLASS-83-8 ..... c 15 N72-27485 * #
US-PATENT-CLASS-83-917 ..... c 39 N74-13131 * #
US-PATENT-CLASS-85-1 ..... c 15 N72-22488 * #
US-PATENT-CLASS-85-33 ..... c 15 N71-15922 *
US-PATENT-CLASS-85-33 ..... c 15 N71-21489 *
US-PATENT-CLASS-85-3 ..... c 15 N71-17653 *
US-PATENT-CLASS-85-5B ..... c 15 N72-11385 *
US-PATENT-CLASS-85-7 ..... c 15 N71-23254 *
US-PATENT-CLASS-859R ..... c 27 N81-15104 * #
US-PATENT-CLASS-86-1R ..... c 28 N77-10213 * #
US-PATENT-CLASS-86-1R ..... c 20 N77-17143 * #
US-PATENT-CLASS-86-1 ..... c 28 N71-26779 *
US-PATENT-CLASS-86-20.2 ..... c 28 N71-26779 *
US-PATENT-CLASS-86-20R ..... c 20 N77-17143 * #
US-PATENT-CLASS-88-14 ..... c 14 N70-34298 * #
US-PATENT-CLASS-88-14 ..... c 14 N70-40003 * #
US-PATENT-CLASS-88-14 ..... c 14 N70-41946 * #
US-PATENT-CLASS-88-14 ..... c 14 N70-41955 * #
US-PATENT-CLASS-88-14 ..... c 09 N71-22999 *
US-PATENT-CLASS-88-16 ..... c 14 N70-33254 *
US-PATENT-CLASS-88-1 ..... c 21 N70-35427 * #
US-PATENT-CLASS-88-1 ..... c 21 N71-22880 *
US-PATENT-CLASS-88-24 ..... c 23 N71-21882 *
US-PATENT-CLASS-89-1.5G ..... c 08 N82-32373 * #
US-PATENT-CLASS-89-1.57 ..... c 37 N85-30334 * #
US-PATENT-CLASS-89-1.5 ..... c 31 N71-15675 *
US-PATENT-CLASS-89-1.5 ..... c 15 N71-24600 *
US-PATENT-CLASS-89-1.7 ..... c 11 N70-38202 * #
US-PATENT-CLASS-89-1.7 ..... c 30 N70-40353 * #
US-PATENT-CLASS-89-1.7 ..... c 03 N71-12258 * #
US-PATENT-CLASS-89-1.7 ..... c 03 N71-12259 * #
US-PATENT-CLASS-89-1.801 ..... c 20 N76-22296 * #
US-PATENT-CLASS-89-1.806 ..... c 15 N71-24043 *
US-PATENT-CLASS-89-1.811 ..... c 15 N72-17455 * #
US-PATENT-CLASS-89-1B ..... c 01 N83-35992 * #
US-PATENT-CLASS-89-1 ..... c 03 N70-34667 * #
US-PATENT-CLASS-89-1 ..... c 15 N71-16078 *
US-PATENT-CLASS-89-8 ..... c 11 N71-18578 *
US-PATENT-CLASS-89-8 ..... c 11 N73-32152 * #
US-PATENT-CLASS-89-8 ..... c 75 N76-14931 * #
US-PATENT-CLASS-89-8 ..... c 75 N76-17951 * #
US-PATENT-CLASS-89-8 ..... c 09 N79-21084 * #
US-PATENT-CLASS-9-11A ..... c 02 N73-26006 * #
US-PATENT-CLASS-9-11A ..... c 54 N74-14845 * #
US-PATENT-CLASS-9-11 ..... c 05 N70-34857 * #
US-PATENT-CLASS-9-2A ..... c 02 N73-26006 * #
US-PATENT-CLASS-9-312 ..... c 05 N71-22748 *
US-PATENT-CLASS-9-316 ..... c 05 N70-36493 * #
US-PATENT-CLASS-9-3 ..... c 02 N73-26006 * #
US-PATENT-CLASS-9-8 ..... c 03 N70-36778 * #
US-PATENT-CLASS-9-9 ..... c 15 N71-24600 *
US-PATENT-CLASS-90-11 ..... c 15 N71-33518 *
US-PATENT-CLASS-90-12.5 ..... c 37 N74-25968 * #
US-PATENT-CLASS-90-12 ..... c 15 N71-22799 *
US-PATENT-CLASS-901-25 ..... c 37 N86-20789 * #
US-PATENT-CLASS-901-31 ..... c 37 N86-19603 * #
US-PATENT-CLASS-901-31 ..... c 37 N86-20789 * #
US-PATENT-CLASS-901-42 ..... c 37 N86-21850 * #
US-PATENT-CLASS-901-47 ..... c 37 N86-21850 * #
US-PATENT-CLASS-901-50 ..... c 37 N86-19603 * #
US-PATENT-CLASS-91-186 ..... c 05 N73-32014 * #
US-PATENT-CLASS-91-325 ..... c 37 N81-32510 * #
US-PATENT-CLASS-91-341R ..... c 37 N81-32510 * #
US-PATENT-CLASS-91-361 ..... c 15 N71-27754 *
US-PATENT-CLASS-91-363A ..... c 15 N73-13466 * #
US-PATENT-CLASS-91-390 ..... c 15 N71-27147 *
US-PATENT-CLASS-91-390 ..... c 15 N71-27754 *
US-PATENT-CLASS-91-410 ..... c 37 N81-32510 * #
US-PATENT-CLASS-91-448 ..... c 15 N71-27754 *
US-PATENT-CLASS-91-448 ..... c 15 N73-13466 * #
US-PATENT-CLASS-91-461 ..... c 15 N71-27147 *
US-PATENT-CLASS-92-130R ..... c 37 N81-33483 * #
US-PATENT-CLASS-92-37 ..... c 37 N82-24493 * #
US-PATENT-CLASS-92-49 ..... c 14 N73-13418 * #
US-PATENT-CLASS-92-94 ..... c 32 N70-41370 * #
US-PATENT-CLASS-92-98R ..... c 31 N85-21404 * #
US-PATENT-CLASS-93-1 ..... c 15 N70-33180 *
US-PATENT-CLASS-94.9N ..... c 27 N81-15104 * #
US-PATENT-CLASS-95-1.1 ..... c 14 N72-18411 * #
US-PATENT-CLASS-95-1.1 ..... c 14 N73-26431 * #
US-PATENT-CLASS-95-11.5R ..... c 14 N73-19419 * #
US-PATENT-CLASS-95-11.5 ..... c 14 N73-32319 * #
US-PATENT-CLASS-95-11R ..... c 14 N73-19419 * #
US-PATENT-CLASS-95-11 ..... c 14 N71-18465 *
US-PATENT-CLASS-95-11 ..... c 16 N71-33410 *
US-PATENT-CLASS-95-11 ..... c 14 N73-32319 * #
US-PATENT-CLASS-95-12.5 ..... c 31 N72-25842 * #
US-PATENT-CLASS-95-12.5 ..... c 14 N73-14427 * #
US-PATENT-CLASS-95-12 ..... c 14 N73-33361 * #
US-PATENT-CLASS-95-18 ..... c 14 N72-20380 * #
US-PATENT-CLASS-95-42 ..... c 14 N73-32322 * #
US-PATENT-CLASS-95-44 ..... c 14 N71-26474 *
US-PATENT-CLASS-95-53EA ..... c 33 N74-20861 * #
US-PATENT-CLASS-95-53 ..... c 15 N71-21060 *
US-PATENT-CLASS-95-58 ..... c 14 N70-40273 * #
US-PATENT-CLASS-95-59 ..... c 14 N73-14427 * #
US-PATENT-CLASS-95-89R ..... c 35 N74-15831 * #
US-PATENT-CLASS-96-27R ..... c 35 N79-10389 * #
US-PATENT-CLASS-96-36.2 ..... c 06 N72-21094 * #
US-PATENT-CLASS-96-36.2 ..... c 15 N72-25452 * #
US-PATENT-CLASS-96-38.3 ..... c 35 N74-26946 * #
US-PATENT-CLASS-96-49 ..... c 14 N71-17574 *
US-PATENT-CLASS-96-60R ..... c 35 N79-10389 * #
US-PATENT-CLASS-96-79 ..... c 35 N74-26946 * #
US-PATENT-CLASS-96-87A ..... c 27 N78-14164 * #
US-PATENT-CLASS-96-90PC ..... c 14 N72-22443 * #
US-PATENT-CLASS-98-1.5 ..... c 44 N78-32539 * #
US-PATENT-CLASS-98-1 ..... c 54 N78-17679 * #
US-PATENT-CLASS-98-39 ..... c 31 N74-27902 * #
US-PATENT-CLASS-99-80PS ..... c 05 N72-33096 * #
US-PATENT-DES-228,688 ..... c 05 N74-10907 * #

US-PATENT-RE-26,548 ..... c 07 N71-12389 * #
US-PATENT-RE-28,921 ..... c 52 N76-30793 * #

US-PATENT-2,837,706 ..... c 15 N71-28952 *
US-PATENT-2,898,889 ..... c 02 N71-29128 *
US-PATENT-2,903,307 ..... c 15 N71-29136 *
US-PATENT-2,926,123 ..... c 33 N71-29151 *
US-PATENT-2,934,331 ..... c 15 N70-33382 *
US-PATENT-2,940,259 ..... c 28 N70-33241 *
US-PATENT-2,944,316 ..... c 15 N71-16076 *
US-PATENT-2,945,667 ..... c 15 N70-33376 *
US-PATENT-2,956,772 ..... c 33 N71-29152 *
US-PATENT-2,960,002 ..... c 14 N70-41946 * #
US-PATENT-2,971,837 ..... c 17 N70-33283 *
US-PATENT-2,974,925 ..... c 28 N70-33372 *
US-PATENT-2,984,735 ..... c 11 N70-33329 *
US-PATENT-2,991,671 ..... c 15 N70-33330 *
US-PATENT-2,991,961 ..... c 02 N70-33332 *
US-PATENT-2,996,212 ..... c 31 N71-17680 *
US-PATENT-2,997,274 ..... c 28 N71-29154 *
US-PATENT-3,001,363 ..... c 28 N70-33331 *
US-PATENT-3,001,395 ..... c 14 N70-33386 *
US-PATENT-3,001,739 ..... c 03 N70-33343 *
US-PATENT-3,004,189 ..... c 37 N75-29426 * #
US-PATENT-3,004,735 ..... c 14 N70-33322 *
US-PATENT-3,005,081 ..... c 09 N70-33312 *
US-PATENT-3,005,339 ..... c 11 N70-33287 *
US-PATENT-3,008,229 ..... c 15 N70-33311 *
US-PATENT-3,010,372 ..... c 15 N70-33180 *
US-PATENT-3,011,760 ..... c 15 N70-33226 *
US-PATENT-3,012,400 ..... c 28 N70-33374 *
US-PATENT-3,012,407 ..... c 15 N70-33323 *
US-PATENT-3,016,693 ..... c 28 N70-33356 *
US-PATENT-3,016,863 ..... c 12 N70-33305 *
US-PATENT-3,022,672 ..... c 14 N70-34816 * #
US-PATENT-3,024,659 ..... c 14 N70-34820 * #
US-PATENT-3,028,122 ..... c 02 N70-33286 *
US-PATENT-3,028,126 ..... c 21 N70-33279 *
US-PATENT-3,028,128 ..... c 31 N70-33242 *
US-PATENT-3,035,333 ..... c 28 N70-41818 * #
US-PATENT-3,038,077 ..... c 21 N70-33181 *
US-PATENT-3,038,175 ..... c 05 N70-33285 *
US-PATENT-3,041,587 ..... c 14 N70-33179 *
US-PATENT-3,041,924 ..... c 14 N70-33254 *
US-PATENT-3,045,424 ..... c 28 N70-40367 * #
US-PATENT-3,049,876 ..... c 28 N70-33284 *
US-PATENT-3,053,484 ..... c 02 N70-33255 *
US-PATENT-3,057,597 ..... c 15 N70-33264 *
US-PATENT-3,059,220 ..... c 09 N70-33182 *
US-PATENT-3,063,291 ..... c 11 N70-33278 *
US-PATENT-3,064,928 ..... c 02 N70-33266 *
US-PATENT-3,067,573 ..... c 28 N70-39899 * #
US-PATENT-3,068,658 ..... c 15 N70-34247 * #
US-PATENT-3,069,123 ..... c 14 N70-39898 * #
US-PATENT-3,070,330 ..... c 21 N70-34539 * #
US-PATENT-3,070,349 ..... c 28 N70-39895 * #
US-PATENT-3,070,407 ..... c 15 N70-39896 * #
US-PATENT-3,072,574 ..... c 18 N70-39897 * #
US-PATENT-3,076,065 ..... c 09 N70-39915 * #
US-PATENT-3,077,599 ..... c 07 N70-40202 * #
US-PATENT-3,079,113 ..... c 02 N70-38009 * #
US-PATENT-3,080,711 ..... c 28 N70-38711 * #
US-PATENT-3,083,611 ..... c 21 N70-35427 * #
US-PATENT-3,084,421 ..... c 17 N70-38490 * #
US-PATENT-3,085,165 ..... c 09 N70-34819 * #
US-PATENT-3,087,692 ..... c 02 N70-34178 * #
US-PATENT-3,088,441 ..... c 15 N70-35409 * #
US-PATENT-3,090,212 ..... c 33 N70-37979 * #
US-PATENT-3,090,580 ..... c 31 N70-37924 * #
US-PATENT-3,093,000 ..... c 15 N70-37925 * #
US-PATENT-3,093,346 ..... c 31 N70-37938 * #
US-PATENT-3,098,630 ..... c 02 N70-37939 * #
US-PATENT-3,100,294 ..... c 09 N70-38998 * #
US-PATENT-3,100,990 ..... c 14 N70-34813 * #
US-PATENT-3,102,948 ..... c 15 N70-34814 * #
US-PATENT-3,104,079 ..... c 31 N70-37986 * #
US-PATENT-3,104,082 ..... c 02 N70-38011 * #
US-PATENT-3,105,515 ..... c 15 N70-38603 * #
US-PATENT-3,106,603 ..... c 09 N70-38201 * #
US-PATENT-3,108,171 ..... c 33 N70-34812 * #
US-PATENT-3,110,318 ..... c 12 N70-38997 * #
US-PATENT-3,112,672 ..... c 11 N70-38202 * #
US-PATENT-3,115,630 ..... c 31 N70-37981 * #
US-PATENT-3,118,100 ..... c 03 N71-29129 *
US-PATENT-3,119,086 ..... c 35 N79-33449 * #
US-PATENT-3,119,232 ..... c 28 N70-37980 * #
US-PATENT-3,120,101 ..... c 28 N70-34860 * #
US-PATENT-3,120,361 ..... c 31 N70-38010 * #
US-PATENT-3,120,738 ..... c 28 N70-38249 * #
US-PATENT-3,121,309 ..... c 28 N70-35381 * #
US-PATENT-3,122,000 ..... c 15 N70-38020 * #
US-PATENT-3,122,098 ..... c 28 N70-38181 * #
US-PATENT-3,122,885 ..... c 28 N70-38710 * #
US-PATENT-3,123,248 ..... c 11 N70-38182 * #
US-PATENT-3,123,418 ..... c 37 N79-33467 * #
US-PATENT-3,123,692 ..... c 33 N79-33393 * #
US-PATENT-3,127,157 ..... c 15 N70-38225 * #
US-PATENT-3,128,389 ..... c 09 N70-38604 * #
US-PATENT-3,128,845 ..... c 15 N70-38601 * #
US-PATENT-3,130,940 ..... c 33 N70-33344 *
US-PATENT-3,131,040 ..... c 37 N79-21345 * #
US-PATENT-3,132,342 ..... c 07 N70-38200 * #
US-PATENT-3,132,476 ..... c 28 N70-34294 * #
US-PATENT-3,132,479 ..... c 15 N71-28951 *
US-PATENT-3,132,903 ..... c 15 N70-38620 * #
US-PATENT-3,134,389 ..... c 37 N79-33468 * #
US-PATENT-3,135,089 ..... c 28 N70-38504 * #
US-PATENT-3,135,090 ..... c 28 N70-38505 * #
US-PATENT-3,136,123 ..... c 28 N70-38199 * #
US-PATENT-3,138,837 ..... c 17 N70-38198 * #
US-PATENT-3,139,725 ..... c 28 N70-38645 * #
US-PATENT-3,140,728 ..... c 15 N70-36908 * #
US-PATENT-3,141,340 ..... c 11 N70-38196 * #
US-PATENT-3,141,769 ..... c 28 N70-38197 * #
US-PATENT-3,141,932 ..... c 03 N70-38713 * #
US-PATENT-3,143,321 ..... c 15 N70-34850 * #
US-PATENT-3,143,651 ..... c 14 N70-40240 * #
US-PATENT-3,144,219 ..... c 31 N70-38676 * #
US-PATENT-3,144,999 ..... c 02 N70-34856 * #
US-PATENT-3,145,874 ..... c 11 N71-15960 *
US-PATENT-3,147,422 ..... c 09 N70-38712 * #
US-PATENT-3,149,897 ..... c 09 N70-36494 * #
US-PATENT-3,150,329 ..... c 09 N70-38995 * #
US-PATENT-3,150,387 ..... c 03 N70-36778 * #
US-PATENT-3,152,344 ..... c 05 N70-36493 * #
US-PATENT-3,155,992 ..... c 05 N70-34857 * #
US-PATENT-3,156,090 ..... c 28 N70-37245 * #
US-PATENT-3,157,529 ..... c 18 N70-36400 * #
US-PATENT-3,158,172 ..... c 15 N70-34817 * #
US-PATENT-3,158,336 ..... c 31 N70-36410 * #
US-PATENT-3,158,764 ..... c 03 N70-36803 * #
US-PATENT-3,159,967 ..... c 28 N70-36802 * #
US-PATENT-3,160,825 ..... c 14 N70-35220 * #
US-PATENT-3,160,950 ..... c 15 N70-36409 * #
US-PATENT-3,162,012 ..... c 15 N70-36411 * #
US-PATENT-3,163,935 ..... c 14 N70-36907 * #
US-PATENT-3,164,222 ..... c 15 N70-34861 * #
US-PATENT-3,164,369 ..... c 15 N70-36412 * #
US-PATENT-3,165,356 ..... c 05 N70-35152 * #
US-PATENT-3,166,834 ..... c 15 N70-36901 * #
US-PATENT-3,167,426 ..... c 17 N70-36616 * #
US-PATENT-3,168,827 ..... c 14 N70-36807 * #
US-PATENT-3,169,001 ..... c 02 N70-36825 * #
US-PATENT-3,169,613 ..... c 15 N70-36947 * #
US-PATENT-3,169,725 ..... c 31 N70-34296 * #
US-PATENT-3,170,286 ..... c 15 N70-36535 * #
US-PATENT-3,170,290 ..... c 28 N70-36910 * #
US-PATENT-3,170,295 ..... c 27 N71-28929 *
US-PATENT-3,170,324 ..... c 14 N70-36824 * #
US-PATENT-3,170,471 ..... c 32 N70-36536 * #
US-PATENT-3,170,486 ..... c 15 N70-36492 * #
US-PATENT-3,170,605 ..... c 15 N70-38996 * #
US-PATENT-3,170,657 ..... c 02 N70-34858 * #
US-PATENT-3,170,660 ..... c 02 N70-36804 * #
US-PATENT-3,170,773 ..... c 17 N70-33288 *
US-PATENT-3,171,060 ..... c 25 N70-33267 *
US-PATENT-3,171,081 ..... c 14 N70-35666 * #
US-PATENT-3,172,097 ..... c 08 N70-35423 * #
US-PATENT-3,173,246 ..... c 28 N70-33265 *
US-PATENT-3,173,251 ..... c 28 N70-33375 *
US-PATENT-3,173,801 ..... c 32 N79-19186 * #
US-PATENT-3,174,278 ..... c 25 N70-36946 * #
US-PATENT-3,174,279 ..... c 28 N70-36806 * #
US-PATENT-3,174,827 ..... c 26 N70-36805 * #
US-PATENT-3,175,789 ..... c 31 N70-36654 * #
US-PATENT-3,176,222 ..... c 14 N70-36618 * #
US-PATENT-3,176,499 ..... c 14 N70-35368 * #
US-PATENT-3,176,933 ..... c 33 N70-36617 * #
US-PATENT-3,177,933 ..... c 33 N70-36847 * #
US-PATENT-3,178,883 ..... c 21 N70-36938 * #
US-PATENT-3,180,264 ..... c 33 N70-36846 * #
US-PATENT-3,180,587 ..... c 21 N70-36943 * #
US-PATENT-3,181,821 ..... c 31 N70-36845 * #
US-PATENT-3,182,496 ..... c 11 N70-36913 * #
US-PATENT-3,183,506 ..... c 07 N70-36911 * #
US-PATENT-3,185,023 ..... c 14 N70-34298 * #
US-PATENT-3,187,583 ..... c 11 N70-38675 * #
US-PATENT-3,188,472 ..... c 21 N70-34297 * #
US-PATENT-3,188,844 ..... c 15 N70-34249 * #
US-PATENT-3,189,299 ..... c 21 N70-34295 * #
US-PATENT-3,189,535 ..... c 15 N70-34967 * #
US-PATENT-3,189,726 ..... c 33 N70-34545 * #
US-PATENT-3,189,784 ..... c 33 N75-27250 * #
US-PATENT-3,189,794 ..... c 09 N70-34502 * #
US-PATENT-3,189,864 ..... c 09 N70-34596 * #
US-PATENT-3,190,124 ..... c 35 N79-33450 * #
US-PATENT-3,191,316 ..... c 31 N70-34966 * #
US-PATENT-3,191,379 ..... c 27 N70-35534 * #
US-PATENT-3,191,907 ..... c 15 N70-34859 * #
US-PATENT-3,192,730 ..... c 06 N70-34946 * #
US-PATENT-3,193,883 ..... c 27 N70-34783 * #
US-PATENT-3,194,060 ..... c 14 N70-34794 * #
US-PATENT-3,194,525 ..... c 11 N70-35383 * #
US-PATENT-3,194,951 ..... c 08 N70-34778 * #
US-PATENT-3,196,261 ..... c 08 N70-34787 * #
US-PATENT-3,196,362 ..... c 09 N70-35440 * #
US-PATENT-3,196,557 ..... c 11 N70-34815 * #
US-PATENT-3,196,558 ..... c 14 N70-35394 * #
US-PATENT-3,196,598 ..... c 28 N70-34788 * #
US-PATENT-3,196,675 ..... c 14 N70-34818 * #
US-PATENT-3,196,690 ..... c 11 N70-34786 * #
US-PATENT-3,197,616 ..... c 14 N71-28958 *
US-PATENT-3,198,955 ..... c 08 N70-34743 * #
US-PATENT-3,198,994 ..... c 26 N73-28710 * #
US-PATENT-3,199,340 ..... c 14 N70-34799 * #
US-PATENT-3,199,343 ..... c 11 N70-34844 * #
US-PATENT-3,199,931 ..... c 15 N70-34664 * #
US-PATENT-3,200,706 ..... c 03 N70-34667 * #
US-PATENT-3,201,560 ..... c 33 N70-34540 * #
US-PATENT-3,201,635 ..... c 25 N70-34661 * #
US-PATENT-3,201,980 ..... c 14 N70-40203 * #
US-PATENT-3,202,381 ..... c 31 N70-34176 * #
US-PATENT-3,202,398 ..... c 28 N71-28928 *
US-PATENT-3,202,844 ..... c 03 N70-34134 * #
US-PATENT-3,202,915 ..... c 14 N70-38602 * #
US-PATENT-3,202,998 ..... c 31 N70-34135 * #
US-PATENT-3,204,447 ..... c 14 N70-34156 * #
US-PATENT-3,204,889 ..... c 03 N70-34157 * #
US-PATENT-3,205,361 ..... c 14 N70-34158 * #
US-PATENT-3,205,362 ..... c 21 N70-35089 * #
US-PATENT-3,205,381 ..... c 03 N70-35408 * #
US-PATENT-3,206,141 ..... c 21 N70-35395 * #
US-PATENT-3,206,897 ..... c 18 N75-27040 * #
US-PATENT-3,208,215 ..... c 28 N70-34162 * #
US-PATENT-3,208,272 ..... c 14 N70-34161 * #
US-PATENT-3,208,694 ..... c 02 N70-34160 * #
US-PATENT-3,208,707 ..... c 31 N70-34159 * #
US-PATENT-3,209,360 ..... c 09 N70-35219 * #
US-PATENT-3,209,361 ..... c 09 N70-35425 * #
US-PATENT-3,210,927 ..... c 28 N70-34175 * #
US-PATENT-3,211,169 ..... c 15 N70-35087 * #
US-PATENT-3,211,414 ..... c 15 N70-35407 * #
US-PATENT-3,212,096 ..... c 09 N70-35382 * #
US-PATENT-3,212,259 ..... c 28 N71-29153 *
US-PATENT-3,212,325 ..... c 14 N70-34705 * #
US-PATENT-3,212,564 ..... c 33 N71-29052 *
US-PATENT-3,215,313 ..... c 31 N79-21225 * #
US-PATENT-3,215,572 ..... c 12 N70-40124 * #
US-PATENT-3,215,842 ..... c 16 N71-28963 *
US-PATENT-3,216,007 ..... c 08 N70-40125 * #
US-PATENT-3,217,624 ..... c 14 N70-40273 * #
US-PATENT-3,218,479 ..... c 09 N70-40272 * #
US-PATENT-3,218,547 ..... c 09 N70-40123 * #
US-PATENT-3,218,850 ..... c 14 N70-40400 * #
US-PATENT-3,219,250 ..... c 15 N70-40204 * #
US-PATENT-3,219,365 ..... c 15 N71-28937 *
US-PATENT-3,219,997 ..... c 08 N73-28045 * #
US-PATENT-3,220,004 ..... c 30 N70-40309 * #
US-PATENT-3,221,547 ..... c 14 N70-40201 * #
US-PATENT-3,221,549 ..... c 14 N70-40157 * #
US-PATENT-3,223,374 ..... c 15 N70-40156 * #
US-PATENT-3,224,001 ..... c 07 N70-40063 * #
US-PATENT-3,224,173 ..... c 15 N70-40062 * #
US-PATENT-3,224,263 ..... c 15 N70-40180 * #
US-PATENT-3,224,336 ..... c 30 N70-40353 * #
US-PATENT-3,224,337 ..... c 09 N79-21084 * #
US-PATENT-3,228,492 ..... c 15 N70-40354 * #
US-PATENT-3,228,558 ..... c 14 N70-40233 * #
US-PATENT-3,229,099 ..... c 14 N70-40238 * #
US-PATENT-3,229,102 ..... c 14 N70-40239 * #
US-PATENT-3,229,139 ..... c 28 N70-39925 * #
US-PATENT-3,229,155 ..... c 25 N70-41628 * #
US-PATENT-3,229,463 ..... c 28 N70-39931 * #
US-PATENT-3,229,568 ..... c 14 N70-40003 * #
US-PATENT-3,229,636 ..... c 03 N70-39930 * #
US-PATENT-3,229,682 ..... c 09 N70-40234 * #
US-PATENT-3,229,689 ..... c 05 N70-39922 * #
US-PATENT-3,229,884 ..... c 15 N70-39924 * #
US-PATENT-3,229,905 ..... c 04 N78-17031 * #
US-PATENT-3,229,930 ..... c 30 N70-40016 * #
US-PATENT-3,230,053 ..... c 26 N70-40015 * #
US-PATENT-3,233,862 ..... c 37 N79-33469 * #
US-PATENT-3,236,066 ..... c 15 N71-28959 *
US-PATENT-3,237,253 ..... c 15 N71-15966 *
US-PATENT-3,238,345 ..... c 11 N71-15925 *
US-PATENT-3,238,413 ..... c 25 N71-29184 *
US-PATENT-3,238,715 ..... c 28 N71-14043 * #
US-PATENT-3,238,730 ..... c 03 N71-12260 * #
US-PATENT-3,238,774 ..... c 14 N71-14996 * #
US-PATENT-3,238,777 ..... c 14 N71-15598 * #
US-PATENT-3,239,660 ..... c 23 N71-30292 *
US-PATENT-3,242,716 ..... c 14 N71-15992 *
US-PATENT-3,243,154 ..... c 23 N71-15673 *
US-PATENT-3,243,791 ..... c 07 N71-11298 * #
US-PATENT-3,244,943 ..... c 15 N73-28516 * #
US-PATENT-3,249,012 ..... c 03 N71-12258 * #
US-PATENT-3,249,013 ..... c 03 N71-12259 * #
US-PATENT-3,251,053 ..... c 08 N71-12501 * #

US-PATENT-3,252,100 ..... c 10 N71-28960 *
US-PATENT-3,254,395 ..... c 28 N71-15658 *
US-PATENT-3,254,487 ..... c 28 N71-15659 *
US-PATENT-3,257,780 ..... c 15 N71-15968 *
US-PATENT-3,258,582 ..... c 02 N71-13421 * #
US-PATENT-3,258,687 ..... c 14 N71-15962 *
US-PATENT-3,258,831 ..... c 15 N71-15986 *
US-PATENT-3,258,912 ..... c 27 N71-15634 *
US-PATENT-3,258,918 ..... c 27 N71-15635 *
US-PATENT-3,260,055 ..... c 23 N71-15467 *
US-PATENT-3,260,204 ..... c 31 N71-15692 *
US-PATENT-3,260,326 ..... c 11 N71-28779 *
US-PATENT-3,261,210 ..... c 14 N71-15969 *
US-PATENT-3,262,025 ..... c 15 N73-32361 * #
US-PATENT-3,262,186 ..... c 15 N71-16052 *
US-PATENT-3,262,262 ..... c 28 N71-15661 *
US-PATENT-3,262,351 ..... c 15 N71-15922 *
US-PATENT-3,262,365 ..... c 31 N71-15675 *
US-PATENT-3,262,395 ..... c 15 N71-30028 *
US-PATENT-3,262,518 ..... c 05 N71-11199 * #
US-PATENT-3,262,655 ..... c 31 N71-15663 *
US-PATENT-3,262,694 ..... c 44 N79-19447 * #
US-PATENT-3,263,016 ..... c 33 N71-15625 *
US-PATENT-3,263,171 ..... c 09 N71-13530 * #
US-PATENT-3,263,610 ..... c 15 N71-13789 * #
US-PATENT-3,264,135 ..... c 15 N71-16075 *
US-PATENT-3,270,441 ..... c 11 N71-16028 *
US-PATENT-3,270,499 ..... c 28 N71-15660 *
US-PATENT-3,270,501 ..... c 31 N71-15647 * #
US-PATENT-3,270,503 ..... c 33 N71-15623 *
US-PATENT-3,270,504 ..... c 31 N71-15637 *
US-PATENT-3,270,505 ..... c 21 N71-15582 *
US-PATENT-3,270,512 ..... c 15 N71-15906 *
US-PATENT-3,270,565 ..... c 14 N71-30265 *
US-PATENT-3,270,756 ..... c 15 N71-15967 *
US-PATENT-3,270,802 ..... c 33 N71-24876 *
US-PATENT-3,270,835 ..... c 28 N70-41582 * #
US-PATENT-3,270,908 ..... c 31 N71-15664 * #
US-PATENT-3,270,985 ..... c 21 N71-15583 *
US-PATENT-3,270,986 ..... c 05 N71-12336 * #
US-PATENT-3,270,988 ..... c 01 N71-13410 * #
US-PATENT-3,270,989 ..... c 02 N71-11041 * #
US-PATENT-3,270,990 ..... c 28 N71-15563 *
US-PATENT-3,271,140 ..... c 17 N71-15644 * #
US-PATENT-3,271,181 ..... c 15 N71-16077 *
US-PATENT-3,271,532 ..... c 09 N71-16089 *
US-PATENT-3,271,558 ..... c 15 N71-15871 *
US-PATENT-3,271,594 ..... c 10 N71-28739 *
US-PATENT-3,271,620 ..... c 09 N71-12540 * #
US-PATENT-3,271,637 ..... c 26 N71-18064 *
US-PATENT-3,271,649 ..... c 10 N71-16030 *
US-PATENT-3,273,094 ..... c 23 N71-29049 *
US-PATENT-3,273,355 ..... c 33 N71-17897 *
US-PATENT-3,273,381 ..... c 32 N71-17645 *
US-PATENT-3,273,388 ..... c 09 N71-16086 *
US-PATENT-3,273,392 ..... c 23 N71-17802 *
US-PATENT-3,273,399 ..... c 12 N71-24692 *
US-PATENT-3,274,304 ..... c 26 N71-17818 *
US-PATENT-3,275,794 ..... c 37 N75-27376 * #
US-PATENT-3,276,251 ..... c 11 N71-15926 *
US-PATENT-3,276,376 ..... c 31 N71-17629 *
US-PATENT-3,276,602 ..... c 32 N71-17609 *
US-PATENT-3,276,679 ..... c 15 N71-16079 *
US-PATENT-3,276,722 ..... c 02 N71-16087 *
US-PATENT-3,276,726 ..... c 31 N71-16081 *
US-PATENT-3,276,865 ..... c 17 N71-16025 * #
US-PATENT-3,276,866 ..... c 17 N71-16026 *
US-PATENT-3,276,946 ..... c 23 N71-15978 *
US-PATENT-3,277,314 ..... c 10 N71-16042 *
US-PATENT-3,277,366 ..... c 10 N71-16057 *
US-PATENT-3,277,373 ..... c 07 N71-16088 *
US-PATENT-3,277,375 ..... c 07 N71-11284 * #
US-PATENT-3,277,458 ..... c 10 N71-16058 *
US-PATENT-3,277,486 ..... c 31 N71-10747 * #
US-PATENT-3,279,193 ..... c 33 N71-28852 *
US-PATENT-3,281,558 ..... c 33 N75-27249 * #
US-PATENT-3,281,963 ..... c 11 N71-10746 * #
US-PATENT-3,281,964 ..... c 11 N71-10776 * #
US-PATENT-3,281,965 ..... c 11 N71-10748 * #
US-PATENT-3,282,035 ..... c 11 N71-10777 * #
US-PATENT-3,282,091 ..... c 14 N71-10781 * #
US-PATENT-3,282,532 ..... c 31 N71-17729 *
US-PATENT-3,282,541 ..... c 31 N71-24750 *
US-PATENT-3,282,739 ..... c 03 N71-11053 * #
US-PATENT-3,282,740 ..... c 03 N71-11051 * #
US-PATENT-3,283,088 ..... c 10 N71-15909 *
US-PATENT-3,283,175 ..... c 10 N71-15910 *
US-PATENT-3,283,241 ..... c 14 N71-16014 *
US-PATENT-3,286,274 ..... c 05 N71-12335 * #
US-PATENT-3,286,531 ..... c 30 N71-17788 *
US-PATENT-3,286,629 ..... c 31 N71-17730 *
US-PATENT-3,286,630 ..... c 31 N71-10582 * #
US-PATENT-3,286,882 ..... c 27 N71-29155 *
US-PATENT-3,286,953 ..... c 21 N70-41856 * #
US-PATENT-3,286,957 ..... c 02 N70-41863 * #
US-PATENT-3,287,031 ..... c 15 N70-41808 * #
US-PATENT-3,287,174 ..... c 03 N70-41864 * #
US-PATENT-3,287,496 ..... c 14 N70-41807 * #
US-PATENT-3,287,582 ..... c 28 N70-41576 * #
US-PATENT-3,287,640 ..... c 09 N70-41655 * #
US-PATENT-3,287,660 ..... c 16 N70-41578 * #
US-PATENT-3,287,725 ..... c 07 N70-41680 * #
US-PATENT-3,289,205 ..... c 07 N70-41678 * #
US-PATENT-3,295,360 ..... c 14 N70-41681 * #
US-PATENT-3,295,366 ..... c 11 N70-41677 * #
US-PATENT-3,295,377 ..... c 14 N70-41682 * #
US-PATENT-3,295,386 ..... c 05 N70-41581 * #
US-PATENT-3,295,512 ..... c 03 N70-41580 * #
US-PATENT-3,295,545 ..... c 15 N70-41646 * #
US-PATENT-3,295,556 ..... c 32 N70-41579 * #
US-PATENT-3,295,594 ..... c 54 N82-29002 * #
US-PATENT-3,295,684 ..... c 28 N70-41447 * #
US-PATENT-3,295,699 ..... c 32 N70-41367 * #
US-PATENT-3,295,782 ..... c 14 N70-41647 * #
US-PATENT-3,295,790 ..... c 31 N70-41588 * #
US-PATENT-3,295,798 ..... c 02 N70-41589 * #
US-PATENT-3,295,808 ..... c 15 N70-41310 * #
US-PATENT-3,296,060 ..... c 18 N70-41583 * #
US-PATENT-3,296,526 ..... c 14 N70-41332 * #
US-PATENT-3,296,531 ..... c 07 N70-41331 * #
US-PATENT-3,298,175 ..... c 33 N71-29053 *
US-PATENT-3,298,182 ..... c 28 N70-41311 * #
US-PATENT-3,298,221 ..... c 14 N70-41330 * #
US-PATENT-3,298,285 ..... c 32 N70-41370 * #
US-PATENT-3,298,362 ..... c 05 N70-41329 * #
US-PATENT-3,298,582 ..... c 14 N71-28935 *
US-PATENT-3,299,364 ..... c 16 N71-15550 *
US-PATENT-3,299,431 ..... c 07 N71-28979 *
US-PATENT-3,299,913 ..... c 15 N71-15918 *
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US-PATENT-3,300,731 ..... c 07 N70-41372 * #
US-PATENT-3,300,847 ..... c 15 N70-41371 * #
US-PATENT-3,300,949 ..... c 05 N70-41297 * #
US-PATENT-3,300,981 ..... c 28 N70-41275 * #
US-PATENT-3,301,046 ..... c 14 N70-41366 * #
US-PATENT-3,301,315 ..... c 09 N70-41717 * #
US-PATENT-3,301,507 ..... c 31 N70-41631 * #
US-PATENT-3,301,511 ..... c 02 N70-41630 * #
US-PATENT-3,301,578 ..... c 15 N70-41629 * #
US-PATENT-3,302,023 ..... c 14 N70-41676 * #
US-PATENT-3,302,040 ..... c 09 N70-41675 * #
US-PATENT-3,302,569 ..... c 15 N70-41679 * #
US-PATENT-3,302,633 ..... c 05 N70-41819 * #
US-PATENT-3,302,662 ..... c 15 N70-41811 * #
US-PATENT-3,302,960 ..... c 15 N70-41829 * #
US-PATENT-3,303,304 ..... c 14 N70-41812 * #
US-PATENT-3,304,028 ..... c 31 N70-41855 * #
US-PATENT-3,304,718 ..... c 28 N70-41922 * #
US-PATENT-3,304,724 ..... c 31 N70-41948 * #
US-PATENT-3,304,729 ..... c 31 N70-41871 * #
US-PATENT-3,304,768 ..... c 32 N70-42003 * #
US-PATENT-3,304,773 ..... c 14 N70-41957 * #
US-PATENT-3,304,799 ..... c 03 N70-41954 * #
US-PATENT-3,304,865 ..... c 28 N70-41967 * #
US-PATENT-3,305,415 ..... c 27 N70-41897 * #
US-PATENT-3,305,636 ..... c 08 N70-41961 * #
US-PATENT-3,305,801 ..... c 10 N70-41964 * #
US-PATENT-3,305,810 ..... c 09 N70-41929 * #
US-PATENT-3,305,861 ..... c 21 N70-41930 * #
US-PATENT-3,305,870 ..... c 07 N71-15907 *
US-PATENT-3,306,134 ..... c 37 N78-17385 * #
US-PATENT-3,308,848 ..... c 12 N71-16031 *
US-PATENT-3,309,012 ..... c 33 N71-17610 *
US-PATENT-3,309,961 ..... c 15 N71-16078 *
US-PATENT-3,310,054 ..... c 08 N71-15908 *
US-PATENT-3,310,138 ..... c 12 N71-16894 *
US-PATENT-3,310,256 ..... c 31 N71-17679 *
US-PATENT-3,310,258 ..... c 31 N71-17691 *
US-PATENT-3,310,261 ..... c 02 N71-11038 * #
US-PATENT-3,310,262 ..... c 02 N71-12243 * #
US-PATENT-3,310,443 ..... c 24 N71-10560 * #
US-PATENT-3,310,699 ..... c 14 N73-32324 * #
US-PATENT-3,310,765 ..... c 33 N79-21264 * #
US-PATENT-3,310,978 ..... c 14 N71-10616 * #
US-PATENT-3,310,980 ..... c 11 N71-10604 * #
US-PATENT-3,311,315 ..... c 07 N71-10609 * #
US-PATENT-3,311,502 ..... c 03 N71-10608 * #
US-PATENT-3,311,510 ..... c 26 N71-10607 * #
US-PATENT-3,311,571 ..... c 27 N79-21190 * #
US-PATENT-3,311,748 ..... c 21 N71-10678 * #
US-PATENT-3,311,772 ..... c 09 N71-10618 * #
US-PATENT-3,311,832 ..... c 07 N71-10775 * #
US-PATENT-3,312,101 ..... c 14 N71-10774 * #
US-PATENT-3,313,204 ..... c 28 N73-24783 * #
US-PATENT-3,316,716 ..... c 28 N71-10780 * #
US-PATENT-3,316,752 ..... c 14 N71-10779 * #
US-PATENT-3,316,991 ..... c 14 N71-10773 * #
US-PATENT-3,317,180 ..... c 15 N71-10778 * #
US-PATENT-3,317,341 ..... c 18 N71-10772 * #
US-PATENT-3,317,352 ..... c 03 N71-10728 * #
US-PATENT-3,317,641 ..... c 15 N71-10672 * #
US-PATENT-3,317,731 ..... c 21 N71-10771 * #
US-PATENT-3,317,751 ..... c 09 N71-10673 * #
US-PATENT-3,317,797 ..... c 10 N71-28783 *
US-PATENT-3,317,832 ..... c 09 N71-10659 * #
US-PATENT-3,318,093 ..... c 15 N71-10658 * #
US-PATENT-3,318,096 ..... c 28 N71-28849 *
US-PATENT-3,318,343 ..... c 15 N71-10809 * #
US-PATENT-3,318,622 ..... c 15 N71-10799 * #
US-PATENT-3,319,175 ..... c 09 N71-10798 * #
US-PATENT-3,319,979 ..... c 15 N71-10782 * #
US-PATENT-3,320,669 ..... c 15 N70-42017 * #
US-PATENT-3,321,034 ..... c 15 N70-42034 * #
US-PATENT-3,321,154 ..... c 31 N70-42075 * #
US-PATENT-3,321,157 ..... c 02 N70-42016 * #
US-PATENT-3,321,159 ..... c 31 N70-42015 * #
US-PATENT-3,321,570 ..... c 15 N70-41960 * #
US-PATENT-3,321,628 ..... c 10 N70-41991 * #
US-PATENT-3,321,645 ..... c 10 N70-42032 * #
US-PATENT-3,321,922 ..... c 28 N70-41992 * #
US-PATENT-3,323,356 ..... c 15 N70-41993 * #
US-PATENT-3,323,362 ..... c 14 N70-41994 * #
US-PATENT-3,323,370 ..... c 05 N70-42000 * #
US-PATENT-3,323,386 ..... c 03 N70-42073 * #
US-PATENT-3,323,408 ..... c 14 N70-41955 * #
US-PATENT-3,323,484 ..... c 14 N70-42074 * #
US-PATENT-3,323,967 ..... c 15 N70-42033 * #
US-PATENT-3,324,370 ..... c 09 N71-10677 * #
US-PATENT-3,324,388 ..... c 14 N71-10797 * #
US-PATENT-3,324,423 ..... c 07 N71-10676 * #
US-PATENT-3,324,659 ..... c 28 N71-10574 * #
US-PATENT-3,325,229 ..... c 15 N71-10617 * #
US-PATENT-3,325,723 ..... c 10 N71-10578 * #
US-PATENT-3,325,749 ..... c 09 N71-28810 *
US-PATENT-3,326,043 ..... c 14 N71-10500 * #
US-PATENT-3,326,407 ..... c 15 N71-10577 * #
US-PATENT-3,327,298 ..... c 08 N71-21042 *
US-PATENT-3,327,991 ..... c 15 N71-21234 *
US-PATENT-3,328,624 ..... c 28 N71-28850 *
US-PATENT-3,329,375 ..... c 21 N71-21708 *
US-PATENT-3,329,918 ..... c 09 N71-21583 *
US-PATENT-3,330,052 ..... c 11 N71-21474 *
US-PATENT-3,330,082 ..... c 15 N71-21531 *
US-PATENT-3,330,510 ..... c 31 N71-28851 *
US-PATENT-3,330,549 ..... c 15 N71-21530 *
US-PATENT-3,331,071 ..... c 07 N71-28900 *
US-PATENT-3,331,246 ..... c 11 N71-21475 *
US-PATENT-3,331,255 ..... c 15 N71-21529 *
US-PATENT-3,331,404 ..... c 12 N71-21089 *
US-PATENT-3,331,951 ..... c 21 N71-21688 *
US-PATENT-3,333,152 ..... c 25 N71-21693 *
US-PATENT-3,333,788 ..... c 31 N71-21881 *
US-PATENT-3,334,225 ..... c 14 N73-32325 * #
US-PATENT-3,336,725 ..... c 15 N71-21528 *
US-PATENT-3,336,748 ..... c 25 N71-21694 *
US-PATENT-3,336,754 ..... c 28 N71-22983 *
US-PATENT-3,337,004 ..... c 14 N71-23092 *
US-PATENT-3,337,279 ..... c 05 N71-23080 *
US-PATENT-3,337,315 ..... c 18 N71-23088 *
US-PATENT-3,337,337 ..... c 18 N71-22894 *
US-PATENT-3,337,790 ..... c 12 N71-20896 *
US-PATENT-3,337,812 ..... c 09 N71-23097 *
US-PATENT-3,339,404 ..... c 14 N71-22765 *
US-PATENT-3,339,863 ..... c 14 N71-23040 *
US-PATENT-3,340,099 ..... c 03 N71-23006 *
US-PATENT-3,340,395 ..... c 14 N71-23041 *
US-PATENT-3,340,397 ..... c 11 N71-23042 *
US-PATENT-3,340,430 ..... c 09 N71-22796 *
US-PATENT-3,340,532 ..... c 10 N71-21473 *
US-PATENT-3,340,599 ..... c 09 N71-23027 *
US-PATENT-3,340,713 ..... c 15 N71-22723 *
US-PATENT-3,340,732 ..... c 02 N71-23007 *
US-PATENT-3,341,151 ..... c 31 N71-23009 *
US-PATENT-3,341,169 ..... c 15 N71-23024 *
US-PATENT-3,341,708 ..... c 16 N71-22895 *
US-PATENT-3,341,778 ..... c 07 N71-23098 *
US-PATENT-3,341,977 ..... c 15 N71-22705 *
US-PATENT-3,342,055 ..... c 15 N71-22797 *
US-PATENT-3,342,066 ..... c 11 N71-23030 *
US-PATENT-3,342,653 ..... c 15 N71-22713 *
US-PATENT-3,343,180 ..... c 05 N71-23159 *
US-PATENT-3,343,189 ..... c 05 N71-22748 *
US-PATENT-3,344,340 ..... c 09 N71-21449 *
US-PATENT-3,344,425 ..... c 10 N71-21483 *
US-PATENT-3,345,820 ..... c 28 N71-21822 *
US-PATENT-3,345,822 ..... c 27 N71-21819 *
US-PATENT-3,345,840 ..... c 15 N71-21536 *
US-PATENT-3,345,866 ..... c 11 N71-21481 *
US-PATENT-3,346,419 ..... c 03 N71-20895 *
US-PATENT-3,346,442 ..... c 18 N71-21651 *
US-PATENT-3,346,515 ..... c 06 N71-20905 *
US-PATENT-3,346,724 ..... c 15 N71-21179 *
US-PATENT-3,346,806 ..... c 14 N71-21090 *
US-PATENT-3,346,929 ..... c 15 N71-21076 *
US-PATENT-3,347,046 ..... c 33 N71-21507 *
US-PATENT-3,347,309 ..... c 33 N71-29046 *
US-PATENT-3,347,465 ..... c 18 N71-21068 *
US-PATENT-3,347,466 ..... c 28 N71-21493 *

US-PATENT-3,347,531 ..... c 15 N71-21177 *
US-PATENT-3,347,665 ..... c 17 N71-20743 *
US-PATENT-3,348,048 ..... c 14 N71-21088 *
US-PATENT-3,348,053 ..... c 10 N71-20782 *
US-PATENT-3,348,152 ..... c 10 N71-20841 *
US-PATENT-3,348,218 ..... c 10 N71-29135 *
US-PATENT-3,349,814 ..... c 33 N71-20834 *
US-PATENT-3,350,033 ..... c 14 N71-21082 *
US-PATENT-3,350,034 ..... c 31 N71-21064 *
US-PATENT-3,350,643 ..... c 07 N71-20791 *
US-PATENT-3,350,671 ..... c 09 N71-20842 *
US-PATENT-3,350,926 ..... c 14 N71-21091 *
US-PATENT-3,352,157 ..... c 14 N71-21072 *
US-PATENT-3,352,192 ..... c 15 N71-21489 *
US-PATENT-3,352,774 ..... c 37 N80-14395 * #
US-PATENT-3,353,359 ..... c 28 N71-20942 *
US-PATENT-3,354,098 ..... c 06 N71-20717 *
US-PATENT-3,354,320 ..... c 23 N71-21821 *
US-PATENT-3,354,462 ..... c 14 N71-21006 *
US-PATENT-3,355,861 ..... c 18 N71-20742 *
US-PATENT-3,355,948 ..... c 14 N71-21007 *
US-PATENT-3,356,320 ..... c 05 N71-20718 *
US-PATENT-3,356,549 ..... c 15 N71-21404 *
US-PATENT-3,356,885 ..... c 25 N71-20747 *
US-PATENT-3,356,917 ..... c 33 N79-21265 * #
US-PATENT-3,357,024 ..... c 12 N71-20815 *
US-PATENT-3,357,093 ..... c 15 N71-21078 *
US-PATENT-3,357,237 ..... c 33 N71-21586 *
US-PATENT-3,357,862 ..... c 03 N71-20904 *
US-PATENT-3,358,264 ..... c 09 N71-20851 *
US-PATENT-3,359,046 ..... c 15 N71-20739 *
US-PATENT-3,359,132 ..... c 09 N71-20705 *
US-PATENT-3,359,409 ..... c 07 N71-21476 *
US-PATENT-3,359,435 ..... c 15 N71-21311 *
US-PATENT-3,359,555 ..... c 09 N71-20864 *
US-PATENT-3,359,568 ..... c 54 N78-17680 * #
US-PATENT-3,359,819 ..... c 15 N71-21744 *
US-PATENT-3,359,855 ..... c 23 N71-21882 *
US-PATENT-3,360,798 ..... c 09 N71-20658 *
US-PATENT-3,360,864 ..... c 14 N71-24693 *
US-PATENT-3,360,972 ..... c 15 N71-24833 *
US-PATENT-3,360,980 ..... c 14 N71-20741 *
US-PATENT-3,360,988 ..... c 09 N71-20816 *
US-PATENT-3,361,045 ..... c 15 N71-21060 *
US-PATENT-3,361,067 ..... c 26 N71-21824 *
US-PATENT-3,361,400 ..... c 15 N71-20813 *
US-PATENT-3,361,666 ..... c 15 N71-21403 *
US-PATENT-3,361,985 ..... c 10 N71-20852 *
US-PATENT-3,364,311 ..... c 07 N71-20814 *
US-PATENT-3,364,366 ..... c 09 N71-28926 *
US-PATENT-3,364,578 ..... c 14 N71-21079 *
US-PATENT-3,364,631 ..... c 32 N71-21045 *
US-PATENT-3,364,777 ..... c 15 N71-20740 *
US-PATENT-3,364,813 ..... c 09 N71-22999 *
US-PATENT-3,365,657 ..... c 10 N71-22961 *
US-PATENT-3,365,665 ..... c 14 N71-23037 *
US-PATENT-3,365,897 ..... c 33 N71-28892 *
US-PATENT-3,365,930 ..... c 14 N71-22964 *
US-PATENT-3,365,941 ..... c 14 N71-22965 *
US-PATENT-3,366,886 ..... c 10 N71-22962 *
US-PATENT-3,366,894 ..... c 10 N71-23084 *
US-PATENT-3,367,114 ..... c 28 N71-23081 *
US-PATENT-3,367,121 ..... c 15 N71-23025 *
US-PATENT-3,367,182 ..... c 33 N71-23085 *
US-PATENT-3,367,224 ..... c 15 N71-22798 *
US-PATENT-3,367,271 ..... c 15 N71-24042 *
US-PATENT-3,367,308 ..... c 11 N71-22875 *
US-PATENT-3,367,445 ..... c 15 N71-23048 *
US-PATENT-3,368,486 ..... c 15 N71-22874 *
US-PATENT-3,369,222 ..... c 08 N71-22707 *
US-PATENT-3,369,223 ..... c 08 N71-22710 *
US-PATENT-3,369,564 ..... c 15 N71-23051 *
US-PATENT-3,370,039 ..... c 06 N71-28807 *
US-PATENT-3,372,588 ..... c 33 N71-29051 *
US-PATENT-3,373,016 ..... c 26 N75-27127 * #
US-PATENT-3,373,069 ..... c 15 N71-23052 *
US-PATENT-3,373,404 ..... c 08 N71-22749 *
US-PATENT-3,373,430 ..... c 09 N71-22888 *
US-PATENT-3,373,431 ..... c 07 N71-22750 *
US-PATENT-3,373,640 ..... c 15 N71-22722 *
US-PATENT-3,373,914 ..... c 15 N71-23050 *
US-PATENT-3,374,339 ..... c 08 N71-22897 *
US-PATENT-3,374,366 ..... c 09 N71-23015 *
US-PATENT-3,374,830 ..... c 33 N71-22890 *
US-PATENT-3,375,451 ..... c 10 N71-22986 *
US-PATENT-3,375,479 ..... c 15 N71-23049 *
US-PATENT-3,375,712 ..... c 35 N75-29382 * #
US-PATENT-3,375,885 ..... c 15 N73-32362 * #
US-PATENT-3,376,730 ..... c 14 N71-22995 *
US-PATENT-3,377,208 ..... c 14 N71-23039 *
US-PATENT-3,377,845 ..... c 14 N71-22992 *
US-PATENT-3,378,315 ..... c 15 N71-22997 *
US-PATENT-3,378,657 ..... c 33 N79-33392 * #
US-PATENT-3,378,851 ..... c 05 N71-23096 *
US-PATENT-3,378,892 ..... c 15 N71-22994 *
US-PATENT-3,379,052 ..... c 14 N73-32321 * #
US-PATENT-3,379,064 ..... c 14 N71-23093 *
US-PATENT-3,379,330 ..... c 23 N71-22881 *
US-PATENT-3,379,885 ..... c 09 N71-22985 *
US-PATENT-3,379,974 ..... c 14 N71-22990 *
US-PATENT-3,380,042 ..... c 07 N71-23001 *
US-PATENT-3,380,049 ..... c 10 N71-23099 *
US-PATENT-3,381,339 ..... c 06 N71-22975 *
US-PATENT-3,381,517 ..... c 09 N71-22988 *
US-PATENT-3,381,527 ..... c 15 N71-22878 *
US-PATENT-3,381,569 ..... c 21 N71-22880 *
US-PATENT-3,381,778 ..... c 15 N71-22877 *
US-PATENT-3,382,082 ..... c 18 N71-22998 *
US-PATENT-3,382,105 ..... c 03 N71-29044 *
US-PATENT-3,382,107 ..... c 03 N71-22974 *
US-PATENT-3,382,714 ..... c 14 N71-22989 *
US-PATENT-3,383,461 ..... c 07 N71-23026 *
US-PATENT-3,383,524 ..... c 10 N71-23029 *
US-PATENT-3,383,903 ..... c 14 N71-23036 *
US-PATENT-3,383,922 ..... c 14 N71-22752 *
US-PATENT-3,384,016 ..... c 31 N71-23008 *
US-PATENT-3,384,075 ..... c 05 N71-22896 *
US-PATENT-3,384,111 ..... c 15 N71-22706 *
US-PATENT-3,384,324 ..... c 33 N71-22792 *
US-PATENT-3,384,820 ..... c 09 N71-23021 *
US-PATENT-3,384,895 ..... c 07 N71-22984 *
US-PATENT-3,385,036 ..... c 15 N71-22721 *
US-PATENT-3,386,337 ..... c 15 N71-22799 *
US-PATENT-3,386,685 ..... c 31 N71-22968 *
US-PATENT-3,386,686 ..... c 31 N71-22969 *
US-PATENT-3,387,149 ..... c 14 N71-22993 *
US-PATENT-3,387,218 ..... c 37 N78-17386 * #
US-PATENT-3,388,258 ..... c 14 N71-22996 *
US-PATENT-3,388,387 ..... c 10 N71-23033 *
US-PATENT-3,388,590 ..... c 14 N71-23087 *
US-PATENT-3,389,017 ..... c 15 N71-23022 *
US-PATENT-3,389,260 ..... c 14 N71-23269 *
US-PATENT-3,389,346 ..... c 10 N71-28859 *
US-PATENT-3,389,877 ..... c 15 N71-28936 *
US-PATENT-3,390,017 ..... c 03 N71-23336 *
US-PATENT-3,390,020 ..... c 26 N71-23654 *
US-PATENT-3,390,023 ..... c 26 N75-29236 * #
US-PATENT-3,390,282 ..... c 09 N71-23311 *
US-PATENT-3,390,378 ..... c 08 N71-23295 *
US-PATENT-3,390,528 ..... c 20 N79-21124 * #
US-PATENT-3,391,080 ..... c 15 N71-24046 *
US-PATENT-3,392,403 ..... c 23 N71-23976 *
US-PATENT-3,392,586 ..... c 14 N71-24232 *
US-PATENT-3,392,864 ..... c 18 N71-23658 *
US-PATENT-3,392,865 ..... c 15 N71-23816 *
US-PATENT-3,392,936 ..... c 01 N71-23497 *
US-PATENT-3,393,059 ..... c 06 N71-23499 *
US-PATENT-3,393,330 ..... c 22 N71-23599 *
US-PATENT-3,393,332 ..... c 09 N71-23443 *
US-PATENT-3,393,347 ..... c 10 N71-23543 *
US-PATENT-3,393,380 ..... c 10 N71-23544 *
US-PATENT-3,393,384 ..... c 09 N71-23573 *
US-PATENT-3,394,286 ..... c 14 N73-30391 * #
US-PATENT-3,394,359 ..... c 08 N71-28925 *
US-PATENT-3,394,975 ..... c 23 N71-30027 *
US-PATENT-3,395,053 ..... c 18 N71-23047 *
US-PATENT-3,395,565 ..... c 14 N73-30390 * #
US-PATENT-3,396,057 ..... c 26 N71-23043 *
US-PATENT-3,396,184 ..... c 06 N71-28808 *
US-PATENT-3,396,303 ..... c 09 N71-22987 *
US-PATENT-3,396,584 ..... c 14 N71-30026 *
US-PATENT-3,396,719 ..... c 52 N79-21750 * #
US-PATENT-3,396,920 ..... c 31 N71-29050 *
US-PATENT-3,397,094 ..... c 26 N71-29156 *
US-PATENT-3,397,117 ..... c 15 N71-23086 *
US-PATENT-3,397,318 ..... c 14 N71-22991 *
US-PATENT-3,397,512 ..... c 15 N71-23023 *
US-PATENT-3,397,537 ..... c 20 N79-21125 * #
US-PATENT-3,397,932 ..... c 15 N71-22982 *
US-PATENT-3,399,299 ..... c 10 N71-23662 *
US-PATENT-3,399,574 ..... c 32 N71-24285 *
US-PATENT-3,402,265 ..... c 09 N73-28084 * #
US-PATENT-3,404,289 ..... c 09 N71-23545 *
US-PATENT-3,404,348 ..... c 32 N74-22096 * #
US-PATENT-3,405,406 ..... c 05 N71-23161 *
US-PATENT-3,405,887 ..... c 31 N71-24315 *
US-PATENT-3,406,336 ..... c 10 N71-24863 *
US-PATENT-3,406,742 ..... c 33 N71-24276 *
US-PATENT-3,407,304 ..... c 14 N71-23240 *
US-PATENT-3,408,816 ..... c 28 N71-24736 *
US-PATENT-3,408,870 ..... c 14 N71-23227 *
US-PATENT-3,409,247 ..... c 33 N71-28903 *
US-PATENT-3,409,252 ..... c 15 N71-23255 *
US-PATENT-3,409,554 ..... c 26 N71-23292 *
US-PATENT-3,409,730 ..... c 33 N71-24145 *
US-PATENT-3,411,356 ..... c 14 N71-23226 *
US-PATENT-3,411,900 ..... c 26 N75-27126 * #
US-PATENT-3,412,559 ..... c 28 N71-23293 *
US-PATENT-3,412,598 ..... c 14 N71-23225 *
US-PATENT-3,412,729 ..... c 04 N71-23185 *
US-PATENT-3,412,961 ..... c 32 N71-23971 *
US-PATENT-3,413,115 ..... c 17 N71-23365 *
US-PATENT-3,413,393 ..... c 17 N71-29137 *
US-PATENT-3,413,510 ..... c 09 N71-23190 *
US-PATENT-3,413,536 ..... c 03 N71-24605 *
US-PATENT-3,414,012 ..... c 09 N71-23191 *
US-PATENT-3,414,358 ..... c 14 N71-23175 *
US-PATENT-3,415,032 ..... c 15 N71-23256 *
US-PATENT-3,415,069 ..... c 15 N71-24044 *
US-PATENT-3,415,116 ..... c 14 N71-23790 *
US-PATENT-3,415,126 ..... c 21 N71-23289 *
US-PATENT-3,415,156 ..... c 15 N71-24043 *
US-PATENT-3,415,643 ..... c 17 N71-23248 *
US-PATENT-3,416,106 ..... c 09 N71-24808 *
US-PATENT-3,416,274 ..... c 31 N71-24035 *
US-PATENT-3,416,939 ..... c 18 N71-24183 *
US-PATENT-3,416,975 ..... c 17 N71-23828 *
US-PATENT-3,416,988 ..... c 15 N71-24164 *
US-PATENT-3,417,247 ..... c 14 N71-23797 *
US-PATENT-3,417,266 ..... c 09 N71-23270 *
US-PATENT-3,417,298 ..... c 10 N71-23271 *
US-PATENT-3,417,316 ..... c 14 N71-23174 *
US-PATENT-3,417,321 ..... c 09 N71-23316 *
US-PATENT-3,417,332 ..... c 07 N71-23405 *
US-PATENT-3,417,399 ..... c 30 N71-23723 *
US-PATENT-3,417,400 ..... c 07 N71-28809 *
US-PATENT-3,419,329 ..... c 14 N71-23268 *
US-PATENT-3,419,363 ..... c 18 N71-23710 *
US-PATENT-3,419,384 ..... c 17 N73-28573 * #
US-PATENT-3,419,433 ..... c 03 N71-23187 *
US-PATENT-3,419,531 ..... c 27 N79-21191 * #
US-PATENT-3,419,537 ..... c 06 N71-23500 *
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US-PATENT-3,419,964 ..... c 14 N69-21363 * #
US-PATENT-3,419,992 ..... c 14 N71-23401 *
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US-PATENT-3,420,223 ..... c 05 N69-21925 * #
US-PATENT-3,420,225 ..... c 05 N69-21473 * #
US-PATENT-3,420,253 ..... c 12 N69-21466 * #
US-PATENT-3,420,338 ..... c 15 N71-26243 *
US-PATENT-3,420,471 ..... c 05 N69-21380 * #
US-PATENT-3,420,704 ..... c 15 N69-21460 * #
US-PATENT-3,420,945 ..... c 09 N69-21542 * #
US-PATENT-3,420,978 ..... c 15 N69-21471 * #
US-PATENT-3,421,004 ..... c 14 N71-19568 *
US-PATENT-3,421,053 ..... c 15 N69-21472 * #
US-PATENT-3,421,056 ..... c 14 N69-23191 * #
US-PATENT-3,421,105 ..... c 09 N69-21543 * #
US-PATENT-3,421,134 ..... c 09 N69-21470 * #
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US-PATENT-3,421,363 ..... c 11 N69-21540 * #
US-PATENT-3,421,506 ..... c 05 N69-23192 * #
US-PATENT-3,421,541 ..... c 15 N69-21924 * #
US-PATENT-3,421,549 ..... c 03 N69-21469 * #
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US-PATENT-3,421,700 ..... c 15 N69-23185 * #
US-PATENT-3,421,768 ..... c 15 N69-21362 * #
US-PATENT-3,421,864 ..... c 17 N71-23046 *
US-PATENT-3,421,948 ..... c 03 N69-21337 * #
US-PATENT-3,422,213 ..... c 03 N69-21539 * #
US-PATENT-3,422,278 ..... c 09 N69-21468 * #
US-PATENT-3,422,291 ..... c 25 N69-21929 * #
US-PATENT-3,422,324 ..... c 14 N69-21541 * #
US-PATENT-3,422,352 ..... c 14 N71-19431 *
US-PATENT-3,422,354 ..... c 09 N69-21926 * #
US-PATENT-3,422,390 ..... c 09 N69-21927 * #
US-PATENT-3,422,403 ..... c 08 N69-21928 * #
US-PATENT-3,422,440 ..... c 09 N69-21467 * #
US-PATENT-3,423,179 ..... c 15 N69-21922 * #
US-PATENT-3,423,290 ..... c 06 N71-17705 *
US-PATENT-3,423,579 ..... c 09 N71-19480 *
US-PATENT-3,423,608 ..... c 09 N69-21313 * #
US-PATENT-3,423,627 ..... c 33 N78-17293 * #
US-PATENT-3,424,966 ..... c 10 N71-20448 *
US-PATENT-3,425,131 ..... c 15 N71-19489 *
US-PATENT-3,425,268 ..... c 14 N69-39975 * #
US-PATENT-3,425,272 ..... c 14 N71-20439 *
US-PATENT-3,425,276 ..... c 14 N69-24257 * #
US-PATENT-3,425,486 ..... c 05 N71-24147 *
US-PATENT-3,425,487 ..... c 05 N71-19439 *
US-PATENT-3,425,885 ..... c 15 N69-24322 * #
US-PATENT-3,426,219 ..... c 09 N69-24317 * #
US-PATENT-3,426,230 ..... c 15 N69-24319 * #
US-PATENT-3,426,263 ..... c 03 N71-19438 *
US-PATENT-3,426,272 ..... c 14 N69-39785 * #
US-PATENT-3,426,746 ..... c 05 N71-26293 *
US-PATENT-3,426,791 ..... c 15 N71-19569 *
US-PATENT-3,427,047 ..... c 15 N69-27490 * #
US-PATENT-3,427,089 ..... c 23 N69-24332 * #
US-PATENT-3,427,093 ..... c 09 N71-19479 *
US-PATENT-3,427,097 ..... c 11 N69-24321 * #
US-PATENT-3,427,205 ..... c 15 N69-24320 * #
US-PATENT-3,427,435 ..... c 17 N69-25147 * #
US-PATENT-3,427,454 ..... c 05 N71-19440 *
US-PATENT-3,427,525 ..... c 03 N69-21330 * #
US-PATENT-3,428,761 ..... c 09 N69-24329 * #
US-PATENT-3,428,812 ..... c 14 N69-27485 * #
US-PATENT-3,428,847 ..... c 15 N69-24266 * #

US-PATENT-3,428,910 ..... c 09 N69-24330 * #
US-PATENT-3,428,919 ..... c 07 N69-24334 * #
US-PATENT-3,428,923 ..... c 07 N69-27462 * #
US-PATENT-3,429,058 ..... c 12 N69-39988 * #
US-PATENT-3,429,177 ..... c 06 N69-39733 * #
US-PATENT-3,429,477 ..... c 15 N69-27502 * #
US-PATENT-3,429,756 ..... c 76 N79-21910 * #
US-PATENT-3,430,063 ..... c 09 N69-27500 * #
US-PATENT-3,430,115 ..... c 09 N69-24318 * #
US-PATENT-3,430,131 ..... c 24 N71-20518 *
US-PATENT-3,430,182 ..... c 14 N69-27431 * #
US-PATENT-3,430,227 ..... c 08 N71-19687 *
US-PATENT-3,430,237 ..... c 07 N69-39974 * #
US-PATENT-3,430,460 ..... c 15 N69-27505 * #
US-PATENT-3,430,902 ..... c 14 N69-27486 * #
US-PATENT-3,430,909 ..... c 11 N69-27466 * #
US-PATENT-3,430,937 ..... c 15 N69-27483 * #
US-PATENT-3,430,942 ..... c 15 N69-27504 * #
US-PATENT-3,431,149 ..... c 14 N69-27459 * #
US-PATENT-3,431,397 ..... c 15 N69-27871 * #
US-PATENT-3,431,460 ..... c 09 N71-23189 *
US-PATENT-3,431,559 ..... c 09 N69-24333 * #
US-PATENT-3,432,730 ..... c 09 N69-27422 * #
US-PATENT-3,433,015 ..... c 28 N71-20330 *
US-PATENT-3,433,079 ..... c 14 N69-27503 * #
US-PATENT-3,433,662 ..... c 14 N71-20461 *
US-PATENT-3,433,818 ..... c 06 N71-23230 *
US-PATENT-3,433,909 ..... c 10 N71-23663 *
US-PATENT-3,433,953 ..... c 14 N69-27484 * #
US-PATENT-3,433,960 ..... c 16 N69-27491 * #
US-PATENT-3,433,961 ..... c 14 N69-27432 * #
US-PATENT-3,434,033 ..... c 09 N69-39984 * #
US-PATENT-3,434,037 ..... c 10 N71-26414 *
US-PATENT-3,434,050 ..... c 09 N71-20569 *
US-PATENT-3,434,064 ..... c 09 N69-39986 * #
US-PATENT-3,434,855 ..... c 18 N71-24184 *
US-PATENT-3,434,885 ..... c 03 N71-20492 *
US-PATENT-3,435,246 ..... c 14 N69-24331 * #
US-PATENT-3,437,394 ..... c 14 N69-27461 * #
US-PATENT-3,437,527 ..... c 03 N69-24267 * #
US-PATENT-3,437,560 ..... c 04 N69-27487 * #
US-PATENT-3,437,818 ..... c 03 N71-23354 *
US-PATENT-3,437,832 ..... c 09 N69-27463 * #
US-PATENT-3,437,874 ..... c 08 N71-20571 *
US-PATENT-3,437,903 ..... c 03 N69-25146 * #
US-PATENT-3,437,919 ..... c 14 N69-27423 * #
US-PATENT-3,437,935 ..... c 09 N69-24324 * #
US-PATENT-3,437,959 ..... c 07 N69-24323 * #
US-PATENT-3,438,044 ..... c 07 N69-27460 * #
US-PATENT-3,438,263 ..... c 14 N71-20435 *
US-PATENT-3,439,886 ..... c 31 N69-27499 * #
US-PATENT-3,440,419 ..... c 14 N73-28491 * #
US-PATENT-3,442,674 ..... c 25 N82-29370 * #
US-PATENT-3,443,128 ..... c 03 N69-39890 * #
US-PATENT-3,443,208 ..... c 14 N71-20428 *
US-PATENT-3,443,384 ..... c 28 N71-24321 *
US-PATENT-3,443,390 ..... c 11 N71-24964 *
US-PATENT-3,443,412 ..... c 15 N71-23811 *
US-PATENT-3,443,416 ..... c 06 N69-39936 * #
US-PATENT-3,443,472 ..... c 15 N71-23254 *
US-PATENT-3,443,583 ..... c 14 N71-18625 *
US-PATENT-3,443,584 ..... c 32 N71-16106 *
US-PATENT-3,443,732 ..... c 15 N71-15607 * #
US-PATENT-3,443,773 ..... c 31 N71-23912 *
US-PATENT-3,443,779 ..... c 01 N69-39981 * #
US-PATENT-3,444,051 ..... c 05 N71-11207 * #
US-PATENT-3,444,127 ..... c 06 N71-11237 * #
US-PATENT-3,444,375 ..... c 14 N71-15599 * #
US-PATENT-3,444,380 ..... c 07 N69-39980 * #
US-PATENT-3,446,075 ..... c 14 N73-30394 * #
US-PATENT-3,446,387 ..... c 15 N69-39935 * #
US-PATENT-3,446,558 ..... c 16 N71-24074 *
US-PATENT-3,446,642 ..... c 18 N69-39895 * #
US-PATENT-3,446,676 ..... c 03 N71-11050 * #
US-PATENT-3,446,960 ..... c 14 N69-39982 * #
US-PATENT-3,446,992 ..... c 09 N69-39987 * #
US-PATENT-3,446,997 ..... c 03 N69-39898 * #
US-PATENT-3,446,998 ..... c 09 N69-39929 * #
US-PATENT-3,447,003 ..... c 09 N71-20446 *
US-PATENT-3,447,015 ..... c 06 N69-39889 * #
US-PATENT-3,447,071 ..... c 25 N69-39884 * #
US-PATENT-3,447,154 ..... c 21 N71-11766 * #
US-PATENT-3,447,155 ..... c 09 N71-18598 *
US-PATENT-3,447,233 ..... c 15 N69-39786 * #
US-PATENT-3,447,774 ..... c 15 N71-19485 *
US-PATENT-3,447,850 ..... c 09 N71-18600 *
US-PATENT-3,448,273 ..... c 07 N69-39736 * #
US-PATENT-3,448,290 ..... c 10 N71-23315 *
US-PATENT-3,448,341 ..... c 09 N71-12526 * #
US-PATENT-3,448,346 ..... c 15 N71-18701 *
US-PATENT-3,450,842 ..... c 07 N69-39978 * #
US-PATENT-3,450,878 ..... c 14 N71-20430 *
US-PATENT-3,450,946 ..... c 09 N69-39897 * #
US-PATENT-3,452,103 ..... c 06 N73-30101 * #
US-PATENT-3,452,423 ..... c 26 N71-16037 *
US-PATENT-3,452,872 ..... c 14 N69-39896 * #
US-PATENT-3,453,172 ..... c 15 N69-39735 * #
US-PATENT-3,453,462 ..... c 03 N69-39983 * #
US-PATENT-3,453,546 ..... c 05 N71-12342 * #
US-PATENT-3,453,878 ..... c 09 N79-21083 * #
US-PATENT-3,454,410 ..... c 18 N69-39979 * #
US-PATENT-3,454,766 ..... c 35 N75-27329 * #
US-PATENT-3,455,121 ..... c 14 N71-20427 *
US-PATENT-3,455,171 ..... c 23 N71-16098 *
US-PATENT-3,456,112 ..... c 14 N69-39937 * #
US-PATENT-3,456,193 ..... c 08 N71-19763 *
US-PATENT-3,456,201 ..... c 09 N69-39885 * #
US-PATENT-3,458,104 ..... c 15 N71-20393 *
US-PATENT-3,458,313 ..... c 14 N71-17574 *
US-PATENT-3,458,651 ..... c 09 N71-19449 *
US-PATENT-3,458,702 ..... c 14 N71-18699 *
US-PATENT-3,458,726 ..... c 10 N69-39888 * #
US-PATENT-3,458,833 ..... c 10 N71-19418 *
US-PATENT-3,458,851 ..... c 09 N69-39734 * #
US-PATENT-3,459,391 ..... c 03 N71-11058 * #
US-PATENT-3,460,378 ..... c 14 N71-24233 *
US-PATENT-3,460,379 ..... c 15 N71-24834 *
US-PATENT-3,460,381 ..... c 14 N71-23725 *
US-PATENT-3,460,397 ..... c 15 N71-24045 *
US-PATENT-3,460,759 ..... c 28 N71-23968 *
US-PATENT-3,460,781 ..... c 14 N71-23698 *
US-PATENT-3,460,995 ..... c 03 N71-20407 *
US-PATENT-3,461,290 ..... c 14 N71-26475 *
US-PATENT-3,461,393 ..... c 10 N71-26415 *
US-PATENT-3,461,437 ..... c 10 N71-26434 *
US-PATENT-3,461,700 ..... c 15 N71-26346 *
US-PATENT-3,461,721 ..... c 12 N71-20436 *
US-PATENT-3,461,855 ..... c 05 N71-20268 *
US-PATENT-3,463,001 ..... c 14 N71-20429 *
US-PATENT-3,463,563 ..... c 15 N71-23812 *
US-PATENT-3,463,673 ..... c 03 N71-20491 *
US-PATENT-3,463,679 ..... c 17 N71-24142 *
US-PATENT-3,463,761 ..... c 06 N73-30099 * #
US-PATENT-3,463,762 ..... c 06 N73-30100 * #
US-PATENT-3,463,939 ..... c 10 N71-19471 *
US-PATENT-3,464,012 ..... c 14 N71-26244 *
US-PATENT-3,464,016 ..... c 10 N71-19472 *
US-PATENT-3,464,018 ..... c 09 N71-23525 *
US-PATENT-3,464,049 ..... c 32 N71-15974 *
US-PATENT-3,464,051 ..... c 15 N71-17685 *
US-PATENT-3,465,482 ..... c 31 N71-16080 *
US-PATENT-3,465,567 ..... c 15 N71-18579 *
US-PATENT-3,465,569 ..... c 14 N71-17659 *
US-PATENT-3,465,584 ..... c 14 N71-23726 *
US-PATENT-3,465,638 ..... c 11 N71-18578 *
US-PATENT-3,465,986 ..... c 31 N71-20396 *
US-PATENT-3,466,052 ..... c 15 N71-19570 *
US-PATENT-3,466,085 ..... c 05 N71-12343 * #
US-PATENT-3,466,198 ..... c 03 N71-19545 *
US-PATENT-3,466,243 ..... c 15 N71-23810 *
US-PATENT-3,466,418 ..... c 15 N71-18613 * #
US-PATENT-3,466,424 ..... c 15 N71-20395 *
US-PATENT-3,466,459 ..... c 09 N71-26000 *
US-PATENT-3,466,484 ..... c 14 N71-18482 *
US-PATENT-3,466,560 ..... c 09 N71-19466 *
US-PATENT-3,466,570 ..... c 10 N71-25950 *
US-PATENT-3,467,837 ..... c 05 N71-23317 *
US-PATENT-3,468,303 ..... c 09 N71-26002 *
US-PATENT-3,468,548 ..... c 15 N71-26294 *
US-PATENT-3,468,609 ..... c 16 N71-24170 *
US-PATENT-3,468,727 ..... c 14 N71-25892 *
US-PATENT-3,468,765 ..... c 17 N71-25903 *
US-PATENT-3,469,068 ..... c 15 N71-23815 *
US-PATENT-3,469,069 ..... c 15 N71-23798 * #
US-PATENT-3,469,087 ..... c 16 N71-25914 *
US-PATENT-3,469,143 ..... c 33 N75-29318 * #
US-PATENT-3,469,289 ..... c 15 N71-25975 *
US-PATENT-3,469,375 ..... c 14 N71-18483 *
US-PATENT-3,469,436 ..... c 15 N71-23817 *
US-PATENT-3,469,437 ..... c 14 N71-24234 *
US-PATENT-3,469,734 ..... c 11 N71-17600 *
US-PATENT-3,470,043 ..... c 15 N71-24047 *
US-PATENT-3,470,304 ..... c 14 N71-23267 *
US-PATENT-3,470,313 ..... c 07 N71-26579 *
US-PATENT-3,470,318 ..... c 07 N71-24612 *
US-PATENT-3,470,342 ..... c 09 N71-19610 *
US-PATENT-3,470,443 ..... c 03 N71-23239 *
US-PATENT-3,470,446 ..... c 09 N71-23188 *
US-PATENT-3,470,466 ..... c 14 N71-23699 *
US-PATENT-3,470,475 ..... c 10 N71-19467 *
US-PATENT-3,470,489 ..... c 09 N71-23598 *
US-PATENT-3,470,495 ..... c 10 N71-23669 *
US-PATENT-3,470,496 ..... c 09 N71-19470 *
US-PATENT-3,471,856 ..... c 30 N71-16090 *
US-PATENT-3,471,858 ..... c 07 N71-12391 * #
US-PATENT-3,472,019 ..... c 10 N71-26326 *
US-PATENT-3,472,059 ..... c 14 N71-23755 *
US-PATENT-3,472,060 ..... c 14 N71-26136 *
US-PATENT-3,472,069 ..... c 15 N71-20441 *
US-PATENT-3,472,080 ..... c 10 N71-26339 *
US-PATENT-3,472,086 ..... c 15 N71-23809 *
US-PATENT-3,472,140 ..... c 14 N71-26474 *
US-PATENT-3,472,202 ..... c 17 N71-24911 *
US-PATENT-3,472,372 ..... c 15 N71-20440 *
US-PATENT-3,472,470 ..... c 02 N71-20570 *
US-PATENT-3,472,577 ..... c 23 N71-24857 *
US-PATENT-3,472,625 ..... c 06 N71-23527 *
US-PATENT-3,472,629 ..... c 14 N71-20442 *
US-PATENT-3,472,698 ..... c 03 N71-23449 *
US-PATENT-3,472,709 ..... c 18 N71-26153 *
US-PATENT-3,472,742 ..... c 17 N71-24830 *
US-PATENT-3,472,998 ..... c 16 N71-20400 *
US-PATENT-3,473,050 ..... c 09 N71-20447 *
US-PATENT-3,473,116 ..... c 25 N71-20563 *
US-PATENT-3,473,165 ..... c 05 N71-26333 *
US-PATENT-3,473,216 ..... c 15 N71-20443 *
US-PATENT-3,473,379 ..... c 12 N71-26387 *
US-PATENT-3,473,758 ..... c 03 N71-20273 *
US-PATENT-3,474,192 ..... c 07 N71-26102 *
US-PATENT-3,474,220 ..... c 15 N71-19486 *
US-PATENT-3,474,328 ..... c 14 N71-26266 *
US-PATENT-3,474,357 ..... c 09 N71-20445 *
US-PATENT-3,474,413 ..... c 10 N71-26103 *
US-PATENT-3,474,441 ..... c 08 N71-19544 *
US-PATENT-3,475,384 ..... c 06 N73-30103 * #
US-PATENT-3,475,442 ..... c 26 N75-27125 * #
US-PATENT-3,475,675 ..... c 33 N78-17295 * #
US-PATENT-3,478,514 ..... c 37 N77-22479 * #
US-PATENT-3,480,789 ..... c 10 N71-26626 *
US-PATENT-3,481,638 ..... c 15 N71-26312 *
US-PATENT-3,481,802 ..... c 31 N79-21226 * #
US-PATENT-3,481,887 ..... c 18 N71-26155 *
US-PATENT-3,482,179 ..... c 10 N71-26331 *
US-PATENT-3,483,535 ..... c 10 N71-26418 *
US-PATENT-3,484,712 ..... c 10 N71-26374 *
US-PATENT-3,485,290 ..... c 20 N79-21123 * #
US-PATENT-3,486,123 ..... c 16 N71-24831 *
US-PATENT-3,487,216 ..... c 14 N71-24809 *
US-PATENT-3,487,281 ..... c 15 N71-24695 *
US-PATENT-3,487,288 ..... c 10 N71-25139 *
US-PATENT-3,487,680 ..... c 15 N71-17696 *
US-PATENT-3,487,765 ..... c 54 N78-17679 * #
US-PATENT-3,488,103 ..... c 14 N71-15604 * #
US-PATENT-3,488,123 ..... c 14 N71-17627 *
US-PATENT-3,488,414 ..... c 15 N71-17803 *
US-PATENT-3,488,461 ..... c 09 N71-12518 * #
US-PATENT-3,488,504 ..... c 21 N71-15642 *
US-PATENT-3,488,771 ..... c 54 N78-17678 * #
US-PATENT-3,490,074 ..... c 54 N78-17677 * #
US-PATENT-3,490,130 ..... c 05 N71-12345 * #
US-PATENT-3,490,205 ..... c 14 N71-17588 *
US-PATENT-3,490,235 ..... c 28 N71-14044 * #
US-PATENT-3,490,238 ..... c 15 N70-22192 * #
US-PATENT-3,490,405 ..... c 15 N71-15597 * #
US-PATENT-3,490,440 ..... c 05 N71-12346 * #
US-PATENT-3,490,718 ..... c 33 N71-14035 * #
US-PATENT-3,490,719 ..... c 21 N71-14159 * #
US-PATENT-3,490,721 ..... c 02 N71-11039 * #
US-PATENT-3,490,939 ..... c 33 N71-14032 * #
US-PATENT-3,490,965 ..... c 09 N71-12513 * #
US-PATENT-3,491,202 ..... c 07 N71-12392 * #
US-PATENT-3,491,255 ..... c 09 N71-12514 * #
US-PATENT-3,491,335 ..... c 14 N71-15620 * #
US-PATENT-3,491,857 ..... c 14 N71-17626 *
US-PATENT-3,492,176 ..... c 27 N71-14090 * #
US-PATENT-3,492,672 ..... c 05 N71-12344 * #
US-PATENT-3,492,739 ..... c 15 N71-15571 *
US-PATENT-3,492,858 ..... c 35 N78-17358 * #
US-PATENT-3,492,862 ..... c 14 N71-15600 * #
US-PATENT-3,492,947 ..... c 28 N71-14058 * #
US-PATENT-3,493,003 ..... c 15 N71-15609 * #
US-PATENT-3,493,004 ..... c 12 N71-17579 *
US-PATENT-3,493,012 ..... c 15 N71-15608 * #
US-PATENT-3,493,027 ..... c 31 N71-18611 *
US-PATENT-3,493,153 ..... c 05 N71-12351 * #
US-PATENT-3,493,155 ..... c 26 N71-14354 * #
US-PATENT-3,493,194 ..... c 21 N71-14132 * #
US-PATENT-3,493,197 ..... c 02 N71-11043 * #
US-PATENT-3,493,291 ..... c 14 N71-15622 * #
US-PATENT-3,493,294 ..... c 14 N71-15605 * #
US-PATENT-3,493,401 ..... c 18 N71-14014 * #
US-PATENT-3,493,415 ..... c 15 N71-15610 * #
US-PATENT-3,493,437 ..... c 03 N71-11056 * #
US-PATENT-3,493,522 ..... c 06 N71-11243 * #
US-PATENT-3,493,524 ..... c 06 N71-11242 * #
US-PATENT-3,493,665 ..... c 14 N71-15621 * #
US-PATENT-3,493,677 ..... c 07 N71-11300 * #
US-PATENT-3,493,711 ..... c 15 N71-14932 * #
US-PATENT-3,493,746 ..... c 15 N71-15606 * #
US-PATENT-3,493,797 ..... c 15 N71-17652 *
US-PATENT-3,493,805 ..... c 09 N71-12521 * #
US-PATENT-3,493,901 ..... c 09 N71-12517 * #
US-PATENT-3,493,929 ..... c 08 N71-12505 * #
US-PATENT-3,493,942 ..... c 08 N71-12504 * #
US-PATENT-3,495,260 ..... c 21 N71-13958 * #
US-PATENT-3,495,262 ..... c 07 N71-12396 * #
US-PATENT-3,498,840 ..... c 44 N82-24642 * #
US-PATENT-3,498,841 ..... c 44 N82-24641 * #

US-PATENT-3,500,020 ..... c 01 N71-13411 * #
US-PATENT-3,500,525 ..... c 15 N71-17688 *
US-PATENT-3,500,677 ..... c 14 N71-17584 *
US-PATENT-3,500,686 ..... c 12 N71-17569 *
US-PATENT-3,500,688 ..... c 14 N71-17587 *
US-PATENT-3,500,747 ..... c 09 N71-18599 *
US-PATENT-3,500,827 ..... c 05 N71-11203 * #
US-PATENT-3,501,112 ..... c 15 N71-17693 *
US-PATENT-3,501,632 ..... c 27 N71-16348 *
US-PATENT-3,501,641 ..... c 20 N71-16340 *
US-PATENT-3,501,648 ..... c 10 N71-24799 *
US-PATENT-3,501,649 ..... c 10 N71-18723 *
US-PATENT-3,501,664 ..... c 14 N71-17585 *
US-PATENT-3,501,683 ..... c 15 N71-17694 *
US-PATENT-3,501,684 ..... c 09 N71-26092 *
US-PATENT-3,501,701 ..... c 08 N71-18692 *
US-PATENT-3,501,704 ..... c 07 N71-11282 * #
US-PATENT-3,501,712 ..... c 09 N71-19516 *
US-PATENT-3,501,743 ..... c 09 N71-18843 *
US-PATENT-3,501,750 ..... c 08 N71-19288 *
US-PATENT-3,501,752 ..... c 08 N71-18595 *
US-PATENT-3,501,764 ..... c 10 N71-18722 *
US-PATENT-3,502,051 ..... c 15 N71-17647 *
US-PATENT-3,502,074 ..... c 05 N71-11190 * #
US-PATENT-3,502,141 ..... c 33 N71-16277 *
US-PATENT-3,503,251 ..... c 32 N71-16428 *
US-PATENT-3,504,258 ..... c 10 N71-18724 *
US-PATENT-3,504,983 ..... c 23 N71-16341 *
US-PATENT-3,506,496 ..... c 44 N82-24645 * #
US-PATENT-3,507,034 ..... c 15 N71-17650 *
US-PATENT-3,507,114 ..... c 27 N71-16392 *
US-PATENT-3,507,146 ..... c 05 N71-11202 * #
US-PATENT-3,507,150 ..... c 20 N71-16281 *
US-PATENT-3,507,425 ..... c 15 N71-17628 *
US-PATENT-3,507,436 ..... c 08 N71-19420 *
US-PATENT-3,507,704 ..... c 03 N71-11052 * #
US-PATENT-3,507,706 ..... c 03 N71-18698 *
US-PATENT-3,508,036 ..... c 08 N71-18693 *
US-PATENT-3,508,039 ..... c 08 N71-19437 *
US-PATENT-3,508,053 ..... c 09 N71-18830 *
US-PATENT-3,508,070 ..... c 03 N71-11057 * #
US-PATENT-3,508,152 ..... c 07 N71-11266 * #
US-PATENT-3,508,156 ..... c 07 N71-11267 * #
US-PATENT-3,508,347 ..... c 05 N71-24606 *
US-PATENT-3,508,402 ..... c 33 N71-16104 *
US-PATENT-3,508,541 ..... c 05 N71-11193 * #
US-PATENT-3,508,578 ..... c 32 N71-16103 *
US-PATENT-3,508,723 ..... c 31 N71-16222 *
US-PATENT-3,508,724 ..... c 02 N71-11037 * #
US-PATENT-3,508,739 ..... c 15 N71-17648 *
US-PATENT-3,508,779 ..... c 15 N71-24897 *
US-PATENT-3,508,940 ..... c 18 N71-16124 *
US-PATENT-3,508,955 ..... c 18 N71-16105 *
US-PATENT-3,508,999 ..... c 15 N71-17687 *
US-PATENT-3,509,034 ..... c 14 N71-17575 *
US-PATENT-3,509,386 ..... c 03 N71-11055 * #
US-PATENT-3,509,419 ..... c 24 N71-16213 *
US-PATENT-3,509,469 ..... c 23 N71-16099 *
US-PATENT-3,509,475 ..... c 09 N71-24596 *
US-PATENT-3,509,491 ..... c 09 N71-18721 *
US-PATENT-3,509,551 ..... c 08 N71-18694 *
US-PATENT-3,509,558 ..... c 08 N71-19435 *
US-PATENT-3,509,570 ..... c 09 N71-18720 *
US-PATENT-3,509,578 ..... c 07 N71-19493 *
US-PATENT-3,511,680 ..... c 31 N79-21227 * #
US-PATENT-3,512,009 ..... c 08 N71-18751 * #
US-PATENT-3,514,785 ..... c 54 N78-18761 * #
US-PATENT-3,516,091 ..... c 05 N71-24623 *
US-PATENT-3,516,179 ..... c 11 N71-19494 *
US-PATENT-3,516,185 ..... c 12 N71-18603 *
US-PATENT-3,516,284 ..... c 12 N71-17573 *
US-PATENT-3,516,404 ..... c 05 N71-17599 *
US-PATENT-3,516,711 ..... c 05 N71-12341 * #
US-PATENT-3,516,879 ..... c 23 N71-16212 *
US-PATENT-3,516,964 ..... c 06 N71-11240 * #
US-PATENT-3,516,970 ..... c 06 N71-11239 * #
US-PATENT-3,516,971 ..... c 06 N71-24740 *
US-PATENT-3,517,109 ..... c 07 N71-19436 *
US-PATENT-3,517,162 ..... c 33 N71-16278 *
US-PATENT-3,517,171 ..... c 08 N71-24633 *
US-PATENT-3,517,221 ..... c 10 N71-19547 *
US-PATENT-3,517,268 ..... c 10 N71-19469 *
US-PATENT-3,517,302 ..... c 25 N71-16073 *
US-PATENT-3,517,318 ..... c 08 N71-19432 *
US-PATENT-3,517,328 ..... c 16 N71-18614 * #
US-PATENT-3,518,232 ..... c 06 N71-11235 * #
US-PATENT-3,519,483 ..... c 44 N82-24644 * #
US-PATENT-3,519,484 ..... c 44 N82-24643 * #
US-PATENT-3,520,190 ..... c 10 N71-13537 * #
US-PATENT-3,520,238 ..... c 14 N71-18465 *
US-PATENT-3,520,317 ..... c 12 N71-17578 *
US-PATENT-3,520,496 ..... c 31 N71-16345 *
US-PATENT-3,520,503 ..... c 31 N71-16085 *
US-PATENT-3,520,617 ..... c 23 N71-16101 *
US-PATENT-3,520,660 ..... c 23 N71-16355 *
US-PATENT-3,521,054 ..... c 06 N71-13461 * #
US-PATENT-3,521,143 ..... c 08 N71-18752 *
US-PATENT-3,521,290 ..... c 31 N71-16102 *
US-PATENT-3,523,228 ..... c 10 N71-24861 *
US-PATENT-3,526,030 ..... c 15 N71-17686 *
US-PATENT-3,526,134 ..... c 33 N71-16356 *
US-PATENT-3,526,139 ..... c 31 N71-16221 *
US-PATENT-3,526,140 ..... c 27 N71-16223 *
US-PATENT-3,526,359 ..... c 33 N71-16357 *
US-PATENT-3,526,365 ..... c 28 N71-16224 *
US-PATENT-3,526,372 ..... c 31 N71-16346 *
US-PATENT-3,526,382 ..... c 15 N71-17649 *
US-PATENT-3,526,460 ..... c 23 N71-16365 *
US-PATENT-3,526,473 ..... c 18 N71-15545 *
US-PATENT-3,526,580 ..... c 18 N71-16210 *
US-PATENT-3,526,611 ..... c 06 N71-11236 * #
US-PATENT-3,526,845 ..... c 09 N71-13531 * #
US-PATENT-3,526,897 ..... c 09 N71-13521 * #
US-PATENT-3,527,724 ..... c 27 N78-33228 * #
US-PATENT-3,529,480 ..... c 15 N71-17692 *
US-PATENT-3,529,928 ..... c 17 N71-16393 *
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US-PATENT-3,531,964 ..... c 15 N71-18616 *
US-PATENT-3,531,978 ..... c 14 N71-18481 *
US-PATENT-3,531,982 ..... c 15 N71-18132 *
US-PATENT-3,531,989 ..... c 33 N71-15641 *
US-PATENT-3,532,118 ..... c 12 N71-18615 *
US-PATENT-3,532,128 ..... c 15 N71-18580 *
US-PATENT-3,532,427 ..... c 21 N71-19212 *
US-PATENT-3,532,428 ..... c 30 N71-15990 *
US-PATENT-3,532,538 ..... c 18 N71-16046 *
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US-PATENT-3,532,568 ..... c 17 N71-16044 *
US-PATENT-3,532,673 ..... c 06 N71-11238 * #
US-PATENT-3,532,807 ..... c 07 N71-19433 *
US-PATENT-3,532,819 ..... c 10 N71-19468 *
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US-PATENT-3,532,880 ..... c 24 N71-16095 *
US-PATENT-3,532,894 ..... c 23 N71-16100 *
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US-PATENT-3,532,960 ..... c 03 N71-12255 * #
US-PATENT-3,532,973 ..... c 15 N71-17822 *
US-PATENT-3,532,975 ..... c 10 N71-19421 *
US-PATENT-3,532,979 ..... c 10 N71-12554 * #
US-PATENT-3,532,985 ..... c 07 N71-19773 *
US-PATENT-3,533,001 ..... c 07 N71-24583 *
US-PATENT-3,533,006 ..... c 10 N72-28241 * #
US-PATENT-3,533,074 ..... c 08 N71-12502 * #
US-PATENT-3,533,093 ..... c 10 N71-19417 *
US-PATENT-3,533,098 ..... c 08 N71-18594 *
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US-PATENT-3,534,367 ..... c 02 N71-19287 *
US-PATENT-3,534,375 ..... c 07 N71-11285 * #
US-PATENT-3,534,376 ..... c 07 N71-26101 *
US-PATENT-3,534,406 ..... c 05 N71-11195 * #
US-PATENT-3,534,407 ..... c 05 N71-11194 * #
US-PATENT-3,534,479 ..... c 14 N71-17657 *
US-PATENT-3,534,480 ..... c 14 N71-17658 *
US-PATENT-3,534,485 ..... c 11 N71-18773 *
US-PATENT-3,534,555 ..... c 12 N71-17631 *
US-PATENT-3,534,584 ..... c 10 N71-13545 * #
US-PATENT-3,534,585 ..... c 14 N71-17701 *
US-PATENT-3,534,592 ..... c 14 N71-17656 *
US-PATENT-3,534,596 ..... c 14 N71-17586 *
US-PATENT-3,534,597 ..... c 31 N71-15643 *
US-PATENT-3,534,650 ..... c 15 N71-17653 *
US-PATENT-3,534,686 ..... c 31 N71-15687 *
US-PATENT-3,534,727 ..... c 05 N71-11189 * #
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US-PATENT-3,534,826 ..... c 31 N71-15689 *
US-PATENT-3,534,836 ..... c 15 N71-17805 *
US-PATENT-3,534,909 ..... c 15 N71-17654 *
US-PATENT-3,534,924 ..... c 31 N71-15674 *
US-PATENT-3,534,925 ..... c 31 N71-15676 *
US-PATENT-3,534,926 ..... c 15 N71-19214 *
US-PATENT-3,534,930 ..... c 02 N71-13422 * #
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US-PATENT-3,535,013 ..... c 16 N71-15551 *
US-PATENT-3,535,014 ..... c 16 N71-15565 *
US-PATENT-3,535,024 ..... c 14 N71-17662 *
US-PATENT-3,535,041 ..... c 14 N71-17655 *
US-PATENT-3,535,110 ..... c 17 N71-15468 *
US-PATENT-3,535,130 ..... c 18 N71-15469 *
US-PATENT-3,535,165 ..... c 33 N71-15568 *
US-PATENT-3,535,179 ..... c 15 N71-17651 *
US-PATENT-3,535,352 ..... c 18 N71-15688 *
US-PATENT-3,535,446 ..... c 09 N71-12539 * #
US-PATENT-3,535,451 ..... c 07 N71-11281 * #
US-PATENT-3,535,497 ..... c 08 N71-24890 *
US-PATENT-3,535,543 ..... c 09 N71-13486 * #
US-PATENT-3,535,547 ..... c 09 N71-12520 * #
US-PATENT-3,535,554 ..... c 09 N71-12516 * #
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US-PATENT-3,535,642 ..... c 08 N71-12503 * #
US-PATENT-3,535,644 ..... c 09 N71-12519 * #
US-PATENT-3,535,657 ..... c 07 N71-12390 * #
US-PATENT-3,535,658 ..... c 08 N71-12500 * #
US-PATENT-3,535,683 ..... c 31 N71-15566 *
US-PATENT-3,535,696 ..... c 08 N71-12506 * #
US-PATENT-3,535,702 ..... c 09 N71-12515 * #
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US-PATENT-3,537,305 ..... c 26 N71-25490 *
US-PATENT-3,537,515 ..... c 09 N71-24807 *
US-PATENT-3,537,668 ..... c 05 N71-24728 *
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US-PATENT-3,540,045 ..... c 09 N71-24595 *
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US-PATENT-3,540,050 ..... c 09 N71-24804 *
US-PATENT-3,540,054 ..... c 07 N71-24625 *
US-PATENT-3,540,056 ..... c 07 N71-24614 *
US-PATENT-3,540,250 ..... c 15 N71-24865 *
US-PATENT-3,540,449 ..... c 15 N71-24835 *
US-PATENT-3,540,615 ..... c 33 N71-25351 *
US-PATENT-3,540,676 ..... c 15 N71-24600 *
US-PATENT-3,540,790 ..... c 16 N71-26154 *
US-PATENT-3,540,802 ..... c 23 N71-24868 *
US-PATENT-3,540,942 ..... c 15 N71-24875 *
US-PATENT-3,540,989 ..... c 24 N71-25555 *
US-PATENT-3,541,250 ..... c 07 N71-24742 *
US-PATENT-3,541,312 ..... c 08 N71-24891 *
US-PATENT-3,541,314 ..... c 07 N71-24741 *
US-PATENT-3,541,346 ..... c 09 N71-24803 *
US-PATENT-3,541,361 ..... c 09 N71-24904 *
US-PATENT-3,541,422 ..... c 03 N71-24719 *
US-PATENT-3,541,428 ..... c 09 N71-24893 *
US-PATENT-3,541,439 ..... c 09 N71-24843 *
US-PATENT-3,541,450 ..... c 07 N71-24840 *
US-PATENT-3,541,459 ..... c 10 N71-24844 *
US-PATENT-3,541,479 ..... c 09 N71-24841 *
US-PATENT-3,541,486 ..... c 16 N71-28554 *
US-PATENT-3,541,679 ..... c 03 N71-24681 *
US-PATENT-3,541,825 ..... c 15 N71-24836 *
US-PATENT-3,541,875 ..... c 15 N71-24984 *
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US-PATENT-3,543,159 ..... c 09 N71-24717 *
US-PATENT-3,543,839 ..... c 34 N78-17337 * #
US-PATENT-3,545,208 ..... c 28 N71-25213 *
US-PATENT-3,545,226 ..... c 23 N71-24725 *
US-PATENT-3,545,252 ..... c 11 N71-24985 *
US-PATENT-3,545,262 ..... c 38 N76-28563 * #
US-PATENT-3,545,275 ..... c 09 N71-24597 *
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US-PATENT-3,545,792 ..... c 15 N71-24903 *
US-PATENT-3,546,386 ..... c 07 N71-24621 *
US-PATENT-3,546,471 ..... c 14 N71-24864 *
US-PATENT-3,546,552 ..... c 15 N71-24895 *
US-PATENT-3,546,553 ..... c 09 N71-24805 *
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US-PATENT-3,546,931 ..... c 32 N71-25360 *
US-PATENT-3,547,105 ..... c 09 N71-24618 *
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US-PATENT-3,548,636 ..... c 15 N71-24910 *
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US-PATENT-3,551,816 ..... c 07 N71-24613 *
US-PATENT-3,551,831 ..... c 33 N75-27251 * #
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US-PATENT-3,552,125 ..... c 28 N71-26173 *
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US-PATENT-3,554,647 ..... c 23 N71-26206 *
US-PATENT-3,554,806 ..... c 03 N71-26084 *
US-PATENT-3,555,192 ..... c 07 N71-26181 *

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US-PATENT-3,557,534 ..... c 15 N71-26185 *
US-PATENT-3,559,031 ..... c 10 N71-26085 *
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US-PATENT-3,563,232 ..... c 05 N71-27234 *
US-PATENT-3,563,307 ..... c 15 N71-26611 *
US-PATENT-3,563,668 ..... c 14 N71-26788 *
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US-PATENT-3,563,918 ..... c 06 N71-27363 *
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US-PATENT-3,564,401 ..... c 14 N71-26135 *
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US-PATENT-3,564,866 ..... c 23 N71-26654 *
US-PATENT-3,564,906 ..... c 32 N71-26681 *
US-PATENT-3,565,530 ..... c 15 N71-26673 *
US-PATENT-3,565,584 ..... c 15 N71-27372 *
US-PATENT-3,565,607 ..... c 17 N71-26773 *
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US-PATENT-3,566,143 ..... c 14 N71-27407 *
US-PATENT-3,566,158 ..... c 10 N71-27126 * #
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US-PATENT-3,566,396 ..... c 10 N71-26544 *
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US-PATENT-3,571,693 ..... c 09 N71-27364 *
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US-PATENT-3,574,448 ..... c 23 N71-29123 *
US-PATENT-3,574,462 ..... c 14 N71-29041 *
US-PATENT-3,574,467 ..... c 23 N71-29125 *
US-PATENT-3,574,470 ..... c 14 N71-28993 *
US-PATENT-3,574,770 ..... c 06 N71-27254 *
US-PATENT-3,575,336 ..... c 15 N71-27214 *
US-PATENT-3,575,585 ..... c 14 N71-27058 *
US-PATENT-3,575,597 ..... c 14 N71-27090 *
US-PATENT-3,575,602 ..... c 16 N71-27183 *
US-PATENT-3,575,638 ..... c 09 N71-26133 *
US-PATENT-3,575,641 ..... c 10 N71-26334 *
US-PATENT-3,576,107 ..... c 28 N71-26781 *
US-PATENT-3,576,127 ..... c 14 N71-26161 *
US-PATENT-3,576,135 ..... c 15 N71-26635 *
US-PATENT-3,576,301 ..... c 02 N71-26110 *
US-PATENT-3,576,656 ..... c 18 N71-26772 *
US-PATENT-3,576,669 ..... c 15 N71-29032 *
US-PATENT-3,576,723 ..... c 09 N71-28691 *
US-PATENT-3,576,786 ..... c 06 N71-28620 *
US-PATENT-3,577,014 ..... c 10 N71-28860 *
US-PATENT-3,577,092 ..... c 07 N71-28430 *
US-PATENT-3,577,356 ..... c 06 N73-30102 * #
US-PATENT-3,578,755 ..... c 14 N71-29134 *
US-PATENT-3,578,756 ..... c 11 N71-28629 *
US-PATENT-3,578,758 ..... c 14 N71-28992 *
US-PATENT-3,578,838 ..... c 16 N71-29131 *
US-PATENT-3,578,867 ..... c 14 N71-28994 *
US-PATENT-3,578,957 ..... c 08 N71-29033 *
US-PATENT-3,578,988 ..... c 09 N71-29139 *
US-PATENT-3,578,992 ..... c 09 N71-28421 *
US-PATENT-3,579,041 ..... c 09 N71-29008 *
US-PATENT-3,579,103 ..... c 14 N71-28991 *
US-PATENT-3,579,122 ..... c 08 N71-29034 *
US-PATENT-3,579,146 ..... c 08 N71-29138 *
US-PATENT-3,579,147 ..... c 07 N71-28429 *
US-PATENT-3,579,168 ..... c 09 N71-29035 *
US-PATENT-3,579,242 ..... c 07 N71-28980 *
US-PATENT-3,579,390 ..... c 18 N71-28729 *
US-PATENT-3,579,412 ..... c 17 N71-28747 *
US-PATENT-3,581,492 ..... c 28 N71-28915 *
US-PATENT-3,582,828 ..... c 33 N77-21314 * #
US-PATENT-3,582,960 ..... c 09 N71-28618 *
US-PATENT-3,583,058 ..... c 15 N71-29018 *
US-PATENT-3,583,239 ..... c 15 N71-29132 *
US-PATENT-3,583,322 ..... c 05 N71-28619 *
US-PATENT-3,583,419 ..... c 12 N71-28741 *
US-PATENT-3,583,744 ..... c 15 N71-29133 *
US-PATENT-3,583,777 ..... c 15 N71-28465 *
US-PATENT-3,583,815 ..... c 15 N71-28740 *
US-PATENT-3,584,311 ..... c 09 N71-28468 *
US-PATENT-3,584,660 ..... c 15 N72-12408 *
US-PATENT-3,585,514 ..... c 10 N71-33129 *
US-PATENT-3,585,882 ..... c 15 N71-33518 *
US-PATENT-3,586,261 ..... c 31 N71-33160 *
US-PATENT-3,587,306 ..... c 11 N71-33612 *
US-PATENT-3,587,424 ..... c 16 N71-33410 *
US-PATENT-3,588,220 ..... c 23 N71-33229 *
US-PATENT-3,588,331 ..... c 07 N72-12081 *
US-PATENT-3,588,359 ..... c 07 N71-33108 *
US-PATENT-3,588,483 ..... c 08 N71-33110 *
US-PATENT-3,588,648 ..... c 07 N71-33613 *
US-PATENT-3,588,671 ..... c 09 N71-33109 *
US-PATENT-3,588,705 ..... c 07 N71-33696 *
US-PATENT-3,588,751 ..... c 07 N71-33606 *
US-PATENT-3,588,874 ..... c 09 N71-33519 *
US-PATENT-3,588,883 ..... c 10 N71-33407 *
US-PATENT-3,591,420 ..... c 03 N71-33409 *
US-PATENT-3,591,426 ..... c 17 N71-33408 *
US-PATENT-3,591,885 ..... c 15 N72-11390 *
US-PATENT-3,591,960 ..... c 15 N72-12409 *
US-PATENT-3,591,967 ..... c 28 N72-11709 *
US-PATENT-3,592,422 ..... c 15 N72-11391 *
US-PATENT-3,592,478 ..... c 09 N72-11224 *
US-PATENT-3,592,505 ..... c 05 N72-11085 *
US-PATENT-3,592,545 ..... c 14 N72-11364 *
US-PATENT-3,592,559 ..... c 02 N72-11018 *
US-PATENT-3,592,628 ..... c 15 N72-11387 *
US-PATENT-3,592,768 ..... c 15 N72-11389 *
US-PATENT-3,593,001 ..... c 15 N72-11392 *
US-PATENT-3,593,024 ..... c 24 N72-11595 *
US-PATENT-3,593,132 ..... c 09 N72-11225 *
US-PATENT-3,593,138 ..... c 07 N72-11149 *
US-PATENT-3,593,175 ..... c 10 N72-11256 *
US-PATENT-3,593,180 ..... c 07 N72-11150 *
US-PATENT-3,593,194 ..... c 16 N72-12440 *
US-PATENT-3,594,790 ..... c 07 N72-12080 *
US-PATENT-3,594,803 ..... c 09 N72-12136 *
US-PATENT-3,596,465 ..... c 28 N72-11708 *
US-PATENT-3,596,510 ..... c 14 N72-11363 *
US-PATENT-3,596,554 ..... c 15 N72-11385 *
US-PATENT-3,596,863 ..... c 15 N72-11386 *
US-PATENT-3,597,281 ..... c 03 N72-11062 *
US-PATENT-3,598,921 ..... c 08 N72-11171 *
US-PATENT-3,599,216 ..... c 07 N72-11148 *
US-PATENT-3,599,335 ..... c 08 N72-11172 *
US-PATENT-3,599,443 ..... c 05 N72-11084 *
US-PATENT-3,599,489 ..... c 14 N72-11365 *
US-PATENT-3,600,046 ..... c 15 N72-11388 *
US-PATENT-3,600,599 ..... c 33 N78-17296 * #
US-PATENT-3,602,920 ..... c 11 N72-17183 * #
US-PATENT-3,602,923 ..... c 05 N72-22093 * #
US-PATENT-3,602,979 ..... c 15 N72-22492 * #
US-PATENT-3,602,984 ..... c 26 N72-17820 * #
US-PATENT-3,603,092 ..... c 28 N72-17843 * #
US-PATENT-3,603,093 ..... c 28 N72-18766 * #
US-PATENT-3,603,260 ..... c 33 N72-17947 * #
US-PATENT-3,603,285 ..... c 25 N75-29192 * #
US-PATENT-3,603,382 ..... c 33 N72-17948 * #
US-PATENT-3,603,433 ..... c 15 N72-17450 * #
US-PATENT-3,603,532 ..... c 30 N72-17873 * #
US-PATENT-3,603,683 ..... c 14 N72-17326 * #
US-PATENT-3,603,686 ..... c 16 N72-13437 *
US-PATENT-3,603,690 ..... c 14 N72-17323 * #
US-PATENT-3,603,722 ..... c 07 N72-17109 * #
US-PATENT-3,603,772 ..... c 08 N72-22166 * #
US-PATENT-3,603,798 ..... c 09 N72-17152 * #
US-PATENT-3,603,864 ..... c 09 N72-17154 * #
US-PATENT-3,603,892 ..... c 09 N72-17155 * #
US-PATENT-3,603,946 ..... c 09 N72-17153 * #
US-PATENT-3,603,974 ..... c 14 N72-18411 * #
US-PATENT-3,603,976 ..... c 08 N72-18184 * #
US-PATENT-3,605,032 ..... c 10 N72-17172 * #
US-PATENT-3,605,424 ..... c 15 N72-17453 * #
US-PATENT-3,605,482 ..... c 14 N72-16282 * #
US-PATENT-3,605,495 ..... c 14 N72-17327 * #
US-PATENT-3,605,519 ..... c 14 N72-17324 * #
US-PATENT-3,606,212 ..... c 31 N72-18859 * #
US-PATENT-3,606,470 ..... c 46 N74-23068 * #
US-PATENT-3,606,522 ..... c 23 N72-23695 * #
US-PATENT-3,606,979 ..... c 15 N72-17454 * #
US-PATENT-3,607,015 ..... c 06 N72-17093 * #
US-PATENT-3,607,076 ..... c 06 N72-17094 * #
US-PATENT-3,607,080 ..... c 06 N72-17095 * #
US-PATENT-3,607,338 ..... c 18 N72-17532 * #
US-PATENT-3,607,401 ..... c 03 N72-15986 * #
US-PATENT-3,607,495 ..... c 15 N72-16330 * #
US-PATENT-3,608,046 ..... c 15 N72-16329 * #
US-PATENT-3,608,365 ..... c 15 N72-17452 * #
US-PATENT-3,608,409 ..... c 14 N72-16283 * #
US-PATENT-3,608,844 ..... c 15 N72-18477 * #
US-PATENT-3,609,230 ..... c 09 N72-17156 * #
US-PATENT-3,609,271 ..... c 09 N72-22204 * #
US-PATENT-3,609,327 ..... c 08 N72-22167 * #
US-PATENT-3,609,353 ..... c 14 N72-17328 * #
US-PATENT-3,609,364 ..... c 10 N72-17173 * #
US-PATENT-3,609,387 ..... c 09 N72-17157 * #
US-PATENT-3,609,535 ..... c 14 N72-17325 * #
US-PATENT-3,609,567 ..... c 10 N72-17171 * #
US-PATENT-3,609,740 ..... c 05 N72-16015 * #
US-PATENT-3,610,365 ..... c 15 N72-17451 * #
US-PATENT-3,611,274 ..... c 15 N72-17455 * #
US-PATENT-3,611,330 ..... c 23 N72-17747 * #
US-PATENT-3,611,798 ..... c 14 N72-22437 * #
US-PATENT-3,611,801 ..... c 14 N72-17329 * #
US-PATENT-3,612,030 ..... c 46 N74-23069 * #
US-PATENT-3,612,391 ..... c 11 N72-22245 * #
US-PATENT-3,612,442 ..... c 28 N72-22769 * #
US-PATENT-3,612,645 ..... c 14 N72-22441 * #
US-PATENT-3,612,743 ..... c 09 N72-22198 * #
US-PATENT-3,612,895 ..... c 09 N72-22197 * #
US-PATENT-3,613,110 ..... c 08 N72-21199 * #
US-PATENT-3,613,111 ..... c 08 N72-21200 * #
US-PATENT-3,613,370 ..... c 28 N72-22770 * #
US-PATENT-3,613,454 ..... c 35 N77-27368 * #
US-PATENT-3,613,457 ..... c 15 N72-22482 * #
US-PATENT-3,613,794 ..... c 12 N72-21310 * #
US-PATENT-3,614,228 ..... c 14 N72-21409 * #
US-PATENT-3,614,327 ..... c 08 N72-22162 * #
US-PATENT-3,614,343 ..... c 07 N72-21119 * #
US-PATENT-3,614,431 ..... c 14 N72-21408 * #
US-PATENT-3,614,475 ..... c 10 N72-16172 * #
US-PATENT-3,614,557 ..... c 26 N72-21701 * #
US-PATENT-3,614,587 ..... c 09 N72-22196 * #
US-PATENT-3,614,648 ..... c 09 N72-21247 * #
US-PATENT-3,614,772 ..... c 08 N72-22163 * #
US-PATENT-3,614,898 ..... c 15 N72-21462 * #
US-PATENT-3,614,899 ..... c 09 N72-22195 * #
US-PATENT-3,615,021 ..... c 15 N72-22483 * #
US-PATENT-3,615,241 ..... c 15 N72-21465 * #
US-PATENT-3,615,465 ..... c 06 N72-21094 * #

US-PATENT-3,615,853 ..... c 03 N72-22042 * #
US-PATENT-3,616,338 ..... c 15 N72-21466 * #
US-PATENT-3,616,528 ..... c 03 N72-22041 * #
US-PATENT-3,617,804 ..... c 25 N72-24753 * #
US-PATENT-3,619,896 ..... c 15 N72-22487 * #
US-PATENT-3,619,924 ..... c 11 N72-22247 * #
US-PATENT-3,620,018 ..... c 28 N72-22771 * #
US-PATENT-3,620,069 ..... c 14 N72-22440 * #
US-PATENT-3,620,076 ..... c 11 N72-22246 * #
US-PATENT-3,620,083 ..... c 14 N72-22438 * #
US-PATENT-3,620,095 ..... c 15 N72-21463 * #
US-PATENT-3,620,585 ..... c 15 N72-22490 * #
US-PATENT-3,620,595 ..... c 14 N72-22445 * #
US-PATENT-3,620,606 ..... c 23 N72-22673 * #
US-PATENT-3,620,718 ..... c 17 N72-22535 * #
US-PATENT-3,620,784 ..... c 18 N72-23581 * #
US-PATENT-3,620,791 ..... c 18 N72-22566 * #
US-PATENT-3,620,846 ..... c 31 N72-22874 * #
US-PATENT-3,621,130 ..... c 08 N72-22164 * #
US-PATENT-3,621,193 ..... c 15 N72-23497 * #
US-PATENT-3,621,194 ..... c 15 N72-22491 * #
US-PATENT-3,621,228 ..... c 08 N72-22165 * #
US-PATENT-3,621,277 ..... c 10 N72-22236 * #
US-PATENT-3,621,285 ..... c 09 N72-22200 * #
US-PATENT-3,621,287 ..... c 09 N72-22201 * #
US-PATENT-3,621,290 ..... c 09 N72-22202 * #
US-PATENT-3,621,294 ..... c 09 N72-23171 * #
US-PATENT-3,621,330 ..... c 33 N77-21316 * #
US-PATENT-3,621,362 ..... c 09 N72-22203 * #
US-PATENT-3,621,372 ..... c 09 N72-25249 * #
US-PATENT-3,621,406 ..... c 09 N72-33204 * #
US-PATENT-3,621,407 ..... c 09 N72-21245 * #
US-PATENT-3,621,565 ..... c 09 N72-22199 * #
US-PATENT-3,623,030 ..... c 08 N72-21198 * #
US-PATENT-3,623,094 ..... c 10 N72-22235 * #
US-PATENT-3,623,107 ..... c 07 N72-21117 * #
US-PATENT-3,623,114 ..... c 07 N72-22127 * #
US-PATENT-3,623,359 ..... c 35 N77-27367 * #
US-PATENT-3,623,360 ..... c 14 N72-21405 * #
US-PATENT-3,623,361 ..... c 14 N72-21407 * #
US-PATENT-3,623,394 ..... c 15 N72-22488 * #
US-PATENT-3,623,828 ..... c 15 N72-22489 * #
US-PATENT-3,623,861 ..... c 17 N72-22530 * #
US-PATENT-3,624,496 ..... c 15 N72-21464 * #
US-PATENT-3,624,598 ..... c 21 N72-22619 * #
US-PATENT-3,624,650 ..... c 07 N72-21118 * #
US-PATENT-3,624,659 ..... c 09 N72-21246 * #
US-PATENT-3,624,839 ..... c 05 N72-20098 * #
US-PATENT-3,625,018 ..... c 15 N72-22484 * #
US-PATENT-3,625,084 ..... c 15 N72-22485 * #
US-PATENT-3,625,766 ..... c 03 N72-20032 * #
US-PATENT-3,626,114 ..... c 35 N79-16246 * #
US-PATENT-3,626,189 ..... c 14 N72-20381 * #
US-PATENT-3,626,218 ..... c 14 N72-22439 * #
US-PATENT-3,626,298 ..... c 07 N72-20140 * #
US-PATENT-3,626,308 ..... c 10 N72-20223 * #
US-PATENT-3,626,828 ..... c 14 N72-20380 * #
US-PATENT-3,628,113 ..... c 37 N77-27400 * #
US-PATENT-3,629,068 ..... c 22 N72-20597 * #
US-PATENT-3,629,161 ..... c 18 N72-22567 * #
US-PATENT-3,630,276 ..... c 33 N72-20915 * #
US-PATENT-3,630,304 ..... c 11 N72-20244 * #
US-PATENT-3,630,627 ..... c 03 N72-20033 * #
US-PATENT-3,631,339 ..... c 08 N72-20177 * #
US-PATENT-3,631,351 ..... c 10 N72-20224 * #
US-PATENT-3,631,382 ..... c 09 N72-20200 * #
US-PATENT-3,631,737 ..... c 15 N72-28495 * #
US-PATENT-3,632,081 ..... c 15 N72-20442 * #
US-PATENT-3,632,140 ..... c 15 N72-20445 * #
US-PATENT-3,632,242 ..... c 15 N72-20446 * #
US-PATENT-3,632,923 ..... c 09 N72-20199 * #
US-PATENT-3,632,996 ..... c 08 N72-20176 * #
US-PATENT-3,633,048 ..... c 10 N72-20221 * #
US-PATENT-3,633,110 ..... c 07 N72-20141 * #
US-PATENT-3,634,383 ..... c 27 N73-22710 * #
US-PATENT-3,635,216 ..... c 05 N72-20096 * #
US-PATENT-3,635,537 ..... c 33 N80-14330 * #
US-PATENT-3,635,765 ..... c 03 N72-20034 * #
US-PATENT-3,636,539 ..... c 03 N72-20031 * #
US-PATENT-3,636,564 ..... c 05 N72-22092 * #
US-PATENT-3,636,623 ..... c 15 N72-20444 * #
US-PATENT-3,636,711 ..... c 28 N72-20758 * #
US-PATENT-3,636,966 ..... c 05 N72-20097 * #
US-PATENT-3,637,051 ..... c 15 N72-20443 * #
US-PATENT-3,637,170 ..... c 21 N72-21624 * #
US-PATENT-3,637,312 ..... c 14 N72-20379 * #
US-PATENT-3,637,842 ..... c 06 N72-20121 * #
US-PATENT-3,638,002 ..... c 08 N72-21197 * #
US-PATENT-3,638,066 ..... c 10 N72-20225 * #
US-PATENT-3,638,103 ..... c 09 N72-21243 * #
US-PATENT-3,638,114 ..... c 10 N72-20222 * #
US-PATENT-3,638,224 ..... c 09 N72-21244 * #
US-PATENT-3,639,250 ..... c 14 N72-22443 * #
US-PATENT-3,639,510 ..... c 06 N72-22107 * #
US-PATENT-3,639,809 ..... c 15 N72-22486 * #
US-PATENT-3,639,835 ..... c 14 N72-22442 * #
US-PATENT-3,640,256 ..... c 28 N72-22772 * #
US-PATENT-3,641,470 ..... c 35 N78-17359 * #
US-PATENT-3,647,276 ..... c 14 N72-22444 * #
US-PATENT-3,647,529 ..... c 27 N74-23125 * #
US-PATENT-3,647,924 ..... c 11 N72-23215 * #
US-PATENT-3,648,043 ..... c 09 N72-23173 * #
US-PATENT-3,648,083 ..... c 12 N72-25292 * #
US-PATENT-3,648,152 ..... c 03 N72-23048 * #
US-PATENT-3,648,209 ..... c 09 N72-27226 * #
US-PATENT-3,648,250 ..... c 09 N72-25248 * #
US-PATENT-3,648,256 ..... c 08 N72-25207 * #
US-PATENT-3,648,275 ..... c 08 N72-25206 * #
US-PATENT-3,648,461 ..... c 28 N72-23810 * #
US-PATENT-3,648,516 ..... c 35 N74-22095 * #
US-PATENT-3,649,242 ..... c 15 N72-25448 * #
US-PATENT-3,649,353 ..... c 26 N72-28762 * #
US-PATENT-3,649,356 ..... c 15 N72-25447 * #
US-PATENT-3,649,462 ..... c 11 N72-25284 * #
US-PATENT-3,649,907 ..... c 09 N72-23172 * #
US-PATENT-3,649,921 ..... c 05 N72-23085 * #
US-PATENT-3,649,935 ..... c 07 N72-25170 * #
US-PATENT-3,650,095 ..... c 14 N72-23457 * #
US-PATENT-3,650,474 ..... c 28 N72-23809 * #
US-PATENT-3,651,008 ..... c 27 N81-24258 * #
US-PATENT-3,653,052 ..... c 09 N72-25247 * #
US-PATENT-3,653,882 ..... c 18 N72-25539 * #
US-PATENT-3,653,970 ..... c 03 N72-24037 * #
US-PATENT-3,654,036 ..... c 03 N72-25019 * #
US-PATENT-3,655,814 ..... c 27 N81-15104 * #
US-PATENT-3,656,313 ..... c 23 N72-25619 * #
US-PATENT-3,656,317 ..... c 33 N72-25911 * #
US-PATENT-3,656,352 ..... c 14 N72-25411 * #
US-PATENT-3,656,781 ..... c 15 N72-25450 * #
US-PATENT-3,657,190 ..... c 23 N82-29358 * #
US-PATENT-3,657,549 ..... c 14 N72-25409 * #
US-PATENT-3,657,644 ..... c 14 N72-24477 * #
US-PATENT-3,657,928 ..... c 14 N72-25410 * #
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US-PATENT-3,658,569 ..... c 15 N72-25452 * #
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US-PATENT-3,658,974 ..... c 15 N72-24522 * #
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US-PATENT-3,659,053 ..... c 08 N72-25208 * #
US-PATENT-3,659,148 ..... c 09 N72-25250 * #
US-PATENT-3,659,184 ..... c 09 N72-25251 * #
US-PATENT-3,659,225 ..... c 16 N72-25485 * #
US-PATENT-3,659,292 ..... c 08 N72-25209 * #
US-PATENT-3,660,240 ..... c 06 N72-25149 * #
US-PATENT-3,660,434 ..... c 06 N72-25148 * #
US-PATENT-3,660,704 ..... c 15 N72-25456 * #
US-PATENT-3,660,851 ..... c 05 N72-25119 * #
US-PATENT-3,662,337 ..... c 08 N72-25210 * #
US-PATENT-3,662,441 ..... c 05 N72-25121 * #
US-PATENT-3,662,547 ..... c 15 N72-25455 * #
US-PATENT-3,662,604 ..... c 13 N72-25323 * #
US-PATENT-3,662,661 ..... c 31 N72-25842 * #
US-PATENT-3,662,744 ..... c 05 N72-25122 * #
US-PATENT-3,662,973 ..... c 21 N72-25595 * #
US-PATENT-3,663,346 ..... c 18 N72-25541 * #
US-PATENT-3,663,347 ..... c 18 N72-25540 * #
US-PATENT-3,663,464 ..... c 06 N72-25147 * #
US-PATENT-3,663,521 ..... c 06 N72-25152 * #
US-PATENT-3,663,753 ..... c 14 N72-25414 * #
US-PATENT-3,663,828 ..... c 09 N72-25262 * #
US-PATENT-3,663,839 ..... c 09 N72-25260 * #
US-PATENT-3,663,843 ..... c 09 N72-25255 * #
US-PATENT-3,663,885 ..... c 09 N72-25257 * #
US-PATENT-3,663,886 ..... c 09 N72-25258 * #
US-PATENT-3,663,929 ..... c 09 N72-25256 * #
US-PATENT-3,663,938 ..... c 03 N72-25020 * #
US-PATENT-3,663,940 ..... c 09 N72-25252 * #
US-PATENT-3,663,941 ..... c 09 N72-25253 * #
US-PATENT-3,663,944 ..... c 09 N72-25254 * #
US-PATENT-3,664,185 ..... c 15 N72-26371 * #
US-PATENT-3,664,874 ..... c 09 N72-25259 * #
US-PATENT-3,665,064 ..... c 05 N72-25120 * #
US-PATENT-3,665,307 ..... c 15 N72-25457 * #
US-PATENT-3,665,313 ..... c 07 N72-25173 * #
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US-PATENT-3,665,481 ..... c 07 N72-25174 * #
US-PATENT-3,665,589 ..... c 09 N72-25261 * #
US-PATENT-3,665,669 ..... c 15 N72-25454 * #
US-PATENT-3,665,670 ..... c 11 N72-25287 * #
US-PATENT-3,665,750 ..... c 33 N72-25913 * #
US-PATENT-3,665,751 ..... c 32 N72-25877 * #
US-PATENT-3,665,758 ..... c 11 N72-25288 * #
US-PATENT-3,666,051 ..... c 15 N72-25453 * #
US-PATENT-3,666,120 ..... c 03 N72-25021 * #
US-PATENT-3,666,566 ..... c 03 N72-26031 * #
US-PATENT-3,666,631 ..... c 14 N72-25413 * #
US-PATENT-3,666,718 ..... c 06 N72-25151 * #
US-PATENT-3,666,741 ..... c 06 N72-25150 * #
US-PATENT-3,666,942 ..... c 06 N72-25146 * #
US-PATENT-3,667,010 ..... c 26 N72-25679 * #
US-PATENT-3,667,039 ..... c 26 N72-25680 * #
US-PATENT-3,667,044 ..... c 07 N72-25171 * #
US-PATENT-3,668,956 ..... c 15 N72-27485 * #
US-PATENT-3,669,110 ..... c 05 N72-27103 * #
US-PATENT-3,669,393 ..... c 15 N72-27484 * #
US-PATENT-3,670,097 ..... c 23 N72-27728 * #
US-PATENT-3,670,168 ..... c 14 N72-27409 * #
US-PATENT-3,670,202 ..... c 14 N72-27411 * #
US-PATENT-3,670,241 ..... c 14 N72-27408 * #
US-PATENT-3,670,290 ..... c 09 N72-28225 * #
US-PATENT-3,670,559 ..... c 33 N72-27959 * #
US-PATENT-3,670,563 ..... c 14 N72-27412 * #
US-PATENT-3,670,564 ..... c 11 N72-27262 * #
US-PATENT-3,670,890 ..... c 05 N72-27102 * #
US-PATENT-3,671,105 ..... c 26 N72-27784 * #
US-PATENT-3,671,329 ..... c 14 N72-27410 * #
US-PATENT-3,671,497 ..... c 06 N72-27144 * #
US-PATENT-3,671,798 ..... c 10 N72-27246 * #
US-PATENT-3,672,999 ..... c 03 N72-27053 * #
US-PATENT-3,673,424 ..... c 09 N72-27227 * #
US-PATENT-3,673,440 ..... c 09 N72-27228 * #
US-PATENT-3,675,332 ..... c 14 N72-28436 * #
US-PATENT-3,675,376 ..... c 15 N72-28496 * #
US-PATENT-3,675,712 ..... c 03 N72-28025 * #
US-PATENT-3,675,910 ..... c 17 N72-28535 * #
US-PATENT-3,675,935 ..... c 15 N72-29488 * #
US-PATENT-3,676,084 ..... c 17 N72-28536 * #
US-PATENT-3,676,674 ..... c 14 N72-29464 * #
US-PATENT-3,676,754 ..... c 26 N72-28761 * #
US-PATENT-3,676,772 ..... c 10 N72-28240 * #
US-PATENT-3,676,787 ..... c 16 N72-28521 * #
US-PATENT-3,676,809 ..... c 09 N72-29172 * #
US-PATENT-3,678,191 ..... c 10 N72-31273 * #
US-PATENT-3,678,654 ..... c 06 N72-31140 * #
US-PATENT-3,678,685 ..... c 21 N72-31637 * #
US-PATENT-3,678,771 ..... c 37 N74-23070 * #
US-PATENT-3,679,360 ..... c 04 N72-33072 * #
US-PATENT-3,679,899 ..... c 06 N72-31141 * #
US-PATENT-3,680,142 ..... c 09 N72-31235 * #
US-PATENT-3,680,144 ..... c 07 N72-32169 * #
US-PATENT-3,680,830 ..... c 15 N72-31483 * #
US-PATENT-3,681,581 ..... c 08 N72-31226 * #
US-PATENT-3,686,542 ..... c 14 N72-31446 * #
US-PATENT-3,690,291 ..... c 15 N72-32487 * #
US-PATENT-3,692,533 ..... c 05 N72-33096 * #
US-PATENT-3,693,002 ..... c 25 N72-32688 * #
US-PATENT-3,693,105 ..... c 10 N72-33230 * #
US-PATENT-3,693,346 ..... c 15 N72-33477 * #
US-PATENT-3,693,418 ..... c 14 N72-33377 * #
US-PATENT-3,694,041 ..... c 15 N72-33476 * #
US-PATENT-3,694,094 ..... c 14 N72-32452 * #
US-PATENT-3,694,313 ..... c 24 N72-33681 * #
US-PATENT-3,694,581 ..... c 08 N72-33172 * #
US-PATENT-3,694,655 ..... c 25 N72-33696 * #
US-PATENT-3,694,700 ..... c 09 N72-33205 * #
US-PATENT-3,694,753 ..... c 07 N72-33146 * #
US-PATENT-3,694,771 ..... c 09 N73-15235 * #
US-PATENT-3,695,101 ..... c 11 N73-12264 * #
US-PATENT-3,696,418 ..... c 09 N73-12211 * #
US-PATENT-3,696,833 ..... c 11 N73-12265 * #
US-PATENT-3,697,021 ..... c 15 N73-12486 * #
US-PATENT-3,697,630 ..... c 15 N73-12489 * #
US-PATENT-3,697,705 ..... c 35 N77-21392 * #
US-PATENT-3,697,733 ..... c 08 N73-12176 * #
US-PATENT-3,697,950 ..... c 08 N73-12177 * #
US-PATENT-3,697,968 ..... c 21 N73-13644 * #
US-PATENT-3,698,385 ..... c 05 N73-13114 * #
US-PATENT-3,698,412 ..... c 14 N73-13418 * #
US-PATENT-3,698,659 ..... c 11 N73-13257 * #
US-PATENT-3,698,667 ..... c 02 N73-13008 * #
US-PATENT-3,698,848 ..... c 15 N73-13464 * #
US-PATENT-3,699,511 ..... c 21 N73-13643 * #
US-PATENT-3,699,645 ..... c 14 N73-13417 * #
US-PATENT-3,699,799 ..... c 15 N73-13463 * #
US-PATENT-3,699,807 ..... c 14 N73-13416 * #
US-PATENT-3,699,811 ..... c 14 N73-13415 * #
US-PATENT-3,700,005 ..... c 15 N73-13462 * #
US-PATENT-3,700,192 ..... c 31 N73-13898 * #
US-PATENT-3,700,193 ..... c 30 N73-12884 * #
US-PATENT-3,700,291 ..... c 15 N73-12488 * #
US-PATENT-3,700,334 ..... c 14 N73-12446 * #
US-PATENT-3,700,503 ..... c 14 N73-12447 * #
US-PATENT-3,700,538 ..... c 18 N73-12604 * #
US-PATENT-3,700,575 ..... c 15 N73-12487 * #
US-PATENT-3,700,603 ..... c 14 N73-14428 * #
US-PATENT-3,700,812 ..... c 10 N73-12244 * #
US-PATENT-3,700,868 ..... c 09 N73-13209 * #
US-PATENT-3,700,869 ..... c 08 N73-12175 * #
US-PATENT-3,700,893 ..... c 14 N73-12444 * #
US-PATENT-3,700,897 ..... c 14 N73-12445 * #
US-PATENT-3,700,961 ..... c 23 N73-13660 * #
US-PATENT-3,701,631 ..... c 17 N73-12547 * #
US-PATENT-3,701,894 ..... c 07 N73-13149 * #
US-PATENT-3,702,463 ..... c 08 N73-13187 * #
US-PATENT-3,702,520 ..... c 32 N73-13921 * #
US-PATENT-3,702,532 ..... c 15 N73-13467 * #
US-PATENT-3,702,536 ..... c 28 N73-13773 * #

US-PATENT-3,702,575 ..... c 15 N73-13466 * #
US-PATENT-3,702,688 ..... c 31 N73-14854 * #
US-PATENT-3,702,735 ..... c 23 N73-13661 * #
US-PATENT-3,702,762 ..... c 06 N73-13129 * #
US-PATENT-3,702,775 ..... c 06 N73-13128 * #
US-PATENT-3,702,791 ..... c 15 N73-13465 * #
US-PATENT-3,702,841 ..... c 18 N73-13562 * #
US-PATENT-3,702,898 ..... c 10 N73-13235 * #
US-PATENT-3,702,933 ..... c 23 N73-13662 * #
US-PATENT-3,702,951 ..... c 09 N73-13208 * #
US-PATENT-3,702,972 ..... c 16 N73-13489 * #
US-PATENT-3,702,979 ..... c 14 N73-13420 * #
US-PATENT-3,704,284 ..... c 74 N81-19898 * #
US-PATENT-3,704,659 ..... c 14 N73-14427 * #
US-PATENT-3,705,255 ..... c 15 N73-14469 * #
US-PATENT-3,705,288 ..... c 15 N73-14468 * #
US-PATENT-3,705,316 ..... c 09 N73-14214 * #
US-PATENT-3,705,406 ..... c 07 N73-14130 * #
US-PATENT-3,706,221 ..... c 14 N73-14429 * #
US-PATENT-3,706,230 ..... c 31 N73-14855 * #
US-PATENT-3,706,281 ..... c 31 N73-14853 * #
US-PATENT-3,706,583 ..... c 18 N73-14584 * #
US-PATENT-3,706,970 ..... c 21 N73-14692 * #
US-PATENT-3,708,359 ..... c 27 N73-16764 * #
US-PATENT-3,708,419 ..... c 33 N73-16918 * #
US-PATENT-3,708,671 ..... c 14 N73-16483 * #
US-PATENT-3,708,674 ..... c 14 N73-16484 * #
US-PATENT-3,709,663 ..... c 06 N73-16106 * #
US-PATENT-3,710,122 ..... c 16 N73-16536 * #
US-PATENT-3,710,257 ..... c 07 N73-16121 * #
US-PATENT-3,710,261 ..... c 10 N73-16205 * #
US-PATENT-3,710,329 ..... c 10 N73-16206 * #
US-PATENT-3,711,042 ..... c 02 N73-19004 * #
US-PATENT-3,711,701 ..... c 74 N77-21941 * #
US-PATENT-3,712,120 ..... c 14 N73-19421 * #
US-PATENT-3,712,121 ..... c 14 N73-19420 * #
US-PATENT-3,712,132 ..... c 14 N73-20478 * #
US-PATENT-3,712,195 ..... c 14 N73-19419 * #
US-PATENT-3,712,591 ..... c 15 N73-19458 * #
US-PATENT-3,713,163 ..... c 09 N73-19234 * #
US-PATENT-3,713,290 ..... c 28 N73-19793 * #
US-PATENT-3,713,480 ..... c 05 N73-20137 * #
US-PATENT-3,713,987 ..... c 15 N73-20514 * #
US-PATENT-3,714,332 ..... c 15 N73-19457 * #
US-PATENT-3,714,405 ..... c 10 N73-20253 * #
US-PATENT-3,714,432 ..... c 14 N73-20475 * #
US-PATENT-3,714,526 ..... c 09 N73-19235 * #
US-PATENT-3,714,588 ..... c 09 N73-20231 * #
US-PATENT-3,714,624 ..... c 14 N73-20474 * #
US-PATENT-3,714,645 ..... c 08 N73-20217 * #
US-PATENT-3,714,821 ..... c 14 N73-20476 * #
US-PATENT-3,714,833 ..... c 11 N73-20267 * #
US-PATENT-3,715,092 ..... c 03 N73-20039 * #
US-PATENT-3,715,152 ..... c 23 N73-20741 * #
US-PATENT-3,715,590 ..... c 14 N73-20477 * #
US-PATENT-3,715,600 ..... c 03 N73-20040 * #
US-PATENT-3,715,660 ..... c 07 N73-20175 * #
US-PATENT-3,715,663 ..... c 07 N73-20174 * #
US-PATENT-3,715,693 ..... c 09 N73-20232 * #
US-PATENT-3,715,723 ..... c 07 N73-20176 * #
US-PATENT-3,715,915 ..... c 32 N73-20740 * #
US-PATENT-3,718,863 ..... c 10 N73-20254 * #
US-PATENT-3,719,891 ..... c 07 N73-25160 * #
US-PATENT-3,720,075 ..... c 33 N73-25952 * #
US-PATENT-3,720,208 ..... c 05 N73-25125 * #
US-PATENT-3,723,745 ..... c 14 N73-25462 * #
US-PATENT-3,728,861 ..... c 28 N73-24783 * #
US-PATENT-3,729,068 ..... c 15 N73-25512 * #
US-PATENT-3,729,129 ..... c 08 N73-25206 * #
US-PATENT-3,729,260 ..... c 14 N73-25463 * #
US-PATENT-3,729,343 ..... c 14 N73-24472 * #
US-PATENT-3,729,676 ..... c 14 N73-24473 * #
US-PATENT-3,729,736 ..... c 07 N73-25161 * #
US-PATENT-3,729,743 ..... c 07 N73-24176 * #
US-PATENT-3,729,935 ..... c 28 N73-24784 * #
US-PATENT-3,730,287 ..... c 11 N73-26238 * #
US-PATENT-3,730,891 ..... c 18 N73-26572 * #
US-PATENT-3,731,528 ..... c 12 N73-25262 * #
US-PATENT-3,731,531 ..... c 14 N73-25460 * #
US-PATENT-3,732,040 ..... c 15 N73-24513 * #
US-PATENT-3,732,158 ..... c 17 N73-24569 * #
US-PATENT-3,732,397 ..... c 33 N74-14935 * #
US-PATENT-3,732,405 ..... c 10 N73-25240 * #
US-PATENT-3,732,409 ..... c 08 N73-26175 * #
US-PATENT-3,732,567 ..... c 14 N73-25461 * #
US-PATENT-3,733,350 ..... c 06 N73-26100 * #
US-PATENT-3,733,424 ..... c 32 N73-26910 * #
US-PATENT-3,733,463 ..... c 14 N73-26430 * #
US-PATENT-3,734,432 ..... c 02 N73-26004 * #
US-PATENT-3,735,206 ..... c 10 N73-25243 * #
US-PATENT-3,735,591 ..... c 25 N73-25760 * #
US-PATENT-3,736,453 ..... c 33 N77-22386 * #
US-PATENT-3,736,607 ..... c 02 N73-26006 * #
US-PATENT-3,736,764 ..... c 05 N73-26071 * #
US-PATENT-3,736,849 ..... c 14 N73-26431 * #
US-PATENT-3,736,938 ..... c 05 N73-27062 * #
US-PATENT-3,736,956 ..... c 15 N73-26472 * #
US-PATENT-3,737,117 ..... c 31 N73-26876 * #
US-PATENT-3,737,118 ..... c 15 N73-25513 * #
US-PATENT-3,737,121 ..... c 02 N73-26005 * #
US-PATENT-3,737,181 ..... c 33 N73-26958 * #
US-PATENT-3,737,217 ..... c 05 N73-26072 * #
US-PATENT-3,737,231 ..... c 07 N73-26119 * #
US-PATENT-3,737,237 ..... c 26 N73-26751 * #
US-PATENT-3,737,639 ..... c 10 N73-26230 * #
US-PATENT-3,737,676 ..... c 10 N73-26229 * #
US-PATENT-3,737,757 ..... c 10 N73-26228 * #
US-PATENT-3,737,762 ..... c 14 N73-28486 * #
US-PATENT-3,737,776 ..... c 07 N73-26118 * #
US-PATENT-3,737,781 ..... c 10 N73-25241 * #
US-PATENT-3,737,815 ..... c 09 N73-26195 * #
US-PATENT-3,737,824 ..... c 26 N73-26752 * #
US-PATENT-3,737,905 ..... c 14 N73-26432 * #
US-PATENT-3,737,912 ..... c 07 N73-26117 * #
US-PATENT-3,739,646 ..... c 04 N76-26175 * #
US-PATENT-3,740,671 ..... c 10 N73-27171 * #
US-PATENT-3,740,725 ..... c 08 N73-26176 * #
US-PATENT-3,741,001 ..... c 14 N73-27376 * #
US-PATENT-3,742,316 ..... c 09 N73-27150 * #
US-PATENT-3,744,128 ..... c 09 N73-28083 * #
US-PATENT-3,744,148 ..... c 14 N73-28489 * #
US-PATENT-3,744,247 ..... c 28 N73-27699 * #
US-PATENT-3,744,294 ..... c 14 N73-27379 * #
US-PATENT-3,744,305 ..... c 12 N73-28144 * #
US-PATENT-3,744,320 ..... c 14 N73-28487 * #
US-PATENT-3,744,480 ..... c 05 N73-27941 * #
US-PATENT-3,744,510 ..... c 15 N73-27406 * #
US-PATENT-3,744,738 ..... c 14 N73-27378 * #
US-PATENT-3,744,739 ..... c 15 N77-10112 * #
US-PATENT-3,744,794 ..... c 14 N73-27377 * #
US-PATENT-3,744,912 ..... c 16 N73-30476 * #
US-PATENT-3,744,913 ..... c 14 N73-28490 * #
US-PATENT-3,744,972 ..... c 17 N73-27446 * #
US-PATENT-3,745,082 ..... c 18 N73-30532 * #
US-PATENT-3,745,089 ..... c 06 N73-27086 * #
US-PATENT-3,745,090 ..... c 04 N73-27052 * #
US-PATENT-3,745,149 ..... c 06 N73-27980 * #
US-PATENT-3,745,255 ..... c 07 N73-28012 * #
US-PATENT-3,745,300 ..... c 15 N73-28515 * #
US-PATENT-3,745,352 ..... c 08 N73-30135 * #
US-PATENT-3,745,357 ..... c 14 N73-28488 * #
US-PATENT-3,745,410 ..... c 09 N73-30181 * #
US-PATENT-3,745,475 ..... c 14 N73-30386 * #
US-PATENT-3,745,739 ..... c 15 N73-27405 * #
US-PATENT-3,745,816 ..... c 33 N73-27796 * #
US-PATENT-3,746,998 ..... c 07 N73-30113 * #
US-PATENT-3,747,111 ..... c 07 N73-28013 * #
US-PATENT-3,748,722 ..... c 15 N73-33383 * #
US-PATENT-3,748,853 ..... c 23 N73-30665 * #
US-PATENT-3,748,905 ..... c 14 N73-30395 * #
US-PATENT-3,749,123 ..... c 15 N73-30459 * #
US-PATENT-3,749,156 ..... c 31 N73-30829 * #
US-PATENT-3,749,205 ..... c 15 N73-30460 * #
US-PATENT-3,749,332 ..... c 31 N73-32750 * #
US-PATENT-3,749,362 ..... c 15 N73-30457 * #
US-PATENT-3,749,831 ..... c 07 N73-30115 * #
US-PATENT-3,749,911 ..... c 14 N73-30389 * #
US-PATENT-3,750,016 ..... c 14 N73-30388 * #
US-PATENT-3,750,035 ..... c 33 N77-13315 * #
US-PATENT-3,750,067 ..... c 09 N73-30185 * #
US-PATENT-3,750,131 ..... c 10 N73-30205 * #
US-PATENT-3,750,168 ..... c 21 N73-30641 * #
US-PATENT-3,750,479 ..... c 05 N73-30078 * #
US-PATENT-3,751,123 ..... c 15 N73-30458 * #
US-PATENT-3,751,727 ..... c 05 N73-32012 * #
US-PATENT-3,751,733 ..... c 05 N73-32013 * #
US-PATENT-3,751,913 ..... c 06 N73-30097 * #
US-PATENT-3,751,980 ..... c 14 N73-32326 * #
US-PATENT-3,752,556 ..... c 35 N74-17153 * #
US-PATENT-3,752,559 ..... c 14 N73-30393 * #
US-PATENT-3,752,564 ..... c 23 N73-30666 * #
US-PATENT-3,752,665 ..... c 18 N73-32437 * #
US-PATENT-3,752,847 ..... c 06 N73-30098 * #
US-PATENT-3,752,986 ..... c 14 N73-30392 * #
US-PATENT-3,752,993 ..... c 21 N73-30640 * #
US-PATENT-3,752,996 ..... c 91 N74-13130 * #
US-PATENT-3,753,148 ..... c 09 N73-32111 * #
US-PATENT-3,754,236 ..... c 08 N73-32081 * #
US-PATENT-3,754,263 ..... c 09 N73-32110 * #
US-PATENT-3,754,976 ..... c 15 N73-32360 * #
US-PATENT-3,755,265 ..... c 06 N73-33076 * #
US-PATENT-3,755,283 ..... c 06 N73-32029 * #
US-PATENT-3,755,686 ..... c 03 N73-31988 * #
US-PATENT-3,756,920 ..... c 05 N73-32011 * #
US-PATENT-3,757,183 ..... c 09 N73-32107 * #
US-PATENT-3,757,476 ..... c 31 N73-32749 * #
US-PATENT-3,757,568 ..... c 14 N73-32323 * #
US-PATENT-3,757,659 ..... c 14 N73-32322 * #
US-PATENT-3,758,112 ..... c 05 N73-32014 * #
US-PATENT-3,758,718 ..... c 10 N73-32143 * #
US-PATENT-3,758,741 ..... c 15 N73-32358 * #
US-PATENT-3,758,781 ..... c 14 N73-32317 * #
US-PATENT-3,758,877 ..... c 16 N73-32391 * #
US-PATENT-3,759,152 ..... c 14 N73-32319 * #
US-PATENT-3,759,249 ..... c 05 N73-32015 * #
US-PATENT-3,759,443 ..... c 28 N73-32606 * #
US-PATENT-3,759,588 ..... c 15 N73-32359 * #
US-PATENT-3,759,672 ..... c 14 N73-32320 * #
US-PATENT-3,759,746 ..... c 09 N73-32108 * #
US-PATENT-3,759,747 ..... c 44 N74-19692 * #
US-PATENT-3,759,787 ..... c 22 N73-32528 * #
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US-PATENT-3,760,248 ..... c 10 N73-32145 * #
US-PATENT-3,760,257 ..... c 09 N73-32109 * #
US-PATENT-3,760,268 ..... c 14 N73-32318 * #
US-PATENT-3,760,394 ..... c 10 N73-32144 * #
US-PATENT-3,762,884 ..... c 17 N73-32414 * #
US-PATENT-3,762,918 ..... c 17 N73-32415 * #
US-PATENT-3,763,204 ..... c 06 N73-32030 * #
US-PATENT-3,763,552 ..... c 26 N73-32571 * #
US-PATENT-3,763,691 ..... c 14 N73-32327 * #
US-PATENT-3,763,708 ..... c 35 N74-18323 * #
US-PATENT-3,763,740 ..... c 11 N73-32152 * #
US-PATENT-3,763,928 ..... c 33 N73-32818 * #
US-PATENT-3,764,097 ..... c 02 N74-10034 * #
US-PATENT-3,764,209 ..... c 14 N73-33361 * #
US-PATENT-3,764,220 ..... c 16 N73-33397 * #
US-PATENT-3,764,790 ..... c 33 N74-10223 * #
US-PATENT-3,764,850 ..... c 33 N74-10195 * #
US-PATENT-3,764,933 ..... c 33 N74-10194 * #
US-PATENT-3,765,229 ..... c 35 N74-10415 * #
US-PATENT-3,765,958 ..... c 26 N74-10521 * #
US-PATENT-3,766,315 ..... c 32 N74-10132 * #
US-PATENT-3,766,380 ..... c 35 N74-11284 * #
US-PATENT-3,767,212 ..... c 37 N74-10474 * #
US-PATENT-3,769,544 ..... c 31 N78-17238 * #
US-PATENT-3,769,623 ..... c 32 N74-11000 * #
US-PATENT-3,769,689 ..... c 37 N74-11301 * #
US-PATENT-3,769,834 ..... c 52 N74-10975 * #
US-PATENT-3,770,021 ..... c 33 N74-11050 * #
US-PATENT-3,770,903 ..... c 35 N74-11283 * #
US-PATENT-3,770,933 ..... c 37 N74-11300 * #
US-PATENT-3,771,037 ..... c 08 N74-10942 * #
US-PATENT-3,771,040 ..... c 33 N74-11049 * #
US-PATENT-3,771,074 ..... c 36 N74-11313 * #
US-PATENT-3,771,959 ..... c 25 N74-12813 * #
US-PATENT-3,772,174 ..... c 27 N74-13270 * #
US-PATENT-3,772,216 ..... c 27 N74-12812 * #
US-PATENT-3,772,220 ..... c 27 N74-12814 * #
US-PATENT-3,772,272 ..... c 33 N74-12887 * #
US-PATENT-3,772,418 ..... c 31 N74-13177 * #
US-PATENT-3,772,691 ..... c 32 N74-12912 * #
US-PATENT-3,773,038 ..... c 52 N74-12778 * #
US-PATENT-3,773,913 ..... c 46 N74-13011 * #
US-PATENT-3,775,101 ..... c 37 N74-13179 * #
US-PATENT-3,775,570 ..... c 35 N78-29421 * #
US-PATENT-3,776,028 ..... c 35 N74-13129 * #
US-PATENT-3,776,432 ..... c 37 N74-13178 * #
US-PATENT-3,776,455 ..... c 04 N74-13420 * #
US-PATENT-3,777,200 ..... c 33 N74-12913 * #
US-PATENT-3,777,490 ..... c 20 N74-13502 * #
US-PATENT-3,777,546 ..... c 35 N74-13132 * #
US-PATENT-3,777,552 ..... c 38 N74-15130 * #
US-PATENT-3,777,605 ..... c 39 N74-13131 * #
US-PATENT-3,777,811 ..... c 34 N78-17336 * #
US-PATENT-3,777,942 ..... c 54 N74-12779 * #
US-PATENT-3,778,685 ..... c 33 N74-12951 * #
US-PATENT-3,778,786 ..... c 60 N74-12888 * #
US-PATENT-3,778,791 ..... c 36 N74-13205 * #
US-PATENT-3,779,788 ..... c 70 N74-13436 * #
US-PATENT-3,780,151 ..... c 31 N74-14133 * #
US-PATENT-3,780,424 ..... c 44 N74-14784 * #
US-PATENT-3,780,563 ..... c 35 N74-15092 * #
US-PATENT-3,780,827 ..... c 07 N74-15453 * #
US-PATENT-3,780,966 ..... c 19 N74-15089 * #
US-PATENT-3,781,111 ..... c 36 N74-15145 * #
US-PATENT-3,781,549 ..... c 35 N74-15090 * #
US-PATENT-3,781,562 ..... c 35 N74-15091 * #
US-PATENT-3,781,902 ..... c 35 N74-15831 * #
US-PATENT-3,781,933 ..... c 54 N74-14845 * #
US-PATENT-3,781,958 ..... c 37 N74-15128 * #
US-PATENT-3,782,177 ..... c 38 N74-15395 * #
US-PATENT-3,782,181 ..... c 34 N74-15652 * #
US-PATENT-3,782,205 ..... c 35 N74-15094 * #
US-PATENT-3,782,334 ..... c 51 N74-15778 * #
US-PATENT-3,782,698 ..... c 35 N74-15093 * #
US-PATENT-3,782,699 ..... c 35 N74-15126 * #
US-PATENT-3,782,737 ..... c 37 N74-15125 * #
US-PATENT-3,782,825 ..... c 35 N74-15146 * #
US-PATENT-3,782,835 ..... c 74 N74-15095 * #
US-PATENT-3,782,904 ..... c 35 N74-15127 * #
US-PATENT-3,783,250 ..... c 62 N74-14920 * #
US-PATENT-3,783,354 ..... c 33 N74-14956 * #
US-PATENT-3,783,399 ..... c 33 N74-14939 * #
US-PATENT-3,783,443 ..... c 35 N74-16135 * #
US-PATENT-3,784,499 ..... c 27 N74-17283 * #
US-PATENT-3,785,836 ..... c 27 N82-29452 * #
US-PATENT-3,787,959 ..... c 37 N74-18128 * #

US-PATENT-3,788,163 ..... c 37 N74-18127 * #
US-PATENT-3,789,654 ..... c 25 N74-18551 * #
US-PATENT-3,789,920 ..... c 34 N74-18552 * #
US-PATENT-3,789,947 ..... c 37 N74-18125 * #
US-PATENT-3,790,037 ..... c 54 N74-17853 * #
US-PATENT-3,790,347 ..... c 37 N74-18123 * #
US-PATENT-3,790,409 ..... c 44 N74-19693 * #
US-PATENT-3,790,432 ..... c 37 N74-18126 * #
US-PATENT-3,790,650 ..... c 31 N74-18124 * #
US-PATENT-3,790,795 ..... c 35 N74-18088 * #
US-PATENT-3,790,906 ..... c 33 N74-17927 * #
US-PATENT-3,791,207 ..... c 09 N74-17955 * #
US-PATENT-3,792,399 ..... c 33 N74-17928 * #
US-PATENT-3,793,109 ..... c 31 N74-18089 * #
US-PATENT-3,795,134 ..... c 09 N74-19528 * #
US-PATENT-3,795,448 ..... c 72 N74-19310 * #
US-PATENT-3,795,840 ..... c 33 N74-17929 * #
US-PATENT-3,795,858 ..... c 35 N74-18090 * #
US-PATENT-3,795,862 ..... c 33 N74-17930 * #
US-PATENT-3,795,900 ..... c 35 N74-17885 * #
US-PATENT-3,795,910 ..... c 44 N74-19870 * #
US-PATENT-3,796,473 ..... c 37 N74-20063 * #
US-PATENT-3,796,592 ..... c 24 N74-19769 * #
US-PATENT-3,797,098 ..... c 37 N74-21057 * #
US-PATENT-3,797,919 ..... c 70 N74-21300 * #
US-PATENT-3,798,741 ..... c 31 N74-21059 * #
US-PATENT-3,798,748 ..... c 37 N74-21055 * #
US-PATENT-3,798,778 ..... c 19 N74-21015 * #
US-PATENT-3,798,896 ..... c 37 N74-21060 * #
US-PATENT-3,799,149 ..... c 52 N74-20728 * #
US-PATENT-3,799,475 ..... c 02 N74-20646 * #
US-PATENT-3,799,793 ..... c 74 N74-20008 * #
US-PATENT-3,799,813 ..... c 76 N74-20329 * #
US-PATENT-3,800,074 ..... c 36 N74-20009 * #
US-PATENT-3,800,082 ..... c 71 N74-21014 * #
US-PATENT-3,800,224 ..... c 32 N74-19790 * #
US-PATENT-3,800,227 ..... c 32 N74-20809 * #
US-PATENT-3,800,237 ..... c 32 N74-19788 * #
US-PATENT-3,800,253 ..... c 37 N74-21056 * #
US-PATENT-3,801,617 ..... c 37 N74-21058 * #
US-PATENT-3,802,249 ..... c 35 N74-21019 * #
US-PATENT-3,802,253 ..... c 52 N74-20726 * #
US-PATENT-3,802,262 ..... c 35 N74-21018 * #
US-PATENT-3,802,660 ..... c 37 N74-21065 * #
US-PATENT-3,802,753 ..... c 37 N74-21064 * #
US-PATENT-3,802,779 ..... c 74 N74-21304 * #
US-PATENT-3,803,090 ..... c 27 N74-21156 * #
US-PATENT-3,803,393 ..... c 60 N74-20836 * #
US-PATENT-3,803,445 ..... c 32 N74-20813 * #
US-PATENT-3,803,617 ..... c 32 N74-20863 * #
US-PATENT-3,804,472 ..... c 37 N74-21061 * #
US-PATENT-3,804,506 ..... c 33 N74-20861 * #
US-PATENT-3,804,525 ..... c 36 N74-21091 * #
US-PATENT-3,804,703 ..... c 37 N74-21063 * #
US-PATENT-3,805,266 ..... c 32 N74-20864 * #
US-PATENT-3,805,303 ..... c 54 N74-20725 * #
US-PATENT-3,805,622 ..... c 35 N74-21062 * #
US-PATENT-3,806,756 ..... c 33 N74-21850 * #
US-PATENT-3,806,802 ..... c 35 N74-21017 * #
US-PATENT-3,806,815 ..... c 32 N74-20811 * #
US-PATENT-3,806,816 ..... c 32 N74-20810 * #
US-PATENT-3,806,831 ..... c 33 N74-20862 * #
US-PATENT-3,806,834 ..... c 36 N76-18427 * #
US-PATENT-3,806,835 ..... c 33 N74-20859 * #
US-PATENT-3,806,932 ..... c 33 N74-20860 * #
US-PATENT-3,807,384 ..... c 34 N74-23039 * #
US-PATENT-3,807,656 ..... c 18 N74-22136 * #
US-PATENT-3,808,464 ..... c 33 N74-22814 * #
US-PATENT-3,808,511 ..... c 33 N74-22864 * #
US-PATENT-3,808,517 ..... c 33 N74-22885 * #
US-PATENT-3,809,481 ..... c 35 N74-23040 * #
US-PATENT-3,809,601 ..... c 37 N74-23064 * #
US-PATENT-3,809,800 ..... c 33 N74-22865 * #
US-PATENT-3,809,871 ..... c 52 N74-22771 * #
US-PATENT-3,810,829 ..... c 31 N74-23065 * #
US-PATENT-3,811,044 ..... c 34 N74-23066 * #
US-PATENT-3,811,094 ..... c 33 N74-21851 * #
US-PATENT-3,811,429 ..... c 52 N74-27566 * #
US-PATENT-3,811,901 ..... c 27 N82-29454 * #
US-PATENT-3,812,358 ..... c 35 N74-26949 * #
US-PATENT-3,812,783 ..... c 28 N74-27425 * #
US-PATENT-3,812,924 ..... c 35 N74-26945 * #
US-PATENT-3,812,936 ..... c 37 N74-26976 * #
US-PATENT-3,813,183 ..... c 37 N74-25968 * #
US-PATENT-3,813,875 ..... c 15 N74-27360 * #
US-PATENT-3,813,937 ..... c 34 N74-27859 * #
US-PATENT-3,814,083 ..... c 52 N74-26626 * #
US-PATENT-3,814,350 ..... c 18 N74-27397 * #
US-PATENT-3,814,645 ..... c 24 N74-30001 * #
US-PATENT-3,814,653 ..... c 24 N74-27035 * #
US-PATENT-3,814,678 ..... c 25 N74-26948 * #
US-PATENT-3,814,939 ..... c 25 N74-26947 * #
US-PATENT-3,815,048 ..... c 33 N74-26732 * #
US-PATENT-3,815,109 ..... c 52 N74-26625 * #
US-PATENT-3,815,205 ..... c 33 N74-26977 * #
US-PATENT-3,815,969 ..... c 35 N74-26946 * #
US-PATENT-3,816,657 ..... c 32 N74-26654 * #
US-PATENT-3,816,785 ..... c 73 N74-26767 * #
US-PATENT-3,817,082 ..... c 34 N74-27730 * #
US-PATENT-3,817,084 ..... c 31 N74-27900 * #
US-PATENT-3,817,622 ..... c 75 N74-30156 * #
US-PATENT-3,817,627 ..... c 35 N74-27860 * #
US-PATENT-3,818,325 ..... c 44 N74-27519 * #
US-PATENT-3,818,346 ..... c 33 N74-27705 * #
US-PATENT-3,818,767 ..... c 35 N74-28097 * #
US-PATENT-3,818,775 ..... c 37 N74-27901 * #
US-PATENT-3,818,814 ..... c 31 N74-27902 * #
US-PATENT-3,819,299 ..... c 37 N74-27904 * #
US-PATENT-3,819,419 ..... c 34 N74-27861 * #
US-PATENT-3,819,440 ..... c 32 N74-27612 * #
US-PATENT-3,819,550 ..... c 27 N74-27037 * #
US-PATENT-3,820,095 ..... c 33 N74-27862 * #
US-PATENT-3,820,286 ..... c 37 N74-27905 * #
US-PATENT-3,820,388 ..... c 35 N74-27865 * #
US-PATENT-3,820,529 ..... c 52 N74-27864 * #
US-PATENT-3,820,630 ..... c 07 N74-27490 * #
US-PATENT-3,820,741 ..... c 37 N74-27903 * #
US-PATENT-3,820,918 ..... c 07 N74-28226 * #
US-PATENT-3,821,102 ..... c 34 N74-27744 * #
US-PATENT-3,821,462 ..... c 33 N74-27683 * #
US-PATENT-3,821,546 ..... c 33 N74-27682 * #
US-PATENT-3,821,556 ..... c 74 N74-27866 * #
US-PATENT-3,824,707 ..... c 09 N74-30597 * #
US-PATENT-3,825,760 ..... c 19 N74-29410 * #
US-PATENT-3,826,448 ..... c 08 N74-30421 * #
US-PATENT-3,826,726 ..... c 25 N74-30502 * #
US-PATENT-3,826,729 ..... c 20 N74-31269 * #
US-PATENT-3,826,964 ..... c 33 N74-29556 * #
US-PATENT-3,827,288 ..... c 71 N74-31148 * #
US-PATENT-3,827,807 ..... c 89 N74-30886 * #
US-PATENT-3,828,137 ..... c 32 N74-30524 * #
US-PATENT-3,828,138 ..... c 32 N74-30523 * #
US-PATENT-3,828,524 ..... c 34 N74-30608 * #
US-PATENT-3,829,237 ..... c 07 N74-31270 * #
US-PATENT-3,829,839 ..... c 60 N76-18800 * #
US-PATENT-3,830,060 ..... c 44 N74-33379 * #
US-PATENT-3,830,094 ..... c 35 N74-32879 * #
US-PATENT-3,830,335 ..... c 07 N74-32418 * #
US-PATENT-3,830,431 ..... c 07 N74-33218 * #
US-PATENT-3,830,552 ..... c 37 N74-32921 * #
US-PATENT-3,830,609 ..... c 31 N74-32920 * #
US-PATENT-3,830,673 ..... c 28 N74-33209 * #
US-PATENT-3,831,098 ..... c 33 N74-32711 * #
US-PATENT-3,831,117 ..... c 33 N74-32712 * #
US-PATENT-3,831,142 ..... c 32 N74-32598 * #
US-PATENT-3,832,290 ..... c 20 N74-32919 * #
US-PATENT-3,832,735 ..... c 54 N74-32546 * #
US-PATENT-3,832,764 ..... c 37 N74-32918 * #
US-PATENT-3,832,781 ..... c 35 N74-32877 * #
US-PATENT-3,832,903 ..... c 35 N74-32878 * #
US-PATENT-3,833,322 ..... c 31 N74-32917 * #
US-PATENT-3,833,336 ..... c 25 N74-33378 * #
US-PATENT-3,833,857 ..... c 33 N74-32660 * #
US-PATENT-3,835,318 ..... c 35 N74-34857 * #
US-PATENT-3,837,285 ..... c 85 N74-34672 * #
US-PATENT-3,837,908 ..... c 76 N79-16678 * #
US-PATENT-3,840,829 ..... c 33 N74-34638 * #
US-PATENT-3,841,973 ..... c 35 N75-12272 * #
US-PATENT-3,842,485 ..... c 37 N75-12326 * #
US-PATENT-3,842,509 ..... c 35 N75-12273 * #
US-PATENT-3,842,656 ..... c 76 N75-12810 * #
US-PATENT-3,845,466 ..... c 74 N81-19896 * #
US-PATENT-3,846,243 ..... c 25 N75-12086 * #
US-PATENT-3,847,115 ..... c 31 N75-12161 * #
US-PATENT-3,847,141 ..... c 35 N75-12271 * #
US-PATENT-3,847,208 ..... c 34 N75-12222 * #
US-PATENT-3,847,652 ..... c 25 N75-12087 * #
US-PATENT-3,847,689 ..... c 74 N75-12732 * #
US-PATENT-3,848,190 ..... c 35 N75-12270 * #
US-PATENT-3,849,554 ..... c 52 N75-15270 * #
US-PATENT-3,849,668 ..... c 54 N75-12616 * #
US-PATENT-3,849,720 ..... c 33 N77-26387 * #
US-PATENT-3,849,865 ..... c 37 N75-13261 * #
US-PATENT-3,849,875 ..... c 35 N75-13213 * #
US-PATENT-3,849,877 ..... c 24 N75-13032 * #
US-PATENT-3,850,169 ..... c 54 N75-13531 * #
US-PATENT-3,850,388 ..... c 05 N75-12930 * #
US-PATENT-3,850,567 ..... c 31 N75-13111 * #
US-PATENT-3,850,754 ..... c 51 N75-13502 * #
US-PATENT-3,851,162 ..... c 60 N75-13539 * #
US-PATENT-3,851,238 ..... c 33 N75-13139 * #
US-PATENT-3,851,250 ..... c 15 N75-13007 * #
US-PATENT-3,853,003 ..... c 09 N75-12969 * #
US-PATENT-3,853,075 ..... c 09 N75-12968 * #
US-PATENT-3,854,097 ..... c 75 N75-13625 * #
US-PATENT-3,854,113 ..... c 37 N75-13265 * #
US-PATENT-3,855,873 ..... c 37 N75-13266 * #
US-PATENT-3,856,042 ..... c 37 N75-15050 * #
US-PATENT-3,856,402 ..... c 36 N75-15028 * #
US-PATENT-3,856,471 ..... c 25 N75-14844 * #
US-PATENT-3,856,534 ..... c 23 N75-14834 * #
US-PATENT-3,857,031 ..... c 35 N75-15014 * #
US-PATENT-3,857,045 ..... c 33 N75-14957 * #
US-PATENT-3,859,119 ..... c 36 N75-15029 * #
US-PATENT-3,859,714 ..... c 37 N75-15992 * #
US-PATENT-3,859,714 ..... c 24 N79-25143 * #
US-PATENT-3,859,736 ..... c 09 N75-15662 * #
US-PATENT-3,859,840 ..... c 35 N75-15932 * #
US-PATENT-3,859,845 ..... c 35 N75-15931 * #
US-PATENT-3,860,342 ..... c 35 N75-16783 * #
US-PATENT-3,860,393 ..... c 25 N76-18245 * #
US-PATENT-3,860,858 ..... c 33 N75-15874 * #
US-PATENT-3,860,921 ..... c 32 N75-15854 * #
US-PATENT-3,860,946 ..... c 33 N79-11314 * #
US-PATENT-3,863,881 ..... c 37 N75-18573 * #
US-PATENT-3,864,060 ..... c 35 N75-19611 * #
US-PATENT-3,864,239 ..... c 37 N75-19684 * #
US-PATENT-3,864,542 ..... c 37 N75-19683 * #
US-PATENT-3,864,797 ..... c 20 N75-18310 * #
US-PATENT-3,864,953 ..... c 35 N75-19615 * #
US-PATENT-3,864,960 ..... c 35 N75-19612 * #
US-PATENT-3,865,442 ..... c 37 N75-18574 * #
US-PATENT-3,865,975 ..... c 36 N75-19652 * #
US-PATENT-3,866,022 ..... c 33 N75-19519 * #
US-PATENT-3,866,114 ..... c 33 N75-18477 * #
US-PATENT-3,866,128 ..... c 33 N75-19515 * #
US-PATENT-3,866,210 ..... c 33 N75-19517 * #
US-PATENT-3,866,233 ..... c 33 N75-19516 * #
US-PATENT-3,866,863 ..... c 18 N75-19329 * #
US-PATENT-3,867,677 ..... c 33 N75-19524 * #
US-PATENT-3,868,591 ..... c 36 N75-19655 * #
US-PATENT-3,868,830 ..... c 77 N75-20139 * #
US-PATENT-3,868,856 ..... c 35 N75-19614 * #
US-PATENT-3,869,151 ..... c 37 N75-19686 * #
US-PATENT-3,869,160 ..... c 37 N75-19685 * #
US-PATENT-3,869,210 ..... c 36 N75-19653 * #
US-PATENT-3,869,212 ..... c 35 N75-19613 * #
US-PATENT-3,869,597 ..... c 77 N75-20140 * #
US-PATENT-3,869,615 ..... c 35 N75-19616 * #
US-PATENT-3,869,624 ..... c 33 N75-18479 * #
US-PATENT-3,869,659 ..... c 33 N75-19522 * #
US-PATENT-3,869,667 ..... c 33 N75-19521 * #
US-PATENT-3,869,676 ..... c 33 N75-19520 * #
US-PATENT-3,869,680 ..... c 36 N75-19654 * #
US-PATENT-3,869,779 ..... c 26 N75-19408 * #
US-PATENT-3,872,395 ..... c 33 N75-19518 * #
US-PATENT-3,874,240 ..... c 35 N75-25122 * #
US-PATENT-3,874,635 ..... c 37 N75-25185 * #
US-PATENT-3,874,677 ..... c 37 N75-21631 * #
US-PATENT-3,875,332 ..... c 32 N75-21486 * #
US-PATENT-3,875,394 ..... c 33 N75-26243 * #
US-PATENT-3,875,404 ..... c 35 N75-23910 * #
US-PATENT-3,875,435 ..... c 20 N75-24837 * #
US-PATENT-3,875,500 ..... c 35 N75-21582 * #
US-PATENT-3,875,584 ..... c 32 N75-21485 * #
US-PATENT-3,877,833 ..... c 37 N75-25186 * #
US-PATENT-3,878,464 ..... c 32 N75-24981 * #
US-PATENT-3,881,132 ..... c 33 N77-21315 * #
US-PATENT-3,882,417 ..... c 36 N78-17366 * #
US-PATENT-3,882,530 ..... c 76 N75-25730 * #
US-PATENT-3,882,634 ..... c 51 N75-25503 * #
US-PATENT-3,882,719 ..... c 14 N75-24794 * #
US-PATENT-3,882,732 ..... c 12 N75-24774 * #
US-PATENT-3,882,846 ..... c 05 N75-24716 * #
US-PATENT-3,883,095 ..... c 07 N75-24736 * #
US-PATENT-3,883,215 ..... c 35 N75-25124 * #
US-PATENT-3,883,436 ..... c 74 N75-25706 * #
US-PATENT-3,883,689 ..... c 35 N75-25123 * #
US-PATENT-3,883,785 ..... c 09 N75-24758 * #
US-PATENT-3,883,812 ..... c 33 N75-25041 * #
US-PATENT-3,883,817 ..... c 33 N75-25040 * #
US-PATENT-3,883,872 ..... c 32 N75-24982 * #
US-PATENT-3,884,432 ..... c 05 N75-25914 * #
US-PATENT-3,884,765 ..... c 35 N75-27330 * #
US-PATENT-3,887,233 ..... c 05 N75-25915 * #
US-PATENT-3,887,345 ..... c 35 N75-26334 * #
US-PATENT-3,887,365 ..... c 37 N75-26371 * #
US-PATENT-3,888,362 ..... c 54 N75-27758 * #
US-PATENT-3,888,410 ..... c 34 N75-26282 * #
US-PATENT-3,888,561 ..... c 35 N75-27328 * #
US-PATENT-3,888,705 ..... c 25 N75-26043 * #
US-PATENT-3,889,064 ..... c 32 N75-26195 * #
US-PATENT-3,889,122 ..... c 37 N75-26372 * #
US-PATENT-3,889,155 ..... c 33 N75-26244 * #
US-PATENT-3,889,182 ..... c 33 N75-26245 * #
US-PATENT-3,889,185 ..... c 33 N75-26246 * #
US-PATENT-3,889,264 ..... c 32 N75-26194 * #
US-PATENT-3,891,311 ..... c 54 N75-27759 * #
US-PATENT-3,891,452 ..... c 27 N75-27160 * #
US-PATENT-3,891,533 ..... c 33 N75-27252 * #
US-PATENT-3,891,848 ..... c 45 N75-27585 * #
US-PATENT-3,891,851 ..... c 35 N75-27331 * #
US-PATENT-3,893,449 ..... c 54 N75-27760 * #
US-PATENT-3,893,458 ..... c 54 N75-27761 * #
US-PATENT-3,893,573 ..... c 18 N75-27041 * #
US-PATENT-3,894,289 ..... c 36 N75-27364 * #
US-PATENT-3,894,677 ..... c 24 N75-28135 * #
US-PATENT-3,894,887 ..... c 44 N76-18641 * #

US-PATENT-3,895,521 ..... c 35 N75-29381 * #
US-PATENT-3,895,912 ..... c 35 N75-29380 * #
US-PATENT-3,896,758 ..... c 35 N75-33367 * #
US-PATENT-3,896,955 ..... c 37 N77-22480 * #
US-PATENT-3,898,578 ..... c 33 N75-30428 * #
US-PATENT-3,898,730 ..... c 24 N75-30260 * #
US-PATENT-3,898,882 ..... c 35 N75-30503 * #
US-PATENT-3,899,224 ..... c 37 N75-30562 * #
US-PATENT-3,899,252 ..... c 35 N75-30502 * #
US-PATENT-3,899,517 ..... c 23 N75-30256 * #
US-PATENT-3,899,680 ..... c 73 N75-30876 * #
US-PATENT-3,899,696 ..... c 36 N75-30524 * #
US-PATENT-3,899,745 ..... c 33 N75-30429 * #
US-PATENT-3,900,705 ..... c 33 N75-30431 * #
US-PATENT-3,900,741 ..... c 35 N75-30504 * #
US-PATENT-3,900,847 ..... c 03 N75-30132 * #
US-PATENT-3,902,143 ..... c 33 N75-30430 * #
US-PATENT-3,903,699 ..... c 44 N75-32581 * #
US-PATENT-3,905,356 ..... c 33 N75-31329 * #
US-PATENT-3,905,660 ..... c 37 N75-31446 * #
US-PATENT-3,906,231 ..... c 33 N75-31332 * #
US-PATENT-3,906,296 ..... c 33 N75-31331 * #
US-PATENT-3,906,374 ..... c 33 N75-31330 * #
US-PATENT-3,906,393 ..... c 36 N75-31427 * #
US-PATENT-3,906,397 ..... c 36 N75-31426 * #
US-PATENT-3,906,398 ..... c 36 N75-32441 * #
US-PATENT-3,906,769 ..... c 24 N75-33181 * #
US-PATENT-3,906,788 ..... c 35 N75-33369 * #
US-PATENT-3,906,913 ..... c 37 N76-18457 * #
US-PATENT-3,906,954 ..... c 52 N75-33640 * #
US-PATENT-3,907,312 ..... c 37 N75-33395 * #
US-PATENT-3,907,646 ..... c 35 N75-33368 * #
US-PATENT-3,907,686 ..... c 34 N75-33342 * #
US-PATENT-3,908,118 ..... c 38 N78-17395 * #
US-PATENT-3,909,602 ..... c 38 N78-17396 * #
US-PATENT-3,910,035 ..... c 20 N76-14190 * #
US-PATENT-3,910,039 ..... c 20 N76-14191 * #
US-PATENT-3,910,257 ..... c 52 N76-14757 * #
US-PATENT-3,910,307 ..... c 37 N76-14463 * #
US-PATENT-3,910,533 ..... c 18 N76-14186 * #
US-PATENT-3,910,814 ..... c 24 N76-14204 * #
US-PATENT-3,911,260 ..... c 35 N76-14431 * #
US-PATENT-3,911,330 ..... c 33 N76-14373 * #
US-PATENT-3,912,540 ..... c 44 N76-14600 * #
US-PATENT-3,912,541 ..... c 44 N76-14601 * #
US-PATENT-3,912,999 ..... c 44 N76-18643 * #
US-PATENT-3,914,950 ..... c 31 N76-14284 * #
US-PATENT-3,914,969 ..... c 37 N76-14461 * #
US-PATENT-3,914,991 ..... c 35 N76-14430 * #
US-PATENT-3,914,997 ..... c 35 N76-14429 * #
US-PATENT-3,915,012 ..... c 54 N76-14804 * #
US-PATENT-3,915,148 ..... c 44 N76-14602 * #
US-PATENT-3,915,416 ..... c 15 N76-14158 * #
US-PATENT-3,915,482 ..... c 37 N76-14460 * #
US-PATENT-3,915,572 ..... c 36 N76-14447 * #
US-PATENT-3,916,060 ..... c 27 N76-15310 * #
US-PATENT-3,916,084 ..... c 33 N76-14371 * #
US-PATENT-3,916,187 ..... c 35 N76-15431 * #
US-PATENT-3,916,316 ..... c 32 N76-14321 * #
US-PATENT-3,916,380 ..... c 60 N76-14818 * #
US-PATENT-3,916,761 ..... c 75 N76-14931 * #
US-PATENT-3,919,014 ..... c 24 N76-14203 * #
US-PATENT-3,919,710 ..... c 33 N76-14372 * #
US-PATENT-3,920,339 ..... c 27 N76-14264 * #
US-PATENT-3,920,413 ..... c 44 N76-14595 * #
US-PATENT-3,920,416 ..... c 44 N76-18642 * #
US-PATENT-3,922,930 ..... c 37 N76-15457 * #
US-PATENT-3,923,166 ..... c 37 N76-15460 * #
US-PATENT-3,924,068 ..... c 32 N76-16249 * #
US-PATENT-3,924,137 ..... c 72 N76-15860 * #
US-PATENT-3,924,164 ..... c 33 N76-15373 * #
US-PATENT-3,924,176 ..... c 35 N76-16390 * #
US-PATENT-3,924,183 ..... c 33 N76-16331 * #
US-PATENT-3,924,200 ..... c 35 N76-15436 * #
US-PATENT-3,924,237 ..... c 32 N76-15330 * #
US-PATENT-3,924,239 ..... c 35 N76-15435 * #
US-PATENT-3,924,267 ..... c 35 N76-16391 * #
US-PATENT-3,924,444 ..... c 35 N76-15432 * #
US-PATENT-3,925,104 ..... c 35 N76-15434 * #
US-PATENT-3,925,312 ..... c 23 N76-15268 * #
US-PATENT-3,926,482 ..... c 37 N76-15461 * #
US-PATENT-3,926,567 ..... c 27 N76-15311 * #
US-PATENT-3,927,227 ..... c 12 N76-15189 * #
US-PATENT-3,927,324 ..... c 35 N76-15433 * #
US-PATENT-3,927,408 ..... c 32 N76-15329 * #
US-PATENT-3,928,708 ..... c 27 N76-16230 * #
US-PATENT-3,929,119 ..... c 75 N76-17951 * #
US-PATENT-3,929,305 ..... c 34 N76-17317 * #
US-PATENT-3,929,306 ..... c 18 N76-17185 * #
US-PATENT-3,929,364 ..... c 35 N76-16392 * #
US-PATENT-3,930,628 ..... c 02 N76-16014 * #
US-PATENT-3,930,735 ..... c 66 N76-19888 * #
US-PATENT-3,931,132 ..... c 27 N76-16228 * #
US-PATENT-3,931,447 ..... c 27 N76-16229 * #
US-PATENT-3,931,456 ..... c 33 N76-16332 * #
US-PATENT-3,931,462 ..... c 45 N76-17656 * #
US-PATENT-3,931,516 ..... c 35 N76-16393 * #
US-PATENT-3,931,532 ..... c 44 N76-16612 * #
US-PATENT-3,932,262 ..... c 25 N79-10163 * #
US-PATENT-3,936,927 ..... c 37 N76-19437 * #
US-PATENT-3,937,055 ..... c 37 N76-18454 * #
US-PATENT-3,937,212 ..... c 33 N76-19338 * #
US-PATENT-3,937,215 ..... c 52 N76-19785 * #
US-PATENT-3,937,387 ..... c 37 N76-18455 * #
US-PATENT-3,937,533 ..... c 37 N76-18459 * #
US-PATENT-3,937,555 ..... c 35 N76-18402 * #
US-PATENT-3,937,661 ..... c 37 N76-18456 * #
US-PATENT-3,937,945 ..... c 74 N76-18913 * #
US-PATENT-3,938,035 ..... c 33 N76-19339 * #
US-PATENT-3,938,037 ..... c 26 N76-18257 * #
US-PATENT-3,938,162 ..... c 32 N76-18295 * #
US-PATENT-3,938,182 ..... c 33 N76-18353 * #
US-PATENT-3,938,188 ..... c 33 N76-18345 * #
US-PATENT-3,938,367 ..... c 35 N76-18401 * #
US-PATENT-3,938,373 ..... c 35 N76-18400 * #
US-PATENT-3,938,742 ..... c 07 N76-18117 * #
US-PATENT-3,938,892 ..... c 74 N76-19935 * #
US-PATENT-3,938,956 ..... c 35 N76-18403 * #
US-PATENT-3,939,048 ..... c 37 N76-18458 * #
US-PATENT-3,939,439 ..... c 36 N76-18428 * #
US-PATENT-3,940,097 ..... c 34 N76-18364 * #
US-PATENT-3,940,621 ..... c 34 N76-18374 * #
US-PATENT-3,941,355 ..... c 37 N76-19436 * #
US-PATENT-3,942,398 ..... c 37 N76-20480 * #
US-PATENT-3,943,368 ..... c 74 N76-20958 * #
US-PATENT-3,943,442 ..... c 76 N76-20994 * #
US-PATENT-3,943,763 ..... c 04 N76-20114 * #
US-PATENT-3,944,485 ..... c 25 N81-19244 * #
US-PATENT-3,945,801 ..... c 45 N76-21742 * #
US-PATENT-3,945,979 ..... c 37 N76-21554 * #
US-PATENT-3,947,281 ..... c 27 N82-29455 * #
US-PATENT-3,947,933 ..... c 20 N76-21276 * #
US-PATENT-3,948,102 ..... c 33 N76-21390 * #
US-PATENT-3,948,470 ..... c 20 N76-21275 * #
US-PATENT-3,949,206 ..... c 32 N76-21366 * #
US-PATENT-3,949,400 ..... c 17 N76-21250 * #
US-PATENT-3,949,404 ..... c 32 N76-21365 * #
US-PATENT-3,950,729 ..... c 60 N76-21914 * #
US-PATENT-3,951,129 ..... c 44 N76-22657 * #
US-PATENT-3,952,083 ..... c 27 N76-22376 * #
US-PATENT-3,952,590 ..... c 09 N76-23273 * #
US-PATENT-3,952,971 ..... c 02 N76-22154 * #
US-PATENT-3,952,976 ..... c 37 N76-22540 * #
US-PATENT-3,952,980 ..... c 19 N76-22284 * #
US-PATENT-3,952,998 ..... c 20 N76-22296 * #
US-PATENT-3,953,038 ..... c 37 N76-22541 * #
US-PATENT-3,953,343 ..... c 24 N76-22309 * #
US-PATENT-3,953,646 ..... c 27 N76-22377 * #
US-PATENT-3,953,674 ..... c 17 N76-22245 * #
US-PATENT-3,953,734 ..... c 25 N76-22323 * #
US-PATENT-3,953,792 ..... c 35 N76-22509 * #
US-PATENT-3,955,034 ..... c 27 N76-23426 * #
US-PATENT-3,955,941 ..... c 44 N76-29700 * #
US-PATENT-3,956,032 ..... c 76 N76-25049 * #
US-PATENT-3,956,050 ..... c 37 N76-24575 * #
US-PATENT-3,956,233 ..... c 27 N76-24405 * #
US-PATENT-3,956,833 ..... c 09 N76-24280 * #
US-PATENT-3,956,919 ..... c 35 N76-24523 * #
US-PATENT-3,956,932 ..... c 35 N76-24524 * #
US-PATENT-3,957,030 ..... c 44 N76-23675 * #
US-PATENT-3,957,037 ..... c 35 N76-24525 * #
US-PATENT-3,957,044 ..... c 54 N76-24900 * #
US-PATENT-3,957,104 ..... c 37 N76-23570 * #
US-PATENT-3,957,675 ..... c 24 N76-24363 * #
US-PATENT-3,958,188 ..... c 36 N76-24553 * #
US-PATENT-3,958,238 ..... c 60 N76-23850 * #
US-PATENT-3,958,553 ..... c 44 N76-24696 * #
US-PATENT-3,961,997 ..... c 44 N76-28635 * #
US-PATENT-3,964,306 ..... c 34 N76-27517 * #
US-PATENT-3,964,319 ..... c 07 N76-27232 * #
US-PATENT-3,964,813 ..... c 37 N76-27567 * #
US-PATENT-3,964,902 ..... c 34 N76-27515 * #
US-PATENT-3,964,928 ..... c 44 N76-27664 * #
US-PATENT-3,965,096 ..... c 27 N76-32315 * #
US-PATENT-3,965,354 ..... c 33 N76-27473 * #
US-PATENT-3,965,475 ..... c 33 N76-27472 * #
US-PATENT-3,966,499 ..... c 44 N76-31666 * #
US-PATENT-3,966,547 ..... c 25 N76-27383 * #
US-PATENT-3,967,091 ..... c 37 N76-27568 * #
US-PATENT-3,971,230 ..... c 37 N76-29590 * #
US-PATENT-3,971,256 ..... c 91 N76-30131 * #
US-PATENT-3,971,362 ..... c 52 N76-29894 * #
US-PATENT-3,971,363 ..... c 52 N76-29895 * #
US-PATENT-3,971,364 ..... c 52 N76-29896 * #
US-PATENT-3,971,535 ..... c 05 N76-29217 * #
US-PATENT-3,971,602 ..... c 37 N76-29588 * #
US-PATENT-3,971,697 ..... c 25 N76-29379 * #
US-PATENT-3,971,703 ..... c 51 N76-29891 * #
US-PATENT-3,971,847 ..... c 44 N76-29704 * #
US-PATENT-3,971,915 ..... c 35 N76-29552 * #
US-PATENT-3,971,930 ..... c 74 N76-30053 * #
US-PATENT-3,971,940 ..... c 35 N76-29551 * #
US-PATENT-3,972,008 ..... c 36 N76-29575 * #
US-PATENT-3,972,038 ..... c 17 N76-29347 * #
US-PATENT-3,972,651 ..... c 44 N76-29701 * #
US-PATENT-3,972,727 ..... c 44 N76-29699 * #
US-PATENT-3,976,997 ..... c 62 N76-31946 * #
US-PATENT-3,977,147 ..... c 39 N76-31562 * #
US-PATENT-3,977,197 ..... c 44 N76-31667 * #
US-PATENT-3,977,231 ..... c 35 N76-31489 * #
US-PATENT-3,977,771 ..... c 74 N76-31998 * #
US-PATENT-3,977,787 ..... c 35 N76-31490 * #
US-PATENT-3,977,831 ..... c 45 N76-31714 * #
US-PATENT-3,978,187 ..... c 37 N76-31524 * #
US-PATENT-3,978,287 ..... c 32 N76-31372 * #
US-PATENT-3,978,360 ..... c 33 N76-31409 * #
US-PATENT-3,978,364 ..... c 31 N76-31365 * #
US-PATENT-3,978,410 ..... c 03 N76-32140 * #
US-PATENT-3,978,417 ..... c 36 N76-31512 * #
US-PATENT-3,978,490 ..... c 33 N76-32457 * #
US-PATENT-3,982,910 ..... c 44 N77-10636 * #
US-PATENT-3,983,695 ..... c 20 N77-10148 * #
US-PATENT-3,983,714 ..... c 31 N77-10229 * #
US-PATENT-3,983,749 ..... c 09 N77-10071 * #
US-PATENT-3,983,753 ..... c 52 N77-10780 * #
US-PATENT-3,983,780 ..... c 28 N77-10213 * #
US-PATENT-3,983,933 ..... c 34 N77-10463 * #
US-PATENT-3,984,070 ..... c 02 N77-10001 * #
US-PATENT-3,984,072 ..... c 15 N77-10113 * #
US-PATENT-3,984,256 ..... c 44 N77-10635 * #
US-PATENT-3,984,634 ..... c 32 N77-10392 * #
US-PATENT-3,984,671 ..... c 43 N77-10584 * #
US-PATENT-3,984,681 ..... c 35 N77-10492 * #
US-PATENT-3,984,685 ..... c 47 N77-10753 * #
US-PATENT-3,984,686 ..... c 35 N77-10493 * #
US-PATENT-3,984,730 ..... c 33 N77-10429 * #
US-PATENT-3,984,799 ..... c 33 N77-10428 * #
US-PATENT-3,985,454 ..... c 74 N77-10899 * #
US-PATENT-3,987,630 ..... c 37 N77-12402 * #
US-PATENT-3,988,561 ..... c 37 N77-11397 * #
US-PATENT-3,988,677 ..... c 32 N77-12240 * #
US-PATENT-3,988,716 ..... c 60 N77-12721 * #
US-PATENT-3,988,729 ..... c 32 N77-12239 * #
US-PATENT-3,988,933 ..... c 35 N77-19385 * #
US-PATENT-3,989,136 ..... c 37 N77-19457 * #
US-PATENT-3,989,206 ..... c 09 N77-19076 * #
US-PATENT-3,989,541 ..... c 44 N77-19571 * #
US-PATENT-3,989,602 ..... c 24 N77-19171 * #
US-PATENT-3,990,049 ..... c 60 N77-19760 * #
US-PATENT-3,990,860 ..... c 27 N77-13217 * #
US-PATENT-3,990,987 ..... c 37 N77-13418 * #
US-PATENT-3,994,128 ..... c 07 N77-14025 * #
US-PATENT-3,995,324 ..... c 52 N77-14735 * #
US-PATENT-3,995,476 ..... c 35 N77-14407 * #
US-PATENT-3,995,522 ..... c 37 N77-14478 * #
US-PATENT-3,995,621 ..... c 52 N77-14736 * #
US-PATENT-3,995,644 ..... c 52 N77-14738 * #
US-PATENT-3,995,789 ..... c 37 N77-14479 * #
US-PATENT-3,995,877 ..... c 37 N77-14477 * #
US-PATENT-3,995,960 ..... c 35 N77-14411 * #
US-PATENT-3,996,064 ..... c 44 N77-14581 * #
US-PATENT-3,996,067 ..... c 44 N77-14580 * #
US-PATENT-3,996,070 ..... c 35 N77-14409 * #
US-PATENT-3,996,455 ..... c 60 N77-14751 * #
US-PATENT-3,996,462 ..... c 33 N77-14335 * #
US-PATENT-3,996,464 ..... c 35 N77-14406 * #
US-PATENT-3,996,468 ..... c 35 N77-14408 * #
US-PATENT-3,996,471 ..... c 52 N77-14737 * #
US-PATENT-3,996,506 ..... c 33 N77-14333 * #
US-PATENT-3,996,532 ..... c 32 N77-14292 * #
US-PATENT-3,997,848 ..... c 33 N77-14334 * #
US-PATENT-3,999,886 ..... c 05 N77-17029 * #
US-PATENT-4,049,930 ..... c 33 N78-10375 * #
US-PATENT-4, 356,157 ..... c 25 N83-33977 * #
US-PATENT-4, 359,503 ..... c 24 N83-33950 * #
US-PATENT-4,000,682 ..... c 20 N77-17143 * #
US-PATENT-4,000,929 ..... c 37 N77-17464 * #
US-PATENT-4,001,552 ..... c 38 N77-17495 * #
US-PATENT-4,001,602 ..... c 33 N77-17354 * #
US-PATENT-4,003,004 ..... c 33 N77-17351 * #
US-PATENT-4,003,084 ..... c 35 N77-17426 * #
US-PATENT-4,003,257 ..... c 23 N77-17161 * #
US-PATENT-4,004,292 ..... c 74 N77-18893 * #
US-PATENT-4,005,574 ..... c 07 N77-17059 * #
US-PATENT-4,006,631 ..... c 04 N77-19056 * #
US-PATENT-4,006,999 ..... c 24 N77-19170 * #
US-PATENT-4,007,430 ..... c 36 N77-19416 * #
US-PATENT-4,007,434 ..... c 32 N77-18307 * #
US-PATENT-4,007,601 ..... c 34 N77-19353 * #
US-PATENT-4,007,623 ..... c 35 N77-18417 * #
US-PATENT-4,007,891 ..... c 07 N77-18154 * #
US-PATENT-4,008,348 ..... c 34 N77-18382 * #
US-PATENT-4,008,407 ..... c 73 N77-18891 * #
US-PATENT-4,010,455 ..... c 37 N77-19458 * #
US-PATENT-4,010,455 ..... c 37 N78-31426 * #
US-PATENT-4,011,719 ..... c 20 N77-20162 * #
US-PATENT-4,011,756 ..... c 35 N77-20400 * #
US-PATENT-4,011,854 ..... c 35 N77-20401 * #

US-PATENT-4,012,018 ..... c 35 N77-20399 * #
US-PATENT-4,012,123 ..... c 74 N77-20882 * #
US-PATENT-4,012,237 ..... c 26 N77-20201 * #
US-PATENT-4,012,696 ..... c 32 N77-20289 * #
US-PATENT-4,014,745 ..... c 51 N77-22794 * #
US-PATENT-4,014,798 ..... c 25 N81-17187 * #
US-PATENT-4,017,959 ..... c 37 N77-23482 * #
US-PATENT-4,018,080 ..... c 35 N77-22450 * #
US-PATENT-4,018,085 ..... c 35 N77-22449 * #
US-PATENT-4,018,092 ..... c 37 N77-22482 * #
US-PATENT-4,018,409 ..... c 37 N77-23483 * #
US-PATENT-4,018,423 ..... c 54 N77-21844 * #
US-PATENT-4,018,532 ..... c 74 N77-22951 * #
US-PATENT-4,018,533 ..... c 74 N77-22950 * #
US-PATENT-4,018,649 ..... c 51 N77-25769 * #
US-PATENT-4,018,971 ..... c 44 N77-22606 * #
US-PATENT-4,019,179 ..... c 32 N77-21267 * #
US-PATENT-4,019,868 ..... c 44 N77-22607 * #
US-PATENT-4,020,632 ..... c 07 N77-23106 * #
US-PATENT-4,023,266 ..... c 33 N77-26385 * #
US-PATENT-4,025,327 ..... c 35 N77-24455 * #
US-PATENT-4,025,783 ..... c 74 N77-26942 * #
US-PATENT-4,025,866 ..... c 33 N77-24375 * #
US-PATENT-4,025,875 ..... c 36 N77-25499 * #
US-PATENT-4,025,876 ..... c 71 N77-26919 * #
US-PATENT-4,025,891 ..... c 35 N77-24454 * #
US-PATENT-4,025,950 ..... c 32 N77-24328 * #
US-PATENT-4,025,964 ..... c 52 N77-25772 * #
US-PATENT-4,026,527 ..... c 34 N77-24423 * #
US-PATENT-4,026,655 ..... c 36 N77-25501 * #
US-PATENT-4,027,212 ..... c 33 N77-26386 * #
US-PATENT-4,027,265 ..... c 32 N77-24331 * #
US-PATENT-4,027,273 ..... c 36 N77-25502 * #
US-PATENT-4,027,494 ..... c 35 N78-12390 * #
US-PATENT-4,027,524 ..... c 09 N77-27131 * #
US-PATENT-4,028,939 ..... c 34 N77-27345 * #
US-PATENT-4,029,470 ..... c 51 N77-27677 * #
US-PATENT-4,029,500 ..... c 24 N77-27187 * #
US-PATENT-4,029,838 ..... c 24 N77-27188 * #
US-PATENT-4,030,047 ..... c 35 N77-27366 * #
US-PATENT-4,030,348 ..... c 39 N78-10493 * #
US-PATENT-4,031,389 ..... c 36 N77-26477 * #
US-PATENT-4,032,089 ..... c 24 N77-28225 * #
US-PATENT-4,032,089 ..... c 27 N81-14077 * #
US-PATENT-4,033,119 ..... c 07 N77-28118 * #
US-PATENT-4,033,133 ..... c 28 N80-10374 * #
US-PATENT-4,033,182 ..... c 39 N77-28511 * #
US-PATENT-4,033,286 ..... c 25 N79-28253 * #
US-PATENT-4,033,316 ..... c 33 N77-28385 * #
US-PATENT-4,033,334 ..... c 52 N77-28717 * #
US-PATENT-4,033,349 ..... c 52 N77-28716 * #
US-PATENT-4,033,479 ..... c 37 N77-28487 * #
US-PATENT-4,033,503 ..... c 26 N77-29260 * #
US-PATENT-4,033,504 ..... c 26 N77-28265 * #
US-PATENT-4,033,705 ..... c 07 N77-27116 * #
US-PATENT-4,033,882 ..... c 32 N77-28346 *
US-PATENT-4,035,037 ..... c 37 N77-28486 * #
US-PATENT-4,035,062 ..... c 74 N77-28932 * #
US-PATENT-4,035,065 ..... c 74 N77-28933 * #
US-PATENT-4,038,705 ..... c 54 N77-30749 * #
US-PATENT-4,039-489 ..... c 27 N77-31308 * #
US-PATENT-4,039-946 ..... c 35 N77-30436 * #
US-PATENT-4,039,000 ..... c 34 N77-30399 * #
US-PATENT-4,039,347 ..... c 27 N77-30237 * #
US-PATENT-4,039,754 ..... c 32 N77-30309 * #
US-PATENT-4,039,925 ..... c 33 N77-30365 * #
US-PATENT-4,040,041 ..... c 33 N77-31404 * #
US-PATENT-4,040,750 ..... c 35 N77-31465 * #
US-PATENT-4,040,867 ..... c 44 N77-31601 * #
US-PATENT-4,040,940 ..... c 37 N80-14397 * #
US-PATENT-4,041,233 ..... c 27 N77-30236 * #
US-PATENT-4,041,391 ..... c 32 N77-30308 * #
US-PATENT-4,041,697 ..... c 37 N78-10467 * #
US-PATENT-4,041,910 ..... c 37 N77-31497 * #
US-PATENT-4,042,926 ..... c 32 N77-31350 * #
US-PATENT-4,043,668 ..... c 35 N84-33766 * #
US-PATENT-4,043,674 ..... c 36 N77-32478 * #
US-PATENT-4,044,753 ..... c 44 N77-32582 * #
US-PATENT-4,044,821 ..... c 44 N77-32581 * #
US-PATENT-4,045,063 ..... c 37 N77-32499 * #
US-PATENT-4,045,149 ..... c 07 N77-32148 * #
US-PATENT-4,045,247 ..... c 35 N77-32454 * #
US-PATENT-4,045,255 ..... c 26 N77-32279 * #
US-PATENT-4,045,315 ..... c 44 N77-32580 * #
US-PATENT-4,045,359 ..... c 25 N77-32255 * #
US-PATENT-4,045,728 ..... c 35 N77-32455 * #
US-PATENT-4,045,792 ..... c 60 N77-32731 * #
US-PATENT-4,045,795 ..... c 32 N77-32342 * #
US-PATENT-4,046,012 ..... c 35 N77-32456 * #
US-PATENT-4,046,190 ..... c 34 N77-32413 * #
US-PATENT-4,046,262 ..... c 54 N77-32721 * #
US-PATENT-4,046,434 ..... c 37 N77-32500 * #
US-PATENT-4,046,435 ..... c 37 N77-32501 * #
US-PATENT-4,046,462 ..... c 44 N77-32583 * #
US-PATENT-4,046,529 ..... c 54 N77-32722 * #
US-PATENT-4,046,560 ..... c 26 N77-32280 * #
US-PATENT-4,046,617 ..... c 76 N77-32919 * #
US-PATENT-4,046,619 ..... c 27 N77-32308 * #
US-PATENT-4,047,840 ..... c 37 N78-10468 * #
US-PATENT-4,051,558 ..... c 52 N78-10686 * #
US-PATENT-4,051,834 ..... c 44 N78-10554 * #
US-PATENT-4,051,877 ..... c 35 N78-10428 * #
US-PATENT-4,052,144 ..... c 25 N78-10224 * #
US-PATENT-4,052,181 ..... c 71 N78-10837 * #
US-PATENT-4,052,302 ..... c 25 N78-10225 * #
US-PATENT-4,052,523 ..... c 24 N78-10214 * #
US-PATENT-4,052,614 ..... c 35 N78-10429 * #
US-PATENT-4,052,648 ..... c 33 N78-10376 * #
US-PATENT-4,052,659 ..... c 33 N78-10377 * #
US-PATENT-4,052,666 ..... c 43 N78-10529 * #
US-PATENT-4,052,705 ..... c 60 N78-10709 * #
US-PATENT-4,053,229 ..... c 74 N78-13874 * #
US-PATENT-4,053,231 ..... c 35 N78-18391 * #
US-PATENT-4,053,918 ..... c 44 N78-13526 * #
US-PATENT-4,055,004 ..... c 09 N78-18083 * #
US-PATENT-4,055,041 ..... c 07 N78-18066 * #
US-PATENT-4,055,072 ..... c 35 N78-19465 * #
US-PATENT-4,055,089 ..... c 35 N78-18390 * #
US-PATENT-4,055,147 ..... c 35 N78-19466 * #
US-PATENT-4,055,416 ..... c 26 N78-18182 * #
US-PATENT-4,055,447 ..... c 26 N78-18183 * #
US-PATENT-4,055,686 ..... c 37 N78-13436 * #
US-PATENT-4,055,705 ..... c 34 N78-18355 * #
US-PATENT-4,055,707 ..... c 44 N78-19599 * #
US-PATENT-4,055,764 ..... c 35 N78-13400 * #
US-PATENT-4,055,777 ..... c 33 N78-18308 * #
US-PATENT-4,055,810 ..... c 36 N78-18410 * #
US-PATENT-4,055,847 ..... c 33 N78-13320 * #
US-PATENT-4,061,029 ..... c 35 N78-14364 * #
US-PATENT-4,061,041 ..... c 71 N78-14867 * #
US-PATENT-4,061,146 ..... c 52 N78-14773 * #
US-PATENT-4,061,190 ..... c 43 N78-14452 * #
US-PATENT-4,061,427 ..... c 36 N78-14380 * #
US-PATENT-4,061,561 ..... c 25 N78-14104 * #
US-PATENT-4,061,570 ..... c 54 N78-14784 * #
US-PATENT-4,061,577 ..... c 74 N78-14889 * #
US-PATENT-4,061,579 ..... c 24 N78-14096 * #
US-PATENT-4,061,812 ..... c 24 N78-15180 * #
US-PATENT-4,061,834 ..... c 27 N78-14164 * #
US-PATENT-4,061,856 ..... c 27 N78-15276 * #
US-PATENT-4,061,955 ..... c 44 N78-14625 * #
US-PATENT-4,061,974 ..... c 32 N78-15323 * #
US-PATENT-4,062,227 ..... c 39 N78-15512 * #
US-PATENT-4,062,245 ..... c 37 N78-16369 * #
US-PATENT-4,062,347 ..... c 44 N78-15560 * #
US-PATENT-4,062,650 ..... c 25 N78-15210 * #
US-PATENT-4,062,996 ..... c 74 N78-15879 * #
US-PATENT-4,063,088 ..... c 74 N78-15880 * #
US-PATENT-4,063,092 ..... c 35 N78-15461 * #
US-PATENT-4,063,282 ..... c 39 N78-16387 * #
US-PATENT-4,063,814 ..... c 74 N78-17866 * #
US-PATENT-4,063,981 ..... c 24 N78-17149 * #
US-PATENT-4,064,566 ..... c 27 N78-17215 * #
US-PATENT-4,064,642 ..... c 54 N78-17675 * #
US-PATENT-4,064,692 ..... c 37 N78-17384 * #
US-PATENT-4,065,053 ..... c 44 N78-17460 * #
US-PATENT-4,065,202 ..... c 35 N78-17357 * #
US-PATENT-4,065,340 ..... c 24 N78-17150 * #
US-PATENT-4,065,345 ..... c 27 N78-17205 * #
US-PATENT-4,066,039 ..... c 37 N78-17383 * #
US-PATENT-4,067,015 ..... c 17 N78-17140 * #
US-PATENT-4,067,043 ..... c 74 N78-17865 * #
US-PATENT-4,067,653 ..... c 74 N78-17867 * #
US-PATENT-4,067,742 ..... c 27 N78-17206 * #
US-PATENT-4,068,469 ..... c 07 N78-17055 * #
US-PATENT-4,068,470 ..... c 07 N78-17056 * #
US-PATENT-4,068,495 ..... c 31 N78-17237 * #
US-PATENT-4,068,763 ..... c 54 N78-17676 * #
US-PATENT-4,069,028 ..... c 34 N78-17335 * #
US-PATENT-4,069,212 ..... c 27 N78-17213 * #
US-PATENT-4,069,478 ..... c 60 N78-17691 * #
US-PATENT-4,069,661 ..... c 07 N78-18067 * #
US-PATENT-4,070,574 ..... c 74 N78-18905 * #
US-PATENT-4,072,532 ..... c 27 N78-19302 * #
US-PATENT-4,075,057 ..... c 73 N78-19920 * #
US-PATENT-4,077,231 ..... c 31 N78-25256 * #
US-PATENT-4,077,678 ..... c 44 N78-24608 * #
US-PATENT-4,077,788 ..... c 28 N78-24365 * #
US-PATENT-4,077,788 ..... c 28 N81-14103 * #
US-PATENT-4,077,813 ..... c 26 N78-24333 * #
US-PATENT-4,077,818 ..... c 44 N78-24609 * #
US-PATENT-4,077,921 ..... c 24 N78-24290 * #
US-PATENT-4,078,110 ..... c 34 N78-25350 * #
US-PATENT-4,078,175 ..... c 76 N78-24950 * #
US-PATENT-4,078,290 ..... c 37 N78-24544 * #
US-PATENT-4,078,378 ..... c 37 N78-24545 * #
US-PATENT-4,079,268 ..... c 32 N78-24391 * #
US-PATENT-4,080,901 ..... c 20 N78-24275 * #
US-PATENT-4,081,250 ..... c 44 N78-31527 * #
US-PATENT-4,082,001 ..... c 35 N78-24515 * #
US-PATENT-4,082,569 ..... c 44 N78-25527 * #
US-PATENT-4,083,097 ..... c 44 N78-25528 * #
US-PATENT-4,083,181 ..... c 07 N78-25089 * #
US-PATENT-4,083,380 ..... c 37 N78-25426 * #
US-PATENT-4,083,520 ..... c 15 N78-25119 * #
US-PATENT-4,083,765 ..... c 35 N78-25391 * #
US-PATENT-4,084,124 ..... c 44 N78-25531 * #
US-PATENT-4,084,132 ..... c 33 N78-25319 * #
US-PATENT-4,084,612 ..... c 34 N78-25351 * #
US-PATENT-4,084,825 ..... c 07 N78-25090 * #
US-PATENT-4,084,985 ..... c 44 N78-25529 * #
US-PATENT-4,085,004 ..... c 73 N78-28913 * #
US-PATENT-4,085,241 ..... c 44 N78-25530 * #
US-PATENT-4,085,332 ..... c 25 N78-25148 * #
US-PATENT-4,087,902 ..... c 33 N78-27326 * #
US-PATENT-4,087,962 ..... c 34 N78-27357 * #
US-PATENT-4,087,975 ..... c 44 N78-32542 * #
US-PATENT-4,088,018 ..... c 37 N78-27424 * #
US-PATENT-4,088,094 ..... c 51 N78-27733 * #
US-PATENT-4,088,270 ..... c 07 N78-27121 * #
US-PATENT-4,088,291 ..... c 37 N78-27425 * #
US-PATENT-4,088,312 ..... c 37 N78-27423 * #
US-PATENT-4,088,408 ..... c 74 N78-27904 * #
US-PATENT-4,088,532 ..... c 25 N78-27226 * #
US-PATENT-4,088,806 ..... c 24 N78-27180 * #
US-PATENT-4,088,926 ..... c 75 N78-27913 * #
US-PATENT-4,088,951 ..... c 35 N78-28411 * #
US-PATENT-4,088,954 ..... c 35 N78-32397 * #
US-PATENT-4,088,965 ..... c 36 N78-27402 * #
US-PATENT-4,088,999 ..... c 44 N78-28594 * #
US-PATENT-4,089,004 ..... c 32 N80-29539 * #
US-PATENT-4,089,209 ..... c 35 N78-27384 * #
US-PATENT-4,089,705 ..... c 44 N78-27515 * #
US-PATENT-4,090,213 ..... c 44 N80-29835 * #
US-PATENT-4,091,166 ..... c 27 N78-31233 * #
US-PATENT-4,091,329 ..... c 33 N78-32339 * #
US-PATENT-4,091,464 ..... c 54 N78-31735 * #
US-PATENT-4,091,464 ..... c 54 N79-24651 * #
US-PATENT-4,091,465 ..... c 54 N78-31736 * #
US-PATENT-4,091,613 ..... c 44 N78-32539 * #
US-PATENT-4,091,665 ..... c 09 N78-31129 * #
US-PATENT-4,091,798 ..... c 44 N78-31526 * #
US-PATENT-4,091,800 ..... c 44 N78-31525 * #
US-PATENT-4,092,188 ..... c 28 N78-31255 * #
US-PATENT-4,092,274 ..... c 27 N78-31232 * #
US-PATENT-4,092,466 ..... c 27 N78-32256 * #
US-PATENT-4,092,466 ..... c 27 N80-10358 * #
US-PATENT-4,092,606 ..... c 33 N78-32338 * #
US-PATENT-4,092,617 ..... c 33 N78-32340 * #
US-PATENT-4,092,633 ..... c 54 N78-32720 * #
US-PATENT-4,092,648 ..... c 32 N78-31321 * #
US-PATENT-4,092,712 ..... c 33 N78-32341 * #
US-PATENT-4,092,874 ..... c 37 N78-31426 * #
US-PATENT-4,093,156 ..... c 05 N78-32086 * #
US-PATENT-4,093,354 ..... c 73 N78-32848 * #
US-PATENT-4,093,382 ..... c 38 N78-32447 * #
US-PATENT-4,093,771 ..... c 27 N78-32260 * #
US-PATENT-4,093,917 ..... c 35 N78-32396 * #
US-PATENT-4,094,073 ..... c 35 N78-32395 * #
US-PATENT-4,094,758 ..... c 26 N78-32229 * #
US-PATENT-4,094,775 ..... c 52 N80-14687 * #
US-PATENT-4,094,862 ..... c 27 N78-32261 * #
US-PATENT-4,094,943 ..... c 27 N78-32262 * #
US-PATENT-4,095,593 ..... c 54 N78-32721 * #
US-PATENT-4,096,315 ..... c 74 N78-32854 * #
US-PATENT-4,097,194 ..... c 07 N78-33101 * #
US-PATENT-4,098,142 ..... c 37 N79-10422 * #
US-PATENT-4,099,799 ..... c 37 N79-10418 * #
US-PATENT-4,100,331 ..... c 44 N79-10513 * #
US-PATENT-4,100,487 ..... c 33 N79-10337 * #
US-PATENT-4,100,531 ..... c 32 N79-10263 * #
US-PATENT-4,101,195 ..... c 89 N79-10969 * #
US-PATENT-4,101,644 ..... c 25 N79-10162 * #
US-PATENT-4,101,780 ..... c 35 N79-10389 * #
US-PATENT-4,101,891 ..... c 35 N79-10391 * #
US-PATENT-4,101,961 ..... c 52 N79-10724 * #
US-PATENT-4,102,580 ..... c 74 N79-11865 * #
US-PATENT-4,103,550 ..... c 31 N79-11246 * #
US-PATENT-4,103,619 ..... c 28 N79-11231 * #
US-PATENT-4,103,712 ..... c 37 N79-11402 * #
US-PATENT-4,104,018 ..... c 25 N79-11151 * #
US-PATENT-4,104,084 ..... c 44 N79-11467 * #
US-PATENT-4,104,091 ..... c 44 N79-11468 * #
US-PATENT-4,104,134 ..... c 44 N79-11469 * #
US-PATENT-4,104,134 ..... c 44 N80-16452 * #
US-PATENT-4,104,873 ..... c 37 N79-11403 * #
US-PATENT-4,105,261 ..... c 37 N79-11404 * #
US-PATENT-4,105,517 ..... c 44 N79-11470 * #
US-PATENT-4,105,966 ..... c 33 N79-11315 * #
US-PATENT-4,106,218 ..... c 74 N79-13855 * #
US-PATENT-4,106,587 ..... c 71 N79-14871 * #
US-PATENT-4,106,687 ..... c 37 N79-13364 * #
US-PATENT-4,107,363 ..... c 33 N79-12331 * #
US-PATENT-4,107,627 ..... c 72 N79-13826 * #
US-PATENT-4,107,919 ..... c 34 N79-13288 * #
US-PATENT-4,108,241 ..... c 34 N79-13289 * #
US-PATENT-4,109,213 ..... c 33 N79-22373 * #
US-PATENT-4,109,644 ..... c 52 N79-18580 * #

US-PATENT-4,110,683 ..... c 33 N79-18193 * #
US-PATENT-4,110,703 ..... c 36 N79-18307 * #
US-PATENT-4,111,041 ..... c 35 N79-14345 * #
US-PATENT-4,111,058 ..... c 35 N79-14347 * #
US-PATENT-4,111,068 ..... c 37 N79-14382 * #
US-PATENT-4,111,184 ..... c 44 N79-14526 * #
US-PATENT-4,111,718 ..... c 35 N79-14346 * #
US-PATENT-4,111,729 ..... c 28 N79-14228 * #
US-PATENT-4,111,775 ..... c 76 N79-14906 * #
US-PATENT-4,111,851 ..... c 24 N79-14156 * #
US-PATENT-4,112,357 ..... c 33 N79-14305 * #
US-PATENT-4,112,497 ..... c 32 N79-14267 * #
US-PATENT-4,112,875 ..... c 44 N78-33526 * #
US-PATENT-4,116,131 ..... c 20 N78-32179 * #
US-PATENT-4,117,669 ..... c 07 N79-10057 * #
US-PATENT-4,117,731 ..... c 35 N79-10390 * #
US-PATENT-4,117,749 ..... c 37 N79-10419 * #
US-PATENT-4,117,881 ..... c 51 N79-10694 * #
US-PATENT-4,118,014 ..... c 37 N79-10420 * #
US-PATENT-4,118,315 ..... c 51 N79-10693 * #
US-PATENT-4,118,427 ..... c 27 N80-32514 * #
US-PATENT-4,118,620 ..... c 37 N79-10421 * #
US-PATENT-4,118,665 ..... c 33 N79-10338 * #
US-PATENT-4,118,666 ..... c 32 N79-10262 * #
US-PATENT-4,118,671 ..... c 33 N79-10339 * #
US-PATENT-4,118,701 ..... c 32 N79-10264 * #
US-PATENT-4,119,581 ..... c 27 N81-14076 * #
US-PATENT-4,119,926 ..... c 33 N79-11313 * #
US-PATENT-4,119,964 ..... c 32 N79-11265 * #
US-PATENT-4,119,972 ..... c 32 N79-11264 * #
US-PATENT-4,119,996 ..... c 33 N79-12321 * #
US-PATENT-4,121,965 ..... c 76 N79-11920 * #
US-PATENT-4,121,995 ..... c 25 N79-11152 * #
US-PATENT-4,122,214 ..... c 44 N79-11472 * #
US-PATENT-4,122,334 ..... c 74 N79-12890 * #
US-PATENT-4,122,383 ..... c 44 N79-12541 * #
US-PATENT-4,122,454 ..... c 32 N79-13214 * #
US-PATENT-4,122,518 ..... c 52 N79-12694 * #
US-PATENT-4,122,712 ..... c 34 N79-12359 * #
US-PATENT-4,122,725 ..... c 38 N79-14398 * #
US-PATENT-4,122,816 ..... *c 37* *N79-11405 * #*
US-PATENT-4,122,833 ..... c 44 N79-11471 * #
US-PATENT-4,122,991 ..... c 18 N79-11108 * #
US-PATENT-4,123,355 ..... c 45 N79-12584 * #
US-PATENT-4,124,180 ..... c 05 N79-12061 * #
US-PATENT-4,124,330 ..... c 07 N79-14095 * #
US-PATENT-4,124,732 ..... c 27 N79-12221 * #
US-PATENT-4,128,814 ..... c 36 N79-14362 * #
US-PATENT-4,129,357 ..... c 74 N79-14891 * #
US-PATENT-4,130,032 ..... c 37 N79-14383 * #
US-PATENT-4,130,112 ..... c 52 N79-14751 * #
US-PATENT-4,130,471 ..... c 25 N79-14169 * #
US-PATENT-4,130,490 ..... c 33 N79-15245 * #
US-PATENT-4,130,795 ..... c 35 N79-14349 * #
US-PATENT-4,131,336 ..... c 44 N79-14529 * #
US-PATENT-4,131,459 ..... c 27 N79-14213 * #
US-PATENT-4,131,486 ..... c 44 N79-14528 * #
US-PATENT-4,132,068 ..... c 07 N79-14097 * #
US-PATENT-4,132,069 ..... c 07 N79-14096 * #
US-PATENT-4,132,130 ..... c 44 N79-14527 * #
US-PATENT-4,132,375 ..... c 08 N79-14108 * #
US-PATENT-4,132,594 ..... c 52 N79-14749 * #
US-PATENT-4,132,599 ..... c 52 N79-14750 * #
US-PATENT-4,132,829 ..... c 27 N79-14214 * #
US-PATENT-4,132,940 ..... c 35 N79-14348 * #
US-PATENT-4,132,989 ..... c 32 N79-14268 * #
US-PATENT-4,133,697 ..... c 44 N79-17314 * #
US-PATENT-4,133,697 ..... c 44 N80-14474 * #
US-PATENT-4,133,941 ..... c 44 N79-17313 * #
US-PATENT-4,133,941 ..... c 25 N82-21268 * #
US-PATENT-4,134,447 ..... c 31 N79-17029 * #
US-PATENT-4,134,683 ..... c 43 N79-17288 * #
US-PATENT-4,134,744 ..... c 35 N79-17192 * #
US-PATENT-4,134,786 ..... c 85 N79-17747 * #
US-PATENT-4,135,019 ..... c 24 N79-16915 * #
US-PATENT-4,135,127 ..... c 33 N79-17133 * #
US-PATENT-4,135,290 ..... c 44 N79-18444 * #
US-PATENT-4,135,367 ..... c 44 N79-18443 * #
US-PATENT-4,135,817 ..... c 35 N79-18296 * #
US-PATENT-4,135,851 ..... c 37 N79-18318 * #
US-PATENT-4,135,851 ..... c 37 N80-26658 * #
US-PATENT-4,135,851 ..... c 37 N82-19540 * #
US-PATENT-4,136,211 ..... c 24 N79-17916 * #
US-PATENT-4,137,010 ..... c 05 N79-17847 * #
US-PATENT-4,137,365 ..... c 27 N79-18052 * #
US-PATENT-4,139,291 ..... c 74 N79-20856 * #
US-PATENT-4,139,806 ..... c 71 N79-20827 * #
US-PATENT-4,139,839 ..... c 60 N79-20751 * #
US-PATENT-4,139,862 ..... c 32 N79-20297 * #
US-PATENT-4,140,972 ..... *c 32* *N79-20296 * #*
US-PATENT-4,141,219 ..... c 34 N79-20335 * #
US-PATENT-4,141,224 ..... c 34 N79-20336 * #
US-PATENT-4,141,259 ..... c 37 N79-20377 * #
US-PATENT-4,142,101 ..... c 74 N79-20857 * #
US-PATENT-4,142,119 ..... c 33 N79-20314 * #
US-PATENT-4,143,314 ..... c 20 N79-20179 * #
US-PATENT-4,145,058 ..... c 37 N79-22475 * #
US-PATENT-4,145,255 ..... c 25 N79-22235 * #
US-PATENT-4,145,524 ..... c 27 N79-22300 * #
US-PATENT-4,145,933 ..... *c 39* *N79-22537 * #*
US-PATENT-4,146,180 ..... c 37 N79-22474 * #
US-PATENT-4,146,367 ..... c 25 N81-33246 * #
US-PATENT-4,146,409 ..... c 26 N79-22271 * #
US-PATENT-4,148,031 ..... *c 32* *N79-24210 * #*
US-PATENT-4,148,295 ..... c 44 N79-23481 * #
US-PATENT-4,148,375 ..... c 46 N79-22679 * #
US-PATENT-4,148,452 ..... c 08 N79-23097 * #
US-PATENT-4,148,962 ..... c 24 N79-24062 * #
US-PATENT-4,149,034 ..... c 71 N79-23753 * #
US-PATENT-4,149,233 ..... c 33 N79-24257 * #
US-PATENT-4,149,278 ..... c 54 N79-24652 * #
US-PATENT-4,149,423 ..... c 32 N79-24203 * #
US-PATENT-4,149,521 ..... c 44 N79-24433 * #
US-PATENT-4,149,665 ..... c 44 N79-24431 * #
US-PATENT-4,149,817 ..... c 44 N79-24432 * #
US-PATENT-4,149,938 ..... c 25 N79-24073 * #
US-PATENT-4,150,425 ..... c 33 N79-24254 * #
US-PATENT-4,151,086 ..... c 34 N79-24285 * #
US-PATENT-4,151,456 ..... c 33 N79-23345 * #
US-PATENT-4,151,612 ..... c 54 N79-24651 * #
US-PATENT-4,151,800 ..... c 24 N79-25142 * #
US-PATENT-4,152,194 ..... c 76 N79-23798 * #
US-PATENT-4,153,134 ..... c 46 N79-23555 * #
US-PATENT-4,153,476 ..... c 44 N79-25482 * #
US-PATENT-4,153,818 ..... c 32 N79-23310 * #
US-PATENT-4,154,084 ..... c 43 N79-25443 * #
US-PATENT-4,154,228 ..... c 52 N79-27836 * #
US-PATENT-4,154,230 ..... c 52 N79-26771 * #
US-PATENT-4,154,256 ..... c 05 N79-24976 * #
US-PATENT-4,154,501 ..... c 33 N81-29342 * #
US-PATENT-4,154,912 ..... c 44 N79-25481 * #
US-PATENT-4,155,475 ..... c 24 N79-25143 * #
US-PATENT-4,156,309 ..... c 44 N79-26475 * #
US-PATENT-4,156,548 ..... c 35 N79-26372 * #
US-PATENT-4,156,752 ..... c 15 N79-26100 * #
US-PATENT-4,156,971 ..... c 43 N79-26439 * #
US-PATENT-4,157,655 ..... *c 43* *N80-14423 * #*
US-PATENT-4,157,718 ..... c 52 N80-14684 * #
US-PATENT-4,158,583 ..... c 28 N79-28342 * #
US-PATENT-4,158,742 ..... c 12 N79-26075 * #
US-PATENT-4,158,775 ..... c 72 N80-14877 * #
US-PATENT-4,158,895 ..... c 52 N79-26772 * #
US-PATENT-4,159,262 ..... c 27 N79-28307 * #
US-PATENT-4,159,366 ..... c 44 N79-26474 * #
US-PATENT-4,159,634 ..... c 37 N79-28550 * #
US-PATENT-4,160,254 ..... c 33 N79-28416 * #
US-PATENT-4,160,508 ..... c 37 N79-28551 * #
US-PATENT-4,160,601 ..... c 35 N79-28527 * #
US-PATENT-4,161,661 ..... *c 33* *N79-28415 * #*
US-PATENT-4,161,731 ..... c 31 N79-28370 * #
US-PATENT-4,161,747 ..... c 37 N79-28549 * #
US-PATENT-4,162,169 ..... c 24 N79-31347 * #
US-PATENT-4,162,701 ..... c 34 N79-31523 * #
US-PATENT-4,162,928 ..... c 44 N79-31753 * #
US-PATENT-4,163,678 ..... c 44 N79-31752 * #
US-PATENT-4,164,079 ..... c 09 N79-31228 * #
US-PATENT-4,164,718 ..... c 32 N80-14281 * #
US-PATENT-4,165,460 ..... c 43 N79-31706 * #
US-PATENT-4,166,170 ..... c 27 N79-33316 * #
US-PATENT-4,166,170 ..... c 27 N81-14078 * #
US-PATENT-4,166,959 ..... c 74 N79-34011 * #
US-PATENT-4,167,111 ..... c 46 N80-10709 * #
US-PATENT-4,168,287 ..... c 27 N80-10358 * #
US-PATENT-4,168,483 ..... c 39 N80-10507 * #
US-PATENT-4,168,706 ..... c 54 N80-10799 * #
US-PATENT-4,168,718 ..... c 20 N80-10278 * #
US-PATENT-4,168,939 ..... c 05 N80-14107 * #
US-PATENT-4,169,129 ..... c 37 N80-10494 * #
US-PATENT-4,170,776 ..... c 46 N80-14603 * #
US-PATENT-4,170,987 ..... c 52 N81-27783 * #
US-PATENT-4,171,615 ..... c 20 N80-14188 * #
US-PATENT-4,171,645 ..... c 35 N80-14371 * #
US-PATENT-4,172,228 ..... c 33 N80-14332 * #
US-PATENT-4,172,786 ..... c 45 N80-14579 * #
US-PATENT-4,172,883 ..... c 26 N80-14229 * #
US-PATENT-4,173,001 ..... c 36 N80-14384 * #
US-PATENT-4,173,324 ..... c 37 N80-14398 * #
US-PATENT-4,173,397 ..... c 44 N80-14473 * #
US-PATENT-4,173,820 ..... c 44 N80-14474 * #
US-PATENT-4,175,249 ..... c 44 N80-14472 * #
US-PATENT-4,176,007 ..... c 51 N80-16714 * #
US-PATENT-4,176,360 ..... c 18 N80-14183 * #
US-PATENT-4,176,662 ..... c 52 N80-16725 * #
US-PATENT-4,176,950 ..... c 36 N80-16321 * #
US-PATENT-4,177,325 ..... c 44 N80-16452 * #
US-PATENT-4,177,333 ..... *c 25* *N80-16116 * #*
US-PATENT-4,178,100 ..... c 35 N80-18359 * #
US-PATENT-4,180,648 ..... c 27 N80-16158 * #
US-PATENT-4,181,589 ..... c 51 N80-16715 * #
US-PATENT-4,182,158 ..... c 35 N80-18358 * #
US-PATENT-4,183,217 ..... c 20 N80-18097 * #
US-PATENT-4,184,072 ..... c 44 N80-18552 * #
US-PATENT-4,184,111 ..... c 44 N80-18551 * #
US-PATENT-4,184,149 ..... c 06 N80-18036 * #
US-PATENT-4,184,155 ..... c 43 N80-18498 * #
US-PATENT-4,184,327 ..... c 07 N80-18039 * #
US-PATENT-4,184,368 ..... c 48 N80-18667 * #
US-PATENT-4,184,472 ..... c 76 N80-18951 * #
US-PATENT-4,184,491 ..... c 52 N80-18690 * #
US-PATENT-4,184,609 ..... c 37 N80-18393 * #
US-PATENT-4,184,903 ..... c 44 N80-18550 * #
US-PATENT-4,185,164 ..... c 33 N80-18286 * #
US-PATENT-4,185,493 ..... c 35 N80-18357 * #
US-PATENT-4,186,347 ..... c 32 N80-18253 * #
US-PATENT-4,186,749 ..... c 52 N80-18691 * #
US-PATENT-4,187,394 ..... c 32 N80-18252 * #
US-PATENT-4,187,416 ..... c 33 N80-18285 * #
US-PATENT-4,187,470 ..... c 36 N80-18372 * #
US-PATENT-4,187,506 ..... c 33 N80-18287 * #
US-PATENT-4,188,368 ..... c 31 N80-18231 * #
US-PATENT-4,188,823 ..... c 02 N80-20224 * #
US-PATENT-4,189,234 ..... c 74 N80-21138 * #
US-PATENT-4,189,675 ..... c 32 N80-20448 * #
US-PATENT-4,189,914 ..... c 07 N81-29129 * #
US-PATENT-4,190,060 ..... c 52 N81-29763 * #
US-PATENT-4,190,626 ..... c 24 N81-29163 * #
US-PATENT-4,191,159 ..... c 37 N80-29703 * #
US-PATENT-4,191,505 ..... c 44 N80-21828 * #
US-PATENT-4,191,893 ..... c 44 N80-29834 * #
US-PATENT-4,192,290 ..... c 44 N80-20810 * #
US-PATENT-4,192,910 ..... c 33 N80-20487 * #
US-PATENT-4,192,910 ..... c 44 N81-29524 * #
US-PATENT-4,192,994 ..... c 74 N80-21140 * #
US-PATENT-4,193,388 ..... c 44 N80-20808 * #
US-PATENT-4,193,435 ..... c 37 N80-23653 * #
US-PATENT-4,193,570 ..... c 35 N80-21719 * #
US-PATENT-4,193,693 ..... c 35 N80-20563 * #
US-PATENT-4,193,827 ..... c 28 N80-20402 * #
US-PATENT-4,193,827 ..... c 28 N81-14103 * #
US-PATENT-4,194,115 ..... c 25 N80-20334 * #
US-PATENT-4,195,244 ..... c 35 N80-20559 * #
US-PATENT-4,195,279 ..... c 35 N80-20560 * #
US-PATENT-4,195,512 ..... *c 43* *N80-23711 * #*
US-PATENT-4,195,666 ..... c 37 N80-23654 * #
US-PATENT-4,196,129 ..... c 27 N80-32515 * #
US-PATENT-4,196,619 ..... c 46 N80-24906 * #
US-PATENT-4,196,840 ..... c 37 N80-23655 * #
US-PATENT-4,197,530 ..... c 33 N80-23559 * #
US-PATENT-4,198,209 ..... c 28 N80-23471 * #
US-PATENT-4,198,232 ..... c 26 N80-23419 * #
US-PATENT-4,198,788 ..... c 74 N80-24149 * #
US-PATENT-4,198,792 ..... c 25 N80-23383 * #
US-PATENT-4,198,988 ..... c 52 N80-23969 * #
US-PATENT-4,199,448 ..... c 27 N80-23452 * #
US-PATENT-4,199,650 ..... c 27 *N80-24437 * #*
US-PATENT-4,199,764 ..... c 32 N80-23524 * #
US-PATENT-4,199,937 ..... c 34 N80-24573 * #
US-PATENT-4,199,937 ..... c 44 N81-24519 * #
US-PATENT-4,200,721 ..... *c 27* *N80-24438 * #*
US-PATENT-4,201,468 ..... c 32 N80-24510 * #
US-PATENT-4,203,723 ..... c 27 N80-26446 * #
US-PATENT-4,204,037 ..... c 51 N80-27067 * #
US-PATENT-4,204,154 ..... c 33 N80-26599 * #
US-PATENT-4,204,402 ..... c 07 N80-26298 * #
US-PATENT-4,204,544 ..... c 52 N80-27072 * #
US-PATENT-4,204,899 ..... c 24 N80-26388 * #
US-PATENT-4,205,229 ..... c 35 N80-26635 * #
US-PATENT-4,206,383 ..... c 72 N80-27163 * #
US-PATENT-4,206,713 ..... c 31 N81-15154 * #
US-PATENT-4,206,970 ..... c 74 N80-27185 * #
US-PATENT-4,207,024 ..... c 37 N80-26658 * #
US-PATENT-4,207,024 ..... c 37 N82-19540 * #
US-PATENT-4,209,393 ..... c 45 N82-11634 * #
US-PATENT-4,209,561 ..... c 24 N81-13999 * #
US-PATENT-4,210,278 ..... c 31 N80-32583 * #
US-PATENT-4,210,401 ..... c 35 N80-28687 * #
US-PATENT-4,210,474 ..... c 28 N80-28536 * #
US-PATENT-4,210,622 ..... c 44 N80-24741 * #
US-PATENT-4,211,354 ..... c 24 N81-17170 * #
US-PATENT-4,211,354 ..... c 24 N81-26179 * #
US-PATENT-4,212,199 ..... c 02 N80-28300 * #
US-PATENT-4,212,297 ..... c 51 N81-14605 * #
US-PATENT-4,212,477 ..... c 37 N80-28711 * #
US-PATENT-4,212,477 ..... c 37 N81-26447 * #
US-PATENT-4,212,690 ..... c 26 N80-28492 * #
US-PATENT-4,213,051 ..... c 35 N80-28686 * #
US-PATENT-4,213,064 ..... c 60 N81-15706 * #
US-PATENT-4,213,131 ..... c 32 N80-28578 * #
US-PATENT-4,213,684 ..... c 74 N81-17886 * #
US-PATENT-4,214,226 ..... c 31 N80-32584 * #
US-PATENT-4,214,703 ..... c 07 N80-32392 * #
US-PATENT-4,214,902 ..... *c 26* *N80-32484 * #*
US-PATENT-4,214,905 ..... c 24 N80-33482 * #
US-PATENT-4,215,273 ..... c 74 N80-33210 * #
US-PATENT-4,215,327 ..... c 32 N80-32605 * #
US-PATENT-4,215,345 ..... c 04 N80-32359 * #
US-PATENT-4,215,548 ..... c 37 N80-31790 * #
US-PATENT-4,215,590 ..... c 37 N80-32717 * #

US-PATENT-4,215,592 ..... c 37 N80-32716 * #
US-PATENT-4,216,186 ..... c 76 N80-32244 * #
US-PATENT-4,216,542 ..... c 33 N81-15192 * #
US-PATENT-4,217,165 ..... c 76 N80-32245 * #
US-PATENT-4,217,633 ..... c 44 N81-12542 * #
US-PATENT-4,218,280 ..... c 27 N80-32516 * #
US-PATENT-4,218,633 ..... c 72 N80-33186 * #
US-PATENT-4,218,650 ..... c 33 N80-32650 * #
US-PATENT-4,218,682 ..... c 32 N80-32604 * #
US-PATENT-4,218,685 ..... c 32 N81-14187 * #
US-PATENT-4,218,892 ..... c 35 N81-14287 * #
US-PATENT-4,218,921 ..... c 71 N81-15767 * #
US-PATENT-4,218,941 ..... c 37 N81-14319 * #
US-PATENT-4,219,027 ..... c 52 N81-14612 * #
US-PATENT-4,219,084 ..... c 31 N81-14137 * #
US-PATENT-4,219,107 ..... c 37 N81-15364 * #
US-PATENT-4,219,171 ..... c 37 N81-14320 * #
US-PATENT-4,219,203 ..... c 37 N81-15363 * #
US-PATENT-4,219,926 ..... c 44 N81-14389 * #
US-PATENT-4,220,171 ..... c 07 N81-14999 * #
US-PATENT-4,221,005 ..... c 32 N81-15179 * #
US-PATENT-4,222,098 ..... c 33 N81-14220 * #
US-PATENT-4,225,102 ..... c 02 N81-14968 * #
US-PATENT-4,225,372 ..... c 27 N81-14077 * #
US-PATENT-4,226,475 ..... c 43 N81-26509 * #
US-PATENT-4,227,096 ..... c 33 N81-17348 * #
US-PATENT-4,228,422 ..... c 33 N81-14221 * #
US-PATENT-4,228,656 ..... c 37 N81-14318 * #
US-PATENT-4,229,182 ..... c 28 N81-15119 * #
US-PATENT-4,229,196 ..... c 28 N81-14103 * #
US-PATENT-4,229,473 ..... c 24 N81-14000 * #
US-PATENT-4,229,473 ..... c 24 N81-33235 * #
US-PATENT-4,230,717 ..... c 52 N81-14613 * #
US-PATENT-4,233,258 ..... c 27 N81-14078 * #
US-PATENT-4,233,606 ..... c 32 N81-14185 * #
US-PATENT-4,234,258 ..... c 25 N81-14015 * #
US-PATENT-4,234,715 ..... c 25 N81-14016 * #
US-PATENT-4,234,971 ..... c 32 N81-14186 * #
US-PATENT-4,235,060 ..... c 37 N81-14317 * #
US-PATENT-4,236,383 ..... c 44 N81-17518 * #
US-PATENT-4,236,684 ..... c 08 N81-19130 * #
US-PATENT-4,237,662 ..... c 31 N81-27323 * #
US-PATENT-4,238,911 ..... c 31 N81-27324 * #
US-PATENT-4,239,057 ..... c 37 N81-17433 * #
US-PATENT-4,240,256 ..... c 37 N81-17432 * #
US-PATENT-4,240,290 ..... c 06 N81-17057 * #
US-PATENT-4,240,601 ..... c 43 N81-17499 * #
US-PATENT-4,241,308 ..... c 33 N81-17349 * #
US-PATENT-4,241,312 ..... c 35 N81-19427 * #
US-PATENT-4,242,498 ..... c 27 N81-17259 * #
US-PATENT-4,242,553 ..... c 33 N81-19389 * #
US-PATENT-4,242,864 ..... c 07 N81-19116 * #
US-PATENT-4,243,323 ..... c 74 N81-17888 * #
US-PATENT-4,243,327 ..... c 74 N81-17887 * #
US-PATENT-4,244,215 ..... c 04 N81-21047 * #
US-PATENT-4,244,810 ..... c 09 N82-29330 * #
US-PATENT-4,244,853 ..... c 27 N81-19296 * #
US-PATENT-4,244,857 ..... c 27 N81-17260 * #
US-PATENT-4,245,085 ..... c 27 N81-17262 * #
US-PATENT-4,245,286 ..... c 33 N81-19392 * #
US-PATENT-4,245,288 ..... c 33 N81-19393 * #
US-PATENT-4,245,469 ..... c 44 N81-24519 * #
US-PATENT-4,245,566 ..... c 31 N81-19343 * #
US-PATENT-4,245,768 ..... c 37 N81-19455 * #
US-PATENT-4,245,956 ..... c 05 N81-19087 * #
US-PATENT-4,246,001 ..... c 27 N81-17261 * #
US-PATENT-4,246,901 ..... c 52 N81-24711 * #
US-PATENT-4,247,434 ..... c 25 N81-19242 * #
US-PATENT-4,248,083 ..... c 35 N81-19426 * #
US-PATENT-4,249,116 ..... c 33 N81-20352 * #
US-PATENT-4,249,238 ..... c 07 N81-19115 * #
US-PATENT-4,249,417 ..... c 52 N81-20703 * #
US-PATENT-4,249,957 ..... c 44 N81-19558 * #
US-PATENT-4,250,143 ..... c 54 N81-24724 * #
US-PATENT-4,252,007 ..... c 33 N81-25299 * #
US-PATENT-4,252,111 ..... c 52 N81-25661 * #
US-PATENT-4,252,440 ..... c 39 N81-25400 * #
US-PATENT-4,252,768 ..... c 37 N81-25371 * #
US-PATENT-4,253,156 ..... c 34 N81-26402 * #
US-PATENT-4,253,769 ..... c 25 N81-25159 * #
US-PATENT-4,254,464 ..... c 62 N81-24779 * #
US-PATENT-4,255,048 ..... c 36 N81-24422 * #
US-PATENT-4,255,495 ..... c 26 N81-25188 * #
US-PATENT-4,255,929 ..... c 37 N81-25370 * #
US-PATENT-4,256,093 ..... c 52 N81-25660 * #
US-PATENT-4,258,366 ..... c 32 N81-25278 * #
US-PATENT-4,259,821 ..... c 31 N81-25258 * #
US-PATENT-4,259,825 ..... c 31 N81-25259 * #
US-PATENT-4,260,166 ..... c 37 N81-24442 * #
US-PATENT-4,260,187 ..... c 37 N81-27519 * #
US-PATENT-4,261,349 ..... c 52 N81-25662 * #
US-PATENT-4,261,537 ..... c 08 N81-24106 * #
US-PATENT-4,262,064 ..... c 44 N81-24521 * #
US-PATENT-4,262,067 ..... c 27 N81-24257 * #
US-PATENT-4,262,080 ..... c 27 N81-25209 * #
US-PATENT-4,262,195 ..... c 44 N81-24520 * #
US-PATENT-4,262,198 ..... c 74 N83-19597 * #
US-PATENT-4,262,206 ..... c 74 N81-24900 * #
US-PATENT-4,262,258 ..... c 33 N81-27396 * #
US-PATENT-4,262,259 ..... c 33 N81-24338 * #
US-PATENT-4,263,112 ..... c 28 N81-24280 * #
US-PATENT-4,264,310 ..... c 54 N81-27806 * #
US-PATENT-4,264,728 ..... c 51 N81-28698 * #
US-PATENT-4,264,802 ..... c 35 N81-26431 * #
US-PATENT-4,264,908 ..... c 33 N81-26358 * #
US-PATENT-4,264,940 ..... c 33 N81-27397 * #
US-PATENT-4,264,984 ..... c 60 N81-27814 * #
US-PATENT-4,265,416 ..... c 14 N81-26161 * #
US-PATENT-4,266,177 ..... c 33 N81-27395 * #
US-PATENT-4,266,743 ..... c 08 N81-26152 * #
US-PATENT-4,266,788 ..... c 37 N81-26447 * #
US-PATENT-4,267,594 ..... c 33 N81-26359 * #
US-PATENT-4,267,953 ..... c 24 N81-26179 * #
US-PATENT-4,267,992 ..... c 37 N81-24443 * #
US-PATENT-4,269,640 ..... c 37 N82-24491 * #
US-PATENT-4,269,787 ..... c 27 N81-24256 * #
US-PATENT-4,270,539 ..... c 52 N81-28740 * #
US-PATENT-4,270,984 ..... c 44 N81-29524 * #
US-PATENT-4,271,761 ..... c 15 N82-24272 * #
US-PATENT-4,272,046 ..... c 08 N82-24205 * #
US-PATENT-4,272,302 ..... c 33 N81-26360 * #
US-PATENT-4,272,470 ..... c 23 N81-29160 * #
US-PATENT-4,272,720 ..... c 47 N82-24779 * #
US-PATENT-4,273,304 ..... c 05 N81-26114 * #
US-PATENT-4,273,505 ..... c 54 N81-26718 * #
US-PATENT-4,273,918 ..... c 27 N82-24338 * #
US-PATENT-4,274,038 ..... c 37 N81-33483 * #
US-PATENT-4,274,285 ..... c 35 N81-29407 * #
US-PATENT-4,274,901 ..... c 24 N81-33235 * #
US-PATENT-4,275,317 ..... c 33 N82-24418 * #
US-PATENT-4,275,453 ..... c 33 N82-24417 * #
US-PATENT-4,276,344 ..... c 27 N81-27272 * #
US-PATENT-4,276,344 ..... c 27 N85-21347 * #
US-PATENT-4,276,403 ..... c 27 N81-27271 * #
US-PATENT-4,276,553 ..... c 32 N81-27341 * #
US-PATENT-4,276,588 ..... c 33 N81-33404 * #
US-PATENT-4,277,402 ..... c 23 N82-16174 * #
US-PATENT-4,277,721 ..... c 33 N82-24415 * #
US-PATENT-4,278,220 ..... c 07 N82-26293 * #
US-PATENT-4,278,351 ..... c 74 N81-29963 * #
US-PATENT-4,278,830 ..... c 44 N81-29525 * #
US-PATENT-4,278,830 ..... c 44 N82-28780 * #
US-PATENT-4,278,978 ..... c 32 N81-29308 * #
US-PATENT-4,279-018 ..... c 33 N81-33405 * #
US-PATENT-4,279,001 ..... c 33 N82-24416 * #
US-PATENT-4,279,632 ..... c 31 N81-33319 * #
US-PATENT-4,279,906 ..... c 52 N81-29764 * #
US-PATENT-4,280,141 ..... c 33 N81-33403 * #
US-PATENT-4,280,689 ..... c 37 N81-33482 * #
US-PATENT-4,280,766 ..... c 35 N81-33448 * #
US-PATENT-4,281,102 ..... c 27 N81-29229 * #
US-PATENT-4,281,384 ..... c 18 N81-29152 * #
US-PATENT-4,281,708 ..... c 33 N82-24419 * #
US-PATENT-4,282,479 ..... c 33 N82-24420 * #
US-PATENT-4,282,525 ..... c 46 N82-12685 * #
US-PATENT-4,282,752 ..... c 44 N82-16474 * #
US-PATENT-4,283,705 ..... c 06 N82-16075 * #
US-PATENT-4,283,995 ..... c 37 N81-32510 * #
US-PATENT-4,284,034 ..... c 51 N81-32829 * #
US-PATENT-4,284,461 ..... c 27 N82-11206 * #
US-PATENT-4,284,682 ..... c 27 N82-16238 * #
US-PATENT-4,286,209 ..... c 35 N82-11431 * #
US-PATENT-4,286,460 ..... c 09 N82-11088 * #
US-PATENT-4,286,542 ..... c 37 N82-12441 * #
US-PATENT-4,287,152 ..... c 35 N82-11432 * #
US-PATENT-4,287,518 ..... c 32 N82-11336 * #
US-PATENT-4,287,578 ..... c 32 N82-18443 * #
US-PATENT-4,287,606 ..... c 74 N82-19029 * #
US-PATENT-4,287,838 ..... c 25 N82-11144 * #
US-PATENT-4,288,585 ..... c 27 N82-18389 * #
US-PATENT-4,288,982 ..... c 20 N82-18314 * #
US-PATENT-4,290,612 ..... c 37 N82-16408 * #
US-PATENT-4,290,779 ..... c 44 N82-16475 * #
US-PATENT-4,291,294 ..... c 04 N82-16059 * #
US-PATENT-4,291,887 ..... c 37 N82-12442 * #
US-PATENT-4,292,375 ..... c 24 N82-24296 * #
US-PATENT-4,292,634 ..... c 32 N82-12297 * #
US-PATENT-4,293,522 ..... c 25 N82-12166 * #
US-PATENT-4,294,261 ..... c 52 N82-11770 * #
US-PATENT-4,294,264 ..... c 52 N82-22875 * #
US-PATENT-4,295,111 ..... c 33 N82-11357 * #
US-PATENT-4,295,140 ..... c 35 N82-15381 * #
US-PATENT-4,295,786 ..... c 37 N82-19540 * #
US-PATENT-4,298,833 ..... c 33 N82-18493 * #
US-PATENT-4,298,926 ..... c 33 N82-18494 * #
US-PATENT-4,298,987 ..... c 60 N82-16747 * #
US-PATENT-4,299,492 ..... c 36 N82-16396 * #
US-PATENT-4,300,106 ..... c 36 N82-13415 * #
US-PATENT-4,300,159 ..... c 43 N82-13465 * #
US-PATENT-4,300,656 ..... c 71 N82-16800 * #
US-PATENT-4,300,723 ..... c 34 N82-13376 * #
US-PATENT-4,301,740 ..... c 37 N82-21587 * #
US-PATENT-4,302,223 ..... c 25 N82-21269 * #
US-PATENT-4,302,734 ..... c 33 N82-16340 * #
US-PATENT-4,303,961 ..... c 28 N82-18401 * #
US-PATENT-4,304,219 ..... c 44 N82-18686 * #
US-PATENT-4,304,320 ..... c 37 N82-18601 * #
US-PATENT-4,305,205 ..... c 37 N82-26672 * #
US-PATENT-4,307,024 ..... c 25 N82-24312 * #
US-PATENT-4,307,510 ..... c 60 N82-24839 * #
US-PATENT-4,307,575 ..... c 44 N82-26776 * #
US-PATENT-4,307,856 ..... c 05 N82-26277 * #
US-PATENT-4,308,309 ..... c 27 N82-24339 * #
US-PATENT-4,308,868 ..... c 52 N82-29863 * #
US-PATENT-4,309,039 ..... c 37 N82-24490 * #
US-PATENT-4,309,146 ..... c 44 N82-24639 * #
US-PATENT-4,309,372 ..... c 25 N82-21268 * #
US-PATENT-4,310,049 ..... c 25 N82-23282 * #
US-PATENT-4,310,132 ..... c 24 N82-26384 * #
US-PATENT-4,310,574 ..... c 27 N82-28441 * #
US-PATENT-4,310,906 ..... c 33 N82-26572 * #
US-PATENT-4,311,055 ..... c 54 N82-26987 * #
US-PATENT-4,311,057 ..... c 37 N82-24493 * #
US-PATENT-4,311,378 ..... c 35 N82-26628 * #
US-PATENT-4,311,615 ..... c 25 N82-26396 * #
US-PATENT-4,311,870 ..... c 44 N82-26777 * #
US-PATENT-4,312,292 ..... c 37 N82-24492 * #
US-PATENT-4,313,077 ..... c 33 N82-26569 * #
US-PATENT-4,313,103 ..... c 33 N82-26570 * #
US-PATENT-4,313,291 ..... c 09 N82-29330 * #
US-PATENT-4,313,726 ..... c 09 N82-24212 * #
US-PATENT-4,313,745 ..... c 27 N82-28442 * #
US-PATENT-4,313,777 ..... c 33 N82-26571 * #
US-PATENT-4,314,984 ..... c 25 N82-28368 * #
US-PATENT-4,315,194 ..... c 33 N82-26568 * #
US-PATENT-4,315,197 ..... c 33 N82-24421 * #
US-PATENT-4,315,266 ..... c 32 N82-27558 * #
US-PATENT-4,316,035 ..... c 23 N82-28353 * #
US-PATENT-4,317,102 ..... c 35 N82-24470 * #
US-PATENT-4,319,133 ..... c 33 N82-28545 * #
US-PATENT-4,320,290 ..... c 74 N82-24072 * #
US-PATENT-4,320,397 ..... c 32 N82-23376 * #
US-PATENT-4,320,911 ..... c 37 N82-24494 * #
US-PATENT-4,321,099 ..... c 44 N82-28780 * #
US-PATENT-4,321,572 ..... c 33 N82-24422 * #
US-PATENT-4,325,001 ..... c 35 N82-24471 * #
US-PATENT-4,325,707 ..... c 25 N82-29371 * #
US-PATENT-4,326,381 ..... c 44 N82-24640 * #
US-PATENT-4,326,685 ..... c 04 N82-23231 * #
US-PATENT-4,327,150 ..... c 27 N82-24340 * #
US-PATENT-4,327,437 ..... c 60 N82-29013 * #
US-PATENT-4,327,581 ..... c 09 N82-23254 * #
US-PATENT-4,328,464 ..... c 36 N82-28616 * #
US-PATENT-4,329,114 ..... c 07 N82-32366 * #
US-PATENT-4,329,385 ..... c 27 N82-28440 * #
US-PATENT-4,330,100 ..... c 05 N82-28279 * #
US-PATENT-4,330,359 ..... c 76 N82-30105 * #
US-PATENT-4,330,572 ..... c 27 N82-33520 * #
US-PATENT-4,331,422 ..... c 52 N82-29862 * #
US-PATENT-4,331,742 ..... c 44 N82-29710 * #
US-PATENT-4,331,746 ..... c 44 N82-29708 * #
US-PATENT-4,331,873 ..... c 44 N82-32841 * #
US-PATENT-4,331,956 ..... c 33 N82-29538 * #
US-PATENT-4,332,441 ..... c 36 N82-29589 * #
US-PATENT-4,335,190 ..... c 27 N83-31855 * #
US-PATENT-4,335,196 ..... c 44 N83-13579 * #
US-PATENT-4,335,206 ..... c 35 N82-28604 * #
US-PATENT-4,335,503 ..... c 44 N82-29709 * #
US-PATENT-4,336,117 ..... c 26 N82-29415 * #
US-PATENT-4,336,276 ..... c 27 N82-29453 * #
US-PATENT-4,336,616 ..... c 33 N82-29539 * #
US-PATENT-4,338,061 ..... c 07 N83-31603 * #
US-PATENT-4,338,368 ..... c 27 N82-29456 * #
US-PATENT-4,338,371 ..... c 24 N82-29362 * #
US-PATENT-4,338,371 ..... c 54 N84-11758 * #
US-PATENT-4,338,516 ..... c 74 N82-30071 * #
US-PATENT-4,338,568 ..... c 33 N83-31954 * #
US-PATENT-4,340,318 ..... c 37 N82-32732 * #
US-PATENT-4,340,425 ..... c 26 N82-31505 * #
US-PATENT-4,341,012 ..... c 35 N82-31659 * #
US-PATENT-4,341,843 ..... c 26 N82-30371 * #
US-PATENT-4,341,918 ..... c 44 N82-31764 * #
US-PATENT-4,341,925 ..... c 32 N82-31583 * #
US-PATENT-4,343,287 ..... c 37 N82-32730 * #
US-PATENT-4,343,447 ..... c 08 N82-32373 * #
US-PATENT-4,343,506 ..... c 85 N82-32388 * #
US-PATENT-4,343,584 ..... c 37 N82-32731 * #
US-PATENT-4,343,772 ..... c 44 N83-10501 * #
US-PATENT-4,344,591 ..... c 24 N82-32417 * #
US-PATENT-4,344,787 ..... c 31 N83-31896 * #
US-PATENT-4,344,996 ..... c 27 N82-33521 * #
US-PATENT-4,345,153 ..... c 35 N82-32659 * #
US-PATENT-4,346,595 ..... c 06 N83-10040 * #
US-PATENT-4,346,595 ..... c 06 N84-34443 * #
US-PATENT-4,346,715 ..... c 52 N82-33996 * #
US-PATENT-4,346,754 ..... c 34 N83-34221 * #
US-PATENT-4,346,990 ..... c 36 N82-32712 * #
US-PATENT-4,347,613 ..... c 36 N83-10417 * #

US-PATENT-4,349,424 ..... c 24 N83-10117 * #
US-PATENT-4,349,424 ..... c 70 N84-28565 * #
US-PATENT-4,349,429 ..... c 25 N83-10126 * #
US-PATENT-4,349,954 ..... c 26 N83-10170 * #
US-PATENT-4,350,410 ..... c 74 N83-10900 * #
US-PATENT-4,350,574 ..... c 44 N83-10494 * #
US-PATENT-4,351,022 ..... c 33 N83-10345 * #
US-PATENT-4,355,311 ..... c 32 N83-31918 * #
US-PATENT-4,355,870 ..... c 74 N83-13978 * #
US-PATENT-4,355,896 ..... c 47 N83-32232 * #
US-PATENT-4,357,402 ..... c 25 N83-13188 * #
US-PATENT-4,358,358 ..... c 25 N83-13187 * #
US-PATENT-4,358,480 ..... c 24 N83-13172 * #
US-PATENT-4,358,486 ..... c 24 N83-13171 * #
US-PATENT-4,358,732 ..... c 33 N83-18996 * #
US-PATENT-4,358,846 ..... c 32 N83-13323 * #
US-PATENT-4,360,325 ..... c 44 N83-14693 * #
US-PATENT-4,360,701 ..... c 44 N83-14692 * #
US-PATENT-4,362,361 ..... c 74 N83-17305 * #
US-PATENT-4,362,769 ..... c 27 N83-34039 * #
US-PATENT-4,363,188 ..... c 51 N83-17045 * #
US-PATENT-4,363,237 ..... c 71 N83-17235 * #
US-PATENT-4,363,242 ..... c 33 N83-16626 * #
US-PATENT-4,366,680 ..... c 31 N83-31897 * #
US-PATENT-4,370,750 ..... c 34 N83-19015 * #
US-PATENT-4,371,301 ..... c 37 N83-19091 * #
US-PATENT-4,371,596 ..... c 44 N83-32176 * #
US-PATENT-4,371,873 ..... c 32 N83-19968 * #
US-PATENT-4,371,946 ..... c 32 N83-18975 * #
US-PATENT-4,372,110 ..... c 07 N83-33884 * #
US-PATENT-4,372,158 ..... c 44 N83-21503 * #
US-PATENT-4,372,159 ..... c 44 N83-21504 * #
US-PATENT-4,372,377 ..... c 74 N83-19596 * #
US-PATENT-4,372,680 ..... c 35 N83-21311 * #
US-PATENT-4,373,003 ..... c 27 N83-18908 * #
US-PATENT-4,373,039 ..... c 27 N83-19900 * #
US-PATENT-4,373,142 ..... c 44 N83-32175 * #
US-PATENT-4,373,989 ..... c 76 N83-20789 * #
US-PATENT-4,374,183 ..... c 26 N83-31795 * #
US-PATENT-4,374,378 ..... c 35 N83-34272 * #
US-PATENT-4,375,281 ..... c 05 N83-19737 * #
US-PATENT-4,375,396 ..... c 31 N83-19947 * #
US-PATENT-4,375,536 ..... c 27 N83-34040 * #
US-PATENT-4,375,674 ..... c 39 N83-20280 * #
US-PATENT-4,376,637 ..... c 35 N84-17555 * #
US-PATENT-4,376,872 ..... c 44 N83-32177 * #
US-PATENT-4,377,089 ..... c 35 N83-21312 * #
US-PATENT-4,377,169 ..... c 52 N83-21785 * #
US-PATENT-4,377,266 ..... c 07 N83-20944 * #
US-PATENT-4,377,343 ..... c 74 N83-21949 * #
US-PATENT-4,377,371 ..... c 18 N83-20996 * #
US-PATENT-4,377,371 ..... c 37 N84-22957 * #
US-PATENT-4,377,949 ..... c 45 N83-25217 * #
US-PATENT-4,378,209 ..... c 35 N83-24828 * #
US-PATENT-4,378,813 ..... c 52 N83-25346 * #
US-PATENT-4,379,970 ..... c 33 N83-24763 * #
US-PATENT-4,380,046 ..... c 60 N83-25378 * #
US-PATENT-4,381,174 ..... c 37 N83-26078 * #
US-PATENT-4,381,333 ..... c 44 N83-34448 * #
US-PATENT-4,381,375 ..... c 37 N83-34323 * #
US-PATENT-4,381,583 ..... c 31 N83-31895 * #
US-PATENT-4,381,881 ..... c 74 N83-29032 * #
US-PATENT-4,382,116 ..... c 44 N83-27344 * #
US-PATENT-4,382,224 ..... c 33 N83-27126 * #
US-PATENT-4,382,239 ..... c 32 N83-27085 * #
US-PATENT-4,383,171 ..... c 35 N83-27184 * #
US-PATENT-4,383,533 ..... c 52 N83-27578 * #
US-PATENT-4,383,785 ..... c 31 N83-27058 * #
US-PATENT-4,384,578 ..... c 52 N83-27577 * #
US-PATENT-4,384,823 ..... c 34 N83-27144 * #
US-PATENT-4,385,043 ..... c 24 N83-25789 * #
US-PATENT-4,385,113 ..... c 51 N83-27569 * #
US-PATENT-4,385,949 ..... c 31 N83-34073 * #
US-PATENT-4,386,157 ..... c 51 N83-28849 * #
US-PATENT-4,386,750 ..... c 18 N83-28064 * #
US-PATENT-4,387,513 ..... c 06 N83-33882 * #
US-PATENT-4,387,935 ..... c 37 N83-32067 * #
US-PATENT-4,388,171 ..... c 23 N84-16255 * #
US-PATENT-4,388,346 ..... c 33 N84-16456 * #
US-PATENT-4,388,502 ..... c 05 N83-27975 * #
US-PATENT-4,388,542 ..... c 44 N83-28573 * #
US-PATENT-4,388,585 ..... c 33 N83-28319 * #
US-PATENT-4,388,585 ..... c 33 N84-33660 * #
US-PATENT-4,388,965 ..... c 34 N83-28356 * #
US-PATENT-4,389,504 ..... c 27 N83-28240 * #
US-PATENT-4,389,504 ..... c 27 N85-21349 * #
US-PATENT-4,389,849 ..... c 44 N83-28574 * #
US-PATENT-4,389,904 ..... c 35 N83-29650 * #
US-PATENT-4,391,129 ..... c 34 N83-31993 * #
US-PATENT-4,391,423 ..... c 18 N83-29303 * #
US-PATENT-4,391,514 ..... c 36 N83-34304 * #
US-PATENT-4,391,518 ..... c 36 N83-29680 * #
US-PATENT-4,391,609 ..... c 25 N83-31743 * #
US-PATENT-4,392,356 ..... c 34 N83-29625 * #
US-PATENT-4,392,749 ..... c 35 N83-29651 * #
US-PATENT-4,392,874 ..... c 35 N83-29652 * #
US-PATENT-4,392,920 ..... c 27 N83-29388 * #
US-PATENT-4,393,039 ..... c 25 N83-29324 * #
US-PATENT-4,393,706 ..... c 71 N83-32516 * #
US-PATENT-4,393,708 ..... c 71 N83-32515 * #
US-PATENT-4,393,716 ..... c 39 N83-32081 * #
US-PATENT-4,393,777 ..... c 37 N84-12491 * #
US-PATENT-4,394,610 ..... c 33 N83-31953 * #
US-PATENT-4,394,726 ..... c 60 N83-32342 * #
US-PATENT-4,394,819 ..... c 35 N83-32026 * #
US-PATENT-4,395,123 ..... c 74 N83-32577 * #
US-PATENT-4,395,503 ..... c 27 N83-34043 * #
US-PATENT-4,395,511 ..... c 27 N84-14324 * #
US-PATENT-4,395,540 ..... c 27 N84-22746 * #
US-PATENT-4,395,540 ..... c 27 N85-20123 * #
US-PATENT-4,395,557 ..... c 27 N83-31854 * #
US-PATENT-4,395,557 ..... c 27 N84-22745 * #
US-PATENT-4,395,557 ..... c 27 N85-21347 * #
US-PATENT-4,395,656 ..... c 33 N83-31952 * #
US-PATENT-4,396,918 ..... c 04 N84-27713 * #
US-PATENT-4,397,716 ..... c 44 N83-34449 * #
US-PATENT-4,398,021 ..... c 27 N83-34041 * #
US-PATENT-4,398,021 ..... c 27 N85-20124 * #
US-PATENT-4,398,129 ..... c 33 N83-34189 * #
US-PATENT-4,398,412 ..... c 35 N84-28018 * #
US-PATENT-4,398,667 ..... c 71 N84-14873 * #
US-PATENT-4,398,925 ..... c 71 N83-35781 * #
US-PATENT-4,399,415 ..... c 36 N83-35350 * #
US-PATENT-4,399,515 ..... c 35 N84-14491 * #
US-PATENT-4,400,191 ..... c 31 N83-35176 * #
US-PATENT-4,400,642 ..... c 76 N83-34796 * #
US-PATENT-4,400,657 ..... c 33 N83-34190 * #
US-PATENT-4,401,505 ..... c 76 N83-35888 * #
US-PATENT-4,401,934 ..... c 33 N83-35227 * #
US-PATENT-4,401,953 ..... c 33 N83-34191 * #
US-PATENT-4,402,221 ..... c 71 N83-36846 * #
US-PATENT-4,402,358 ..... c 34 N83-35307 * #
US-PATENT-4,402,447 ..... c 35 N83-35338 * #
US-PATENT-4,402,992 ..... c 31 N83-35177 * #
US-PATENT-4,404,469 ..... c 74 N84-11920 * #
US-PATENT-4,404,793 ..... c 07 N83-36029 * #
US-PATENT-4,405,184 ..... c 37 N84-12492 * #
US-PATENT-4,405,197 ..... c 74 N84-11921 * #
US-PATENT-4,406,256 ..... c 37 N83-36483 * #
US-PATENT-4,406,797 ..... c 25 N83-36118 * #
US-PATENT-4,406,989 ..... c 33 N83-36356 * #
US-PATENT-4,407,001 ..... c 33 N83-36355 * #
US-PATENT-4,407,165 ..... c 37 N83-36482 * #
US-PATENT-4,407,468 ..... c 01 N83-35992 * #
US-PATENT-4,407,563 ..... c 74 N83-36898 * #
US-PATENT-4,407,589 ..... c 33 N83-36357 * #
US-PATENT-4,407,686 ..... c 35 N84-12443 * #
US-PATENT-4,408,597 ..... c 52 N84-11744 * #
US-PATENT-4,408,658 ..... c 27 N83-36220 * #
US-PATENT-4,410,189 ..... c 37 N84-11497 * #
US-PATENT-4,410,682 ..... c 24 N84-11213 * #
US-PATENT-4,411,380 ..... c 24 N84-11214 * #
US-PATENT-4,411,597 ..... c 07 N84-22560 * #
US-PATENT-4,411,660 ..... c 54 N84-11758 * #
US-PATENT-4,412,664 ..... c 02 N84-11136 * #
US-PATENT-4,413,522 ..... c 35 N84-12445 * #
US-PATENT-4,413,784 ..... c 34 N84-12406 * #
US-PATENT-4,414,080 ..... c 25 N84-12262 * #
US-PATENT-4,414,509 ..... c 35 N84-12444 * #
US-PATENT-4,414,816 ..... c 07 N84-24577 * #
US-PATENT-4,415,133 ..... c 05 N84-12154 * #
US-PATENT-4,415,311 ..... c 37 N84-12493 * #
US-PATENT-4,415,450 ..... c 45 N83-12654 * #
US-PATENT-4,416,111 ..... c 07 N84-33410 * #
US-PATENT-4,416,266 ..... c 52 N84-28388 * #
US-PATENT-4,417,175 ..... c 70 N84-28565 * #
US-PATENT-4,417,190 ..... c 33 N84-14424 * #
US-PATENT-4,417,215 ..... c 33 N84-14421 * #
US-PATENT-4,418,130 ..... c 33 N84-14422 * #
US-PATENT-4,418,480 ..... c 04 N84-14132 * #
US-PATENT-4,418,722 ..... c 44 N84-14583 * #
US-PATENT-4,420,035 ..... c 34 N84-14461 * #
US-PATENT-4,420,352 ..... c 27 N84-22748 * #
US-PATENT-4,420,518 ..... c 27 N84-14323 * #
US-PATENT-4,420,836 ..... c 36 N84-14509 * #
US-PATENT-4,420,977 ..... c 71 N84-23233 * #
US-PATENT-4,421,109 ..... c 54 N84-16803 * #
US-PATENT-4,421,371 ..... c 33 N84-14423 * #
US-PATENT-4,421,700 ..... c 24 N84-16262 * #
US-PATENT-4,421,820 ..... c 27 N84-14322 * #
US-PATENT-4,422,012 ..... c 33 N84-16452 * #
US-PATENT-4,422,609 ..... c 37 N84-16560 * #
US-PATENT-4,423,605 ..... c 34 N84-22903 * #
US-PATENT-4,424,592 ..... c 36 N84-16542 * #
US-PATENT-4,425,376 ..... c 71 N84-16940 * #
US-PATENT-4,425,543 ..... c 33 N84-16454 * #
US-PATENT-4,425,785 ..... c 15 N84-16231 * #
US-PATENT-4,425,808 ..... c 35 N84-28015 * #
US-PATENT-4,425,808 ..... c 35 N85-21598 * #
US-PATENT-4,425,854 ..... c 25 N84-16276 * #
US-PATENT-4,426,614 ..... c 33 N84-16455 * #
US-PATENT-4,426,678 ..... c 33 N84-16453 * #
US-PATENT-4,426,874 ..... c 35 N84-28019 * #
US-PATENT-4,428,122 ..... c 35 N84-16523 * #
US-PATENT-4,428,226 ..... c 07 N84-22559 * #
US-PATENT-4,428,675 ..... c 35 N84-22929 * #
US-PATENT-4,428,703 ..... c 37 N84-16561 * #
US-PATENT-4,429,537 ..... c 37 N84-22958 * #
US-PATENT-4,430,360 ..... c 37 N84-22957 * #
US-PATENT-4,430,673 ..... c 74 N84-23247 * #
US-PATENT-4,431,306 ..... c 35 N84-22931 * #
US-PATENT-4,431,333 ..... c 18 N84-22605 * #
US-PATENT-4,431,761 ..... c 27 N84-22747 * #
US-PATENT-4,431,792 ..... c 27 N84-22746 * #
US-PATENT-4,432,853 ..... c 52 N84-23095 * #
US-PATENT-4,433,115 ..... c 27 N84-22745 * #
US-PATENT-4,433,276 ..... c 33 N84-22885 * #
US-PATENT-4,433,439 ..... c 54 N84-23113 * #
US-PATENT-4,433,544 ..... c 44 N84-23018 * #
US-PATENT-4,433,672 ..... c 44 N84-28203 * #
US-PATENT-4,434,106 ..... c 27 N84-22744 * #
US-PATENT-4,434,189 ..... c 36 N84-22944 * #
US-PATENT-4,434,490 ..... c 36 N84-22943 * #
US-PATENT-4,434,659 ..... c 35 N84-22928 * #
US-PATENT-4,435,642 ..... c 35 N84-28016 * #
US-PATENT-4,435,781 ..... c 60 N84-28491 * #
US-PATENT-4,437,069 ..... c 33 N84-22887 * #
US-PATENT-4,437,923 ..... c 35 N84-22930 * #
US-PATENT-4,437,961 ..... c 33 N84-22884 * #
US-PATENT-4,437,962 ..... c 24 N84-22695 * #
US-PATENT-4,437,962 ..... c 24 N85-21267 * #
US-PATENT-4,439,301 ..... c 44 N84-23019 * #
US-PATENT-4,439,465 ..... c 26 N84-22734 * #
US-PATENT-4,439,718 ..... c 33 N84-22886 * #
US-PATENT-4,439,766 ..... c 32 N84-22820 * #
US-PATENT-4,439,968 ..... c 16 N84-22601 * #
US-PATENT-4,442,716 ..... c 35 N84-22934 * #
US-PATENT-4,443,321 ..... c 25 N84-22709 * #
US-PATENT-4,443,701 ..... c 74 N84-28590 * #
US-PATENT-4,443,724 ..... c 35 N84-28017 * #
US-PATENT-4,444,368 ..... c 05 N84-22551 * #
US-PATENT-4,444,464 ..... c 74 N84-23248 * #
US-PATENT-4,444,972 ..... c 27 N84-22750 * #
US-PATENT-4,444,979 ..... c 27 N84-22749 * #
US-PATENT-4,445,118 ..... c 04 N84-22546 * #
US-PATENT-4,445,378 ..... c 35 N84-22933 * #
US-PATENT-4,446,199 ..... c 26 N84-33555 * #
US-PATENT-4,446,396 ..... c 35 N84-22932 * #
US-PATENT-4,446,459 ..... c 60 N84-28492 * #
US-PATENT-4,446,556 ..... c 36 N84-28065 * #
US-PATENT-4,446,757 ..... c 37 N84-28084 * #
US-PATENT-4,447,251 ..... c 71 N84-28568 * #
US-PATENT-4,447,943 ..... c 52 N84-28389 * #
US-PATENT-4,448,408 ..... c 37 N84-28083 * #
US-PATENT-4,449,370 ..... c 37 N84-33808 * #
US-PATENT-4,449,400 ..... c 47 N84-28292 * #
US-PATENT-4,449,514 ..... c 44 N84-28204 * #
US-PATENT-4,449,894 ..... c 37 N84-28081 * #
US-PATENT-4,450,268 ..... c 27 N84-27884 * #
US-PATENT-4,450,447 ..... c 32 N84-27951 * #
US-PATENT-4,451,017 ..... c 18 N84-27787 * #
US-PATENT-4,451,496 ..... c 26 N84-27855 * #
US-PATENT-4,452,088 ..... c 24 N84-27829 * #
US-PATENT-4,452,412 ..... c 16 N84-27784 * #
US-PATENT-4,453,163 ..... c 06 N84-27733 * #
US-PATENT-4,454,611 ..... c 54 N84-28484 * #
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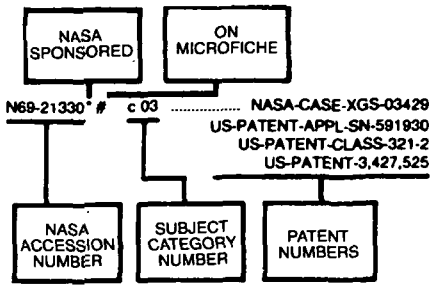

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US-PATENT-3,170,773

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US-PATENT-3,016,863

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US-PATENT-3,008,229

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US-PATENT-3,005,081

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US-PATENT-2,991,961

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US-PATENT-APPL-SN-180370
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US-PATENT-3,173,251

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US-PATENT-APPL-SN-551961
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N70-33382* c 15 ..... NASA-CASE-XLE-00010
US-PATENT-APPL-SN-554899
US-PATENT-CLASS-266-19
US-PATENT-2,934,331

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US-PATENT-3,202,998

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US-PATENT-CLASS-73-15
US-PATENT-3,204,447

N70-34157*# c 03 ..... NASA-CASE-XMF-00517
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US-PATENT-CLASS-244-1
US-PATENT-3,204,889

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US-PATENT-CLASS-250-203
US-PATENT-3,205,361

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US-PATENT-3,208,707

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US-PATENT-APPL-SN-353637
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US-PATENT-3,208,694

N70-34161*# c 14 ..... NASA-CASE-XLA-00203
US-PATENT-APPL-SN-227682
US-PATENT-CLASS-73-105
US-PATENT-3,208,272

N70-34162*# c 28 ..... NASA-CASE-XMF-01544
US-PATENT-APPL-SN-394638
US-PATENT-CLASS-60-35.55
US-PATENT-3,208,215

N70-34175*# c 28 ..... NASA-CASE-XLE-01783
US-PATENT-APPL-SN-313132
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US-PATENT-3,210,927

N70-34176*# c 31 ..... NASA-CASE-XMF-00389
US-PATENT-APPL-SN-151114
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US-PATENT-3,202,381

N70-34178*# c 02 ..... NASA-CASE-XLA-00166
US-PATENT-APPL-SN-84961
US-PATENT-CLASS-244-46
US-PATENT-3,087,692

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US-PATENT-3,068,658

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US-PATENT-APPL-SN-166969
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US-PATENT-3,188,844

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US-PATENT-3,132,476

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US-PATENT-3,189,299

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US-PATENT-CLASS-244-1
US-PATENT-3,169,725

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US-PATENT-3,188,472

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US-PATENT-3,185,023

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US-PATENT-CLASS-317-140
US-PATENT-3,189,794

N70-34539*# c 21 ..... NASA-CASE-XMF-00185
US-PATENT-APPL-SN-97112
US-PATENT-CLASS-244-76
US-PATENT-3,070,330

N70-34540*# c 33 ..... NASA-CASE-XLA-00330
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US-PATENT-3,201,560

N70-34545*# c 33 ..... NASA-CASE-XLE-00490
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US-PATENT-CLASS-219-347
US-PATENT-3,189,726

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US-PATENT-3,189,864

N70-34646*# c 03 ..... NASA-CASE-NPO-11138
US-PATENT-APPL-SN-9251

N70-34661*# c 25 ..... NASA-CASE-XLA-00147
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US-PATENT-3,201,635

N70-34664*# c 15 ..... NASA-CASE-XMF-00515
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US-PATENT-CLASS-308-9
US-PATENT-3,199,931

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US-PATENT-3,200,706

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US-PATENT-CLASS-180-121
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US-PATENT-CLASS-140-123
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US-PATENT-3,258,687

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US-PATENT-3,237,253

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US-PATENT-3,270,756

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US-PATENT-3,257,780

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US-PATENT-APPL-SN-307270
US-PATENT-CLASS-318-376
US-PATENT-3,271,649

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US-PATENT-CLASS-244-138
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US-PATENT-3,273,388

N71-16087* c 02 ..... NASA-CASE-XAC-02058
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US-PATENT-CLASS-244-1
US-PATENT-3,276,722

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US-PATENT-3,521,290

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US-PATENT-3,508,578

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US-PATENT-3,508,402

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US-PATENT-3,443,584

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US-PATENT-APPL-SN-777766
US-PATENT-CLASS-73-432
US-PATENT-3,526,139

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US-PATENT-CLASS-244-1
US-PATENT-3,508,723

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US-PATENT-APPL-SN-806149
US-PATENT-CLASS-73-432
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N71-16224* c 28 ..... NASA-CASE-MFS-11497
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US-PATENT-3,526,365

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US-PATENT-3,502,141

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US-PATENT-3,517,162

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US-PATENT-3,507,150

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US-PATENT-3,501,641

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US-PATENT-APPL-SN-730702
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US-PATENT-CLASS-343-100
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US-PATENT-CLASS-165-107
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US-PATENT-CLASS-310-4
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US-PATENT-CLASS-333-83
US-PATENT-3,541,479

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US-PATENT-CLASS-343-797
US-PATENT-3,546,705

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US-PATENT-CLASS-350-189
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N71-24858* c 33 ..... NASA-CASE-MFS-14253
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US-PATENT-3,551,266

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US-PATENT-3,523,228

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US-PATENT-CLASS-307-235
US-PATENT-3,543,050

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US-PATENT-3,406,336

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US-PATENT-3,546,471

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N71-24868* c 23 ..... NASA-CASE-ERC-10001
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US-PATENT-CLASS-350-310
US-PATENT-3,540,802

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US-PATENT-3,540,942

N71-24876* c 33 ..... NASA-CASE-XNP-05524
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US-PATENT-3,270,802

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US-PATENT-3,535,497

N71-24891* c 08 ..... NASA-CASE-XNP-09759
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US-PATENT-CLASS-235-92
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US-PATENT-CLASS-317-123
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US-PATENT-3,549,955

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US-PATENT-CLASS-318-265
US-PATENT-3,546,552

N71-24896* c 15 ..... NASA-CASE-ERC-10034
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US-PATENT-3,549,882

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US-PATENT-APPL-SN-749149
US-PATENT-CLASS-294-83
US-PATENT-3,508,779

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US-PATENT-CLASS-285-317
US-PATENT-CLASS-285-38
US-PATENT-CLASS-285-406
US-PATENT-3,545,792

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US-PATENT-CLASS-310-10
US-PATENT-3,541,361

N71-24910* c 15 ..... NASA-CASE-ERC-10045
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US-PATENT-3,548,636

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US-PATENT-CLASS-118-308
US-PATENT-3,472,202

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US-PATENT-CLASS-73-38
US-PATENT-3,548,633

N71-24948* c 21 ..... NASA-CASE-ERC-10090
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US-PATENT-3,550,129

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US-PATENT-CLASS-52-404
US-PATENT-CLASS-62-45
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US-PATENT-CLASS-219-378
US-PATENT-CLASS-219-530
US-PATENT-CLASS-244-1
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US-PATENT-CLASS-235-201

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US-PATENT-CLASS-235-92DM
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US-PATENT-CLASS-330-30D
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US-PATENT-CLASS-356-152
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N72-21408* # c 14 ..... NASA-CASE-MSC-13332-1
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US-PATENT-CLASS-356-18
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N72-22127* # c 07 ..... NASA-CASE-NPO-10303
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US-PATENT-CLASS-321-19
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US-PATENT-CLASS-323-56
US-PATENT-CLASS-323-89C
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US-PATENT-CLASS-128-2R
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US-PATENT-CLASS-324-65R
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US-PATENT-CLASS-313-212
US-PATENT-CLASS-313-224
US-PATENT-CLASS-313-231
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US-PATENT-CLASS-324-29.5
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N72-25148* # c 06 ..... NASA-CASE-MFS-13994-2
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N72-25149* # c 06 ..... NASA-CASE-GSC-10565-1
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US-PATENT-CLASS-195-28N
US-PATENT-CLASS-260-211.5
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US-PATENT-CLASS-260-92.1
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US-PATENT-CLASS-260-46.5E
US-PATENT-CLASS-260-46.5G
US-PATENT-CLASS-260-46.5P
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US-PATENT-CLASS-325-4
US-PATENT-CLASS-343-6.5R
US-PATENT-3,667,044
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US-PATENT-CLASS-325-325
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US-PATENT-CLASS-325-51
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US-PATENT-CLASS-340-347DA
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US-PATENT-CLASS-310-15
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US-PATENT-CLASS-324-186
US-PATENT-CLASS-324-78D
US-PATENT-CLASS-328-136
US-PATENT-CLASS-328-140
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US-PATENT-CLASS-73-161
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US-PATENT-CLASS-73-422GC
US-PATENT-CLASS-73-422TC
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US-PATENT-CLASS-250-83.3UV
US-PATENT-CLASS-350-203
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US-PATENT-CLASS-73-521
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US-PATENT-CLASS-73-12
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N72-25414* # c 14 ..... NASA-CASE-NPO-11311
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US-PATENT-CLASS-117-211
US-PATENT-CLASS-117-217
US-PATENT-CLASS-117-62
US-PATENT-CLASS-117-93.16D
US-PATENT-CLASS-29-599
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US-PATENT-CLASS-75-213
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US-PATENT-CLASS-285-3
US-PATENT-CLASS-285-316
US-PATENT-CLASS-285-33
US-PATENT-CLASS-339-45M
US-PATENT-CLASS-339-91B
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US-PATENT-CLASS-117-152
US-PATENT-CLASS-117-16R
US-PATENT-CLASS-117-37
US-PATENT-CLASS-117-47R
US-PATENT-CLASS-117-62
US-PATENT-CLASS-117-93.3
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US-PATENT-CLASS-204-49
US-PATENT-CLASS-250-65F
US-PATENT-CLASS-96-36.2
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US-PATENT-CLASS-52-173
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US-PATENT-CLASS-310-80
US-PATENT-CLASS-310-83
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US-PATENT-CLASS-324-158T
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US-PATENT-CLASS-75-226
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US-PATENT-CLASS-161-7
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US-PATENT-CLASS-161-7
US-PATENT-CLASS-52-DIG.10
US-PATENT-CLASS-52-80
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US-PATENT-CLASS-244-23A
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US-PATENT-CLASS-62-6
US-PATENT-CLASS-62-80
US-PATENT-CLASS-62-85
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US-PATENT-CLASS-317-235A
US-PATENT-CLASS-317-235AJ
US-PATENT-CLASS-317-235R
US-PATENT-CLASS-331-107G
US-PATENT-3,667,010
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US-PATENT-CLASS-324-96
US-PATENT-CLASS-340-324R
US-PATENT-CLASS-350-150
US-PATENT-CLASS-350-160R
US-PATENT-3,667,039
N72-25699* # c 27 ..... NASA-CASE-NPO-12000
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US-PATENT-CLASS-149-20
US-PATENT-CLASS-149-36
US-PATENT-CLASS-149-92
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US-PATENT-CLASS-95-12.5
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N72-25877* # c 32 ..... NASA-CASE-LAR-10270-1
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US-PATENT-CLASS-60-200A
US-PATENT-CLASS-60-265
US-PATENT-CLASS-60-267
US-PATENT-CLASS-62-467
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N72-25913* # c 33 ..... NASA-CASE-XMS-09690
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US-PATENT-CLASS-136-202
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N72-26371* # c 15 ..... NASA-CASE-NPO-10244
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US-PATENT-CLASS-73-136R
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US-PATENT-CLASS-210-104
US-PATENT-CLASS-210-110
US-PATENT-CLASS-210-137
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US-PATENT-CLASS-128-2.1E
US-PATENT-CLASS-128-417
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US-PATENT-APPL-SN-99524
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US-PATENT-CLASS-260-77.5AP
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US-PATENT-CLASS-336-60
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N72-27227* # c 09 ..... NASA-CASE-KSC-10644
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US-PATENT-CLASS-307-92
US-PATENT-CLASS-340-240
US-PATENT-3,673,424
N72-27228* # c 09 ..... NASA-CASE-NPO-10542
US-PATENT-APPL-SN-767741
US-PATENT-CLASS-310-4
US-PATENT-3,673,440
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US-PATENT-APPL-SN-97343
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US-PATENT-CLASS-313-336
US-PATENT-CLASS-313-351
US-PATENT-CLASS-315-36
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N72-27262* # c 11 ..... NASA-CASE-MFS-20620
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US-PATENT-CLASS-73-117.1
US-PATENT-CLASS-73-432SD
US-PATENT-3,670,564
N72-27408* # c 14 ..... NASA-CASE-NPO-11147
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US-PATENT-CLASS-328-189
US-PATENT-CLASS-331-44
US-PATENT-3,670,241
N72-27409* # c 14 ..... NASA-CASE-NPO-11201
US-PATENT-APPL-SN-77220
US-PATENT-CLASS-250-203R
US-PATENT-CLASS-250-225
US-PATENT-CLASS-350-147
US-PATENT-CLASS-356-141
US-PATENT-CLASS-356-152
US-PATENT-3,670,168
N72-27410* # c 14 ..... NASA-CASE-XLE-05230
US-PATENT-APPL-SN-877717
US-PATENT-CLASS-136-233
US-PATENT-3,671,329
N72-27411* # c 14 ..... NASA-CASE-MSC-12293-1
US-PATENT-APPL-SN-59956
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US-PATENT-CLASS-315-151
US-PATENT-CLASS-315-156
US-PATENT-CLASS-315-158
US-PATENT-CLASS-315-297
US-PATENT-CLASS-315-307
US-PATENT-CLASS-315-310
US-PATENT-CLASS-315-311
US-PATENT-3,670,202
N72-27412* # c 14 ..... NASA-CASE-MFS-20523
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US-PATENT-CLASS-73-71.6
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N72-27484* # c 15 ..... NASA-CASE-NPO-10721
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US-PATENT-CLASS-248-188.4
US-PATENT-3,669,393
N72-27485* # c 15 ..... NASA-CASE-XLA-09843
US-PATENT-APPL-SN-60876
US-PATENT-CLASS-83-522
US-PATENT-CLASS-83-562
US-PATENT-CLASS-83-563
US-PATENT-CLASS-83-588
US-PATENT-CLASS-83-8
US-PATENT-3,668,956
N72-27728* # c 23 ..... NASA-CASE-ARC-10160-1
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US-PATENT-CLASS-178-6.5
US-PATENT-CLASS-350-138
US-PATENT-3,670,097
N72-27784* # c 26 ..... NASA-CASE-LAR-10836-1
US-PATENT-APPL-SN-138227
US-PATENT-CLASS-350-161
US-PATENT-3,671,105
N72-27959* # c 33 ..... NASA-CASE-LAR-10800-1
US-PATENT-APPL-SN-154094
US-PATENT-CLASS-73-35
US-PATENT-3,670,559
N72-28025* # c 03 ..... NASA-CASE-NPO-10633
US-PATENT-APPL-SN-885521
US-PATENT-CLASS-165-20
US-PATENT-CLASS-165-3
US-PATENT-CLASS-62-93
US-PATENT-3,675,712
N72-28225* # c 09 ..... NASA-CASE-MFS-20757
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US-PATENT-CLASS-339-218M
US-PATENT-CLASS-339-75MP
US-PATENT-CLASS-339-94M
US-PATENT-3,670,290
N72-28240* # c 10 ..... NASA-CASE-ARC-10265-1
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US-PATENT-CLASS-324-41
US-PATENT-CLASS-340-258
US-PATENT-3,676,772
N72-28241* # c 10 ..... NASA-CASE-GSC-10786-1
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US-PATENT-CLASS-330-29
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US-PATENT-APPL-SN-10827
US-PATENT-CLASS-33-1SA
US-PATENT-CLASS-33-75R
US-PATENT-3,675,332
N72-28437* # c 14 ..... NASA-CASE-ERC-10081
US-PATENT-APPL-SN-877990
US-PATENT-CLASS-325-363
US-PATENT-CLASS-343-100ME
US-PATENT-CLASS-343-112D
US-PATENT-CLASS-73-355
US-PATENT-3,665,467
N72-28438* # c 14 ..... NASA-CASE-XLA-04980-2
US-PATENT-APPL-SN-577548
US-PATENT-APPL-SN-763040
US-PATENT-CLASS-148-187
US-PATENT-3,549,435
N72-28495* # c 15 ..... NASA-CASE-MFS-14405
US-PATENT-APPL-SN-73283
US-PATENT-CLASS-214-1CM
US-PATENT-CLASS-74-469
US-PATENT-3,631,737
N72-28496* # c 15 ..... NASA-CASE-MFS-20433
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US-PATENT-CLASS-52-1
US-PATENT-CLASS-52-573
US-PATENT-3,675,376
N72-28521* # c 16 ..... NASA-CASE-NPO-11437
US-PATENT-APPL-SN-63144
US-PATENT-CLASS-330-4
US-PATENT-CLASS-331-94
US-PATENT-3,676,787
N72-28535* # c 17 ..... NASA-CASE-XLE-06461-2
US-PATENT-APPL-SN-156778
US-PATENT-APPL-SN-853855
US-PATENT-CLASS-266-24
US-PATENT-3,675,910
N72-28536* # c 17 ..... NASA-CASE-XLE-03940-2
US-PATENT-APPL-SN-539255
US-PATENT-APPL-SN-793657
US-PATENT-CLASS-29-182.5
US-PATENT-3,676,084
N72-28761* # c 26 ..... NASA-CASE-NPO-11775

US-PATENT-APPL-SN-162230
US-PATENT-CLASS-29-570
US-PATENT-CLASS-317-230
US-PATENT-CLASS-317-261
US-PATENT-3,676,754

N72-28762* # c 26 ..... NASA-CASE-LAR-10294-1
US-PATENT-APPL-SN-796685
US-PATENT-CLASS-106-39
US-PATENT-CLASS-106-46
US-PATENT-CLASS-117-212
US-PATENT-CLASS-117-217
US-PATENT-CLASS-29-25.42
US-PATENT-3,649,353

N72-29172* # c 09 ..... NASA-CASE-LAR-10511-1
US-PATENT-APPL-SN-41345
US-PATENT-CLASS-333-24R
US-PATENT-CLASS-333-98P
US-PATENT-CLASS-333-98R
US-PATENT-3,676,809

N72-29464* # c 14 ..... NASA-CASE-ARC-10017-1
US-PATENT-APPL-SN-55536
US-PATENT-CLASS-250-41.9D
US-PATENT-CLASS-250-71.5R
US-PATENT-CLASS-313-356
US-PATENT-3,676,674

N72-29488* # c 15 ..... NASA-CASE-XLE-10326-2
US-PATENT-APPL-SN-54540
US-PATENT-APPL-SN-723465
US-PATENT-CLASS-277-25
US-PATENT-CLASS-277-27
US-PATENT-CLASS-277-74
US-PATENT-3,675,935

N72-31140* # c 06 ..... NASA-CASE-MSC-13335-1
US-PATENT-APPL-SN-55806
US-PATENT-CLASS-55-16
US-PATENT-CLASS-55-55
US-PATENT-3,678,654

N72-31141* # c 06 ..... NASA-CASE-ARC-10308-1
US-PATENT-APPL-SN-134568
US-PATENT-CLASS-250-43.5R
US-PATENT-CLASS-356-51
US-PATENT-3,679,899

N72-31226* # c 08 ..... NASA-CASE-NPO-11016
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US-PATENT-CLASS-235-150.1
US-PATENT-CLASS-235-151.1
US-PATENT-CLASS-235-92MT
US-PATENT-CLASS-323-19
US-PATENT-CLASS-340-347AD
US-PATENT-3,681,581

N72-31235* # c 09 ..... NASA-CASE-ERC-10214
US-PATENT-APPL-SN-863914
US-PATENT-CLASS-343-770
US-PATENT-CLASS-343-771
US-PATENT-CLASS-343-786
US-PATENT-CLASS-343-797
US-PATENT-CLASS-343-853
US-PATENT-3,680,142

N72-31273* # c 10 ..... NASA-CASE-KSC-10647-1
US-PATENT-APPL-SN-774691
US-PATENT-CLASS-178-7.5E
US-PATENT-CLASS-315-22R
US-PATENT-CLASS-315-30R
US-PATENT-CLASS-330-27R
US-PATENT-3,678,191

N72-31446* # c 14 ..... NASA-CASE-ERC-10087-2
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US-PATENT-APPL-SN-91642
US-PATENT-CLASS-29-588
US-PATENT-CLASS-317-234D
US-PATENT-CLASS-317-234G
US-PATENT-CLASS-317-235M
US-PATENT-CLASS-317-235R
US-PATENT-3,686,542

N72-31483* # c 15 ..... NASA-CASE-LAR-10061-1
US-PATENT-APPL-SN-104047
US-PATENT-CLASS-251-331
US-PATENT-CLASS-251-86
US-PATENT-3,680,830

N72-31637* # c 21 ..... NASA-CASE-GSC-10945-1
US-PATENT-APPL-SN-75431
US-PATENT-CLASS-60-23
US-PATENT-CLASS-60-26
US-PATENT-3,678,685

N72-32169* # c 07 ..... NASA-CASE-NPO-11361
US-PATENT-APPL-SN-112988
US-PATENT-CLASS-343-781
US-PATENT-CLASS-343-837
US-PATENT-CLASS-343-840
US-PATENT-CLASS-343-915
US-PATENT-3,680,144

N72-32452* # c 14 ..... NASA-CASE-MFS-15162
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US-PATENT-CLASS-350-79
US-PATENT-CLASS-356-241
US-PATENT-3,694,094

N72-32487* # c 15 ..... NASA-CASE-LAR-10541-1
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US-PATENT-CLASS-118-49.1
US-PATENT-CLASS-204-298
US-PATENT-CLASS-219-121P
US-PATENT-CLASS-219-273
US-PATENT-3,690,291

N72-32688* # c 25 ..... NASA-CASE-MFS-20589
US-PATENT-APPL-SN-103077
US-PATENT-CLASS-313-231
US-PATENT-CLASS-315-111
US-PATENT-3,693,002

N72-33072* # c 04 ..... NASA-CASE-ERC-10338
US-PATENT-APPL-SN-50339
US-PATENT-CLASS-23-109
US-PATENT-3,679,360

N72-33096* # c 05 ..... NASA-CASE-MSC-13540-1
US-PATENT-APPL-SN-68023
US-PATENT-CLASS-99-80PS
US-PATENT-3,692,533

N72-33146* # c 07 ..... NASA-CASE-MSC-12259-2
US-PATENT-APPL-SN-61895
US-PATENT-APPL-SN-853763
US-PATENT-CLASS-325-373
US-PATENT-3,694,753

N72-33172* # c 08 ..... NASA-CASE-NPO-11630
US-PATENT-APPL-SN-143078
US-PATENT-CLASS-179-15.55R
US-PATENT-3,694,581

N72-33204* # c 09 ..... NASA-CASE-NPO-11129
US-PATENT-APPL-SN-883523
US-PATENT-CLASS-307-262
US-PATENT-CLASS-307-295
US-PATENT-CLASS-328-155
US-PATENT-CLASS-328-24
US-PATENT-3,621,406

N72-33205* # c 09 ..... NASA-CASE-GSC-10835-1
US-PATENT-APPL-SN-116778
US-PATENT-CLASS-317-101A
US-PATENT-CLASS-317-235
US-PATENT-CLASS-317-235A
US-PATENT-CLASS-317-235AJ
US-PATENT-3,694,700

N72-33230* # c 10 ..... NASA-CASE-GSC-11340-1
US-PATENT-APPL-SN-107379
US-PATENT-CLASS-330-12
US-PATENT-CLASS-331-115
US-PATENT-CLASS-331-116R
US-PATENT-CLASS-333-80T
US-PATENT-3,693,105

N72-33377* # c 14 ..... NASA-CASE-MFS-20760
US-PATENT-APPL-SN-99174
US-PATENT-CLASS-73-141AB
US-PATENT-CLASS-73-85
US-PATENT-3,693,418

N72-33476* # c 15 ..... NASA-CASE-XGS-07805
US-PATENT-APPL-SN-104884
US-PATENT-CLASS-308-10
US-PATENT-3,694,041

N72-33477* # c 15 ..... NASA-CASE-NPO-11340
US-PATENT-APPL-SN-147997
US-PATENT-CLASS-137-13
US-PATENT-CLASS-137-81.5
US-PATENT-CLASS-60-1
US-PATENT-CLASS-60-36
US-PATENT-3,693,346

N72-33681* # c 24 ..... NASA-CASE-LEW-10518-1
US-PATENT-APPL-SN-863280
US-PATENT-CLASS-176-11
US-PATENT-3,694,313

N72-33696* # c 25 ..... NASA-CASE-GSC-11291-1
US-PATENT-APPL-SN-102412
US-PATENT-CLASS-250-83.6R
US-PATENT-3,694,655

N73-12175* # c 08 ..... NASA-CASE-NPO-11406
US-PATENT-APPL-SN-95183
US-PATENT-CLASS-235-152
US-PATENT-CLASS-331-78
US-PATENT-CLASS-340-146.1AL
US-PATENT-3,700,869

N73-12176* # c 08 ..... NASA-CASE-KSC-10595
US-PATENT-APPL-SN-98772
US-PATENT-CLASS-235-155
US-PATENT-CLASS-340-347DD
US-PATENT-3,697,733

N73-12177* # c 08 ..... NASA-CASE-NPO-11371
US-PATENT-APPL-SN-117575
US-PATENT-CLASS-340-146.1AQ
US-PATENT-CLASS-340-146.1AV
US-PATENT-3,697,950

N73-12211* # c 09 ..... NASA-CASE-ERC-10412-1
US-PATENT-APPL-SN-72024
US-PATENT-CLASS-343-11R
US-PATENT-CLASS-343-11VB
US-PATENT-CLASS-343-5DP
US-PATENT-3,696,418

N73-12214* # c 09 ..... NASA-CASE-NPO-13091-1
US-PATENT-APPL-SN-290022

N73-12244* # c 10 ..... NASA-CASE-NPO-11631
US-PATENT-APPL-SN-123253
US-PATENT-CLASS-179-1P
US-PATENT-CLASS-325-473
US-PATENT-CLASS-325-480
US-PATENT-3,700,812

N73-12264* # c 11 ..... NASA-CASE-LAR-10348-1
US-PATENT-APPL-SN-70032
US-PATENT-CLASS-73-147
US-PATENT-3,695,101

N73-12265* # c 11 ..... NASA-CASE-NPO-10890
US-PATENT-APPL-SN-99903
US-PATENT-CLASS-137-559
US-PATENT-CLASS-219-203
US-PATENT-CLASS-219-522
US-PATENT-CLASS-52-171
US-PATENT-3,696,833

N73-12444* # c 14 ..... NASA-CASE-GSC-10903-1
US-PATENT-APPL-SN-114846
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US-PATENT-CLASS-250-41.9S
US-PATENT-CLASS-73-421.5
US-PATENT-3,700,893

N73-12445* # c 14 ..... NASA-CASE-LAR-10728-1
US-PATENT-APPL-SN-112998
US-PATENT-CLASS-250-83.3H
US-PATENT-CLASS-250-83.3R
US-PATENT-CLASS-250-83R
US-PATENT-3,700,897

N73-12446* # c 14 ..... NASA-CASE-NPO-11239
US-PATENT-APPL-SN-89211
US-PATENT-CLASS-356-106
US-PATENT-CLASS-356-114
US-PATENT-3,700,334

N73-12447* # c 14 ..... NASA-CASE-NPO-11493
US-PATENT-APPL-SN-151413
US-PATENT-CLASS-136-224
US-PATENT-3,700,503

N73-12486* # c 15 ..... NASA-CASE-KSC-10615
US-PATENT-APPL-SN-103078
US-PATENT-CLASS-244-1SB
US-PATENT-CLASS-244-135
US-PATENT-CLASS-62-45
US-PATENT-CLASS-62-7
US-PATENT-3,697,021

N73-12487* # c 15 ..... NASA-CASE-FRC-10019
US-PATENT-APPL-SN-880398
US-PATENT-CLASS-204-192
US-PATENT-3,700,575

N73-12488* # c 15 ..... NASA-CASE-ARC-10345-1
US-PATENT-APPL-SN-193671
US-PATENT-CLASS-287-85R
US-PATENT-CLASS-308-2A
US-PATENT-CLASS-74-5F
US-PATENT-3,700,291

N73-12489* # c 15 ..... NASA-CASE-MSC-12357
US-PATENT-APPL-SN-662763
US-PATENT-CLASS-264-102
US-PATENT-CLASS-264-28
US-PATENT-CLASS-264-36
US-PATENT-CLASS-264-40
US-PATENT-3,697,630

N73-12492* # c 15 ..... NASA-CASE-XLA-8914
US-PATENT-APPL-SN-810576

N73-12495* # c 15 ..... NASA-CASE-NPO-13086-1
US-PATENT-APPL-SN-292477

N73-12547* # c 17 ..... NASA-CASE-LAR-10539-1
US-PATENT-APPL-SN-136085
US-PATENT-CLASS-23-230R
US-PATENT-3,701,631

N73-12604* # c 18 ..... NASA-CASE-MFS-20408
US-PATENT-APPL-SN-71048
US-PATENT-CLASS-161-93
US-PATENT-3,700,538

N73-12884* # c 30 ..... NASA-CASE-MSC-12391
US-PATENT-APPL-SN-106465
US-PATENT-CLASS-244-155
US-PATENT-3,700,193

N73-13008* # c 02 ..... NASA-CASE-GSC-11077-1
US-PATENT-APPL-SN-127618
US-PATENT-CLASS-244-32
US-PATENT-3,698,667

N73-13114* # c 05 ..... NASA-CASE-MSC-13604-1
US-PATENT-APPL-SN-78717
US-PATENT-CLASS-128-2N
US-PATENT-CLASS-273-1E
US-PATENT-CLASS-35-22R
US-PATENT-3,698,385

N73-13128* # c 06 ..... NASA-CASE-GSC-11214-1
US-PATENT-APPL-SN-115134
US-PATENT-CLASS-117-35R
US-PATENT-3,702,775

N73-13129* # c 06 ..... NASA-CASE-XNP-08124-2
US-PATENT-APPL-SN-97829

US-PATENT-CLASS-75-66
US-PATENT-3,702,762
N73-13149* # c 07 ..... NASA-CASE-NPO-11302-1
US-PATENT-APPL-SN-70967
US-PATENT-CLASS-178-69.5
US-PATENT-CLASS-235-150.53
US-PATENT-CLASS-235-181
US-PATENT-CLASS-325-325
US-PATENT-CLASS-340-146.1
US-PATENT-3,701,894
N73-13187* # c 08 ..... NASA-CASE-GSC-10975-1
US-PATENT-APPL-SN-100996
US-PATENT-CLASS-340-172.5
US-PATENT-3,702,463
N73-13208* # c 09 ..... NASA-CASE-LEW-11192-1
US-PATENT-APPL-SN-198285
US-PATENT-CLASS-315-3.5
US-PATENT-CLASS-315-5.38
US-PATENT-3,702,951
N73-13209* # c 09 ..... NASA-CASE-XLA-05099
US-PATENT-APPL-SN-98798
US-PATENT-CLASS-235-152
US-PATENT-CLASS-307-207
US-PATENT-CLASS-307-215
US-PATENT-3,700,868
N73-13235* # c 10 ..... NASA-CASE-KSC-10003
US-PATENT-APPL-SN-60883
US-PATENT-CLASS-178-DIG.6
US-PATENT-CLASS-178-6
US-PATENT-CLASS-307-242
US-PATENT-CLASS-307-259
US-PATENT-CLASS-328-104
US-PATENT-CLASS-328-154
US-PATENT-3,702,898
N73-13257* # c 11 ..... NASA-CASE-LAR-10574-1
US-PATENT-APPL-SN-66206
US-PATENT-CLASS-244-1SS
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N73-13415* # c 14 ..... NASA-CASE-LAR-10855-1
US-PATENT-APPL-SN-166541
US-PATENT-CLASS-73-147
US-PATENT-CLASS-73-182
US-PATENT-CLASS-73-189
US-PATENT-CLASS-73-212
US-PATENT-3,699,811
N73-13416* # c 14 ..... NASA-CASE-GSC-11302-1
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US-PATENT-CLASS-73-71.6
US-PATENT-3,699,807
N73-13417* # c 14 ..... NASA-CASE-XLE-05230-2
US-PATENT-APPL-SN-147099
US-PATENT-APPL-SN-877717
US-PATENT-CLASS-136-233
US-PATENT-CLASS-29-573
US-PATENT-CLASS-29-624
US-PATENT-3,699,645
N73-13418* # c 14 ..... NASA-CASE-MFS-14216
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US-PATENT-CLASS-137-81
US-PATENT-CLASS-92-49
US-PATENT-3,698,412
N73-13420* # c 14 ..... NASA-CASE-NPO-11418-1
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US-PATENT-CLASS-333-81B
US-PATENT-CLASS-333-98R
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N73-13435* # c 14 ..... NASA-CASE-GSC-11533-1
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N73-13462* # c 15 ..... NASA-CASE-NPO-11479
US-PATENT-APPL-SN-170440
US-PATENT-CLASS-137-608
US-PATENT-CLASS-137-81.5
US-PATENT-CLASS-138-45
US-PATENT-CLASS-251-122
US-PATENT-3,700,005
N73-13463* # c 15 ..... NASA-CASE-MFS-20317
US-PATENT-APPL-SN-67730
US-PATENT-CLASS-173-131
US-PATENT-CLASS-72-447
US-PATENT-CLASS-72-476
US-PATENT-3,699,799
N73-13464* # c 15 ..... NASA-CASE-NPO-10812
US-PATENT-APPL-SN-129073
US-PATENT-CLASS-425-113
US-PATENT-CLASS-425-133
US-PATENT-CLASS-425-176
US-PATENT-CLASS-72-258
US-PATENT-3,698,848
N73-13465* # c 15 ..... NASA-CASE-LEW-10805-1
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US-PATENT-CLASS-148-11.5R
US-PATENT-3,702,791
N73-13466* # c 15 ..... NASA-CASE-MFS-20944
US-PATENT-APPL-SN-148756
US-PATENT-CLASS-91-363A
US-PATENT-CLASS-91-448
US-PATENT-3,702,575
N73-13467* # c 15 ..... NASA-CASE-NPO-11369
US-PATENT-APPL-SN-129072
US-PATENT-CLASS-60-1
US-PATENT-CLASS-60-23
US-PATENT-CLASS-60-37
US-PATENT-3,702,532
N73-13489* # c 16 ..... NASA-CASE-HQN-10654-1
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US-PATENT-CLASS-324-.5R
US-PATENT-CLASS-331-94
US-PATENT-3,702,972
N73-13562* # c 18 ..... NASA-CASE-ARC-10196-1
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US-PATENT-CLASS-260-2.5F
US-PATENT-3,702,841
N73-13643* # c 21 ..... NASA-CASE-HQN-10703
US-PATENT-APPL-SN-156724
US-PATENT-CLASS-340-27NA
US-PATENT-CLASS-340-33
US-PATENT-CLASS-340-97
US-PATENT-CLASS-343-112CA
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N73-13644* # c 21 ..... NASA-CASE-NPO-11481
US-PATENT-APPL-SN-134571
US-PATENT-CLASS-179-100.2A
US-PATENT-CLASS-340-174.1R
US-PATENT-CLASS-346-138
US-PATENT-CLASS-346-74MD
US-PATENT-CLASS-74-5.22
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N73-13660* # c 23 ..... NASA-CASE-MFS-20809
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US-PATENT-CLASS-315-169R
US-PATENT-CLASS-315-169TV
US-PATENT-CLASS-317-101A
US-PATENT-3,700,961
N73-13661* # c 23 ..... NASA-CASE-MSC-12404-1
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US-PATENT-CLASS-356-106S
US-PATENT-3,702,735
N73-13662* # c 23 ..... NASA-CASE-MFS-20243
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US-PATENT-CLASS-250-51.5
US-PATENT-CLASS-250-52
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N73-13773* # c 28 ..... NASA-CASE-LEW-10374-1
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US-PATENT-CLASS-60-211
US-PATENT-CLASS-60-240
US-PATENT-CLASS-60-243
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N73-13898* # c 31 ..... NASA-CASE-LAR-10549-1
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US-PATENT-CLASS-60-291
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N73-13921* # c 32 ..... NASA-CASE-MSC-12233-2
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US-PATENT-CLASS-52-284
US-PATENT-CLASS-52-594
US-PATENT-3,702,520
N73-14130* # c 07 ..... NASA-CASE-NPO-11661
US-PATENT-APPL-SN-200682
US-PATENT-CLASS-343-782
US-PATENT-CLASS-343-837
US-PATENT-CLASS-343-915
US-PATENT-3,705,406
N73-14214* # c 09 ..... NASA-CASE-ARC-10467-1
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US-PATENT-CLASS-250-205
US-PATENT-CLASS-250-211J
US-PATENT-CLASS-250-217SS
US-PATENT-CLASS-307-310
US-PATENT-CLASS-307-311
US-PATENT-3,705,316
N73-14427* # c 14 ..... NASA-CASE-NPO-10758
US-PATENT-APPL-SN-81096
US-PATENT-CLASS-352-169
US-PATENT-CLASS-95-12.5
US-PATENT-CLASS-95-59
US-PATENT-3,704,659
N73-14428* # c 14 ..... NASA-CASE-NPO-10764-1
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US-PATENT-CLASS-252-408
US-PATENT-3,700,603
N73-14429* # c 14 ..... NASA-CASE-NPO-11387
US-PATENT-APPL-SN-142719
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US-PATENT-CLASS-73-60
US-PATENT-3,706,221
N73-14468* # c 15 ..... NASA-CASE-LAR-10103-1
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US-PATENT-CLASS-219-119
US-PATENT-CLASS-29-203V
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N73-14469* # c 15 ..... NASA-CASE-GSC-10791-1
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US-PATENT-CLASS-174-52S
US-PATENT-CLASS-29-589
US-PATENT-CLASS-29-591
US-PATENT-CLASS-317-234A
US-PATENT-CLASS-317-234G
US-PATENT-3,705,255
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US-PATENT-CLASS-106-39R
US-PATENT-CLASS-106-55
US-PATENT-CLASS-106-58
US-PATENT-CLASS-106-63
US-PATENT-CLASS-264-DIG.36
US-PATENT-CLASS-264-65
US-PATENT-3,706,583
N73-14692* # c 21 ..... NASA-CASE-ERC-10392
US-PATENT-APPL-SN-36534
US-PATENT-CLASS-340-27AT
US-PATENT-3,706,970
N73-14853* # c 31 ..... NASA-CASE-GSC-10590-1
US-PATENT-APPL-SN-130353
US-PATENT-CLASS-102-49.5
US-PATENT-3,706,281
N73-14854* # c 31 ..... NASA-CASE-MSC-12433
US-PATENT-APPL-SN-103551
US-PATENT-CLASS-244-155
US-PATENT-3,702,688
N73-14855* # c 31 ..... NASA-CASE-NPO-10680
US-PATENT-APPL-SN-104048
US-PATENT-CLASS-74-2
US-PATENT-3,706,230
N73-15235* # c 09 ..... NASA-CASE-NPO-12106
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US-PATENT-CLASS-317-235AG
US-PATENT-CLASS-317-235K
US-PATENT-CLASS-331-107G
US-PATENT-CLASS-331-177R
US-PATENT-CLASS-331-90
US-PATENT-3,694,771
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US-PATENT-CLASS-23-232R
US-PATENT-CLASS-23-254E
US-PATENT-CLASS-23-254R
US-PATENT-CLASS-250-71R
US-PATENT-CLASS-250-83.3UV
US-PATENT-3,709,663
N73-16121* # c 07 ..... NASA-CASE-NPO-11572
US-PATENT-APPL-SN-125234
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US-PATENT-CLASS-179-15BC
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US-PATENT-CLASS-343-200
US-PATENT-3,710,257
N73-16205* # c 10 ..... NASA-CASE-NPO-11282
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US-PATENT-CLASS-325-346
US-PATENT-CLASS-325-419
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N73-16206* # c 10 ..... NASA-CASE-ERC-10285
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US-PATENT-CLASS-343-100R
US-PATENT-CLASS-343-100SA
US-PATENT-CLASS-343-853
US-PATENT-3,710,329
N73-16483* # c 14 ..... NASA-CASE-ERC-10226-1
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US-PATENT-APPL-SN-808822
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US-PATENT-CLASS-250-215
US-PATENT-CLASS-250-217
US-PATENT-CLASS-315-153
US-PATENT-CLASS-340-25
US-PATENT-CLASS-340-27R
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N73-16484* # c 14 ..... NASA-CASE-LAR-10739-1
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US-PATENT-CLASS-340-228S
US-PATENT-CLASS-340-418
US-PATENT-3,708,674
N73-16536* # c 16 ..... NASA-CASE-LAR-10311-1
US-PATENT-APPL-SN-31702
US-PATENT-CLASS-250-199
US-PATENT-CLASS-340-171
US-PATENT-CLASS-350-293
US-PATENT-3,710,122

N73-16764* # c 27 ..... NASA-CASE-NPO-12015
US-PATENT-APPL-SN-74862
US-PATENT-CLASS-149-19
US-PATENT-CLASS-149-36
US-PATENT-3,708,359
N73-16918* # c 33 ..... NASA-CASE-MSC-15567-1
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US-PATENT-CLASS-204-325
US-PATENT-CLASS-204-328
US-PATENT-3,708,419
N73-19004* # c 02 ..... NASA-CASE-ERC-10439
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US-PATENT-CLASS-244-77D
US-PATENT-CLASS-318-489
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US-PATENT-CLASS-317-235N
US-PATENT-CLASS-317-235R
US-PATENT-CLASS-317-235T
US-PATENT-CLASS-317-235UA
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US-PATENT-CLASS-95-11R
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US-PATENT-CLASS-73-84
US-PATENT-3,712,121
N73-19421* # c 14 ..... NASA-CASE-MFS-20242
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US-PATENT-3,712,120
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US-PATENT-CLASS-423-625
US-PATENT-3,714,332
N73-19458* # c 15 ..... NASA-CASE-LAR-10195-1
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US-PATENT-3,712,591
N73-19630* # c 21 ..... NASA-CASE-GSC-11188-2
US-PATENT-APPL-SN-244440
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US-PATENT-3,713,290
N73-20039* # c 03 ..... NASA-CASE-GSC-10814-1
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US-PATENT-CLASS-244-1SS
US-PATENT-3,715,092
N73-20040* # c 03 ..... NASA-CASE-NPO-11771
US-PATENT-APPL-SN-200762
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US-PATENT-CLASS-250-212
US-PATENT-CLASS-250-234
US-PATENT-CLASS-60-26
US-PATENT-3,715,600
N73-20137* # c 05 ..... NASA-CASE-LAR-10076-1
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US-PATENT-CLASS-312-1
US-PATENT-CLASS-62-259
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US-PATENT-CLASS-325-4
US-PATENT-CLASS-325-5
US-PATENT-CLASS-325-63
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US-PATENT-CLASS-325-9
US-PATENT-CLASS-343-179
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N73-20175* # c 07 ..... NASA-CASE-KSC-10698
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N73-20176* # c 07 ..... NASA-CASE-KSC-10521
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US-PATENT-CLASS-340-163
US-PATENT-3,715,723
N73-20217* # c 08 ..... NASA-CASE-LAR-10128-1
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US-PATENT-CLASS-235-92R
US-PATENT-CLASS-235-92T
US-PATENT-CLASS-340-347AD
US-PATENT-3,714,645
N73-20231* # c 09 ..... NASA-CASE-ARC-10264-1
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US-PATENT-CLASS-328-167
US-PATENT-CLASS-330-109
US-PATENT-CLASS-330-86
US-PATENT-3,714,588
N73-20232* # c 09 ..... NASA-CASE-MFS-21433
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US-PATENT-CLASS-307-304
US-PATENT-CLASS-330-20
US-PATENT-CLASS-330-22
US-PATENT-CLASS-330-30D
US-PATENT-CLASS-330-35
US-PATENT-CLASS-330-40
US-PATENT-CLASS-330-80T
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N73-20253* # c 10 ..... NASA-CASE-LAR-10310-1
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US-PATENT-CLASS-235-197
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N73-20254* # c 10 ..... NASA-CASE-NPO-11868
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US-PATENT-CLASS-328-187
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US-PATENT-CLASS-328-61
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N73-20267* # c 11 ..... NASA-CASE-MFS-21362
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US-PATENT-3,714,833
N73-20474* # c 14 ..... NASA-CASE-ERC-10350
US-PATENT-APPL-SN-55535
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US-PATENT-3,714,624
N73-20475* # c 14 ..... NASA-CASE-LAR-10726-1
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US-PATENT-CLASS-250-83.3H
US-PATENT-3,714,432
N73-20476* # c 14 ..... NASA-CASE-MFS-20673
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US-PATENT-CLASS-73-91
US-PATENT-3,714,821
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N73-20478* # c 14 ..... NASA-CASE-NPO-10985
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US-PATENT-CLASS-324-65P
US-PATENT-CLASS-73-194E
US-PATENT-3,712,132
N73-20514* # c 15 ..... NASA-CASE-NPO-11213
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N73-20740* # c 32 ..... NASA-CASE-LAR-10765-1
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US-PATENT-CLASS-356-32
US-PATENT-CLASS-73-88A
US-PATENT-3,715,915
N73-20741* # c 23 ..... NASA-CASE-ARC-10194-1
US-PATENT-APPL-SN-107659
US-PATENT-CLASS-350-202
US-PATENT-3,715,152
N73-22076* # c 07 ..... NASA-CASE-NPO-10166-1
US-PATENT-APPL-SN-192803
N73-22710* # c 27 ..... NASA-CASE-NPO-10893
US-PATENT-APPL-SN-845584
US-PATENT-CLASS-260-94.8
US-PATENT-3,634,383
N73-24176* # c 07 ..... NASA-CASE-NPO-11751
US-PATENT-APPL-SN-192141
US-PATENT-CLASS-343-DIG.2
US-PATENT-CLASS-343-915
US-PATENT-3,729,743
N73-24472* # c 14 ..... NASA-CASE-LEW-11072-1
US-PATENT-APPL-SN-104885
US-PATENT-CLASS-136-225
US-PATENT-3,729,343
N73-24473* # c 14 ..... NASA-CASE-MFS-20418
US-PATENT-APPL-SN-162101
US-PATENT-CLASS-128-206F
US-PATENT-CLASS-324-78E
US-PATENT-3,729,676
N73-24513* # c 15 ..... NASA-CASE-NPO-11417
US-PATENT-APPL-SN-120241
US-PATENT-CLASS-417-391
US-PATENT-CLASS-60-25
US-PATENT-3,732,040
N73-24569* # c 17 ..... NASA-CASE-LEW-10920-1
US-PATENT-APPL-SN-106424
US-PATENT-CLASS-204-192
US-PATENT-3,732,158
N73-24783* # c 28 ..... NASA-CASE-NPO-11880
US-PATENT-APPL-SN-209535
US-PATENT-CLASS-313-DIG.8
US-PATENT-CLASS-313-231
US-PATENT-CLASS-313-63
US-PATENT-CLASS-60-202
US-PATENT-3,313,204
US-PATENT-3,728,861
N73-24784* # c 28 ..... NASA-CASE-NPO-11559
US-PATENT-APPL-SN-147996
US-PATENT-CLASS-102-49.7
US-PATENT-CLASS-102-49.8
US-PATENT-CLASS-60-254
US-PATENT-CLASS-60-256
US-PATENT-3,729,935
N73-25125* # c 05 ..... NASA-CASE-MFS-20332-2
US-PATENT-APPL-SN-195061
US-PATENT-APPL-SN-869260
US-PATENT-CLASS-128-142.5
US-PATENT-CLASS-137-538
US-PATENT-CLASS-2-2.1A
US-PATENT-3,720,208
N73-25160* # c 07 ..... NASA-CASE-ARC-10097-2
US-PATENT-APPL-SN-115083
US-PATENT-APPL-SN-768662
US-PATENT-CLASS-325-113
US-PATENT-CLASS-325-139
US-PATENT-CLASS-325-45
US-PATENT-CLASS-325-61
US-PATENT-CLASS-340-207
US-PATENT-CLASS-340-258R
US-PATENT-3,719,891
N73-25161* # c 07 ..... NASA-CASE-NPO-11707
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US-PATENT-CLASS-343-6.8R
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N73-25206* # c 08 ..... NASA-CASE-NPO-11497
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US-PATENT-CLASS-235-92CV
US-PATENT-CLASS-235-92DN
US-PATENT-CLASS-235-92EA
US-PATENT-CLASS-235-92EV
US-PATENT-CLASS-235-92R
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N73-25240* # c 10 ..... NASA-CASE-MSC-12428-1
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US-PATENT-CLASS-235-151.31
US-PATENT-CLASS-324-77R
US-PATENT-CLASS-324-78J
US-PATENT-3,732,405
N73-25241* # c 10 ..... NASA-CASE-GSC-11239-1
US-PATENT-APPL-SN-180683
US-PATENT-CLASS-325-363
US-PATENT-CLASS-325-67
US-PATENT-3,737,781
N73-25243* # c 10 ..... NASA-CASE-MFS-21919-1
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US-PATENT-CLASS-317-101DH
US-PATENT-3,735,206
N73-25262* # c 12 ..... NASA-CASE-LAR-10578-1
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US-PATENT-CLASS-73-147
US-PATENT-3,731,528
N73-25460* # c 14 ..... NASA-CASE-MFS-20916
US-PATENT-APPL-SN-212165
US-PATENT-CLASS-73-189
US-PATENT-3,731,531
N73-25461* # c 14 ..... NASA-CASE-KSC-10108
US-PATENT-APPL-SN-73922
US-PATENT-CLASS-343-14
US-PATENT-CLASS-343-17.5
US-PATENT-CLASS-343-6.8R
US-PATENT-3,732,567

N73-25462* # c 14 ..... NASA-CASE-NPO-11686
US-PATENT-APPL-SN-212900
US-PATENT-CLASS-250-203R
US-PATENT-CLASS-250-214
US-PATENT-CLASS-250-214
US-PATENT-CLASS-250-83.3H
US-PATENT-CLASS-356-152
US-PATENT-3,723,745

N73-25463* # c 14 ..... NASA-CASE-ARC-10278-1
US-PATENT-APPL-SN-154933
US-PATENT-CLASS-356-110
US-PATENT-3,729,260

N73-25512* # c 15 ..... NASA-CASE-LAR-10129-1
US-PATENT-APPL-SN-99201
US-PATENT-CLASS-182-5
US-PATENT-CLASS-188-65.1
US-PATENT-CLASS-24-134R
US-PATENT-CLASS-254-156
US-PATENT-3,729,068

N73-25513* # c 15 ..... NASA-CASE-GSC-11205-1
US-PATENT-APPL-SN-107376
US-PATENT-CLASS-188-266
US-PATENT-CLASS-244-1SA
US-PATENT-3,737,118

N73-25760* # c 25 ..... NASA-CASE-LEW-11180-1
US-PATENT-APPL-SN-175852
US-PATENT-CLASS-313-161
US-PATENT-CLASS-313-231
US-PATENT-CLASS-60-202
US-PATENT-3,735,591

N73-25952* # c 33 ..... NASA-CASE-LEW-10359-2
US-PATENT-APPL-SN-150215
US-PATENT-APPL-SN-47063
US-PATENT-CLASS-102-105
US-PATENT-CLASS-244-117A
US-PATENT-CLASS-60-200A
US-PATENT-CLASS-60-265
US-PATENT-CLASS-60-267
US-PATENT-CLASS-62-467
US-PATENT-3,720,075

N73-26004* # c 02 ..... NASA-CASE-LAR-10682-1
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US-PATENT-CLASS-244-75A
US-PATENT-CLASS-244-76C
US-PATENT-CLASS-244-77F
US-PATENT-CLASS-244-77G
US-PATENT-3,734,432

N73-26005* # c 02 ..... NASA-CASE-ARC-10470-1
US-PATENT-APPL-SN-206279
US-PATENT-CLASS-244-13
US-PATENT-CLASS-244-46
US-PATENT-CLASS-244-55
US-PATENT-3,737,121

N73-26006* # c 02 ..... NASA-CASE-MSC-12393-1
US-PATENT-APPL-SN-203405
US-PATENT-CLASS-114-122
US-PATENT-CLASS-9-11A
US-PATENT-CLASS-9-2A
US-PATENT-CLASS-9-3
US-PATENT-3,736,607

N73-26071* # c 05 ..... NASA-CASE-ARC-10599-1
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US-PATENT-CLASS-165-46
US-PATENT-CLASS-2-2.1
US-PATENT-CLASS-62-176
US-PATENT-CLASS-62-207
US-PATENT-CLASS-62-209
US-PATENT-CLASS-62-259
US-PATENT-CLASS-62-89
US-PATENT-3,736,764

N73-26072* # c 05 ..... NASA-CASE-ARC-10329-1
US-PATENT-APPL-SN-159857
US-PATENT-CLASS-128-2.1R
US-PATENT-CLASS-351-23
US-PATENT-CLASS-351-30
US-PATENT-CLASS-351-36
US-PATENT-3,737,217

N73-26100* # c 06 ..... NASA-CASE-GSC-11358-1
US-PATENT-APPL-SN-226551
US-PATENT-CLASS-260-46.5R
US-PATENT-3,733,350

N73-26117* # c 07 ..... NASA-CASE-KSC-10392
US-PATENT-APPL-SN-181024
US-PATENT-CLASS-343-880
US-PATENT-CLASS-343-883
US-PATENT-CLASS-343-889
US-PATENT-CLASS-343-895
US-PATENT-3,737,912

N73-26118* # c 07 ..... NASA-CASE-NPO-11548
US-PATENT-APPL-SN-151411
US-PATENT-CLASS-179-15A
US-PATENT-CLASS-179-15BM
US-PATENT-CLASS-325-40
US-PATENT-CLASS-343-204
US-PATENT-3,737,776

N73-26119* # c 07 ..... NASA-CASE-NPO-11426
US-PATENT-APPL-SN-89210
US-PATENT-CLASS-250-199
US-PATENT-CLASS-331-94.5
US-PATENT-CLASS-332-7.51
US-PATENT-CLASS-356-4
US-PATENT-CLASS-356-5
US-PATENT-3,737,231

N73-26175* # c 08 ..... NASA-CASE-NPO-11821-1
US-PATENT-APPL-SN-236285
US-PATENT-CLASS-235-152
US-PATENT-CLASS-235-164
US-PATENT-CLASS-328-167
US-PATENT-3,732,409

N73-26176* # c 08 ..... NASA-CASE-NPO-11456
US-PATENT-APPL-SN-153543
US-PATENT-CLASS-340-172.5
US-PATENT-3,740,725

N73-26195* # c 09 ..... NASA-CASE-GSC-10990-1
US-PATENT-APPL-SN-93329
US-PATENT-CLASS-333-73R
US-PATENT-CLASS-333-73S
US-PATENT-CLASS-333-82A
US-PATENT-CLASS-333-84M
US-PATENT-3,737,815

N73-26228* # c 10 ..... NASA-CASE-ERC-10403-1
US-PATENT-APPL-SN-253405
US-PATENT-CLASS-317-DIG.6
US-PATENT-CLASS-321-11
US-PATENT-CLASS-321-45C
US-PATENT-3,737,757

N73-26229* # c 10 ..... NASA-CASE-NPO-11569
US-PATENT-APPL-SN-199957
US-PATENT-CLASS-307-220
US-PATENT-CLASS-307-233
US-PATENT-3,737,676

N73-26230* # c 10 ..... NASA-CASE-MSC-13907-1
US-PATENT-APPL-SN-254177
US-PATENT-CLASS-235-186
US-PATENT-CLASS-235-194
US-PATENT-CLASS-235-197
US-PATENT-3,737,639

N73-26238* # c 11 ..... NASA-CASE-NPO-11366
US-PATENT-APPL-SN-144139
US-PATENT-CLASS-180-41
US-PATENT-CLASS-180-6.5
US-PATENT-CLASS-180-7R
US-PATENT-CLASS-180-8A
US-PATENT-CLASS-180-9.2R
US-PATENT-CLASS-180-9.5
US-PATENT-CLASS-305-35EB
US-PATENT-CLASS-305-39
US-PATENT-3,730,287

N73-26430* # c 14 ..... NASA-CASE-NPO-11304
US-PATENT-APPL-SN-101214
US-PATENT-CLASS-219-499
US-PATENT-CLASS-219-50
US-PATENT-3,733,463

N73-26431* # c 14 ..... NASA-CASE-MSC-12363-1
US-PATENT-APPL-SN-125236
US-PATENT-CLASS-95-1.1
US-PATENT-3,736,849

N73-26432* # c 14 ..... NASA-CASE-ERC-10276
US-PATENT-APPL-SN-24155
US-PATENT-CLASS-250-209
US-PATENT-CLASS-340-15.5GC
US-PATENT-CLASS-343-100ME
US-PATENT-3,737,905

N73-26472* # c 15 ..... NASA-CASE-KSC-10639
US-PATENT-APPL-SN-181023
US-PATENT-CLASS-137-397
US-PATENT-CLASS-137-582
US-PATENT-3,736,956

N73-26572* # c 18 ..... NASA-CASE-ARC-10304-1
US-PATENT-APPL-SN-140946
US-PATENT-CLASS-252-8.1
US-PATENT-3,730,891

N73-26751* # c 26 ..... NASA-CASE-MFS-20675
US-PATENT-APPL-SN-200085
US-PATENT-CLASS-250-219TH
US-PATENT-CLASS-356-108
US-PATENT-CLASS-356-161
US-PATENT-CLASS-356-202
US-PATENT-3,737,237

N73-26752* # c 26 ..... NASA-CASE-LEW-11726-1
US-PATENT-APPL-SN-280031
US-PATENT-CLASS-156-18
US-PATENT-CLASS-174-DIG.6
US-PATENT-CLASS-29-599
US-PATENT-CLASS-336-DIG.1
US-PATENT-CLASS-336-200
US-PATENT-3,737,824

N73-26876* # c 31 ..... NASA-CASE-MFS-20863
US-PATENT-APPL-SN-159966
US-PATENT-CLASS-244-1SD
US-PATENT-CLASS-244-137P
US-PATENT-3,737,117

N73-26910* # c 32 ..... NASA-CASE-LAR-10756-1
US-PATENT-APPL-SN-160859
US-PATENT-CLASS-235-92MT
US-PATENT-CLASS-73-67.3
US-PATENT-CLASS-73-88.5R
US-PATENT-CLASS-73-91
US-PATENT-3,733,424

N73-26958* # c 33 ..... NASA-CASE-NPO-11330
US-PATENT-APPL-SN-118269
US-PATENT-CLASS-285-DIG.21
US-PATENT-CLASS-285-316
US-PATENT-3,737,181

N73-27052* # c 04 ..... NASA-CASE-GSC-11092-2
US-PATENT-APPL-SN-139250
US-PATENT-APPL-SN-60950
US-PATENT-CLASS-103.5R
US-PATENT-3,745,090

N73-27062* # c 05 ..... NASA-CASE-LEW-11669-1
US-PATENT-APPL-SN-198885
US-PATENT-CLASS-128-2
US-PATENT-CLASS-128-24A
US-PATENT-CLASS-128-305
US-PATENT-CLASS-32-28
US-PATENT-CLASS-32-58
US-PATENT-3,736,938

N73-27086* # c 06 ..... NASA-CASE-GSC-10225-1
US-PATENT-APPL-SN-710621
US-PATENT-CLASS-195-66R
US-PATENT-3,745,089

N73-27150* # c 09 ..... NASA-CASE-ERC-10224-2
US-PATENT-APPL-SN-221833
US-PATENT-APPL-SN-868775
US-PATENT-CLASS-29-580
US-PATENT-CLASS-317-234G
US-PATENT-CLASS-317-234L
US-PATENT-CLASS-317-234M
US-PATENT-CLASS-317-234N
US-PATENT-CLASS-317-234R
US-PATENT-3,742,316

N73-27171* # c 10 ..... NASA-CASE-NPO-11941-1
US-PATENT-APPL-SN-241614
US-PATENT-CLASS-330-70CR
US-PATENT-CLASS-331-17
US-PATENT-CLASS-331-25
US-PATENT-3,740,671

N73-27376* # c 14 ..... NASA-CASE-HQN-10037-1
US-PATENT-APPL-SN-235957
US-PATENT-CLASS-73-28
US-PATENT-3,741,001

N73-27377* # c 14 ..... NASA-CASE-MFS-21046-1
US-PATENT-APPL-SN-156725
US-PATENT-CLASS-272-73
US-PATENT-CLASS-35-12C
US-PATENT-3,744,794

N73-27378* # c 14 ..... NASA-CASE-KSC-10626
US-PATENT-APPL-SN-180963
US-PATENT-CLASS-222-414
US-PATENT-CLASS-244-1SS
US-PATENT-CLASS-244-135
US-PATENT-3,744,738

N73-27379* # c 14 ..... NASA-CASE-FRC-10060-1
US-PATENT-APPL-SN-189290
US-PATENT-CLASS-179-175.1A
US-PATENT-CLASS-340-5C
US-PATENT-CLASS-73-1DV
US-PATENT-3,744,294

N73-27405* # c 15 ..... NASA-CASE-MFS-20855
US-PATENT-APPL-SN-127647
US-PATENT-CLASS-219-348
US-PATENT-CLASS-53-112A
US-PATENT-CLASS-53-22A
US-PATENT-3,745,739

N73-27406* # c 15 ..... NASA-CASE-NPO-11377
US-PATENT-APPL-SN-187262
US-PATENT-CLASS-137-1
US-PATENT-CLASS-137-154
US-PATENT-CLASS-137-604
US-PATENT-3,744,510

N73-27446* # c 17 ..... NASA-CASE-LAR-10953-1
US-PATENT-APPL-SN-163152
US-PATENT-CLASS-23-230R
US-PATENT-3,744,972

N73-27699* # c 28 ..... NASA-CASE-XLE-10453-2
US-PATENT-APPL-SN-180473
US-PATENT-APPL-SN-758540
US-PATENT-CLASS-313-217
US-PATENT-CLASS-313-218
US-PATENT-CLASS-313-230
US-PATENT-CLASS-313-355
US-PATENT-CLASS-313-63
US-PATENT-CLASS-60-202
US-PATENT-3,744,247

N73-27796* # c 33 ..... NASA-CASE-LAR-10439-1
US-PATENT-APPL-SN-182033
US-PATENT-CLASS-356-72
US-PATENT-CLASS-73-339

US-PATENT-CLASS-73-432R
US-PATENT-CLASS-73-86
US-PATENT-3,745,816
N73-27941* # c 05 ..... NASA-CASE-MFS-21109-1
US-PATENT-APPL-SN-202769
US-PATENT-CLASS-128-2.05R
US-PATENT-CLASS-128-2.06R
US-PATENT-CLASS-272-73
US-PATENT-CLASS-73-379
US-PATENT-3,744,480
N73-27980* # c 06 ..... NASA-CASE-LEW-11325-1
US-PATENT-APPL-SN-184960
US-PATENT-CLASS-117-161P
US-PATENT-CLASS-117-161UN
US-PATENT-CLASS-117-228
US-PATENT-CLASS-161-214
US-PATENT-CLASS-161-227
US-PATENT-CLASS-260-30.2
US-PATENT-CLASS-260-30.8DS
US-PATENT-CLASS-260-32.6N
US-PATENT-CLASS-260-33.4R
US-PATENT-CLASS-260-33.6R
US-PATENT-CLASS-260-47CP
US-PATENT-CLASS-260-65
US-PATENT-CLASS-260-78TF
US-PATENT-CLASS-260-78UA
US-PATENT-3,745,149
N73-28012* # c 07 ..... NASA-CASE-NPO-11593-1
US-PATENT-APPL-SN-172807
US-PATENT-CLASS-179-15FS
US-PATENT-CLASS-325-419
US-PATENT-CLASS-329-122
US-PATENT-3,745,255
N73-28013* # c 07 ..... NASA-CASE-GSC-11046-1
US-PATENT-APPL-SN-182399
US-PATENT-CLASS-343-725
US-PATENT-CLASS-343-729
US-PATENT-CLASS-343-797
US-PATENT-CLASS-343-803
US-PATENT-CLASS-343-893
US-PATENT-3,747,111
N73-28045* # c 08 ..... NASA-CASE-XNP-00477
US-PATENT-APPL-SN-175497
US-PATENT-CLASS-340-347
US-PATENT-3,219,997
N73-28083* # c 09 ..... NASA-CASE-GSC-11215-1
US-PATENT-APPL-SN-114873
US-PATENT-CLASS-29-628
US-PATENT-CLASS-29-629
US-PATENT-CLASS-29-630
US-PATENT-CLASS-29-630A
US-PATENT-3,744,128
N73-28084* # c 09 ..... NASA-CASE-XNP-03623
US-PATENT-APPL-SN-471154
US-PATENT-CLASS-178-69.5
US-PATENT-3,402,265
N73-28144* # c 12 ..... NASA-CASE-LAR-10612-1
US-PATENT-APPL-SN-233173
US-PATENT-CLASS-73-147
US-PATENT-3,744,305
N73-28486* # c 14 ..... NASA-CASE-NPO-11749
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US-PATENT-APPL-SN-51317
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US-PATENT-CLASS-260-93.5S
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US-PATENT-CLASS-331-135
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NASA-CASE-XNP-06933
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US-PATENT-CLASS-219-91
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US-PATENT-CLASS-308-9
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US-PATENT-CLASS-117-138.8R
US-PATENT-CLASS-117-151
US-PATENT-CLASS-117-160R
US-PATENT-CLASS-117-66
US-PATENT-CLASS-29-527.2
US-PATENT-CLASS-72-53
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US-PATENT-CLASS-315-258
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US-PATENT-CLASS-331-94.5
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US-PATENT-CLASS-29-196.6
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US-PATENT-CLASS-75-171
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US-PATENT-CLASS-174-126CP
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US-PATENT-CLASS-335-216
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US-PATENT-CLASS-165-141
US-PATENT-CLASS-165-185
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US-PATENT-CLASS-95-12
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US-PATENT-CLASS-350-285
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US-PATENT-CLASS-356-172
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N74-10195* # c 33 ..... NASA-CASE-LEW-11617-1
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US-PATENT-CLASS-315-5.38
US-PATENT-3,764,850
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US-PATENT-CLASS-235-92CA
US-PATENT-CLASS-235-92DM
US-PATENT-CLASS-307-225R
US-PATENT-CLASS-328-48
US-PATENT-3,764,790
N74-10415* # c 35 ..... NASA-CASE-MFS-20335-1
US-PATENT-APPL-SN-238263
US-PATENT-CLASS-73-67.8S
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US-PATENT-APPL-SN-99901
US-PATENT-CLASS-277-25
US-PATENT-CLASS-277-27
US-PATENT-CLASS-277-96
US-PATENT-3,767,212
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US-PATENT-APPL-SN-29917
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US-PATENT-CLASS-29-420.5
US-PATENT-CLASS-75-200
US-PATENT-CLASS-75-226
US-PATENT-3,765,958
N74-10907* # c 05 ..... NASA-CASE-XMF-02263
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US-PATENT-CLASS-D71-1
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N74-10942* # c 08 ..... NASA-CASE-MSC-12394-1
US-PATENT-APPL-SN-341662
US-PATENT-CLASS-244-83
US-PATENT-CLASS-318-580
US-PATENT-CLASS-318-628
US-PATENT-3,771,037
N74-10975* # c 52 ..... NASA-CASE-MSC-13972-1
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US-PATENT-CLASS-73-149
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US-PATENT-CLASS-343-909
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US-PATENT-CLASS-321-2
US-PATENT-CLASS-321-45S
US-PATENT-CLASS-323-DIG.1
US-PATENT-CLASS-331-113A
US-PATENT-CLASS-331-62
US-PATENT-3,771,040
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US-PATENT-CLASS-137-833
US-PATENT-CLASS-137-840
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US-PATENT-CLASS-179-100.2T
US-PATENT-CLASS-340-174.1L
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US-PATENT-CLASS-219-107
US-PATENT-CLASS-219-78
US-PATENT-CLASS-29-497.5
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US-PATENT-CLASS-29-460
US-PATENT-CLASS-29-498
US-PATENT-CLASS-29-503
US-PATENT-CLASS-29-527.2
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US-PATENT-CLASS-333-97R
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US-PATENT-CLASS-128-2.06F
US-PATENT-CLASS-324-186
US-PATENT-CLASS-324-78D
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US-PATENT-CLASS-222-387
US-PATENT-CLASS-222-514
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US-PATENT-CLASS-23-288F
US-PATENT-CLASS-23-288J
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US-PATENT-CLASS-55-510
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US-PATENT-CLASS-325-320
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US-PATENT-CLASS-329-122
US-PATENT-CLASS-329-126
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US-PATENT-CLASS-340-173LM
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US-PATENT-CLASS-343-6.5R
US-PATENT-CLASS-343-6.5SS
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US-PATENT-CLASS-313-224
US-PATENT-CLASS-313-32
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US-PATENT-CLASS-317-234F
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US-PATENT-CLASS-317-234R
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US-PATENT-CLASS-83-602
US-PATENT-CLASS-83-917
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US-PATENT-CLASS-73-420
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US-PATENT-APPL-SN-29917
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US-PATENT-CLASS-29-420.5
US-PATENT-CLASS-75-200
US-PATENT-CLASS-75-213
US-PATENT-CLASS-75-214
US-PATENT-CLASS-75-226
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US-PATENT-APPL-SN-34989
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US-PATENT-CLASS-250-217
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US-PATENT-CLASS-340-174YC
US-PATENT-CLASS-350-151
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US-PATENT-CLASS-235-150.22
US-PATENT-CLASS-235-150.26
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US-PATENT-CLASS-244-77B
US-PATENT-CLASS-343-108R
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US-PATENT-APPL-SN-38816
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US-PATENT-CLASS-117-33.3
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US-PATENT-CLASS-60-259
US-PATENT-3,777,490
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US-PATENT-CLASS-264-102
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US-PATENT-CLASS-136-89
US-PATENT-CLASS-29-572
US-PATENT-CLASS-29-588
US-PATENT-3,780,424

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N74-14920* # c 62 ..... NASA-CASE-MSC-13932-1
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US-PATENT-CLASS-235-153AK
US-PATENT-3,783,250
N74-14935* # c 33 ..... NASA-CASE-MFS-21462-1
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US-PATENT-CLASS-219-539
US-PATENT-CLASS-338-320
US-PATENT-3,732,397
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US-PATENT-CLASS-330-35
US-PATENT-CLASS-330-9
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US-PATENT-CLASS-317-33SC
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US-PATENT-CLASS-317-47
US-PATENT-CLASS-317-48
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US-PATENT-CLASS-244-1SA
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US-PATENT-CLASS-250-203R
US-PATENT-CLASS-250-237R
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N74-15090* # c 35 ..... NASA-CASE-NPO-11432-2
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US-PATENT-APPL-SN-88435
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US-PATENT-CLASS-250-492
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US-PATENT-CLASS-73-4V
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US-PATENT-CLASS-165-2
US-PATENT-CLASS-259-DIG.18
US-PATENT-CLASS-259-60
US-PATENT-CLASS-62-45
US-PATENT-3,782,698
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US-PATENT-CLASS-73-517B
US-PATENT-CLASS-74-5.6
US-PATENT-3,782,205
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US-PATENT-CLASS-350-285
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US-PATENT-CLASS-356-43
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US-PATENT-APPL-SN-54540
US-PATENT-APPL-SN-723465
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US-PATENT-APPL-SN-280390
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US-PATENT-CLASS-29-148.4B
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US-PATENT-CLASS-331-94.5K
US-PATENT-CLASS-331-94.5S
US-PATENT-CLASS-350-6
US-PATENT-CLASS-356-152
US-PATENT-CLASS-356-4
US-PATENT-CLASS-356-5
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US-PATENT-CLASS-356-106
US-PATENT-CLASS-73-71.3
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N74-15395* # c 38 ..... NASA-CASE-MFS-21233-1
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US-PATENT-CLASS-73-71.5U
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US-PATENT-CLASS-73-86
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US-PATENT-CLASS-119-51.5
US-PATENT-CLASS-119-51R
US-PATENT-CLASS-119-52AF
US-PATENT-CLASS-119-54
US-PATENT-CLASS-221-265
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US-PATENT-CLASS-219-388
US-PATENT-CLASS-34-162
US-PATENT-CLASS-346-108
US-PATENT-CLASS-346-138
US-PATENT-CLASS-346-24
US-PATENT-CLASS-95-89R
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US-PATENT-CLASS-340-5R
US-PATENT-CLASS-340-8R
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US-PATENT-APPL-SN-84212
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US-PATENT-CLASS-224-444
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US-PATENT-CLASS-332-11D
US-PATENT-CLASS-340-347AD
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US-PATENT-CLASS-333-16
US-PATENT-CLASS-333-18
US-PATENT-3,790,906
N74-17928* # c 33 ..... NASA-CASE-NPO-11966-1
NASA-CASE-NPO-13159-1
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US-PATENT-CLASS-336-210
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US-PATENT-CLASS-317-31
US-PATENT-3,795,840
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US-PATENT-CLASS-324-118
US-PATENT-CLASS-329-50
US-PATENT-3,795,862
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US-PATENT-CLASS-73-147
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US-PATENT-CLASS-250-370
US-PATENT-CLASS-250-371
US-PATENT-3,790,795
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US-PATENT-CLASS-156-247
US-PATENT-CLASS-156-285
US-PATENT-CLASS-156-309
US-PATENT-3,793,109
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US-PATENT-CLASS-324-57R
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US-PATENT-CLASS-23-253PC
US-PATENT-CLASS-23-259
US-PATENT-CLASS-259-72
US-PATENT-CLASS-312-209
US-PATENT-CLASS-356-197
US-PATENT-CLASS-356-85
US-PATENT-3,790,347
N74-18124* # c 31 ..... NASA-CASE-LAR-10489-1
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US-PATENT-CLASS-264-102
US-PATENT-3,790,650
N74-18125* # c 37 ..... NASA-CASE-MFS-21309-1
US-PATENT-APPL-SN-244519
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US-PATENT-CLASS-161-42
US-PATENT-CLASS-161-43
US-PATENT-CLASS-161-93
US-PATENT-CLASS-260-2R
US-PATENT-CLASS-264-135
US-PATENT-CLASS-264-136
US-PATENT-CLASS-264-257
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US-PATENT-CLASS-272-80
US-PATENT-CLASS-74-594.6
US-PATENT-CLASS-74-594.7
US-PATENT-3,788,163
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US-PATENT-CLASS-29-498
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US-PATENT-CLASS-74-5.7
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US-PATENT-CLASS-267-166
US-PATENT-CLASS-29-157.3R
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US-PATENT-CLASS-356-112
US-PATENT-CLASS-356-28
US-PATENT-3,795,448

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US-PATENT-CLASS-73-91
US-PATENT-3,795,134

N74-19692* # c 44 ..... NASA-CASE-GSC-11367-1
US-PATENT-APPL-SN-236985
US-PATENT-CLASS-136-36
US-PATENT-3,759,747

N74-19693* # c 44 ..... NASA-CASE-NPO-11806-1
US-PATENT-APPL-SN-228163
US-PATENT-CLASS-136-20
US-PATENT-CLASS-136-30
US-PATENT-3,790,409

N74-19769* # c 24 ..... NASA-CASE-ERC-10073-1
US-PATENT-APPL-SN-856253
US-PATENT-CLASS-117-95
US-PATENT-3,796,592

N74-19788* # c 32 ..... NASA-CASE-NPO-11820-1
US-PATENT-APPL-SN-266912
US-PATENT-CLASS-307-237
US-PATENT-CLASS-328-160
US-PATENT-CLASS-328-168
US-PATENT-CLASS-328-172
US-PATENT-CLASS-333-14
US-PATENT-3,800,237

N74-19790* # c 32 ..... NASA-CASE-MFS-21540-1
US-PATENT-APPL-SN-333912
US-PATENT-CLASS-178-7.1
US-PATENT-CLASS-325-148
US-PATENT-3,800,224

N74-19870* # c 44 ..... NASA-CASE-MFS-21470-1
US-PATENT-APPL-SN-340871
US-PATENT-CLASS-325-62
US-PATENT-CLASS-333-17
US-PATENT-CLASS-343-17.7
US-PATENT-CLASS-343-7.5
US-PATENT-3,795,910

N74-20008* # c 74 ..... NASA-CASE-GSC-11188-3
US-PATENT-APPL-SN-244566
US-PATENT-APPL-SN-80029
US-PATENT-CLASS-117-45
US-PATENT-3,799,793

N74-20009* # c 36 ..... NASA-CASE-NPO-11861-1
US-PATENT-APPL-SN-266911
US-PATENT-CLASS-178-DIG.1
US-PATENT-CLASS-178-6
US-PATENT-CLASS-178-7.6
US-PATENT-3,800,074

N74-20063* # c 37 ..... NASA-CASE-LAR-10129-2
US-PATENT-APPL-SN-319410
US-PATENT-APPL-SN-99201
US-PATENT-CLASS-312-1
US-PATENT-3,796,473

N74-20329* # c 76 ..... NASA-CASE-GSC-11425-1
US-PATENT-APPL-SN-206266
US-PATENT-CLASS-148-1.5
US-PATENT-3,799,813

N74-20646* # c 02 ..... NASA-CASE-LEW-11188-1
US-PATENT-APPL-SN-152328
US-PATENT-CLASS-137-15.1
US-PATENT-CLASS-137-15.2
US-PATENT-CLASS-244-53B
US-PATENT-3,799,475

N74-20725* # c 54 ..... NASA-CASE-MFS-22102-1
US-PATENT-APPL-SN-341621
US-PATENT-CLASS-4-10
US-PATENT-CLASS-4-120
US-PATENT-3,805,303

N74-20726* # c 52 ..... NASA-CASE-ARC-10597-1
US-PATENT-APPL-SN-281876
US-PATENT-CLASS-128-2V
US-PATENT-CLASS-73-67.9
US-PATENT-3,802,253

N74-20728* # c 52 ..... NASA-CASE-MFS-21415-1
US-PATENT-APPL-SN-318152
US-PATENT-CLASS-128-2.07
US-PATENT-CLASS-128-2.08
US-PATENT-CLASS-73-23
US-PATENT-CLASS-73-421.5R
US-PATENT-3,799,149

N74-20809* # c 32 ..... NASA-CASE-MSC-12462-1
US-PATENT-APPL-SN-274360
US-PATENT-CLASS-178-88
US-PATENT-CLASS-325-320
US-PATENT-CLASS-325-423
US-PATENT-3,800,227

N74-20810* # c 32 ..... NASA-CASE-MSC-12494-1
US-PATENT-APPL-SN-304705
US-PATENT-CLASS-325-321
US-PATENT-CLASS-325-419
US-PATENT-3,806,816

N74-20811* # c 32 ..... NASA-CASE-NPO-13103-1
US-PATENT-APPL-SN-338484
US-PATENT-CLASS-325-320
US-PATENT-CLASS-325-419
US-PATENT-CLASS-329-122
US-PATENT-3,806,815

N74-20813* # c 32 ..... NASA-CASE-FRC-10071-1
US-PATENT-APPL-SN-307727
US-PATENT-CLASS-178-7.7
US-PATENT-CLASS-315-18
US-PATENT-CLASS-315-22
US-PATENT-3,803,445

N74-20836* # c 60 ..... NASA-CASE-ERC-10180-1
US-PATENT-APPL-SN-838278
US-PATENT-CLASS-235-164
US-PATENT-3,803,393

N74-20859* # c 33 ..... NASA-CASE-XLE-2529-3
US-PATENT-APPL-SN-288856
US-PATENT-APPL-SN-487929
US-PATENT-APPL-SN-848403
US-PATENT-CLASS-315-211
US-PATENT-CLASS-315-228
US-PATENT-CLASS-331-94.5D
US-PATENT-CLASS-332-7.51
US-PATENT-3,806,835

N74-20860* # c 33 ..... NASA-CASE-GSC-11446-1
US-PATENT-APPL-SN-263230
US-PATENT-CLASS-343-DIG.2
US-PATENT-CLASS-343-100SA
US-PATENT-CLASS-343-100ST
US-PATENT-CLASS-343-854
US-PATENT-3,806,932

N74-20861* # c 33 ..... NASA-CASE-GSC-11560-1
US-PATENT-APPL-SN-361906
US-PATENT-CLASS-350-269
US-PATENT-CLASS-354-234
US-PATENT-CLASS-95-53EA
US-PATENT-3,804,506

N74-20862* # c 33 ..... NASA-CASE-GSC-11513-1
US-PATENT-APPL-SN-315069
US-PATENT-CLASS-331-108A
US-PATENT-CLASS-331-115
US-PATENT-CLASS-331-116R
US-PATENT-CLASS-331-159
US-PATENT-3,806,831

N74-20863* # c 32 ..... NASA-CASE-GSC-11909
US-PATENT-APPL-SN-244158
US-PATENT-CLASS-343-730
US-PATENT-CLASS-343-786
US-PATENT-CLASS-343-797
US-PATENT-CLASS-343-853
US-PATENT-3,803,617

N74-20864* # c 32 ..... NASA-CASE-GSC-11428-1
US-PATENT-APPL-SN-292685
US-PATENT-CLASS-343-708
US-PATENT-CLASS-343-769
US-PATENT-CLASS-343-853
US-PATENT-3,805,266

N74-21014* # c 71 ..... NASA-CASE-HQN-10832-1
US-PATENT-APPL-SN-301417
US-PATENT-CLASS-178-DIG.32
US-PATENT-CLASS-178-5.8R
US-PATENT-CLASS-178-7.2
US-PATENT-CLASS-340-407
US-PATENT-CLASS-35-35A
US-PATENT-3,800,082

N74-21015* # c 19 ..... NASA-CASE-LAR-10626-1
US-PATENT-APPL-SN-202750
US-PATENT-CLASS-33-1SA
US-PATENT-CLASS-33-46R
US-PATENT-3,798,778

N74-21017* # c 35 ..... NASA-CASE-MFS-21660-1
US-PATENT-APPL-SN-310616
US-PATENT-CLASS-324-83Q
US-PATENT-3,806,802

N74-21018* # c 35 ..... NASA-CASE-LEW-10981-1
US-PATENT-APPL-SN-214089
US-PATENT-CLASS-310-11
US-PATENT-CLASS-324-34FL
US-PATENT-CLASS-73-194EM
US-PATENT-3,802,262

N74-21019* # c 35 ..... NASA-CASE-GSC-11600-1
US-PATENT-APPL-SN-318357
US-PATENT-CLASS-73-1F
US-PATENT-3,802,249

N74-21055* # c 37 ..... NASA-CASE-LEW-11388-2
US-PATENT-APPL-SN-289033
US-PATENT-APPL-SN-293726
US-PATENT-CLASS-29-487
US-PATENT-CLASS-29-494
US-PATENT-CLASS-29-498
US-PATENT-CLASS-29-504
US-PATENT-3,798,748

N74-21056* # c 37 ..... NASA-CASE-LAR-10688-1
US-PATENT-APPL-SN-285705
US-PATENT-CLASS-235-151
US-PATENT-CLASS-235-92PE
US-PATENT-CLASS-235-92SB
US-PATENT-3,800,253

N74-21057* # c 37 ..... NASA-CASE-LAR-10941-1
US-PATENT-APPL-SN-289048
US-PATENT-CLASS-29-470.1
US-PATENT-3,797,098

N74-21058* # c 37 ..... NASA-CASE-MFS-22411-1
US-PATENT-APPL-SN-382262
US-PATENT-CLASS-260-448.2N
US-PATENT-3,801,617

N74-21059* # c 31 ..... NASA-CASE-LAR-10409-1
US-PATENT-APPL-SN-340864
US-PATENT-CLASS-29-423
US-PATENT-3,798,741

N74-21060* # c 37 ..... NASA-CASE-NPO-13105-1
US-PATENT-APPL-SN-283502
US-PATENT-CLASS-60-25
US-PATENT-3,798,896

N74-21061* # c 37 ..... NASA-CASE-LEW-11076-1
US-PATENT-APPL-SN-238264
US-PATENT-CLASS-308-73
US-PATENT-3,804,472

N74-21062* # c 35 ..... NASA-CASE-LAR-10295-1
US-PATENT-APPL-SN-221685
US-PATENT-CLASS-73-12
US-PATENT-CLASS-73-432
US-PATENT-3,805,622

N74-21063* # c 37 ..... NASA-CASE-LEW-10698-1
US-PATENT-APPL-SN-30498
US-PATENT-CLASS-106-52
US-PATENT-CLASS-117-129
US-PATENT-CLASS-161-196
US-PATENT-CLASS-65-DIG.11
US-PATENT-3,804,703

N74-21064* # c 37 ..... NASA-CASE-LEW-11087-3
US-PATENT-APPL-SN-201904
US-PATENT-APPL-SN-346361
US-PATENT-CLASS-308-188
US-PATENT-CLASS-308-191
US-PATENT-3,802,753

N74-21065* # c 37 ..... NASA-CASE-NPO-11951-1
US-PATENT-APPL-SN-287150
US-PATENT-CLASS-137-628
US-PATENT-CLASS-251-120
US-PATENT-CLASS-251-122
US-PATENT-CLASS-251-210
US-PATENT-3,802,660

N74-21091* # c 36 ..... NASA-CASE-GSC-11262-1
US-PATENT-APPL-SN-162380
US-PATENT-CLASS-250-204
US-PATENT-CLASS-33-285
US-PATENT-CLASS-356-141
US-PATENT-CLASS-356-152
US-PATENT-CLASS-356-172
US-PATENT-3,804,525

N74-21156* # c 27 ..... NASA-CASE-ARC-10592-1
US-PATENT-APPL-SN-321179
US-PATENT-CLASS-260.46.5E
US-PATENT-3,803,090

N74-21300* # c 70 ..... NASA-CASE-ARC-10516-1
US-PATENT-APPL-SN-267768
US-PATENT-CLASS-350-270
US-PATENT-CLASS-354-234
US-PATENT-3,797,919

N74-21304* # c 74 ..... NASA-CASE-GSC-11353-1
US-PATENT-APPL-SN-260241
US-PATENT-CLASS-250-231SE
US-PATENT-CLASS-350-299
US-PATENT-CLASS-356-152
US-PATENT-3,802,779

N74-21850* # c 33 ..... NASA-CASE-GSC-11602-1
US-PATENT-APPL-SN-298157
US-PATENT-CLASS-315-10
US-PATENT-CLASS-315-11
US-PATENT-CLASS-315-12
US-PATENT-3,806,756

N74-21851* # c 33 ..... NASA-CASE-ARC-10596-1
US-PATENT-APPL-SN-267862
US-PATENT-CLASS-330-28
US-PATENT-CLASS-330-59
US-PATENT-3,811,094

N74-22095* # c 35 ..... NASA-CASE-NPO-10617-1
US-PATENT-APPL-SN-828920
US-PATENT-CLASS-73-190H
US-PATENT-3,648,516

N74-22096* # c 32 ..... NASA-CASE-XLE-04791
US-PATENT-APPL-SN-582213
US-PATENT-CLASS-330-103
US-PATENT-3,404,348

N74-22136* # c 18 ..... NASA-CASE-MFS-20922-1
US-PATENT-APPL-SN-220274
US-PATENT-CLASS-244-1SS
US-PATENT-CLASS-49-68
US-PATENT-CLASS-61-83
US-PATENT-3,807,656

N74-22771* # c 52 ..... NASA-CASE-ARC-10447-1
US-PATENT-APPL-SN-311175
US-PATENT-CLASS-128-214E
US-PATENT-CLASS-235-151.3
US-PATENT-3,809,871
N74-22814* # c 33 ..... NASA-CASE-NPO-13081-1
US-PATENT-APPL-SN-345372
US-PATENT-CLASS-307-215
US-PATENT-CLASS-307-243
US-PATENT-CLASS-307-290
US-PATENT-CLASS-328-154
US-PATENT-3,808,464
N74-22864* # c 33 ..... NASA-CASE-XER-11046-2
US-PATENT-APPL-SN-810579
US-PATENT-APPL-SN-87597
US-PATENT-CLASS-321-45R
US-PATENT-3,808,511
N74-22865* # c 33 ..... NASA-CASE-LAR-10168-1
US-PATENT-APPL-SN-354407
US-PATENT-CLASS-174-DIG.8
US-PATENT-CLASS-174-69
US-PATENT-CLASS-174-70R
US-PATENT-CLASS-244-151R
US-PATENT-3,809,800
N74-22885* # c 33 ..... NASA-CASE-MFS-21671-1
US-PATENT-APPL-SN-329958
US-PATENT-CLASS-323-106
US-PATENT-CLASS-323-122
US-PATENT-CLASS-323-128
US-PATENT-3,808,517
N74-23039* # c 34 ..... NASA-CASE-GSC-11620-1
US-PATENT-APPL-SN-280305
US-PATENT-CLASS-126-270
US-PATENT-CLASS-244-127
US-PATENT-CLASS-244-31
US-PATENT-3,807,384
N74-23040* # c 35 ..... NASA-CASE-NPO-11932-1
NASA-CASE-NPO-13127-1
US-PATENT-APPL-SN-311234
US-PATENT-CLASS-356-1065
US-PATENT-CLASS-356-113
US-PATENT-3,809,481
N74-23064* # c 37 ..... NASA-CASE-LAR-10900-1
US-PATENT-APPL-SN-290021
US-PATENT-CLASS-161-116
US-PATENT-3,809,601
N74-23065* # c 31 ..... NASA-CASE-NPO-11758-1
US-PATENT-APPL-SN-266913
US-PATENT-CLASS-204-222
US-PATENT-3,810,829
N74-23066* # c 34 ..... NASA-CASE-LAR-10089-1
US-PATENT-APPL-SN-305638
US-PATENT-CLASS-240-47
US-PATENT-CLASS-353-54
US-PATENT-CLASS-353-61
US-PATENT-3,811,044
N74-23068* # c 46 ..... NASA-CASE-XNP-10007-1
US-PATENT-APPL-SN-611414
US-PATENT-APPL-SN-768942
US-PATENT-CLASS-299-67
US-PATENT-3,606,470
N74-23069* # c 46 ..... NASA-CASE-XNP-09755
US-PATENT-APPL-SN-611414
US-PATENT-APPL-SN-857241
US-PATENT-CLASS-125-1
US-PATENT-CLASS-125-3
US-PATENT-CLASS-299-86
US-PATENT-CLASS-51-283
US-PATENT-3,612,030
N74-23070* # c 37 ..... NASA-CASE-MFS-20645-1
US-PATENT-APPL-SN-103091
US-PATENT-CLASS-74-217R
US-PATENT-3,678,771
N74-23125* # c 27 ..... NASA-CASE-LEW-10199-1
US-PATENT-APPL-SN-651972
US-PATENT-CLASS-117-126GR
US-PATENT-CLASS-117-132B
US-PATENT-CLASS-117-161UN
US-PATENT-CLASS-260-78TF
US-PATENT-3,647,529
N74-25968* # c 37 ..... NASA-CASE-MFS-21485-1
US-PATENT-APPL-SN-277436
US-PATENT-CLASS-408-111
US-PATENT-CLASS-408-80
US-PATENT-CLASS-90-12.5
US-PATENT-3,813,183
N74-26625* # c 52 ..... NASA-CASE-NPO-13065-1
US-PATENT-APPL-SN-269073
US-PATENT-CLASS-128-2.1A
US-PATENT-CLASS-325-113
US-PATENT-CLASS-325-141
US-PATENT-CLASS-340-183
US-PATENT-CLASS-340-203
US-PATENT-CLASS-340-207R
US-PATENT-3,815,109
N74-26626* # c 52 ..... NASA-CASE-MSC-13999-1
US-PATENT-APPL-SN-256317
US-PATENT-CLASS-128-2.05A
US-PATENT-CLASS-128-2.05S
US-PATENT-3,814,083
N74-26654* # c 32 ..... NASA-CASE-MSC-14065-1
US-PATENT-APPL-SN-297128
US-PATENT-CLASS-178-67
US-PATENT-CLASS-325-30
US-PATENT-3,816,657
N74-26732* # c 33 ..... NASA-CASE-MFS-21698-1
US-PATENT-APPL-SN-37050
US-PATENT-CLASS-331-109
US-PATENT-CLASS-331-117R
US-PATENT-CLASS-331-183
US-PATENT-3,815,048
N74-26767* # c 73 ..... NASA-CASE-NPO-13112-1
US-PATENT-APPL-SN-267572
US-PATENT-CLASS-250-499
US-PATENT-CLASS-313-61S
US-PATENT-3,816,785
N74-26945* # c 35 ..... NASA-CASE-MFS-21556-1
US-PATENT-APPL-SN-340791
US-PATENT-CLASS-177-200
US-PATENT-CLASS-177-211
US-PATENT-CLASS-177-246
US-PATENT-CLASS-73-141A
US-PATENT-3,812,924
N74-26946* # c 35 ..... NASA-CASE-MFS-22040-1
US-PATENT-APPL-SN-365644
US-PATENT-CLASS-350-3.5
US-PATENT-CLASS-96-38.3
US-PATENT-CLASS-96-79
US-PATENT-3,815,969
N74-26947* # c 25 ..... NASA-CASE-ARC-10633-1
US-PATENT-APPL-SN-354611
US-PATENT-CLASS-250-304
US-PATENT-CLASS-250-343
US-PATENT-CLASS-250-373
US-PATENT-3,814,939
N74-26948* # c 25 ..... NASA-CASE-MFS-21395-1
US-PATENT-APPL-SN-260093
US-PATENT-CLASS-204-180R
US-PATENT-3,814,678
N74-26949* # c 35 ..... NASA-CASE-GSC-11492-1
US-PATENT-APPL-SN-372148
US-PATENT-CLASS-250-374
US-PATENT-CLASS-250-385
US-PATENT-CLASS-313-93
US-PATENT-3,812,358
N74-26976* # c 37 ..... NASA-CASE-MFS-21846-1
US-PATENT-APPL-SN-359958
US-PATENT-CLASS-188-163
US-PATENT-CLASS-188-171
US-PATENT-3,812,936
N74-26977* # c 33 ..... NASA-CASE-MFS-22133-1
US-PATENT-APPL-SN-337487
US-PATENT-CLASS-29-203MW
US-PATENT-3,815,205
N74-27035* # c 24 ..... NASA-CASE-XLA-11028-1
US-PATENT-APPL-SN-219435
US-PATENT-CLASS-156-285
US-PATENT-3,814,653
N74-27037* # c 27 ..... NASA-CASE-ARC-10304-2
US-PATENT-APPL-SN-140946
US-PATENT-APPL-SN-318358
US-PATENT-CLASS-102-105
US-PATENT-CLASS-106-15FP
US-PATENT-CLASS-252-62
US-PATENT-CLASS-252-8.1
US-PATENT-CLASS-260-DIG.24
US-PATENT-CLASS-260-2.5FP
US-PATENT-CLASS-260-2.5R
US-PATENT-CLASS-260-2R
US-PATENT-CLASS-260-396N
US-PATENT-3,819,550
N74-27360* # c 15 ..... NASA-CASE-LAR-10670-2
US-PATENT-APPL-SN-248761
US-PATENT-APPL-SN-59892
US-PATENT-CLASS-102-90
US-PATENT-CLASS-60-214
US-PATENT-CLASS-60-215
US-PATENT-CLASS-60-39.46
US-PATENT-3,813,875
N74-27397* # c 18 ..... NASA-CASE-MFS-21680-1
NASA-CASE-MFS-21681-1
US-PATENT-APPL-SN-343607
US-PATENT-CLASS-244-1SS
US-PATENT-CLASS-248-16
US-PATENT-CLASS-248-23
US-PATENT-3,814,350
N74-27425* # c 28 ..... NASA-CASE-NPO-11743-1
US-PATENT-APPL-SN-277904
US-PATENT-CLASS-102-28EB
US-PATENT-CLASS-102-70.2A
US-PATENT-CLASS-102-70.2R
US-PATENT-3,812,783
N74-27490* # c 07 ..... NASA-CASE-LEW-11286-1
US-PATENT-APPL-SN-339806
US-PATENT-CLASS-181-33HB
US-PATENT-CLASS-239-265.17
US-PATENT-3,820,630
N74-27519* # c 44 ..... NASA-CASE-MFS-20761-1
US-PATENT-APPL-SN-326327
US-PATENT-CLASS-136-182
US-PATENT-CLASS-324-29.5
US-PATENT-CLASS-324-72.5
US-PATENT-3,818,325
N74-27566* # c 52 ..... NASA-CASE-GSC-11531-1
US-PATENT-APPL-SN-291845
US-PATENT-CLASS-128-2.05E
US-PATENT-CLASS-73-398AR
US-PATENT-3,811,429
N74-27612* # c 32 ..... NASA-CASE-MSC-14219-1
US-PATENT-APPL-SN-324029
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US-PATENT-CLASS-156-94
US-PATENT-CLASS-179-100.2A
US-PATENT-CLASS-179-100.2B
US-PATENT-CLASS-264-36
US-PATENT-3,819,440
N74-27682* # c 33 ..... NASA-CASE-ARC-10593-1
US-PATENT-APPL-SN-310193
US-PATENT-CLASS-250-207
US-PATENT-CLASS-307-252L
US-PATENT-CLASS-307-252Q
US-PATENT-3,821,546
N74-27683* # c 33 ..... NASA-CASE-LEW-10950-1
US-PATENT-APPL-SN-273222
US-PATENT-CLASS-174-111
US-PATENT-CLASS-174-15C
US-PATENT-CLASS-174-28
US-PATENT-CLASS-310-4R
US-PATENT-3,821,462
N74-27705* # c 33 ..... NASA-CASE-MSC-14066-1
US-PATENT-APPL-SN-297127
US-PATENT-CLASS-178-88
US-PATENT-CLASS-325-320
US-PATENT-3,818,346
N74-27730* # c 34 ..... NASA-CASE-MFS-21424-1
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US-PATENT-CLASS-73-147
US-PATENT-CLASS-73-3
US-PATENT-3,817,082
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US-PATENT-APPL-SN-258171
US-PATENT-CLASS-204-180R
US-PATENT-CLASS-204-299
US-PATENT-3,821,102
N74-27859* # c 34 ..... NASA-CASE-GSC-11434-1
US-PATENT-APPL-SN-263498
US-PATENT-CLASS-73-190R
US-PATENT-3,813,937
N74-27860* # c 35 ..... NASA-CASE-MSC-14081-1
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US-PATENT-CLASS-250-576
US-PATENT-CLASS-356-180
US-PATENT-CLASS-356-246
US-PATENT-3,817,627
N74-27861* # c 34 ..... NASA-CASE-MFS-21108-1
US-PATENT-APPL-SN-307728
US-PATENT-CLASS-136-213
US-PATENT-CLASS-136-230
US-PATENT-CLASS-136-233
US-PATENT-3,819,419
N74-27862* # c 33 ..... NASA-CASE-KSC-10731-1
US-PATENT-APPL-SN-288847
US-PATENT-CLASS-324-72
US-PATENT-CLASS-340-151
US-PATENT-CLASS-340-182
US-PATENT-CLASS-340-200
US-PATENT-CLASS-73-170R
US-PATENT-3,820,095
N74-27864* # c 52 ..... NASA-CASE-MFS-21049-1
US-PATENT-APPL-SN-304430
US-PATENT-CLASS-128-2S
US-PATENT-CLASS-338-114
US-PATENT-CLASS-338-5
US-PATENT-CLASS-73-88.5R
US-PATENT-3,820,529
N74-27865* # c 35 ..... NASA-CASE-MFS-21728-1
US-PATENT-APPL-SN-361907
US-PATENT-CLASS-73-141A
US-PATENT-3,820,388
N74-27866* # c 74 ..... NASA-CASE-MFS-21372-1
US-PATENT-APPL-SN-226477
US-PATENT-CLASS-250-505
US-PATENT-CLASS-250-511
US-PATENT-3,821,556
N74-27872* # c 06 ..... NASA-CASE-ARC-10806
US-PATENT-APPL-SN-478802
N74-27900* # c 31 ..... NASA-CASE-LAR-10841-1
US-PATENT-APPL-SN-307729

US-PATENT-CLASS-13-31
US-PATENT-CLASS-73-15R
US-PATENT-3,817,084
N74-27901* # c 37 ..... NASA-CASE-ARC-10462-1
US-PATENT-APPL-SN-310615
US-PATENT-CLASS-74-675
US-PATENT-CLASS-74-710
US-PATENT-3,818,775
N74-27902* # c 31 ..... NASA-CASE-GSC-11445-1
US-PATENT-APPL-SN-248471
US-PATENT-CLASS-236-49
US-PATENT-CLASS-98-39
US-PATENT-3,818,814
N74-27903* # c 37 ..... NASA-CASE-MSC-12549-1
US-PATENT-APPL-SN-301039
US-PATENT-CLASS-244-1SD
US-PATENT-3,820,741
N74-27904* # c 37 ..... NASA-CASE-LEW-11672-1
US-PATENT-APPL-SN-305639
US-PATENT-CLASS-417-52
US-PATENT-3,819,299
N74-27905* # c 37 ..... NASA-CASE-LAR-10450-1
US-PATENT-APPL-SN-289017
US-PATENT-CLASS-51-225
US-PATENT-CLASS-51-234
US-PATENT-CLASS-51-97R
US-PATENT-3,820,286
N74-28097* # c 35 ..... NASA-CASE-GSC-11479-1
US-PATENT-APPL-SN-293739
US-PATENT-CLASS-244-1SA
US-PATENT-CLASS-74-5.5
US-PATENT-3,818,767
N74-28226* # c 07 ..... NASA-CASE-LEW-11402-1
US-PATENT-APPL-SN-219806
US-PATENT-CLASS-415-181
US-PATENT-CLASS-416-223
US-PATENT-CLASS-416-237
US-PATENT-3,820,918
N74-29410* # c 19 ..... NASA-CASE-MFS-21577-1
US-PATENT-APPL-SN-343308
US-PATENT-CLASS-250-372
US-PATENT-CLASS-250-394
US-PATENT-3,825,760
N74-29556* # c 33 ..... NASA-CASE-KSC-10769-1
US-PATENT-APPL-SN-374583
US-PATENT-CLASS-318-602
US-PATENT-CLASS-318-603
US-PATENT-CLASS-318-664
US-PATENT-3,826,964
N74-30001* # c 24 ..... NASA-CASE-LAR-10416-1
US-PATENT-APPL-SN-251752
US-PATENT-CLASS-156-94
US-PATENT-3,814,645
N74-30156* # c 75 ..... NASA-CASE-ARC-10598-1
US-PATENT-APPL-SN-318151
US-PATENT-CLASS-356-201
US-PATENT-CLASS-356-43
US-PATENT-CLASS-356-73
US-PATENT-CLASS-356-85
US-PATENT-CLASS-356-87
US-PATENT-3,817,622
N74-30421* # c 08 ..... NASA-CASE-LAR-10753-1
US-PATENT-APPL-SN-289018
US-PATENT-CLASS-244-327
US-PATENT-CLASS-244-90R
US-PATENT-CLASS-244-91
US-PATENT-3,826,448
N74-30502* # c 25 ..... NASA-CASE-LEW-10906-1
US-PATENT-APPL-SN-245279
US-PATENT-APPL-SN-876588
US-PATENT-CLASS-204-157.1H
US-PATENT-3,826,726
N74-30523* # c 32 ..... NASA-CASE-NPO-11921-1
US-PATENT-APPL-SN-359039
US-PATENT-CLASS-179-15BC
US-PATENT-CLASS-325-346
US-PATENT-3,828,138
N74-30524* # c 32 ..... NASA-CASE-MSC-13912-1
US-PATENT-APPL-SN-310034
US-PATENT-CLASS-179-15AT
US-PATENT-CLASS-179-15BY
US-PATENT-3,828,137
N74-30597* # c 09 ..... NASA-CASE-LAR-10550-1
US-PATENT-APPL-SN-261183
US-PATENT-CLASS-35-12E
US-PATENT-3,824,707
N74-30608* # c 34 ..... NASA-CASE-LAR-10194-1
US-PATENT-APPL-SN-169962
US-PATENT-CLASS-55-159
US-PATENT-CLASS-55-199
US-PATENT-CLASS-55-43
US-PATENT-3,828,524
N74-30886* # c 89 ..... NASA-CASE-GSC-11569-1
US-PATENT-APPL-SN-293725
US-PATENT-CLASS-250-203R
US-PATENT-CLASS-33-268
US-PATENT-CLASS-356-141
US-PATENT-CLASS-356-147
US-PATENT-3,827,807
N74-31148* # c 71 ..... NASA-CASE-NPO-11623-1
US-PATENT-APPL-SN-235338
US-PATENT-CLASS-181.5R
US-PATENT-CLASS-73-69
US-PATENT-CLASS-73-71.5R
US-PATENT-3,827,288
N74-31269* # c 20 ..... NASA-CASE-LEW-11646-1
US-PATENT-APPL-SN-292686
US-PATENT-CLASS-204-192
US-PATENT-3,826,729
N74-31270* # c 07 ..... NASA-CASE-LAR-10642-1
US-PATENT-APPL-SN-266820
US-PATENT-CLASS-137-15.1
US-PATENT-CLASS-415-181
US-PATENT-3,829,237
N74-32418* # c 07 ..... NASA-CASE-LAR-11141-1
US-PATENT-APPL-SN-359957
US-PATENT-CLASS-181-33C
US-PATENT-CLASS-181-33F
US-PATENT-CLASS-181-33H
US-PATENT-CLASS-181-33L
US-PATENT-CLASS-181-42
US-PATENT-3,830,335
N74-32546* # c 54 ..... NASA-CASE-MSC-11072
US-PATENT-APPL-SN-689455
US-PATENT-CLASS-156-218
US-PATENT-CLASS-2-2.1A
US-PATENT-CLASS-2-82
US-PATENT-3,832,735
N74-32598* # c 32 ..... NASA-CASE-MSC-14070-1
US-PATENT-APPL-SN-266940
US-PATENT-CLASS-340-146.1AQ
US-PATENT-3,831,142
N74-32660* # c 33 ..... NASA-CASE-GSC-11617-1
US-PATENT-APPL-SN-402865
US-PATENT-CLASS-330-4.9
US-PATENT-CLASS-330-53
US-PATENT-3,833,857
N74-32711* # c 33 ..... NASA-CASE-MSC-14130-1
US-PATENT-APPL-SN-373587
US-PATENT-CLASS-307-267
US-PATENT-CLASS-328-58
US-PATENT-3,831,098
N74-32712* # c 33 ..... NASA-CASE-NPO-11948-1
US-PATENT-APPL-SN-306652
US-PATENT-CLASS-307-230
US-PATENT-CLASS-330-69
US-PATENT-CLASS-333-80R
US-PATENT-3,831,117
N74-32877* # c 35 ..... NASA-CASE-LAR-10806-1
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US-PATENT-CLASS-33-1M
US-PATENT-CLASS-33-23R
US-PATENT-CLASS-338-89
US-PATENT-CLASS-340-347AD
US-PATENT-CLASS-346-33R
US-PATENT-3,832,781
N74-32878* # c 35 ..... NASA-CASE-LAR-11139-1
US-PATENT-APPL-SN-287149
US-PATENT-CLASS-73-182
US-PATENT-CLASS-73-388
US-PATENT-3,832,903
N74-32879* # c 35 ..... NASA-CASE-MSC-14187-1
US-PATENT-APPL-SN-326326
US-PATENT-CLASS-23-230L
US-PATENT-CLASS-73-104
US-PATENT-CLASS-73-15.4
US-PATENT-CLASS-73-40.7
US-PATENT-3,830,094
N74-32917* # c 31 ..... NASA-CASE-NPO-13205-1
US-PATENT-APPL-SN-393525
US-PATENT-CLASS-425-28B
US-PATENT-CLASS-425-35
US-PATENT-3,833,322
N74-32918* # c 37 ..... NASA-CASE-NPO-13157-1
US-PATENT-APPL-SN-370872
US-PATENT-CLASS-29-203H
US-PATENT-CLASS-29-268
US-PATENT-3,832,764
N74-32919* # c 20 ..... NASA-CASE-LEW-11118-1
US-PATENT-APPL-SN-289050
US-PATENT-CLASS-204-9
US-PATENT-3,832,290
N74-32920* # c 31 ..... NASA-CASE-LAR-10489-2
US-PATENT-APPL-SN-198763
US-PATENT-APPL-SN-350300
US-PATENT-CLASS-249-145
US-PATENT-CLASS-249-184
US-PATENT-CLASS-249-83
US-PATENT-CLASS-249-95
US-PATENT-CLASS-425-128
US-PATENT-CLASS-425-415
US-PATENT-3,830,609
N74-32921* # c 37 ..... NASA-CASE-LEW-11076-2
US-PATENT-APPL-SN-238264
US-PATENT-APPL-SN-346483
US-PATENT-CLASS-308-121
US-PATENT-3,830,552
N74-33209* # c 28 ..... NASA-CASE-NPO-11975-1
US-PATENT-APPL-SN-329243
US-PATENT-CLASS-149-17
US-PATENT-CLASS-149-60
US-PATENT-CLASS-149-76
US-PATENT-3,830,673
N74-33218* # c 07 ..... NASA-CASE-ARC-10712-1
US-PATENT-APPL-SN-344410
US-PATENT-CLASS-181-33HC
US-PATENT-CLASS-239-265.11
US-PATENT-3,830,431
N74-33378* # c 25 ..... NASA-CASE-MFS-21675-1
US-PATENT-APPL-SN-392823
US-PATENT-CLASS-23-277C
US-PATENT-CLASS-431-202
US-PATENT-3,833,336
N74-33379* # c 44 ..... NASA-CASE-ARC-10461-1
US-PATENT-APPL-SN-336319
US-PATENT-CLASS-60-527
US-PATENT-3,830,060
N74-34638* # c 33 ..... NASA-CASE-MFS-22343-1
US-PATENT-APPL-SN-329237
US-PATENT-CLASS-307-18
US-PATENT-CLASS-307-295
US-PATENT-CLASS-307-304
US-PATENT-CLASS-307-35
US-PATENT-3,840,829
N74-34672* # c 85 ..... NASA-CASE-LAR-10256-1
US-PATENT-APPL-SN-220785
US-PATENT-CLASS-104-138R
US-PATENT-CLASS-104-23FS
US-PATENT-CLASS-238-134
US-PATENT-3,837,285
N74-34857* # c 35 ..... NASA-CASE-LAR-11428-1
US-PATENT-APPL-SN-188836
US-PATENT-APPL-SN-357126
US-PATENT-CLASS-250-281
US-PATENT-CLASS-250-295
US-PATENT-3,835,318
N75-12086* # c 25 ..... NASA-CASE-ARC-10469-1
US-PATENT-APPL-SN-281908
US-PATENT-CLASS-195-103.5R
US-PATENT-3,846,243
N75-12087* # c 25 ..... NASA-CASE-ARC-10643-1
US-PATENT-APPL-SN-513389
US-PATENT-CLASS-117-161UA
US-PATENT-CLASS-117-161UN
US-PATENT-CLASS-117-161UZ
US-PATENT-CLASS-117-93.1GD
US-PATENT-CLASS-204-177
US-PATENT-CLASS-210-500
US-PATENT-CLASS-264-217
US-PATENT-CLASS-264-22
US-PATENT-3,847,652
N75-12161* # c 31 ..... NASA-CASE-MFS-20775-1
US-PATENT-APPL-SN-356664
US-PATENT-CLASS-118-49.1
US-PATENT-3,847,115
N75-12222* # c 34 ..... NASA-CASE-GSC-11619-1
US-PATENT-APPL-SN-397476
US-PATENT-CLASS-138-113
US-PATENT-CLASS-138-114
US-PATENT-CLASS-138-148
US-PATENT-CLASS-165-1
US-PATENT-CLASS-165-105
US-PATENT-CLASS-165-47
US-PATENT-CLASS-220-15
US-PATENT-CLASS-244-1SC
US-PATENT-3,847,208
N75-12270* # c 35 ..... NASA-CASE-KSC-10750-1
US-PATENT-APPL-SN-346372
US-PATENT-CLASS-324-158T
US-PATENT-CLASS-324-60C
US-PATENT-3,848,190
N75-12271* # c 35 ..... NASA-CASE-MFS-20994-1
US-PATENT-APPL-SN-386789
US-PATENT-CLASS-128-2V
US-PATENT-CLASS-73-67.1
US-PATENT-3,847,141
N75-12272* # c 35 ..... NASA-CASE-LAR-11069-1
US-PATENT-APPL-SN-326198
US-PATENT-CLASS-195-127
US-PATENT-3,841,973
N75-12273* # c 35 ..... NASA-CASE-MFS-20506-1
US-PATENT-APPL-SN-328792
US-PATENT-CLASS-33-DIG.13
US-PATENT-CLASS-33-180R
US-PATENT-CLASS-350-292
US-PATENT-3,842,509
N75-12326* # c 37 ..... NASA-CASE-LAR-11211-1
US-PATENT-APPL-SN-302681

US-PATENT-CLASS-29-470.1
US-PATENT-CLASS-29-475
US-PATENT-3,842,485

N75-12616* # c 54 ..... NASA-CASE-MFS-21611-1
US-PATENT-APPL-SN-403694
US-PATENT-CLASS-214-1CM
US-PATENT-CLASS-307-149
US-PATENT-CLASS-308-174
US-PATENT-3,849,668

N75-12732* # c 74 ..... NASA-CASE-ARC-10448-2
US-PATENT-APPL-SN-374424
US-PATENT-CLASS-156-16
US-PATENT-CLASS-156-18
US-PATENT-CLASS-156-7
US-PATENT-CLASS-250-495
US-PATENT-3,847,689

N75-12810* # c 76 ..... NASA-CASE-LAR-11059-1
US-PATENT-APPL-SN-367294
US-PATENT-CLASS-73-32R
US-PATENT-CLASS-73-432PS
US-PATENT-3,842,656

N75-12930* # c 05 ..... NASA-CASE-ARC-10456-1
US-PATENT-APPL-SN-237491
US-PATENT-CLASS-244-75R
US-PATENT-CLASS-244-83R
US-PATENT-CLASS-416-25
US-PATENT-CLASS-74-480R
US-PATENT-3,850,388

N75-12968* # c 09 ..... NASA-CASE-MFS-22039-1
US-PATENT-APPL-SN-386790
US-PATENT-CLASS-108-136
US-PATENT-3,853,075

N75-12969* # c 09 ..... NASA-CASE-ARC-10710-1
US-PATENT-APPL-SN-379019
US-PATENT-CLASS-73-147
US-PATENT-3,853,003

N75-13007* # c 15 ..... NASA-CASE-GSC-11182-1
US-PATENT-APPL-SN-393527
US-PATENT-CLASS-325-4
US-PATENT-3,851,250

N75-13032* # c 24 ..... NASA-CASE-LAR-10994-1
US-PATENT-APPL-SN-390466
US-PATENT-CLASS-29-420
US-PATENT-CLASS-29-604
US-PATENT-CLASS-340-174MA
US-PATENT-CLASS-75-200
US-PATENT-3,849,877

N75-13111* # c 31 ..... NASA-CASE-LAR-10782-2
US-PATENT-APPL-SN-197689
US-PATENT-APPL-SN-379049
US-PATENT-CLASS-249-144
US-PATENT-CLASS-249-145
US-PATENT-CLASS-249-59
US-PATENT-CLASS-425-DIG.43
US-PATENT-CLASS-425-405R
US-PATENT-CLASS-425-438
US-PATENT-CLASS-425-468
US-PATENT-3,850,567

N75-13139* # c 33 ..... NASA-CASE-MFS-22073-1
US-PATENT-APPL-SN-409991
US-PATENT-CLASS-318-608
US-PATENT-CLASS-318-640
US-PATENT-CLASS-318-649
US-PATENT-CLASS-318-675
US-PATENT-3,851,238

N75-13213* # c 35 ..... NASA-CASE-LEW-11632-2
US-PATENT-APPL-SN-254173
US-PATENT-APPL-SN-327969
US-PATENT-CLASS-29-571
US-PATENT-CLASS-29-592
US-PATENT-CLASS-307-309
US-PATENT-CLASS-317-235H
US-PATENT-CLASS-330-6
US-PATENT-3,849,875

N75-13261* # c 37 ..... NASA-CASE-LEW-11696-1
US-PATENT-APPL-SN-298156
US-PATENT-CLASS-29-196.6
US-PATENT-CLASS-29-197
US-PATENT-CLASS-29-460
US-PATENT-CLASS-29-494
US-PATENT-CLASS-29-497.5
US-PATENT-CLASS-29-504
US-PATENT-3,849,865

N75-13265* # c 37 ..... NASA-CASE-KSC-10723-1
US-PATENT-APPL-SN-347952
US-PATENT-CLASS-338-162
US-PATENT-CLASS-338-75
US-PATENT-CLASS-338-97
US-PATENT-3,854,113

N75-13266* # c 37 ..... NASA-CASE-NPO-13281-1
US-PATENT-APPL-SN-412079
US-PATENT-CLASS-74-436
US-PATENT-CLASS-74-820
US-PATENT-3,855,873

N75-13502* # c 51 ..... NASA-CASE-LAR-11074-1
US-PATENT-APPL-SN-326364
US-PATENT-CLASS-115-103.5
US-PATENT-CLASS-195-120
US-PATENT-CLASS-195-127
US-PATENT-3,850,754

N75-13531* # c 54 ..... NASA-CASE-LEW-11581-1
US-PATENT-APPL-SN-327921
US-PATENT-CLASS-128-2.05A
US-PATENT-CLASS-128-2.05P
US-PATENT-3,850,169

N75-13539* # c 60 ..... NASA-CASE-ARC-10466-1
US-PATENT-APPL-SN-352382
US-PATENT-CLASS-235-156
US-PATENT-CLASS-235-197
US-PATENT-CLASS-324-77B
US-PATENT-3,851,162

N75-13625* # c 75 ..... NASA-CASE-MFS-22145-1
US-PATENT-APPL-SN-367606
US-PATENT-CLASS-176-3
US-PATENT-CLASS-313-63
US-PATENT-CLASS-315-111
US-PATENT-CLASS-328-233
US-PATENT-3,854,097

N75-14834* # c 23 ..... NASA-CASE-MSC-13530-2
US-PATENT-APPL-SN-178771
US-PATENT-APPL-SN-69488
US-PATENT-CLASS-106-13
US-PATENT-CLASS-106-15R
US-PATENT-CLASS-106-287SB
US-PATENT-CLASS-117-124F
US-PATENT-CLASS-117-135.5
US-PATENT-CLASS-252-549
US-PATENT-CLASS-252-70
US-PATENT-3,856,534

N75-14844* # c 25 ..... NASA-CASE-NPO-12130-1
US-PATENT-APPL-SN-750235
US-PATENT-CLASS-23-230B
US-PATENT-CLASS-23-253R
US-PATENT-3,856,471

N75-14957* # c 33 ..... NASA-CASE-MSC-14240-1
US-PATENT-APPL-SN-351929
US-PATENT-CLASS-307-205
US-PATENT-CLASS-307-208
US-PATENT-3,857,045

N75-15014* # c 35 ..... NASA-CASE-LAR-11213-1
US-PATENT-APPL-SN-406715
US-PATENT-CLASS-250-201
US-PATENT-CLASS-356-4
US-PATENT-3,857,031

N75-15028* # c 36 ..... NASA-CASE-MFS-21244-1
US-PATENT-APPL-SN-350249
US-PATENT-CLASS-356-103
US-PATENT-CLASS-356-28
US-PATENT-CLASS-356-5
US-PATENT-3,856,402

N75-15029* # c 36 ..... NASA-CASE-NPO-13050-1
US-PATENT-APPL-SN-317567
US-PATENT-CLASS-117-95
US-PATENT-CLASS-117-97
US-PATENT-CLASS-330-4
US-PATENT-CLASS-332-7.5
US-PATENT-3,859,119

N75-15050* # c 37 ..... NASA-CASE-NPO-13201-1
US-PATENT-APPL-SN-372149
US-PATENT-CLASS-137-505.38
US-PATENT-CLASS-137-505.42
US-PATENT-CLASS-74-424.8VA
US-PATENT-3,856,042

N75-15270* # c 52 ..... NASA-CASE-NPO-12119-1
US-PATENT-APPL-SN-847815
US-PATENT-CLASS-424-180
US-PATENT-3,849,554

N75-15662* # c 09 ..... NASA-CASE-LAR-10276-1
US-PATENT-APPL-SN-29979
US-PATENT-CLASS-272-1R
US-PATENT-CLASS-272-57A
US-PATENT-CLASS-35-12C
US-PATENT-3,859,736

N75-15854* # c 32 ..... NASA-CASE-NPO-13292-1
US-PATENT-APPL-SN-416135
US-PATENT-CLASS-343-100ST
US-PATENT-CLASS-343-17.5
US-PATENT-CLASS-343-6.5R
US-PATENT-CLASS-343-9
US-PATENT-3,860,921

N75-15874* # c 33 ..... NASA-CASE-MFS-22088-1
US-PATENT-APPL-SN-426155
US-PATENT-CLASS-318-227
US-PATENT-CLASS-318-230
US-PATENT-CLASS-318-231
US-PATENT-3,860,858

N75-15931* # c 35 ..... NASA-CASE-MFS-21761-1
US-PATENT-APPL-SN-337816
US-PATENT-CLASS-200-83N
US-PATENT-CLASS-73-40
US-PATENT-CLASS-73-49.2
US-PATENT-3,859,845

N75-15932* # c 35 ..... NASA-CASE-MFS-21045-1
US-PATENT-APPL-SN-411572
US-PATENT-CLASS-73-1R
US-PATENT-CLASS-73-379
US-PATENT-3,859,840

N75-15992* # c 37 ..... NASA-CASE-GSC-11577-1
US-PATENT-APPL-SN-322997
US-PATENT-CLASS-117-106A
US-PATENT-CLASS-117-93.3
US-PATENT-CLASS-156-89
US-PATENT-CLASS-156-99
US-PATENT-CLASS-29-472.7
US-PATENT-CLASS-29-473.1
US-PATENT-CLASS-65-43
US-PATENT-3,859,714

N75-16783* # c 35 ..... NASA-CASE-ARC-10637-1
US-PATENT-APPL-SN-352383
US-PATENT-CLASS-356-28
US-PATENT-3,860,342

N75-18310* # c 20 ..... NASA-CASE-LEW-11694-1
US-PATENT-APPL-SN-352381
US-PATENT-CLASS-29-25.18
US-PATENT-CLASS-72-63
US-PATENT-3,864,797

N75-18477* # c 33 ..... NASA-CASE-MFS-22129-1
US-PATENT-APPL-SN-370255
US-PATENT-CLASS-324-32
US-PATENT-CLASS-324-54
US-PATENT-3,866,114

N75-18479* # c 33 ..... NASA-CASE-MSC-14129-1
US-PATENT-APPL-SN-362146
US-PATENT-CLASS-307-229
US-PATENT-CLASS-307-235R
US-PATENT-CLASS-307-267
US-PATENT-CLASS-328-115
US-PATENT-CLASS-328-151
US-PATENT-CLASS-328-58
US-PATENT-3,869,624

N75-18573* # c 37 ..... NASA-CASE-NPO-13253-1
US-PATENT-APPL-SN-395687
US-PATENT-CLASS-248-358R
US-PATENT-3,863,881

N75-18574* # c 37 ..... NASA-CASE-GSC-11079-1
US-PATENT-APPL-SN-100637
US-PATENT-CLASS-308-10
US-PATENT-3,865,442

N75-19329* # c 18 ..... NASA-CASE-MFS-22734-1
US-PATENT-APPL-SN-453232
US-PATENT-CLASS-244-162
US-PATENT-3,866,863

N75-19408* # c 26 ..... NASA-CASE-LEW-11696-2
US-PATENT-APPL-SN-298156
US-PATENT-APPL-SN-436315
US-PATENT-CLASS-29-194
US-PATENT-CLASS-29-196.2
US-PATENT-CLASS-29-196.6
US-PATENT-CLASS-29-197
US-PATENT-3,869,779

N75-19515* # c 33 ..... NASA-CASE-MSC-14131-1
US-PATENT-APPL-SN-373588
US-PATENT-CLASS-307-260
US-PATENT-CLASS-324-78J
US-PATENT-CLASS-328-59
US-PATENT-CLASS-331-78
US-PATENT-3,866,128

N75-19516* # c 33 ..... NASA-CASE-GSC-11760-1
NASA-CASE-GSC-11783-1
US-PATENT-APPL-SN-395868
US-PATENT-CLASS-343-761
US-PATENT-CLASS-343-781
US-PATENT-CLASS-343-837
US-PATENT-3,866,233

N75-19517* # c 33 ..... NASA-CASE-GSC-11582-1
US-PATENT-APPL-SN-397477
US-PATENT-CLASS-178-15
US-PATENT-CLASS-315-18
US-PATENT-CLASS-340-324AD
US-PATENT-3,866,210

N75-19518* # c 33 ..... NASA-CASE-ARC-10348-1
US-PATENT-APPL-SN-140439
US-PATENT-CLASS-330-69
US-PATENT-CLASS-330-86
US-PATENT-3,872,395

N75-19519* # c 33 ..... NASA-CASE-NPO-13125-1
US-PATENT-APPL-SN-319150
US-PATENT-CLASS-235-92DM
US-PATENT-CLASS-235-92LG
US-PATENT-CLASS-235-92R
US-PATENT-CLASS-235-92T
US-PATENT-CLASS-235-92VA
US-PATENT-3,866,022

N75-19520* # c 33 ..... NASA-CASE-ARC-10364-3
US-PATENT-APPL-SN-209618
US-PATENT-APPL-SN-462844
US-PATENT-CLASS-307-321
US-PATENT-CLASS-324-DIG.1

US-PATENT-CLASS-329-166
US-PATENT-CLASS-329-204
US-PATENT-CLASS-332-47
US-PATENT-3,869,676

N75-19521* # c 33 ..... NASA-CASE-KSC-10736-1
US-PATENT-APPL-SN-348787
US-PATENT-CLASS-324-102
US-PATENT-CLASS-324-113
US-PATENT-3,869,667

N75-19522* # c 33 ..... NASA-CASE-GSC-11844-1
US-PATENT-APPL-SN-452761
US-PATENT-CLASS-307-227
US-PATENT-CLASS-321-15
US-PATENT-CLASS-324-32
US-PATENT-3,869,659

N75-19524* # c 33 ..... NASA-CASE-NPO-13374-1
US-PATENT-APPL-SN-449118
US-PATENT-CLASS-318-137
US-PATENT-CLASS-318-167
US-PATENT-CLASS-318-176
US-PATENT-CLASS-318-183
US-PATENT-3,867,677

N75-19611* # c 35 ..... NASA-CASE-LAR-11071-1
US-PATENT-APPL-SN-334349
US-PATENT-CLASS-417-138
US-PATENT-CLASS-417-36
US-PATENT-CLASS-417-395
US-PATENT-CLASS-73-221
US-PATENT-3,864,060

N75-19612* # c 35 ..... NASA-CASE-LAR-11237-1
US-PATENT-APPL-SN-402868
US-PATENT-CLASS-340-242
US-PATENT-CLASS-73-46
US-PATENT-CLASS-73-49.2
US-PATENT-3,864,960

N75-19613* # c 35 ..... NASA-CASE-LAR-11207-1
US-PATENT-APPL-SN-385013
US-PATENT-CLASS-178-DIG.20
US-PATENT-CLASS-250-332
US-PATENT-CLASS-356-186
US-PATENT-CLASS-356-189
US-PATENT-CLASS-356-83
US-PATENT-CLASS-356-96
US-PATENT-3,869,212

N75-19614* # c 35 ..... NASA-CASE-LAR-11173-1
US-PATENT-APPL-SN-354408
US-PATENT-CLASS-332-2
US-PATENT-CLASS-73-557
US-PATENT-3,868,856

N75-19615* # c 35 ..... NASA-CASE-MFS-22189-1
US-PATENT-APPL-SN-405342
US-PATENT-CLASS-33-148D
US-PATENT-CLASS-73-143
US-PATENT-3,864,953

N75-19616* # c 35 ..... NASA-CASE-MFS-20932-1
US-PATENT-APPL-SN-374441
US-PATENT-CLASS-250-505
US-PATENT-CLASS-250-508
US-PATENT-CLASS-250-510
US-PATENT-3,869,615

N75-19652* # c 36 ..... NASA-CASE-NPO-13131-1
US-PATENT-APPL-SN-390468
US-PATENT-CLASS-178-7.1
US-PATENT-CLASS-250-211R
US-PATENT-CLASS-250-578
US-PATENT-CLASS-315-169R
US-PATENT-CLASS-340-173LS
US-PATENT-3,865,975

N75-19653* # c 36 ..... NASA-CASE-HQN-10844-1
US-PATENT-APPL-SN-412080
US-PATENT-CLASS-356-106LR
US-PATENT-3,869,210

N75-19654* # c 36 ..... NASA-CASE-GSC-11746-1
US-PATENT-APPL-SN-393528
US-PATENT-CLASS-331-94.5M
US-PATENT-3,869,680

N75-19655* # c 36 ..... NASA-CASE-LAR-11341-1
US-PATENT-APPL-SN-367293
US-PATENT-CLASS-330-4.3
US-PATENT-CLASS-331-94.5P
US-PATENT-3,868,591

N75-19683* # c 37 ..... NASA-CASE-MSC-19095-1
US-PATENT-APPL-SN-415486
US-PATENT-CLASS-219-137
US-PATENT-3,864,542

N75-19684* # c 37 ..... NASA-CASE-NPO-13345-1
US-PATENT-APPL-SN-462705
US-PATENT-CLASS-204-192
US-PATENT-CLASS-204-298
US-PATENT-3,864,239

N75-19685* # c 37 ..... NASA-CASE-MFS-21606-1
US-PATENT-APPL-SN-356555
US-PATENT-CLASS-292-DIG.14
US-PATENT-CLASS-292-108
US-PATENT-CLASS-292-122
US-PATENT-3,869,160

N75-19686* # c 37 ..... NASA-CASE-MFS-19193-1
US-PATENT-APPL-SN-461477
US-PATENT-CLASS-285-114
US-PATENT-CLASS-285-226
US-PATENT-3,869,151

N75-20139* # c 77 ..... NASA-CASE-MSC-14143-1
US-PATENT-APPL-SN-393526
US-PATENT-CLASS-165-110
US-PATENT-CLASS-165-111
US-PATENT-CLASS-62-285
US-PATENT-CLASS-62-288
US-PATENT-CLASS-62-289
US-PATENT-CLASS-62-290
US-PATENT-CLASS-62-317
US-PATENT-CLASS-62-93
US-PATENT-3,868,830

N75-20140* # c 77 ..... NASA-CASE-GSC-11752-1
US-PATENT-APPL-SN-446569
US-PATENT-CLASS-219-497
US-PATENT-CLASS-219-501
US-PATENT-CLASS-219-505
US-PATENT-3,869,597

N75-21485* # c 32 ..... NASA-CASE-MSC-12607-1
US-PATENT-APPL-SN-407323
US-PATENT-CLASS-178-DIG.12
US-PATENT-CLASS-358-36
US-PATENT-3,875,584

N75-21486* # c 32 ..... NASA-CASE-MSC-14558-1
US-PATENT-APPL-SN-428994
US-PATENT-CLASS-178-58A
US-PATENT-CLASS-178-79
US-PATENT-3,875,332

N75-21582* # c 35 ..... NASA-CASE-MFS-22671-1
US-PATENT-APPL-SN-419831
US-PATENT-CLASS-178-69A
US-PATENT-CLASS-235-181
US-PATENT-CLASS-324-57PS
US-PATENT-CLASS-324-77H
US-PATENT-CLASS-325-67
US-PATENT-3,875,500

N75-21631* # c 37 ..... NASA-CASE-LEW-11274-1
US-PATENT-APPL-SN-380630
US-PATENT-CLASS-277-134
US-PATENT-CLASS-277-27
US-PATENT-CLASS-277-40
US-PATENT-3,874,677

N75-23910* # c 35 ..... NASA-CASE-NPO-13327-1
US-PATENT-APPL-SN-429437
US-PATENT-CLASS-247-171
US-PATENT-CLASS-250-203
US-PATENT-CLASS-250-211R
US-PATENT-3,875,404

N75-24716* # c 05 ..... NASA-CASE-MSC-14339-1
US-PATENT-APPL-SN-347953
US-PATENT-CLASS-128.2.06E
US-PATENT-CLASS-128-DIG.4
US-PATENT-CLASS-128.2.06B
US-PATENT-3,882,846

N75-24736* # c 07 ..... NASA-CASE-ARC-10754-1
US-PATENT-APPL-SN-398886
US-PATENT-CLASS-137-15.1
US-PATENT-CLASS-244-53B
US-PATENT-3,883,095

N75-24758* # c 09 ..... NASA-CASE-GSC-11127-1
US-PATENT-APPL-SN-401466
US-PATENT-CLASS-318-314
US-PATENT-CLASS-318-318
US-PATENT-CLASS-318-341
US-PATENT-3,883,785

N75-24774* # c 12 ..... NASA-CASE-NPO-13263-1
US-PATENT-APPL-SN-393523
US-PATENT-CLASS-73-505
US-PATENT-3,882,732

N75-24794* # c 14 ..... NASA-CASE-MFS-21488-1
US-PATENT-APPL-SN-359156
US-PATENT-CLASS-73-143
US-PATENT-3,882,719

N75-24837* # c 20 ..... NASA-CASE-NPO-13303-1
US-PATENT-APPL-SN-457295
US-PATENT-CLASS-310-10
US-PATENT-CLASS-310-4
US-PATENT-CLASS-310-40
US-PATENT-CLASS-310-52
US-PATENT-CLASS-335-216
US-PATENT-CLASS-60-516
US-PATENT-CLASS-60-530
US-PATENT-CLASS-62-3
US-PATENT-CLASS-62-467
US-PATENT-3,875,435

N75-24981* # c 32 ..... NASA-CASE-GSC-11743-1
US-PATENT-APPL-SN-370271
US-PATENT-CLASS-178-66R
US-PATENT-CLASS-325-30
US-PATENT-CLASS-325-60
US-PATENT-3,878,464

N75-24982* # c 32 ..... NASA-CASE-NPO-13140-1
US-PATENT-APPL-SN-374422
US-PATENT-CLASS-343-100PE
US-PATENT-CLASS-343-5GC
US-PATENT-3,883,872

N75-25040* # c 33 ..... NASA-CASE-GSC-11623-1
US-PATENT-APPL-SN-389929
US-PATENT-CLASS-331-1A
US-PATENT-CLASS-331-18
US-PATENT-CLASS-331-25
US-PATENT-3,883,817

N75-25041* # c 33 ..... NASA-CASE-ARC-10364-2
US-PATENT-APPL-SN-209618
US-PATENT-APPL-SN-433968
US-PATENT-CLASS-307-321
US-PATENT-CLASS-324-DIG.1
US-PATENT-CLASS-329-166
US-PATENT-CLASS-329-204
US-PATENT-3,883,812

N75-25122* # c 35 ..... NASA-CASE-NPO-10764-2
US-PATENT-APPL-SN-273519
US-PATENT-APPL-SN-836280
US-PATENT-CLASS-116-114.5
US-PATENT-CLASS-117-72
US-PATENT-CLASS-73-356
US-PATENT-3,874,240

N75-25123* # c 35 ..... NASA-CASE-NPO-13214-1
NASA-CASE-NPO-13215-1
US-PATENT-APPL-SN-394149
US-PATENT-CLASS-178-DIG.29
US-PATENT-CLASS-178-7.2
US-PATENT-3,883,689

N75-25124* # c 35 ..... NASA-CASE-MFS-21704-1
US-PATENT-APPL-SN-386793
US-PATENT-CLASS-350-3.5
US-PATENT-3,883,215

N75-25185* # c 37 ..... NASA-CASE-NPO-13360-1
US-PATENT-APPL-SN-401920
US-PATENT-CLASS-228-1
US-PATENT-CLASS-251-333
US-PATENT-3,874,635

N75-25186* # c 37 ..... NASA-CASE-MFS-22649-1
US-PATENT-APPL-SN-398901
US-PATENT-CLASS-408-112
US-PATENT-CLASS-408-186
US-PATENT-CLASS-408-193
US-PATENT-CLASS-408-195
US-PATENT-3,877,833

N75-25503* # c 51 ..... NASA-CASE-ARC-10722-1
US-PATENT-APPL-SN-428995
US-PATENT-CLASS-47-1.2
US-PATENT-CLASS-47-39
US-PATENT-CLASS-47-58
US-PATENT-3,882,634

N75-25706* # c 74 ..... NASA-CASE-HQN-10542-1
US-PATENT-APPL-SN-163151
US-PATENT-CLASS-178-DIG.25
US-PATENT-CLASS-250-566
US-PATENT-CLASS-350-311
US-PATENT-3,883,436

N75-25730* # c 76 ..... NASA-CASE-GSC-11425-2
US-PATENT-APPL-SN-206266
US-PATENT-APPL-SN-394206
US-PATENT-CLASS-357-23
US-PATENT-CLASS-357-29
US-PATENT-CLASS-357-42
US-PATENT-CLASS-357-52
US-PATENT-CLASS-357-54
US-PATENT-CLASS-357-91
US-PATENT-3,882,530

N75-25914* # c 05 ..... NASA-CASE-LAR-11252-1
US-PATENT-APPL-SN-367268
US-PATENT-CLASS-D12-76
US-PATENT-CLASS-244-13
US-PATENT-CLASS-244-15
US-PATENT-CLASS-244-42DA
US-PATENT-CLASS-244-55
US-PATENT-3,884,432

N75-25915* # c 05 ..... NASA-CASE-ARC-10519-2
US-PATENT-APPL-SN-452767
US-PATENT-CLASS-280-150SB
US-PATENT-CLASS-297-385
US-PATENT-CLASS-297-388
US-PATENT-CLASS-297-389
US-PATENT-3,887,233

N75-26043* # c 25 ..... NASA-CASE-LAR-11144-1
US-PATENT-APPL-SN-426405
US-PATENT-CLASS-117-106A
US-PATENT-CLASS-117-107.2
US-PATENT-CLASS-117-201
US-PATENT-CLASS-118-48
US-PATENT-CLASS-118-49.1
US-PATENT-CLASS-148-175
US-PATENT-CLASS-252-62.3GA
US-PATENT-3,888,705

N75-26194* # c 32 ..... NASA-CASE-NPO-13217-1
US-PATENT-APPL-SN-362145

US-PATENT-CLASS-343-105R
US-PATENT-CLASS-343-112D
US-PATENT-3,889,264
N75-26195* # c 32 ..... NASA-CASE-NPO-13321-1
US-PATENT-APPL-SN-455163
US-PATENT-CLASS-178-69.5R
US-PATENT-CLASS-179-15BS
US-PATENT-CLASS-325-4
US-PATENT-3,889,064
N75-26243* # c 33 ..... NASA-CASE-GSC-11744-1
US-PATENT-APPL-SN-353162
US-PATENT-CLASS-179-15BC
US-PATENT-CLASS-235-150.53
US-PATENT-CLASS-235-181
US-PATENT-CLASS-324-83Q
US-PATENT-CLASS-328-133
US-PATENT-3,875,394
N75-26244* # c 33 ..... NASA-CASE-MFS-22208-1
US-PATENT-APPL-SN-448325
US-PATENT-CLASS-315-10
US-PATENT-CLASS-315-367
US-PATENT-CLASS-315-369
US-PATENT-CLASS-315-387
US-PATENT-3,889,155
N75-26245* # c 33 ..... NASA-CASE-LAR-11352-1
US-PATENT-APPL-SN-459736
US-PATENT-CLASS-23-254E
US-PATENT-CLASS-324-58.5A
US-PATENT-CLASS-324-58.5C
US-PATENT-3,889,182
N75-26246* # c 33 ..... NASA-CASE-KSC-10807-1
US-PATENT-APPL-SN-461073
US-PATENT-CLASS-324-72
US-PATENT-3,889,185
N75-26282* # c 34 ..... NASA-CASE-LAR-11110-1
US-PATENT-APPL-SN-420424
US-PATENT-CLASS-233-DIG.1
US-PATENT-CLASS-233-20RP
US-PATENT-CLASS-233-25
US-PATENT-CLASS-233-46
US-PATENT-CLASS-233-6
US-PATENT-3,888,410
N75-26334* # c 35 ..... NASA-CASE-ARC-10344-2
US-PATENT-APPL-SN-446564
US-PATENT-CLASS-55-386
US-PATENT-3,887,345
N75-26371* # c 37 ..... NASA-CASE-GSC-10984-1
US-PATENT-APPL-SN-127480
US-PATENT-CLASS-117-126GM
US-PATENT-CLASS-117-126R
US-PATENT-CLASS-161-92
US-PATENT-CLASS-161-93
US-PATENT-CLASS-29-182.2
US-PATENT-CLASS-29-182.5
US-PATENT-CLASS-29-420.5
US-PATENT-CLASS-65-3
US-PATENT-CLASS-75-DIG.1
US-PATENT-CLASS-75-200
US-PATENT-CLASS-75-208R
US-PATENT-CLASS-75-212
US-PATENT-CLASS-75-214
US-PATENT-CLASS-75-222
US-PATENT-3,887,365
N75-26372* # c 37 ..... NASA-CASE-MFS-21931-1
US-PATENT-APPL-SN-464721
US-PATENT-CLASS-250-359
US-PATENT-CLASS-250-460
US-PATENT-CLASS-250-492
US-PATENT-3,889,122
N75-26789* # c 70 ..... NASA-CASE-MFS-22758-1
US-PATENT-APPL-SN-581514
N75-27040* # c 18 ..... NASA-CASE-XHQ-02146
US-PATENT-APPL-SN-290043
US-PATENT-CLASS-52-71
US-PATENT-3,206,897
N75-27041* # c 18 ..... NASA-CASE-MSC-14245-1
US-PATENT-APPL-SN-389916
US-PATENT-CLASS-214-1CM
US-PATENT-3,893,573
N75-27125* # c 26 ..... NASA-CASE-XMF-05868
US-PATENT-APPL-SN-512509
US-PATENT-CLASS-260-29.6
US-PATENT-3,475,442
N75-27126* # c 26 ..... NASA-CASE-XMF-06053
US-PATENT-APPL-SN-542192
US-PATENT-CLASS-75-173
US-PATENT-3,411,900
N75-27127* # c 26 ..... NASA-CASE-XNP-03878
US-PATENT-APPL-SN-488745
US-PATENT-CLASS-75-173
US-PATENT-3,373,016
N75-27160* # c 27 ..... NASA-CASE-MFS-22324-1
US-PATENT-APPL-SN-350250
US-PATENT-CLASS-106-48
US-PATENT-CLASS-106-54
US-PATENT-CLASS-117-129
US-PATENT-3,891,452
N75-27249* # c 33 ..... NASA-CASE-XMS-02744
US-PATENT-APPL-SN-351950
US-PATENT-CLASS-200-129
US-PATENT-3,281,558
N75-27250* # c 33 ..... NASA-CASE-XNP-01296
US-PATENT-APPL-SN-127984
US-PATENT-CLASS-315-30
US-PATENT-3,189,784
N75-27251* # c 33 ..... NASA-CASE-HQN-10069
US-PATENT-APPL-SN-739072
US-PATENT-CLASS-330-5
US-PATENT-3,551,831
N75-27252* # c 33 ..... NASA-CASE-LAR-11042-1
US-PATENT-APPL-SN-440916
US-PATENT-CLASS-204-242
US-PATENT-CLASS-204-267
US-PATENT-CLASS-204-279
US-PATENT-CLASS-204-286
US-PATENT-CLASS-204-290R
US-PATENT-3,891,533
N75-27328* # c 35 ..... NASA-CASE-MFS-22537-1
US-PATENT-APPL-SN-387266
US-PATENT-CLASS-350-3.5
US-PATENT-3,888,561
N75-27329* # c 35 ..... NASA-CASE-XMF-05882
US-PATENT-APPL-SN-533650
US-PATENT-CLASS-250-83.3
US-PATENT-3,454,766
N75-27330* # c 35 ..... NASA-CASE-LAR-11354-1
US-PATENT-APPL-SN-409990
US-PATENT-CLASS-195-103.5R
US-PATENT-CLASS-195-120
US-PATENT-CLASS-195-127
US-PATENT-CLASS-195-141
US-PATENT-3,884,765
N75-27331* # c 35 ..... NASA-CASE-GSC-11829-1
US-PATENT-APPL-SN-502136
US-PATENT-CLASS-250-385
US-PATENT-3,891,851
N75-27364* # c 36 ..... NASA-CASE-XLE-2529-2
US-PATENT-APPL-SN-848403
US-PATENT-CLASS-240-41B
US-PATENT-CLASS-330-4.3
US-PATENT-CLASS-331-94.5A
US-PATENT-3,894,289
N75-27376* # c 37 ..... NASA-CASE-XMS-01330
US-PATENT-APPL-SN-153624
US-PATENT-APPL-SN-322565
US-PATENT-CLASS-219-125
US-PATENT-3,275,794
N75-27585* # c 45 ..... NASA-CASE-NPO-13231-1
US-PATENT-APPL-SN-428993
US-PATENT-CLASS-250-343
US-PATENT-CLASS-250-345
US-PATENT-CLASS-250-432
US-PATENT-3,891,848
N75-27758* # c 54 ..... NASA-CASE-NPO-13386-1
US-PATENT-APPL-SN-475336
US-PATENT-CLASS-214-1B
US-PATENT-CLASS-214-1CM
US-PATENT-CLASS-318-640
US-PATENT-3,888,362
N75-27759* # c 54 ..... NASA-CASE-MSC-13601-2
US-PATENT-APPL-SN-395495
US-PATENT-CLASS-351-38
US-PATENT-3,891,311
N75-27760* # c 54 ..... NASA-CASE-ARC-10753-1
US-PATENT-APPL-SN-427395
US-PATENT-CLASS-128-2.05Z
US-PATENT-CLASS-128-2V
US-PATENT-CLASS-128-24A
US-PATENT-CLASS-74-471XY
US-PATENT-3,893,449
N75-27761* # c 54 ..... NASA-CASE-NPO-13313-1
US-PATENT-APPL-SN-449153
US-PATENT-CLASS-128-145.8
US-PATENT-CLASS-55-DIG.35
US-PATENT-3,893,458
N75-28135* # c 24 ..... NASA-CASE-MFS-21077-1
US-PATENT-APPL-SN-127481
US-PATENT-CLASS-228-190
US-PATENT-CLASS-228-193
US-PATENT-CLASS-29-419
US-PATENT-3,894,677
N75-29192* # c 25 ..... NASA-CASE-HQN-10462
US-PATENT-APPL-SN-773530
US-PATENT-CLASS-118-43
US-PATENT-3,603,285
N75-29236* # c 26 ..... NASA-CASE-XNP-01311
US-PATENT-APPL-SN-430496
US-PATENT-CLASS-148-127
US-PATENT-3,390,023
N75-29263* # c 27 ..... NASA-CASE-LAR-11397-1
US-PATENT-APPL-SN-532784
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US-PATENT-APPL-SN-585988
US-PATENT-CLASS-315-111
US-PATENT-3,469,143
N75-29380* # c 35 ..... NASA-CASE-MFS-22060-1
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US-PATENT-CLASS-23-254E
US-PATENT-CLASS-23-255E
US-PATENT-CLASS-311-37
US-PATENT-CLASS-331-65
US-PATENT-CLASS-73-23
US-PATENT-3,895,912
N75-29381* # c 35 ..... NASA-CASE-ARC-10806-1
US-PATENT-APPL-SN-478802
US-PATENT-CLASS-73-178R
US-PATENT-3,895,521
N75-29382* # c 35 ..... NASA-CASE-XMS-05731
US-PATENT-APPL-SN-441279
US-PATENT-CLASS-73-117.4
US-PATENT-3,375,712
N75-29426* # c 37 ..... NASA-CASE-XLE-10717
US-PATENT-APPL-SN-844243
US-PATENT-CLASS-315-111
US-PATENT-3,004,189
N75-30132* # c 03 ..... NASA-CASE-ERC-10419-1
US-PATENT-APPL-SN-219722
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US-PATENT-CLASS-343-6.5R
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US-PATENT-CLASS-260-78TF
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US-PATENT-CLASS-29-613
US-PATENT-CLASS-338-13
US-PATENT-CLASS-338-283
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US-PATENT-CLASS-330-18
US-PATENT-CLASS-330-40
US-PATENT-CLASS-330-63
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US-PATENT-CLASS-330-24
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US-PATENT-CLASS-33-96
US-PATENT-CLASS-333-21R
US-PATENT-CLASS-333-83BT
US-PATENT-CLASS-333-98R
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US-PATENT-CLASS-178-6.8
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US-PATENT-CLASS-250-351
US-PATENT-CLASS-250-373
US-PATENT-CLASS-356-51
US-PATENT-3,899,252
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US-PATENT-APPL-SN-447124
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US-PATENT-CLASS-73-195
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US-PATENT-CLASS-307-211
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US-PATENT-CLASS-328-61
US-PATENT-CLASS-328-62
US-PATENT-3,900,741
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US-PATENT-CLASS-310-4
US-PATENT-CLASS-331-DIG.1
US-PATENT-3,899,696
N75-30562* # c 37 ..... NASA-CASE-LEW-11076-3
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US-PATENT-CLASS-308-73
US-PATENT-3,899,224

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US-PATENT-CLASS-328-41
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US-PATENT-CLASS-340-173CA
US-PATENT-CLASS-357-24
US-PATENT-CLASS-357-7
US-PATENT-3,906,296
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US-PATENT-CLASS-250-370
US-PATENT-CLASS-357-5
US-PATENT-3,906,231
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US-PATENT-CLASS-331-94.5P
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US-PATENT-CLASS-350-96WG
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US-PATENT-CLASS-308-201
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US-PATENT-CLASS-330-4.3
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US-PATENT-CLASS-331-94-5G
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US-PATENT-CLASS-117-46FS
US-PATENT-CLASS-117-8.5
US-PATENT-CLASS-29-DIG.24
US-PATENT-CLASS-29-DIG.39
US-PATENT-CLASS-29-527.2
US-PATENT-CLASS-72-46
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US-PATENT-CLASS-210-333
US-PATENT-CLASS-210-340
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US-PATENT-CLASS-210-425
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US-PATENT-CLASS-210-82
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US-PATENT-CLASS-73-12
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US-PATENT-CLASS-73-432PS
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US-PATENT-CLASS-279-107
US-PATENT-CLASS-279-89
US-PATENT-CLASS-29-26A
US-PATENT-CLASS-294-116
US-PATENT-CLASS-294-86.33
US-PATENT-3,907,312
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US-PATENT-CLASS-128-305
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US-PATENT-CLASS-244-3.21
US-PATENT-CLASS-74-5.7
US-PATENT-3,915,416
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US-PATENT-CLASS-178-DIG.20
US-PATENT-CLASS-244-161
US-PATENT-CLASS-33-286
US-PATENT-CLASS-35-12
US-PATENT-CLASS-356-153
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US-PATENT-CLASS-60-39.29
US-PATENT-CLASS-60-39.74R
US-PATENT-3,910,035
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US-PATENT-CLASS-60-267
US-PATENT-3,910,039
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US-PATENT-CLASS-423-407
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N76-14204* # c 24 ..... NASA-CASE-MSC-12568-1
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US-PATENT-CLASS-136-148
US-PATENT-CLASS-162-102
US-PATENT-CLASS-162-153
US-PATENT-CLASS-162-222
US-PATENT-CLASS-162-228
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US-PATENT-CLASS-403-28
US-PATENT-CLASS-428-109
US-PATENT-CLASS-428-212
US-PATENT-CLASS-428-214
US-PATENT-CLASS-428-416
US-PATENT-CLASS-428-447
US-PATENT-CLASS-428-77
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US-PATENT-CLASS-62-49
US-PATENT-CLASS-73-295
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US-PATENT-CLASS-328-145
US-PATENT-CLASS-343-176
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US-PATENT-CLASS-328-190
US-PATENT-CLASS-328-63
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N76-14372* # c 33 ..... NASA-CASE-LAR-10970-1
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US-PATENT-CLASS-343-797
US-PATENT-CLASS-343-846
US-PATENT-3,919,710
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US-PATENT-CLASS-307-221R
US-PATENT-CLASS-328-37
US-PATENT-3,911,330
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US-PATENT-CLASS-73-212
US-PATENT-3,914,997
N76-14430* # c 35 ..... NASA-CASE-NPO-13170-1
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US-PATENT-CLASS-73-88.5R
US-PATENT-3,914,991
N76-14431* # c 35 ..... NASA-CASE-LEW-11915-1
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US-PATENT-CLASS-235-151.34
US-PATENT-CLASS-60-39.29
US-PATENT-3,911,260
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US-PATENT-CLASS-356-28
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N76-14460* # c 37 ..... NASA-CASE-MFS-19194-1
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US-PATENT-CLASS-285-226
US-PATENT-CLASS-285-265
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N76-14461* # c 37 ..... NASA-CASE-LEW-11694-2
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US-PATENT-APPL-SN-462903
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US-PATENT-CLASS-72-363
US-PATENT-CLASS-72-54
US-PATENT-CLASS-72-63
US-PATENT-3,914,969
N76-14463* # c 37 ..... NASA-CASE-MFS-22323-1
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US-PATENT-CLASS-137-550
US-PATENT-CLASS-210-429
US-PATENT-CLASS-251-149.6
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US-PATENT-CLASS-136-206
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US-PATENT-CLASS-204-33
US-PATENT-CLASS-204-38A
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US-PATENT-CLASS-204-42
US-PATENT-CLASS-204-49
US-PATENT-CLASS-29-194
US-PATENT-CLASS-29-195
US-PATENT-CLASS-29-197
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US-PATENT-APPL-SN-371322
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US-PATENT-CLASS-29-572
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N76-14601* # c 44 ..... NASA-CASE-MFS-22749-1
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US-PATENT-CLASS-136-162
US-PATENT-CLASS-136-182
US-PATENT-CLASS-136-90
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US-PATENT-CLASS-237-1A
US-PATENT-CLASS-350-211
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US-PATENT-CLASS-128-2.1A
US-PATENT-CLASS-128-2H
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US-PATENT-CLASS-73-421R
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US-PATENT-CLASS-340-147R
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N76-14931* # c 75 ..... NASA-CASE-MFS-22287-1
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US-PATENT-CLASS-73-12
US-PATENT-CLASS-89-8
US-PATENT-3,916,761
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US-PATENT-CLASS-350-293
US-PATENT-CLASS-427-162
US-PATENT-CLASS-427-250
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US-PATENT-CLASS-260-32.8N
US-PATENT-CLASS-260-346.3
US-PATENT-CLASS-260-47CP
US-PATENT-CLASS-260-571
US-PATENT-CLASS-260-78TF
US-PATENT-3,925,312
N76-15310* # c 27 ..... NASA-CASE-ARC-10714-1
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US-PATENT-CLASS-260-2.5AK
US-PATENT-CLASS-427-196
US-PATENT-CLASS-427-426
US-PATENT-CLASS-428-303
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US-PATENT-CLASS-29-182.5
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US-PATENT-CLASS-343-837
US-PATENT-CLASS-343-876
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US-PATENT-CLASS-317-261
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US-PATENT-APPL-SN-475338
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US-PATENT-CLASS-250-423
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US-PATENT-CLASS-250-385
US-PATENT-CLASS-250-489
US-PATENT-3,927,324
N76-15434* # c 35 ..... NASA-CASE-LEW-11072-2
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US-PATENT-CLASS-136-211
US-PATENT-CLASS-136-212
US-PATENT-CLASS-136-225
US-PATENT-3,925,104
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US-PATENT-CLASS-331-3
US-PATENT-CLASS-331-94
US-PATENT-3,924,200
N76-15457* # c 37 ..... NASA-CASE-MFS-22707-1
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US-PATENT-CLASS-74-384
US-PATENT-CLASS-74-665B
US-PATENT-3,922,930
N76-15460* # c 37 ..... NASA-CASE-MFS-22022-1
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US-PATENT-CLASS-214-ICM
US-PATENT-3,923,166
N76-15461* # c 37 ..... NASA-CASE-LEW-11076-4
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US-PATENT-APPL-SN-346483
US-PATENT-APPL-SN-445178
US-PATENT-CLASS-308-122
US-PATENT-CLASS-308-160
US-PATENT-CLASS-308-72
US-PATENT-CLASS-308-73
US-PATENT-CLASS-308-9
US-PATENT-3,926,482
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US-PATENT-CLASS-244-139
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US-PATENT-CLASS-260-900
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US-PATENT-APPL-SN-464720
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US-PATENT-CLASS-178-88
US-PATENT-CLASS-325-321
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US-PATENT-CLASS-328-134
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N76-16332* # c 33 ..... NASA-CASE-GSC-11849-1
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US-PATENT-CLASS-174-148
US-PATENT-CLASS-339-143C
US-PATENT-CLASS-339-198R
US-PATENT-CLASS-339-242
US-PATENT-CLASS-339-275R
US-PATENT-3,931,456
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US-PATENT-CLASS-324-43R
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N76-16391* # c 35 ..... NASA-CASE-NPO-10166-2
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US-PATENT-APPL-SN-668116
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US-PATENT-CLASS-360-101
US-PATENT-CLASS-360-35
US-PATENT-CLASS-360-9
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US-PATENT-CLASS-294-19R
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N76-16393* # c 35 ..... NASA-CASE-GSC-11889-1
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US-PATENT-CLASS-250-287
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US-PATENT-CLASS-250-385
US-PATENT-CLASS-250-423
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N76-16446* # c 37 ..... NASA-CASE-NPO-13342-1
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N76-16612* # c 44 ..... NASA-CASE-MFS-22002-1
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US-PATENT-CLASS-136-210
US-PATENT-CLASS-165-105
US-PATENT-CLASS-310-4
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US-PATENT-APPL-SN-419319
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US-PATENT-CLASS-237-60
US-PATENT-CLASS-244-117A
US-PATENT-CLASS-244-135R
US-PATENT-CLASS-417-209
US-PATENT-3,929,305
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US-PATENT-CLASS-178-DIG.8
US-PATENT-CLASS-178-6.8
US-PATENT-CLASS-250-373
US-PATENT-CLASS-340-237S
US-PATENT-CLASS-356-207
US-PATENT-3,931,462
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US-PATENT-APPL-SN-500982
US-PATENT-CLASS-124-1
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US-PATENT-CLASS-89-8
US-PATENT-3,929,119
N76-18117* # c 07 ..... NASA-CASE-LAR-11674-1
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US-PATENT-APPL-SN-488616
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US-PATENT-CLASS-239-265.11
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US-PATENT-CLASS-23-230R
US-PATENT-CLASS-23-232C
US-PATENT-CLASS-23-253R
US-PATENT-CLASS-23-254R
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US-PATENT-CLASS-235-151.13
US-PATENT-CLASS-73-23.1
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US-PATENT-CLASS-343-840
US-PATENT-CLASS-343-912
US-PATENT-CLASS-343-915
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N76-18353* # c 33 ..... NASA-CASE-GSC-11925-1
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US-PATENT-CLASS-360-51
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US-PATENT-CLASS-60-316
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US-PATENT-CLASS-73-95
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US-PATENT-CLASS-73-28
US-PATENT-CLASS-73-421.5R
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US-PATENT-CLASS-350-3.5

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US-PATENT-CLASS-350-160
US-PATENT-CLASS-423-352
US-PATENT-CLASS-423-644
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US-PATENT-CLASS-350-96WG
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US-PATENT-CLASS-73-399
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US-PATENT-CLASS-228-206
US-PATENT-CLASS-228-214
US-PATENT-CLASS-228-238
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US-PATENT-CLASS-134-37
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US-PATENT-CLASS-209-250
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US-PATENT-CLASS-123-120
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US-PATENT-CLASS-123-89A
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US-PATENT-CLASS-250-527
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US-PATENT-CLASS-136-86S
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US-PATENT-CLASS-23-281
US-PATENT-CLASS-423-650
US-PATENT-CLASS-48-116
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US-PATENT-CLASS-48-63
US-PATENT-CLASS-48-75
US-PATENT-CLASS-48-95
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US-PATENT-CLASS-136-6LF
US-PATENT-CLASS-320-21
US-PATENT-CLASS-320-22
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US-PATENT-CLASS-33-174D
US-PATENT-CLASS-73-88.5SD
US-PATENT-3,937,212
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US-PATENT-CLASS-215-247
US-PATENT-CLASS-324-30B
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US-PATENT-CLASS-259-4AC
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US-PATENT-CLASS-244-163
US-PATENT-CLASS-29-432
US-PATENT-CLASS-29-433
US-PATENT-CLASS-29-526
US-PATENT-CLASS-52-705
US-PATENT-CLASS-52-758F
US-PATENT-3,936,927
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US-PATENT-CLASS-128-26
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US-PATENT-CLASS-356-167
US-PATENT-CLASS-356-71
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US-PATENT-CLASS-356-124
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NASA-CASE-NPO-13436-1
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US-PATENT-CLASS-81-57.31
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US-PATENT-CLASS-250-573
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US-PATENT-CLASS-324-158R
US-PATENT-CLASS-324-158T
US-PATENT-CLASS-324-60C
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US-PATENT-CLASS-343-100ST
US-PATENT-CLASS-343-112TC
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US-PATENT-CLASS-343-781
US-PATENT-CLASS-343-786
US-PATENT-3,949,404
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US-PATENT-CLASS-235-156
US-PATENT-CLASS-325-42
US-PATENT-CLASS-333-18
US-PATENT-3,949,206
N76-21390* # c 33 ..... NASA-CASE-ARC-10711-2
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US-PATENT-APPL-SN-596788
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US-PATENT-CLASS-73-398C
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US-PATENT-CLASS-33-174B
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US-PATENT-CLASS-356-37
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N76-22154* # c 02 ..... NASA-CASE-LAR-10585-1
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US-PATENT-CLASS-244-40R
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N76-22245* # c 17 ..... NASA-CASE-GSC-11868-1
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US-PATENT-CLASS-328-155
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US-PATENT-CLASS-340-207P
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US-PATENT-CLASS-248-358R
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US-PATENT-CLASS-89-1.801
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US-PATENT-CLASS-250-344
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US-PATENT-CLASS-428-332
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US-PATENT-CLASS-428-538
US-PATENT-CLASS-428-920
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US-PATENT-CLASS-324-71CP
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US-PATENT-CLASS-277-41
US-PATENT-CLASS-277-74
US-PATENT-CLASS-277-93R
US-PATENT-3,953,038

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US-PATENT-CLASS-126-271
US-PATENT-3,951,129
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US-PATENT-APPL-SN-681001
N76-23273* # c 09 ..... NASA-CASE-MFS-23099-1
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US-PATENT-CLASS-164-132
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US-PATENT-APPL-SN-561020
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US-PATENT-CLASS-165-133
US-PATENT-3,957,030
N76-23850* # c 60 ..... NASA-CASE-MSC-14082-1
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US-PATENT-CLASS-340-347P
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US-PATENT-CLASS-178-7.89
US-PATENT-CLASS-35-12N
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US-PATENT-CLASS-252-300
US-PATENT-CLASS-350-1
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N76-24405* # c 27 ..... NASA-CASE-MSC-14331-1
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US-PATENT-CLASS-260-DIG.24
US-PATENT-CLASS-260-33.8F
US-PATENT-CLASS-260-45.7
US-PATENT-CLASS-260-92.1
US-PATENT-CLASS-526-1
US-PATENT-CLASS-526-255
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US-PATENT-CLASS-73-15.6
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US-PATENT-CLASS-128-2.05V
US-PATENT-CLASS-128-2.1E
US-PATENT-CLASS-128-2.1Z
US-PATENT-3,957,037
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US-PATENT-CLASS-350-96WG
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US-PATENT-CLASS-156-286
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US-PATENT-CLASS-264-267
US-PATENT-CLASS-428-117
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US-PATENT-CLASS-126-271
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NASA-CASE-MSC-14735-1
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US-PATENT-CLASS-137-DIG.9
US-PATENT-CLASS-137-110
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N76-25049* # c 76 ..... NASA-CASE-LEW-12094-1
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US-PATENT-CLASS-156-610
US-PATENT-CLASS-156-612
US-PATENT-CLASS-156-613
US-PATENT-CLASS-252-62.3
US-PATENT-CLASS-423-345
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US-PATENT-CLASS-74-5.34
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US-PATENT-APPL-SN-340863
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US-PATENT-CLASS-176-16
US-PATENT-CLASS-423-249
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US-PATENT-CLASS-343-779
US-PATENT-CLASS-343-854
US-PATENT-3,965,475
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US-PATENT-CLASS-250-372
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US-PATENT-CLASS-29-193
US-PATENT-CLASS-55-523
US-PATENT-CLASS-55-526
US-PATENT-CLASS-75-225
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US-PATENT-APPL-SN-545284
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US-PATENT-CLASS-73-194R
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US-PATENT-CLASS-339-18C
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US-PATENT-CLASS-219-92
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N76-27664* # c 44 ..... NASA-CASE-MFS-23059-1
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US-PATENT-CLASS-136-86A
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US-PATENT-CLASS-73-88.5
US-PATENT-3,545,262
N76-28635* # c 44 ..... NASA-CASE-GSC-12022-1
NASA-CASE-GSC-12023-1
US-PATENT-APPL-SN-576488
US-PATENT-CLASS-136-89
US-PATENT-CLASS-148-174
US-PATENT-CLASS-148-175
US-PATENT-CLASS-156-612
US-PATENT-CLASS-156-613
US-PATENT-CLASS-156-614
US-PATENT-CLASS-29-572
US-PATENT-CLASS-357-30
US-PATENT-CLASS-357-59
US-PATENT-CLASS-427-113
US-PATENT-CLASS-427-248
US-PATENT-CLASS-427-249
US-PATENT-CLASS-427-250
US-PATENT-CLASS-427-86
US-PATENT-3,961,997
N76-29217* # c 05 ..... NASA-CASE-ARC-10470-3
US-PATENT-APPL-SN-206279
US-PATENT-APPL-SN-321180
US-PATENT-APPL-SN-496779
US-PATENT-CLASS-244-46
US-PATENT-3,971,535
N76-29347* # c 17 ..... NASA-CASE-ARC-10849-1
US-PATENT-APPL-SN-563049
US-PATENT-CLASS-340-189M
US-PATENT-CLASS-340-206
US-PATENT-CLASS-73-493
US-PATENT-CLASS-73-517R
US-PATENT-3,972,038
N76-29379* # c 25 ..... NASA-CASE-LEW-11390-3
US-PATENT-APPL-SN-247434
US-PATENT-APPL-SN-380046
US-PATENT-CLASS-176-11
US-PATENT-CLASS-176-14
US-PATENT-CLASS-176-16
US-PATENT-CLASS-250-400
US-PATENT-CLASS-250-429
US-PATENT-CLASS-250-492R
US-PATENT-3,971,697
N76-29551* # c 35 ..... NASA-CASE-LAR-10907-1
US-PATENT-APPL-SN-559845
US-PATENT-CLASS-250-340
US-PATENT-CLASS-250-353
US-PATENT-3,971,940
N76-29552* # c 35 ..... NASA-CASE-MSC-12617-1
US-PATENT-APPL-SN-513576
US-PATENT-CLASS-235-61NV
US-PATENT-CLASS-235-78M
US-PATENT-CLASS-235-88M
US-PATENT-3,971,915
N76-29575* # c 36 ..... NASA-CASE-NPO-13346-1
US-PATENT-APPL-SN-533556
US-PATENT-CLASS-330-4.3
US-PATENT-CLASS-331-94.5C
US-PATENT-3,972,008
N76-29588* # c 37 ..... NASA-CASE-LEW-11949-1
US-PATENT-APPL-SN-590182
US-PATENT-CLASS-308-160
US-PATENT-CLASS-308-163
US-PATENT-CLASS-308-170
US-PATENT-3,971,602
N76-29590* # c 37 ..... NASA-CASE-NPO-13613-1
US-PATENT-APPL-SN-574208
US-PATENT-CLASS-62-6
US-PATENT-3,971,230
N76-29699* # c 44 ..... NASA-CASE-HQN-10862-1
US-PATENT-APPL-SN-604374
US-PATENT-CLASS-136-143
US-PATENT-CLASS-136-30
US-PATENT-3,972,727
N76-29700* # c 44 ..... NASA-CASE-NPO-13342-2
US-PATENT-APPL-SN-390049
US-PATENT-APPL-SN-548559
US-PATENT-CLASS-123-1A
US-PATENT-CLASS-123-3
US-PATENT-CLASS-23-281
US-PATENT-CLASS-423-650
US-PATENT-CLASS-48-215
US-PATENT-CLASS-48-95
US-PATENT-3,955,941
N76-29701* # c 44 ..... NASA-CASE-NPO-13567-1
US-PATENT-APPL-SN-566493
US-PATENT-CLASS-417-141
US-PATENT-CLASS-417-207
US-PATENT-CLASS-417-209
US-PATENT-CLASS-417-379
US-PATENT-CLASS-60-517
US-PATENT-CLASS-62-6
US-PATENT-3,972,651
N76-29704* # c 44 ..... NASA-CASE-NPO-13464-2
US-PATENT-APPL-SN-428444
US-PATENT-APPL-SN-553687
US-PATENT-CLASS-252-373
US-PATENT-CLASS-42-215
US-PATENT-CLASS-423-650
US-PATENT-CLASS-431-163
US-PATENT-CLASS-431-210
US-PATENT-CLASS-431-4
US-PATENT-CLASS-48-197R
US-PATENT-3,971,847
N76-29891* # c 51 ..... NASA-CASE-GSC-11917-2
US-PATENT-APPL-SN-475337
US-PATENT-APPL-SN-555641
US-PATENT-CLASS-195-103.5R
US-PATENT-3,971,703
N76-29894* # c 52 ..... NASA-CASE-ARC-10583-1
US-PATENT-APPL-SN-301418

US-PATENT-CLASS-128-2.1A
US-PATENT-CLASS-128-2H
US-PATENT-CLASS-128-2P
US-PATENT-3,971,362

N76-29895* # c 52 ..... NASA-CASE-NPO-13644-1
US-PATENT-APPL-SN-574218
US-PATENT-CLASS-128-2.05R
US-PATENT-CLASS-128-2S
US-PATENT-CLASS-338-6
US-PATENT-3,971,363

N76-29896* # c 52 ..... NASA-CASE-NPO-13643-1
US-PATENT-APPL-SN-578241
US-PATENT-CLASS-128-2.05E
US-PATENT-CLASS-128-2.06E
US-PATENT-CLASS-128-2S
US-PATENT-CLASS-128-418
US-PATENT-CLASS-128-419P
US-PATENT-CLASS-73-398AR
US-PATENT-3,971,364

N76-30053* # c 74 ..... NASA-CASE-GSC-11782-1
US-PATENT-APPL-SN-463925
US-PATENT-CLASS-250-199
US-PATENT-3,971,930

N76-30131* # c 91 ..... NASA-CASE-MSC-12423-1
US-PATENT-APPL-SN-448320
US-PATENT-CLASS-73-170R
US-PATENT-CLASS-73-425.2
US-PATENT-CLASS-73-432R
US-PATENT-3,971,256

N76-30793* # c 52 ..... US-PATENT-APPL-SN-452768
US-PATENT-CLASS-351-23
US-PATENT-CLASS-351-30
US-PATENT-CLASS-351-36
US-PATENT-RE-28,921

N76-31365* # c 31 ..... NASA-CASE-ARC-10445-1
US-PATENT-APPL-SN-491418
US-PATENT-CLASS-313-250
US-PATENT-CLASS-313-306
US-PATENT-CLASS-313-309
US-PATENT-CLASS-313-338
US-PATENT-3,978,364

N76-31372* # c 32 ..... NASA-CASE-NPO-13465-1
US-PATENT-APPL-SN-531575
US-PATENT-CLASS-179-1SA
US-PATENT-3,978,287

N76-31409* # c 33 ..... NASA-CASE-NPO-12134-1
US-PATENT-APPL-SN-536785
US-PATENT-CLASS-313-94
US-PATENT-CLASS-357-63
US-PATENT-3,978,360

N76-31489* # c 35 ..... NASA-CASE-GSC-11893-1
US-PATENT-APPL-SN-565420
US-PATENT-CLASS-73-9
US-PATENT-3,977,231

N76-31490* # c 35 ..... NASA-CASE-NPO-13604-1
US-PATENT-APPL-SN-574219
US-PATENT-CLASS-356-106S
US-PATENT-CLASS-356-114
US-PATENT-CLASS-356-209
US-PATENT-CLASS-356-244
US-PATENT-3,977,787

N76-31512* # c 36 ..... NASA-CASE-NPO-13490-1
US-PATENT-APPL-SN-549418
US-PATENT-CLASS-330-4
US-PATENT-CLASS-331-94
US-PATENT-3,978,417

N76-31524* # c 37 ..... NASA-CASE-NPO-13535-1
US-PATENT-APPL-SN-563050
US-PATENT-CLASS-264-129
US-PATENT-CLASS-264-161
US-PATENT-CLASS-264-219
US-PATENT-CLASS-264-304
US-PATENT-CLASS-264-305
US-PATENT-CLASS-264-308
US-PATENT-CLASS-264-310
US-PATENT-CLASS-264-318
US-PATENT-CLASS-264-334
US-PATENT-CLASS-427-230
US-PATENT-3,978,187

N76-31562* # c 39 ..... NASA-CASE-MSC-19372-1
US-PATENT-APPL-SN-517995
US-PATENT-CLASS-182-178
US-PATENT-CLASS-29-467
US-PATENT-CLASS-29-526
US-PATENT-CLASS-52-236
US-PATENT-CLASS-52-637
US-PATENT-CLASS-52-648
US-PATENT-CLASS-52-651
US-PATENT-CLASS-52-726
US-PATENT-CLASS-52-745
US-PATENT-CLASS-52-749
US-PATENT-3,977,147

N76-31666* # c 44 ..... NASA-CASE-NPO-13087-2
US-PATENT-APPL-SN-296622
US-PATENT-APPL-SN-462341
US-PATENT-CLASS-136-206
US-PATENT-CLASS-136-89
US-PATENT-3,966,499

N76-31667* # c 44 ..... NASA-CASE-MFS-23167-1
US-PATENT-APPL-SN-602618
US-PATENT-CLASS-165-10
US-PATENT-CLASS-60-659
US-PATENT-3,977,197

N76-31714* # c 45 ..... NASA-CASE-LAR-11405-1
US-PATENT-APPL-SN-537480
US-PATENT-CLASS-23-230R
US-PATENT-CLASS-23-232E
US-PATENT-CLASS-23-232R
US-PATENT-3,977,831

N76-31946* # c 62 ..... NASA-CASE-GSC-12115-1
US-PATENT-APPL-SN-262596
US-PATENT-CLASS-340-347SY
US-PATENT-3,976,997

N76-31998* # c 74 ..... NASA-CASE-MSC-12640-1
US-PATENT-APPL-SN-591568
US-PATENT-CLASS-350-162SF
US-PATENT-3,977,771

N76-32140* # c 03 ..... NASA-CASE-MFS-16609-3
US-PATENT-APPL-SN-307714
US-PATENT-APPL-SN-511894
US-PATENT-APPL-SN-82279
US-PATENT-CLASS-325-114
US-PATENT-CLASS-325-115
US-PATENT-CLASS-325-186
US-PATENT-CLASS-343-705
US-PATENT-3,978,410

N76-32315* # c 27 ..... NASA-CASE-ARC-10592-2
US-PATENT-APPL-SN-414043
US-PATENT-CLASS-260-240G
US-PATENT-CLASS-260-566B
US-PATENT-3,965,096

N76-32457* # c 33 ..... NASA-CASE-NPO-13553-1
US-PATENT-APPL-SN-616333
US-PATENT-CLASS-343-882
US-PATENT-CLASS-343-915
US-PATENT-3,978,490

N76-33835* # c 52 ..... NASA-CASE-ARC-10994-1
US-PATENT-APPL-SN-728369

N77-10001* # c 02 ..... NASA-CASE-LAR-11645-1
US-PATENT-APPL-SN-473973
US-PATENT-CLASS-244-113
US-PATENT-CLASS-244-130
US-PATENT-3,984,070

N77-10071* # c 09 ..... NASA-CASE-NPO-13528-1
US-PATENT-APPL-SN-521620
US-PATENT-CLASS-73-147
US-PATENT-3,983,749

N77-10112* # c 15 ..... NASA-CASE-MFS-20855-1
US-PATENT-APPL-SN-243374
US-PATENT-CLASS-244-1SD
US-PATENT-3,744,739

N77-10113* # c 15 ..... NASA-CASE-MFS-22787-1
US-PATENT-APPL-SN-511346
US-PATENT-CLASS-244-169
US-PATENT-CLASS-244-171
US-PATENT-CLASS-244-3.21
US-PATENT-3,984,072

N77-10148* # c 20 ..... NASA-CASE-LEW-12082-1
US-PATENT-APPL-SN-612964
US-PATENT-CLASS-313-231.4
US-PATENT-CLASS-313-240
US-PATENT-CLASS-313-361
US-PATENT-CLASS-315-111.3
US-PATENT-CLASS-60-202
US-PATENT-3,983,695

N77-10213* # c 28 ..... NASA-CASE-LAR-11995-1
US-PATENT-APPL-SN-238826
US-PATENT-CLASS-102-99
US-PATENT-CLASS-264-3R
US-PATENT-CLASS-86-1R
US-PATENT-3,983,780

N77-10229* # c 31 ..... NASA-CASE-NPO-13459-1
US-PATENT-APPL-SN-598967
US-PATENT-CLASS-62-217
US-PATENT-CLASS-62-514JT
US-PATENT-3,983,714

N77-10392* # c 32 ..... NASA-CASE-LAR-11827-1
US-PATENT-APPL-SN-412379
US-PATENT-APPL-SN-561764
US-PATENT-CLASS-178-88
US-PATENT-CLASS-235-150.1
US-PATENT-CLASS-235-156
US-PATENT-CLASS-325-323
US-PATENT-CLASS-325-349
US-PATENT-CLASS-325-476
US-PATENT-3,984,634

N77-10428* # c 33 ..... NASA-CASE-NPO-13512-1
US-PATENT-APPL-SN-533734
US-PATENT-CLASS-321-19
US-PATENT-CLASS-321-2
US-PATENT-CLASS-323-DIG.1
US-PATENT-CLASS-323-17
US-PATENT-CLASS-323-22T
US-PATENT-CLASS-323-23
US-PATENT-3,984,799

N77-10429* # c 33 ..... NASA-CASE-GSC-11963-1
US-PATENT-APPL-SN-595197
US-PATENT-CLASS-244-1A
US-PATENT-CLASS-244-42CG
US-PATENT-CLASS-317-2D
US-PATENT-CLASS-324-72
US-PATENT-3,984,730

N77-10463* # c 34 ..... NASA-CASE-MFS-22991-1
US-PATENT-APPL-SN-521006
US-PATENT-CLASS-165-164
US-PATENT-CLASS-165-170
US-PATENT-3,983,933

N77-10492* # c 35 ..... NASA-CASE-NPO-13479-1
US-PATENT-APPL-SN-500981
US-PATENT-CLASS-250-290
US-PATENT-CLASS-250-291
US-PATENT-3,984,681

N77-10493* # c 35 ..... NASA-CASE-MFS-23178-1
US-PATENT-APPL-SN-637247
US-PATENT-CLASS-250-338
US-PATENT-CLASS-250-339
US-PATENT-CLASS-250-347
US-PATENT-CLASS-356-106R
US-PATENT-3,984,686

N77-10584* # c 43 ..... NASA-CASE-MSC-14472-1
US-PATENT-APPL-SN-502138
US-PATENT-CLASS-235-181
US-PATENT-CLASS-340-146.3P
US-PATENT-CLASS-340-146.3Q
US-PATENT-3,984,671

N77-10635* # c 44 ..... NASA-CASE-MFS-22458-1
US-PATENT-APPL-SN-571458
US-PATENT-CLASS-136-89
US-PATENT-CLASS-29-572
US-PATENT-3,984,256

N77-10636* # c 44 ..... NASA-CASE-NPO-13560-1
NASA-CASE-NPO-13561-1
US-PATENT-APPL-SN-487156
US-PATENT-CLASS-123-3
US-PATENT-CLASS-23-281
US-PATENT-CLASS-252-373
US-PATENT-CLASS-423-650
US-PATENT-CLASS-431-11
US-PATENT-CLASS-431-116
US-PATENT-CLASS-431-162
US-PATENT-CLASS-431-170
US-PATENT-CLASS-431-41
US-PATENT-CLASS-48-116
US-PATENT-CLASS-48-117
US-PATENT-CLASS-48-197R
US-PATENT-CLASS-48-212
US-PATENT-CLASS-48-61
US-PATENT-3,982,910

N77-10753* # c 47 ..... NASA-CASE-MFS-23362-1
US-PATENT-APPL-SN-637268
US-PATENT-CLASS-250-338
US-PATENT-CLASS-250-339
US-PATENT-CLASS-250-347
US-PATENT-CLASS-356-106R
US-PATENT-3,984,685

N77-10780* # c 52 ..... NASA-CASE-ARC-10855-1
US-PATENT-APPL-SN-617612
US-PATENT-CLASS-128-2H
US-PATENT-CLASS-73-343R
US-PATENT-3,983,753

N77-10899* # c 74 ..... NASA-CASE-MSC-19442-1
US-PATENT-APPL-SN-558600
US-PATENT-CLASS-356-237
US-PATENT-CLASS-356-239
US-PATENT-3,985,454

N77-11397* # c 37 ..... NASA-CASE-LAR-11549-1
US-PATENT-APPL-SN-537979
US-PATENT-CLASS-219-118
US-PATENT-CLASS-219-92
US-PATENT-3,988,561

N77-12239* # c 32 ..... NASA-CASE-MSC-12506-1
US-PATENT-APPL-SN-545283
US-PATENT-CLASS-340-347DD
US-PATENT-3,988,729

N77-12240* # c 32 ..... NASA-CASE-NPO-13543-1
NASA-CASE-NPO-13545-1
US-PATENT-APPL-SN-589173
US-PATENT-CLASS-325-41
US-PATENT-CLASS-340-146.1AL
US-PATENT-CLASS-340-146.1AQ
US-PATENT-CLASS-340-146.1AV
US-PATENT-3,988,677

N77-12402* # c 37 ..... NASA-CASE-MFS-23062-1
US-PATENT-APPL-SN-591569
US-PATENT-CLASS-60-527
US-PATENT-3,987,630

N77-12721* # c 60 ..... NASA-CASE-NPO-13428-1
NASA-CASE-NPO-13447-1

US-PATENT-APPL-SN-495022
US-PATENT-CLASS-179-15BA
US-PATENT-CLASS-328-111
US-PATENT-CLASS-340-172.5
US-PATENT-3,988,716

N77-13217* # c 27 ..... NASA-CASE-NPO-13666-1
US-PATENT-APPL-SN-633877
US-PATENT-CLASS-29-182.5
US-PATENT-3,990,860

N77-13315* # c 33 ..... NASA-CASE-NPO-11515-1
US-PATENT-APPL-SN-139596
US-PATENT-CLASS-307-233
US-PATENT-CLASS-307-295
US-PATENT-CLASS-328-133
US-PATENT-3,750,035

N77-13418* # c 37 ..... NASA-CASE-ARC-10905-1
US-PATENT-APPL-SN-618594
US-PATENT-CLASS-219-300
US-PATENT-CLASS-219-304
US-PATENT-CLASS-239-171
US-PATENT-CLASS-252-359A
US-PATENT-3,990,987

N77-14025* # c 07 ..... NASA-CASE-LEW-12419-1
US-PATENT-APPL-SN-579375
US-PATENT-CLASS-416-153
US-PATENT-CLASS-416-160
US-PATENT-CLASS-416-162
US-PATENT-CLASS-416-165
US-PATENT-CLASS-416-167
US-PATENT-CLASS-60-226R
US-PATENT-3,994,128

N77-14292* # c 32 ..... NASA-CASE-LAR-11607-1
US-PATENT-APPL-SN-617895
US-PATENT-CLASS-325-145
US-PATENT-CLASS-332-22
US-PATENT-CLASS-332-23R
US-PATENT-3,996,532

N77-14333* # c 33 ..... NASA-CASE-GSC-11789-1
US-PATENT-APPL-SN-538982
US-PATENT-CLASS-317-31
US-PATENT-CLASS-321-13
US-PATENT-3,996,506

N77-14334* # c 33 ..... NASA-CASE-GSC-12018-1
US-PATENT-APPL-SN-635531
US-PATENT-CLASS-329-122
US-PATENT-CLASS-329-124
US-PATENT-CLASS-331-23
US-PATENT-CLASS-331-36C
US-PATENT-CLASS-332-30V
US-PATENT-3,997,848

N77-14335* # c 33 ..... NASA-CASE-MFS-22560-1
US-PATENT-APPL-SN-589233
US-PATENT-CLASS-250-214A
US-PATENT-CLASS-330-14
US-PATENT-CLASS-330-28
US-PATENT-CLASS-330-59
US-PATENT-3,996,462

N77-14406* # c 35 ..... NASA-CASE-NPO-13663-1
US-PATENT-APPL-SN-634205
US-PATENT-CLASS-250-289
US-PATENT-CLASS-250-298
US-PATENT-3,996,464

N77-14407* # c 35 ..... NASA-CASE-LAR-11648-1
US-PATENT-APPL-SN-645571
US-PATENT-CLASS-73-133R
US-PATENT-3,995,476

N77-14408* # c 35 ..... NASA-CASE-ARC-10448-3
US-PATENT-APPL-SN-221670
US-PATENT-APPL-SN-318848
US-PATENT-CLASS-250-396
US-PATENT-3,996,468

N77-14409* # c 35 ..... NASA-CASE-NPO-13540-1
US-PATENT-APPL-SN-526450
US-PATENT-CLASS-136-232
US-PATENT-CLASS-136-233
US-PATENT-3,996,070

N77-14411* # c 35 ..... NASA-CASE-NPO-13683-1
US-PATENT-APPL-SN-599284
US-PATENT-CLASS-250-343
US-PATENT-CLASS-356-201
US-PATENT-CLASS-356-204
US-PATENT-CLASS-356-97
US-PATENT-3,995,960

N77-14477* # c 37 ..... NASA-CASE-FRC-10081-1
US-PATENT-APPL-SN-598504
US-PATENT-CLASS-280-432
US-PATENT-3,995,877

N77-14478* # c 37 ..... NASA-CASE-LAR-11658-1
US-PATENT-APPL-SN-625759
US-PATENT-CLASS-83-451
US-PATENT-CLASS-83-467R
US-PATENT-3,995,522

N77-14479* # c 37 ..... NASA-CASE-GSC-11960-1
US-PATENT-APPL-SN-629456
US-PATENT-CLASS-242-187
US-PATENT-CLASS-242-193
US-PATENT-CLASS-242-204
US-PATENT-CLASS-242-210
US-PATENT-CLASS-242-57
US-PATENT-3,995,789

N77-14580* # c 44 ..... NASA-CASE-LEW-11496-1
US-PATENT-APPL-SN-645508
US-PATENT-CLASS-136-89
US-PATENT-CLASS-204-192
US-PATENT-3,996,067

N77-14581* # c 44 ..... NASA-CASE-LEW-12220-1
US-PATENT-APPL-SN-606891
US-PATENT-CLASS-320-2
US-PATENT-CLASS-429-23
US-PATENT-CLASS-429-34
US-PATENT-3,996,064

N77-14735* # c 52 ..... NASA-CASE-MFS-23225-1
US-PATENT-APPL-SN-612965
US-PATENT-CLASS-3-1.2
US-PATENT-CLASS-3-14
US-PATENT-3,995,324

N77-14736* # c 52 ..... NASA-CASE-ARC-11007-1
US-PATENT-APPL-SN-652948
US-PATENT-CLASS-128-2H
US-PATENT-CLASS-128-379
US-PATENT-CLASS-128-400
US-PATENT-CLASS-128-402
US-PATENT-3,995,621

N77-14737* # c 52 ..... NASA-CASE-MSC-14276-1
US-PATENT-APPL-SN-557430
US-PATENT-CLASS-250-363R
US-PATENT-CLASS-250-444
US-PATENT-CLASS-250-498
US-PATENT-3,996,471

N77-14738* # c 52 ..... NASA-CASE-KSC-10849-1
US-PATENT-APPL-SN-613734
US-PATENT-CLASS-128-418
US-PATENT-CLASS-3-1.1
US-PATENT-CLASS-339-252R
US-PATENT-3,995,644

N77-14751* # c 60 ..... NASA-CASE-GSC-11839-1
US-PATENT-APPL-SN-468614
US-PATENT-CLASS-235-152
US-PATENT-CLASS-250-227
US-PATENT-CLASS-340-172.5
US-PATENT-CLASS-350-96R
US-PATENT-3,996,455

N77-17029* # c 05 ..... NASA-CASE-ARC-10807-1
US-PATENT-APPL-SN-513612
US-PATENT-CLASS-416-104
US-PATENT-CLASS-416-138
US-PATENT-CLASS-416-141
US-PATENT-3,999,886

N77-17059* # c 07 ..... NASA-CASE-LEW-12760-1
US-PATENT-APPL-SN-569925
US-PATENT-CLASS-60-226A
US-PATENT-CLASS-60-228
US-PATENT-4,005,574

N77-17143* # c 20 ..... NASA-CASE-XLA-1349
US-PATENT-APPL-SN-256493
US-PATENT-APPL-SN-54552
US-PATENT-CLASS-102-49.3
US-PATENT-CLASS-264-3R
US-PATENT-CLASS-86-1R
US-PATENT-CLASS-86-20R
US-PATENT-4,000,682

N77-17161* # c 23 ..... NASA-CASE-MSC-14428-1
US-PATENT-APPL-SN-450504
US-PATENT-CLASS-23-230B
US-PATENT-CLASS-23-230M
US-PATENT-CLASS-23-230R
US-PATENT-CLASS-23-231
US-PATENT-CLASS-23-232C
US-PATENT-CLASS-23-232R
US-PATENT-CLASS-23-254R
US-PATENT-CLASS-55-197
US-PATENT-CLASS-55-67
US-PATENT-CLASS-55-74
US-PATENT-CLASS-73-23.1
US-PATENT-CLASS-73-61.1C
US-PATENT-4,003,257

N77-17351* # c 33 ..... NASA-CASE-MFS-23181-1
US-PATENT-APPL-SN-566495
US-PATENT-CLASS-331-114
US-PATENT-CLASS-331-177V
US-PATENT-CLASS-332-18
US-PATENT-CLASS-332-30V
US-PATENT-4,003,004

N77-17354* # c 33 ..... NASA-CASE-LEW-11881-1
US-PATENT-APPL-SN-598968
US-PATENT-CLASS-307-229
US-PATENT-CLASS-307-230
US-PATENT-CLASS-328-161
US-PATENT-4,001,602

N77-17426* # c 35 ..... NASA-CASE-MFS-22671-2
US-PATENT-APPL-SN-419831
US-PATENT-APPL-SN-561956
US-PATENT-CLASS-360-25
US-PATENT-CLASS-360-31
US-PATENT-4,003,084

N77-17464* # c 37 ..... NASA-CASE-GSC-11978-1
US-PATENT-APPL-SN-593142
US-PATENT-CLASS-308-10
US-PATENT-4,000,929

N77-17495* # c 38 ..... NASA-CASE-GSC-11902-1
US-PATENT-APPL-SN-565289
US-PATENT-CLASS-235-92CA
US-PATENT-CLASS-235-92CT
US-PATENT-CLASS-235-92DN
US-PATENT-CLASS-235-92R
US-PATENT-4,001,552

N77-18154* # c 07 ..... NASA-CASE-ARC-10761-1
US-PATENT-APPL-SN-612899
US-PATENT-CLASS-137-15.1
US-PATENT-CLASS-244-53B
US-PATENT-4,007,891

N77-18307* # c 32 ..... NASA-CASE-MFS-23303-1
US-PATENT-APPL-SN-676957
US-PATENT-CLASS-333-70R
US-PATENT-CLASS-333-75
US-PATENT-CLASS-333-76
US-PATENT-CLASS-333-82B
US-PATENT-4,007,434

N77-18382* # c 34 ..... NASA-CASE-LAR-10805-2
US-PATENT-APPL-SN-426992
US-PATENT-APPL-SN-578240
US-PATENT-CLASS-244-117A
US-PATENT-CLASS-427-160
US-PATENT-CLASS-427-322
US-PATENT-CLASS-428-35
US-PATENT-CLASS-428-421
US-PATENT-CLASS-428-461
US-PATENT-CLASS-428-474
US-PATENT-4,008,348

N77-18417* # c 35 ..... NASA-CASE-ARC-10898-1
US-PATENT-APPL-SN-625732
US-PATENT-CLASS-73-12
US-PATENT-CLASS-73-432SD
US-PATENT-CLASS-73-71.6
US-PATENT-4,007,623

N77-18891* # c 73 ..... NASA-CASE-NPO-13121-1
US-PATENT-APPL-SN-294727
US-PATENT-CLASS-310-4R
US-PATENT-CLASS-313-311
US-PATENT-CLASS-346R
US-PATENT-4,008,407

N77-18893* # c 74 ..... NASA-CASE-MSC-14683-1
US-PATENT-APPL-SN-612967
US-PATENT-CLASS-358-44
US-PATENT-4,004,292

N77-19056* # c 04 ..... NASA-CASE-LAR-11387-2
US-PATENT-APPL-SN-531647
US-PATENT-APPL-SN-623156
US-PATENT-CLASS-33-356
US-PATENT-CLASS-73-178R
US-PATENT-4,006,631

N77-19076* # c 09 ..... NASA-CASE-ARC-10979-1
US-PATENT-APPL-SN-608483
US-PATENT-CLASS-124-6
US-PATENT-CLASS-244-63
US-PATENT-3,989,206

N77-19170* # c 24 ..... NASA-CASE-LEW-12550-1
US-PATENT-APPL-SN-596905
US-PATENT-CLASS-416-224
US-PATENT-CLASS-416-230
US-PATENT-4,006,999

N77-19171* # c 24 ..... NASA-CASE-LEW-12619-1
US-PATENT-APPL-SN-462424
US-PATENT-CLASS-204-16
US-PATENT-CLASS-204-40
US-PATENT-CLASS-204-9
US-PATENT-CLASS-29-527.2
US-PATENT-3,989,602

N77-19353* # c 34 ..... NASA-CASE-ARC-10912-1
US-PATENT-APPL-SN-623187
US-PATENT-CLASS-62-100
US-PATENT-CLASS-62-121
US-PATENT-CLASS-62-269
US-PATENT-CLASS-62-315
US-PATENT-4,007,601

N77-19385* # c 35 ..... NASA-CASE-MSC-14653-1
US-PATENT-APPL-SN-521816
US-PATENT-CLASS-177-1
US-PATENT-CLASS-177-208
US-PATENT-CLASS-73-432R
US-PATENT-3,988,933

N77-19416* # c 36 ..... NASA-CASE-XNP-04167-3
US-PATENT-APPL-SN-170544
US-PATENT-APPL-SN-479357
US-PATENT-CLASS-331-94.5D
US-PATENT-CLASS-331-94.5G
US-PATENT-CLASS-331-94.5PE
US-PATENT-4,007,430

N77-19457* # c 37 ..... NASA-CASE-MFS-15218-1
US-PATENT-APPL-SN-387094
US-PATENT-CLASS-197-188
US-PATENT-CLASS-197-190
US-PATENT-3,989,136
N77-19458* # c 37 ..... NASA-CASE-GSC-11883-1
NASA-CASE-GSC-11974-1
NASA-CASE-GSC-11975-1
US-PATENT-APPL-SN-596787
US-PATENT-CLASS-310-4A
US-PATENT-CLASS-337-334
US-PATENT-CLASS-340-224
US-PATENT-CLASS-60-527
US-PATENT-CLASS-75-122.7
US-PATENT-CLASS-75-170
US-PATENT-4,010,455
N77-19571* # c 44 ..... NASA-CASE-LEW-11549-1
US-PATENT-APPL-SN-510677
US-PATENT-CLASS-136-89
US-PATENT-3,989,541
N77-19760* # c 60 ..... NASA-CASE-ARC-10899-1
US-PATENT-APPL-SN-576774
US-PATENT-CLASS-178-69.5R
US-PATENT-CLASS-179-15BS
US-PATENT-CLASS-340-172.5
US-PATENT-3,990,049
N77-20162* # c 20 ..... NASA-CASE-LEW-12048-1
US-PATENT-APPL-SN-665033
US-PATENT-CLASS-313-230
US-PATENT-CLASS-313-231.3
US-PATENT-CLASS-313-360
US-PATENT-CLASS-315-111.3
US-PATENT-CLASS-315-111.6
US-PATENT-CLASS-60-202
US-PATENT-4,011,719
N77-20201* # c 26 ..... NASA-CASE-LEW-12245-1
US-PATENT-APPL-SN-584094
US-PATENT-CLASS-148-12.7N
US-PATENT-CLASS-148-162
US-PATENT-CLASS-148-2
US-PATENT-CLASS-148-20.3
US-PATENT-CLASS-148-32.5
US-PATENT-CLASS-75-170
US-PATENT-4,012,237
N77-20289* # c 32 ..... NASA-CASE-NPO-13753-1
US-PATENT-APPL-SN-658449
US-PATENT-CLASS-325-4
US-PATENT-CLASS-343-100ST
US-PATENT-CLASS-343-6.BR
US-PATENT-CLASS-343-6.5R
US-PATENT-4,012,696
N77-20399* # c 35 ..... NASA-CASE-ARC-10716-1
US-PATENT-APPL-SN-403695
US-PATENT-CLASS-235-150.2
US-PATENT-CLASS-235-150.25
US-PATENT-CLASS-244-165
US-PATENT-CLASS-244-171
US-PATENT-CLASS-244-3.21
US-PATENT-4,012,018
N77-20400* # c 35 ..... NASA-CASE-ARC-10911-1
US-PATENT-APPL-SN-610802
US-PATENT-CLASS-338-28
US-PATENT-CLASS-73-204
US-PATENT-4,011,756
N77-20401* # c 35 ..... NASA-CASE-MFS-23267-1
US-PATENT-APPL-SN-653422
US-PATENT-CLASS-126-270
US-PATENT-CLASS-126-271
US-PATENT-CLASS-250-203R
US-PATENT-4,011,854
N77-20882* # c 74 ..... NASA-CASE-LAR-11782-1
US-PATENT-APPL-SN-608482
US-PATENT-CLASS-350-145
US-PATENT-CLASS-350-174
US-PATENT-4,012,123
N77-21267* # c 32 ..... NASA-CASE-LAR-11390-1
US-PATENT-APPL-SN-662176
US-PATENT-CLASS-340-5H
US-PATENT-CLASS-343-18B
US-PATENT-CLASS-343-5CM
US-PATENT-CLASS-343-5MM
US-PATENT-4,019,179
N77-21314* # c 33 ..... NASA-CASE-NPO-10189-1
NASA-CASE-NPO-10781-1
US-PATENT-APPL-SN-744522
US-PATENT-CLASS-307-232
US-PATENT-CLASS-307-238
US-PATENT-CLASS-307-280
US-PATENT-CLASS-329-119
US-PATENT-CLASS-329-205
US-PATENT-CLASS-332-16
US-PATENT-CLASS-332-30
US-PATENT-CLASS-332-52
US-PATENT-3,582,828
N77-21315* # c 33 ..... NASA-CASE-NPO-11510-1
US-PATENT-APPL-SN-173178
US-PATENT-APPL-SN-385059
US-PATENT-CLASS-313-161
US-PATENT-CLASS-313-184
US-PATENT-CLASS-313-224
US-PATENT-CLASS-313-32
US-PATENT-CLASS-315-344
US-PATENT-3,881,132
N77-21316* # c 33 ..... NASA-CASE-NPO-10790-1
US-PATENT-APPL-SN-841278
US-PATENT-CLASS-313-175
US-PATENT-CLASS-313-180
US-PATENT-CLASS-313-184
US-PATENT-CLASS-315-108
US-PATENT-CLASS-315-110
US-PATENT-3,621,330
N77-21392* # c 35 ..... NASA-CASE-NPO-10711-1
US-PATENT-APPL-SN-844315
US-PATENT-CLASS-179-100.2C
US-PATENT-3,697,705
N77-21393* # c 35 ..... NASA-CASE-NPO-10619-1
US-PATENT-APPL-SN-757017
US-PATENT-CLASS-338-25
US-PATENT-3,555,483
N77-21844* # c 54 ..... NASA-CASE-MFS-23074-1
US-PATENT-APPL-SN-623188
US-PATENT-CLASS-188-291
US-PATENT-CLASS-254-158
US-PATENT-4,018,423
N77-21941* # c 74 ..... NASA-CASE-NPO-11429-1
US-PATENT-APPL-SN-95189
US-PATENT-CLASS-240-41.35R
US-PATENT-CLASS-240-41R
US-PATENT-CLASS-240-46.13
US-PATENT-CLASS-356-236
US-PATENT-3,711,701
N77-22386* # c 33 ..... NASA-CASE-NPO-10870-1
NASA-CASE-NPO-11191-1
NASA-CASE-NPO-11403-1
US-PATENT-APPL-SN-108810
US-PATENT-CLASS-313-146
US-PATENT-CLASS-313-182
US-PATENT-CLASS-313-60
US-PATENT-3,736,453
N77-22449* # c 35 ..... NASA-CASE-LAR-11825-1
US-PATENT-APPL-SN-632112
US-PATENT-CLASS-73-88R
US-PATENT-4,018,085
N77-22450* # c 35 ..... NASA-CASE-MFS-23281-1
US-PATENT-APPL-SN-657995
US-PATENT-CLASS-73-15.6
US-PATENT-CLASS-73-95
US-PATENT-4,018,080
N77-22479* # c 37 ..... NASA-CASE-NPO-10316-1
US-PATENT-APPL-SN-703107
US-PATENT-CLASS-60-53
US-PATENT-3,478,514
N77-22480* # c 37 ..... NASA-CASE-NPO-13058-1
NASA-CASE-NPO-13096-1
US-PATENT-APPL-SN-403154
US-PATENT-CLASS-214-16.1CB
US-PATENT-3,896,955
N77-22482* # c 37 ..... NASA-CASE-MSC-19536-1
US-PATENT-APPL-SN-658450
US-PATENT-CLASS-74-96
US-PATENT-4,018,092
N77-22606* # c 44 ..... NASA-CASE-LEW-12364-1
US-PATENT-APPL-SN-707124
US-PATENT-CLASS-253-317
US-PATENT-CLASS-429-105
US-PATENT-CLASS-429-107
US-PATENT-CLASS-429-190
US-PATENT-4,018,971
N77-22607* # c 44 ..... NASA-CASE-LAR-11361-1
US-PATENT-APPL-SN-669928
US-PATENT-CLASS-23-277R
US-PATENT-CLASS-23-281
US-PATENT-CLASS-423-648R
US-PATENT-CLASS-55-158
US-PATENT-4,019,868
N77-22794* # c 51 ..... NASA-CASE-GSC-12039-1
US-PATENT-APPL-SN-572991
US-PATENT-CLASS-195-103.5K
US-PATENT-CLASS-195-103.5R
US-PATENT-4,014,745
N77-22950* # c 74 ..... NASA-CASE-ARC-10976-1
US-PATENT-APPL-SN-665032
US-PATENT-CLASS-356-171
US-PATENT-4,018,533
N77-22951* # c 74 ..... NASA-CASE-NPO-13722-1
US-PATENT-APPL-SN-616472
US-PATENT-CLASS-250-203R
US-PATENT-CLASS-250-211K
US-PATENT-CLASS-356-141
US-PATENT-CLASS-356-152
US-PATENT-CLASS-356-172
US-PATENT-4,018,532
N77-23106* # c 07 ..... NASA-CASE-LEW-12830-1
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US-PATENT-APPL-SN-655149
US-PATENT-CLASS-123-122E
US-PATENT-CLASS-123-41.33
US-PATENT-CLASS-137-101
US-PATENT-CLASS-415-180
US-PATENT-CLASS-60-39.03
US-PATENT-CLASS-60-39.28R
US-PATENT-CLASS-60-39.66
US-PATENT-4,020,632
N77-23482* # c 37 ..... NASA-CASE-LAR-11563-1
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US-PATENT-CLASS-29-DIG.35
US-PATENT-CLASS-29-447
US-PATENT-CLASS-403-273
US-PATENT-CLASS-53-9
US-PATENT-4,017,959
N77-23483* # c 37 ..... NASA-CASE-MFS-23088-1
US-PATENT-APPL-SN-602617
US-PATENT-CLASS-213-81
US-PATENT-CLASS-214-1CM
US-PATENT-CLASS-244-161
US-PATENT-4,018,409
N77-24328* # c 32 ..... NASA-CASE-ARC-10984-1
US-PATENT-APPL-SN-690815
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US-PATENT-CLASS-358-138
US-PATENT-4,025,950
N77-24331* # c 32 ..... NASA-CASE-MSC-14840-1
US-PATENT-APPL-SN-692414
US-PATENT-CLASS-178-88
US-PATENT-CLASS-325-346
US-PATENT-CLASS-329-104
US-PATENT-CLASS-329-122
US-PATENT-4,027,265
N77-24375* # c 33 ..... NASA-CASE-MSC-12709-1
US-PATENT-APPL-SN-630583
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US-PATENT-CLASS-328-38
US-PATENT-CLASS-328-39
US-PATENT-CLASS-328-4-8
US-PATENT-CLASS-328-63
US-PATENT-4,025,866
N77-24423* # c 34 ..... NASA-CASE-LAR-12045-1
US-PATENT-APPL-SN-682416
US-PATENT-CLASS-259/4R
US-PATENT-CLASS-261-DIG.75
US-PATENT-CLASS-261-123
US-PATENT-4,026,527
N77-24454* # c 35 ..... NASA-CASE-ARC-10900-1
US-PATENT-APPL-SN-630579
US-PATENT-CLASS-338-229
US-PATENT-CLASS-338-28
US-PATENT-4,025,891
N77-24455* # c 35 ..... NASA-CASE-GSC-12077-1
US-PATENT-APPL-SN-635519
US-PATENT-CLASS-65-108
US-PATENT-CLASS-65-59A
US-PATENT-CLASS-6554
US-PATENT-CLASS-6564
US-PATENT-4,025,327
N77-25499* # c 36 ..... NASA-CASE-GSC-11571-1
US-PATENT-APPL-SN-646704
US-PATENT-CLASS-331-94.5S
US-PATENT-4,025,875
N77-25501* # c 36 ..... NASA-CASE-ARC-10970-1
US-PATENT-APPL-SN-691046
US-PATENT-CLASS-250-574
US-PATENT-CLASS-350-100
US-PATENT-CLASS-350-102
US-PATENT-CLASS-356-28
US-PATENT-4,026,655
N77-25502* # c 36 ..... NASA-CASE-NPO-13147-1
US-PATENT-APPL-SN-317310
US-PATENT-CLASS-330-4.3
US-PATENT-CLASS-331-94.5D
US-PATENT-CLASS-331-94.5P
US-PATENT-4,027,273
N77-25769* # c 51 ..... NASA-CASE-LAR-10773-3
US-PATENT-APPL-SN-125235
US-PATENT-APPL-SN-314656
US-PATENT-APPL-SN-623238
US-PATENT-CLASS-195-1.8
US-PATENT-4,018,649
N77-25772* # c 52 ..... NASA-CASE-KSC-11030-1
US-PATENT-APPL-SN-709849
US-PATENT-CLASS-128-1R
US-PATENT-CLASS-3-1
US-PATENT-CLASS-339,12R
US-PATENT-4,025,964
N77-26385* # c 33 ..... NASA-CASE-LEW-11978-1
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US-PATENT-CLASS-204-32A
US-PATENT-CLASS-29-597
US-PATENT-CLASS-29-622

US-PATENT-CLASS-29-628
US-PATENT-CLASS-29-630E
US-PATENT-4,023,266
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US-PATENT-CLASS-318-138
US-PATENT-CLASS-318-227
US-PATENT-CLASS-318-254
US-PATENT-4,027,212
N77-26387* # c 33 ..... NASA-CASE-LAR-11389-1
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US-PATENT-APPL-SN-340862
US-PATENT-CLASS-310-111
US-PATENT-CLASS-310-168
US-PATENT-CLASS-322-96
US-PATENT-3,849,720
N77-26477* # c 36 ..... NASA-CASE-NPO-13550-1
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US-PATENT-CLASS-250-281
US-PATENT-CLASS-250-282
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US-PATENT-CLASS-250-423P
US-PATENT-4,031,389
N77-26919* # c 71 ..... NASA-CASE-NPO-13673-1
US-PATENT-APPL-SN-613004
US-PATENT-CLASS-330-5.5
US-PATENT-CLASS-331-107A
US-PATENT-CLASS-333-72
US-PATENT-4,025,876
N77-26942* # c 74 ..... NASA-CASE-GSC-12058-1
US-PATENT-APPL-SN-680938
US-PATENT-CLASS-250-199
US-PATENT-4,025,783
N77-27116* # c 07 ..... NASA-CASE-LEW-12608-1
US-PATENT-APPL-SN-680067
US-PATENT-CLASS-416-220R
US-PATENT-CLASS-416-221
US-PATENT-4,033,705
N77-27131* # c 09 ..... NASA-CASE-LAR-11883-1
US-PATENT-APPL-SN-662175
US-PATENT-CLASS-73-15R
US-PATENT-4,027,524
N77-27187* # c 24 ..... NASA-CASE-MFS-22926-1
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US-PATENT-CLASS-75-135
US-PATENT-CLASS-75-139
US-PATENT-CLASS-75-65R
US-PATENT-4,029,500
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US-PATENT-APPL-SN-616332
US-PATENT-CLASS-428-301
US-PATENT-CLASS-428-328
US-PATENT-CLASS-428-368
US-PATENT-CLASS-428-418
US-PATENT-CLASS-428-457
US-PATENT-CLASS-428-902
US-PATENT-CLASS-428-911
US-PATENT-4,029,838
N77-27345* # c 34 ..... NASA-CASE-ARC-10974-1
US-PATENT-APPL-SN-667010
US-PATENT-CLASS-73-189
US-PATENT-CLASS-73-228
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N77-27366* # c 35 ..... NASA-CASE-GSC-12059-1
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US-PATENT-CLASS-331-94.5T
US-PATENT-CLASS-350-253
US-PATENT-4,030,047
N77-27367* # c 35 ..... NASA-CASE-NPO-11103-1
US-PATENT-APPL-SN-3654
US-PATENT-CLASS-73-84
US-PATENT-3,623,359
N77-27368* # c 35 ..... NASA-CASE-MSC-12327-1
US-PATENT-APPL-SN-19572
US-PATENT-CLASS-73-362AR
US-PATENT-3,613,454
N77-27400* # c 37 ..... NASA-CASE-GSC-11063-1
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US-PATENT-CLASS-318-468
US-PATENT-CLASS-318-470
US-PATENT-CLASS-318-675
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US-PATENT-CLASS-118-7
US-PATENT-CLASS-118-9
US-PATENT-CLASS-23-253A
US-PATENT-CLASS-23-259
US-PATENT-CLASS-23-292
US-PATENT-CLASS-424-3
US-PATENT-CLASS-427-4
US-PATENT-CLASS-8-3
US-PATENT-CLASS-8-94.11
US-PATENT-4,029,470
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US-PATENT-CLASS-415-145
US-PATENT-CLASS-60-226R
US-PATENT-CLASS-60-263
US-PATENT-4,033,119
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US-PATENT-CLASS-244-123
US-PATENT-CLASS-428-141
US-PATENT-CLASS-428-161
US-PATENT-CLASS-428-425
US-PATENT-CLASS-428-457
US-PATENT-CLASS-428-458
US-PATENT-4,032,089
N77-28265* # c 26 ..... NASA-CASE-LEW-11573-1
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US-PATENT-CLASS-228-194
US-PATENT-CLASS-228-232
US-PATENT-4,033,504
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US-PATENT-CLASS-250-199
US-PATENT-CLASS-250-238
US-PATENT-4,033,882
N77-28385* # c 33 ..... NASA-CASE-LEW-12444-1
US-PATENT-APPL-SN-583485
US-PATENT-CLASS-123-148CB
US-PATENT-CLASS-123-148E
US-PATENT-CLASS-315-176
US-PATENT-4,033,316
N77-28486* # c 37 ..... NASA-CASE-LEW-11158-1
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US-PATENT-CLASS-308-5R
US-PATENT-CLASS-308-73
US-PATENT-CLASS-308-9
US-PATENT-4,035,037
N77-28487* # c 37 ..... NASA-CASE-MSC-14905-1
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US-PATENT-CLASS-128-DIG.12
US-PATENT-CLASS-128-214F
US-PATENT-CLASS-222-61
US-PATENT-CLASS-222-95
US-PATENT-4,033,479
N77-28511* # c 39 ..... NASA-CASE-MFS-23299-1
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US-PATENT-CLASS-73-67.7
US-PATENT-CLASS-73-88R
US-PATENT-4,033,182
N77-28716* # c 52 ..... NASA-CASE-LEW-12258-1
US-PATENT-APPL-SN-676433
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US-PATENT-CLASS-128-303R
US-PATENT-4,033,349
N77-28717* # c 52 ..... NASA-CASE-MSC-14623-1
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US-PATENT-CLASS-128-2.1E
US-PATENT-CLASS-128-410
US-PATENT-4,033,334
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US-PATENT-CLASS-350-202
US-PATENT-CLASS-350-299
US-PATENT-4,035,062
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US-PATENT-CLASS-350-310
US-PATENT-CLASS-350-320
US-PATENT-4,035,065
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US-PATENT-CLASS-536-105
US-PATENT-CLASS-536-536-85
US-PATENT-CLASS-536-56
US-PATENT-CLASS-536-58
US-PATENT-CLASS-536-84
US-PATENT-4,041,233
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US-PATENT-CLASS-106-296
US-PATENT-CLASS-106-299
US-PATENT-4,039,347
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US-PATENT-CLASS-325-42
US-PATENT-CLASS-325-473
US-PATENT-CLASS-325-65
US-PATENT-4,041,391
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US-PATENT-CLASS-179-1SP
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N77-30365* # c 33 ..... NASA-CASE-NPO-13812-1
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US-PATENT-CLASS-363-53
US-PATENT-CLASS-363-70
US-PATENT-4,039,925
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US-PATENT-CLASS-137-209
US-PATENT-CLASS-60-259
US-PATENT-CLASS-62-55
US-PATENT-4,039,000
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US-PATENT-CLASS-324-165
US-PATENT-CLASS-324-174
US-PATENT-CLASS-340-271
US-PATENT-CLASS-340-347P
US-PATENT-CLASS-340-347SY
US-PATENT-4,039-946
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US-PATENT-CLASS-3-21
US-PATENT-4,038,705
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US-PATENT-APPL-SN-674700
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US-PATENT-CLASS-210-40
US-PATENT-CLASS-260-2.5A
US-PATENT-CLASS-260-2.5AM
US-PATENT-CLASS-260-2.5AY
US-PATENT-CLASS-260-77.5AP
US-PATENT-4,039-489
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US-PATENT-APPL-SN-562499
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US-PATENT-4,042,926
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US-PATENT-APPL-SN-625781
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US-PATENT-CLASS-324-60
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US-PATENT-CLASS-340-347SH
US-PATENT-4,040,041
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US-PATENT-CLASS-356-212
US-PATENT-4,040,750
N77-31497* # c 37 ..... NASA-CASE-NPO-13671-1
US-PATENT-APPL-SN-564622
US-PATENT-CLASS-123-DIG.8
US-PATENT-CLASS-123-119A
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US-PATENT-CLASS-123-3
US-PATENT-CLASS-123-37
US-PATENT-CLASS-123-59E
US-PATENT-4,041,910
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US-PATENT-CLASS-136-89P
US-PATENT-CLASS-52-173R
US-PATENT-CLASS-52-51
US-PATENT-4,040,867
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US-PATENT-CLASS-416-190
US-PATENT-CLASS-416-193A
US-PATENT-CLASS-416-241A
US-PATENT-4,045,149
N77-32255* # c 25 ..... NASA-CASE-NPO-13566-1
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US-PATENT-CLASS-204-157.1R
US-PATENT-CLASS-204-158R
US-PATENT-CLASS-204-162R
US-PATENT-CLASS-250-527
US-PATENT-4,045,359

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US-PATENT-CLASS-148-32
US-PATENT-CLASS-75-170
US-PATENT-4,045,255
N77-32280* # c 26 ..... NASA-CASE-LEW-12270-1
US-PATENT-APPL-SN-645507
US-PATENT-CLASS-148-32.5
US-PATENT-CLASS-75-170
US-PATENT-4,046,560
N77-32308* # c 27 ..... NASA-CASE-GSC-12110-1
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US-PATENT-CLASS-156-663
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US-PATENT-CLASS-343-100CL
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US-PATENT-CLASS-343-5DP
US-PATENT-4,045,795
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US-PATENT-CLASS-136-236R
US-PATENT-CLASS-136-240
US-PATENT-4,045,247
N77-32455* # c 35 ..... NASA-CASE-NPO-13792-1
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US-PATENT-CLASS-324-59
US-PATENT-4,045,728
N77-32456* # c 35 ..... NASA-CASE-GSC-12143-1
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US-PATENT-CLASS-73-421.5R
US-PATENT-4,046,012
N77-32478* # c 36 ..... NASA-CASE-LEW-12164-1
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US-PATENT-CLASS-350-162SF
US-PATENT-4,043,674
N77-32499* # c 37 ..... NASA-CASE-MSC-19535-1
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US-PATENT-CLASS-292-110
US-PATENT-4,045,063
N77-32500* # c 37 ..... NASA-CASE-LEW-12527-1
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US-PATENT-CLASS-308-195
US-PATENT-CLASS-308-72
US-PATENT-4,046,434
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US-PATENT-APPL-SN-595745
US-PATENT-CLASS-290-52
US-PATENT-CLASS-308-195
US-PATENT-4,046,435
N77-32580* # c 44 ..... NASA-CASE-NPO-13675-1
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US-PATENT-CLASS-204-157.1R
US-PATENT-CLASS-250-527
US-PATENT-4,045,315
N77-32581* # c 44 ..... NASA-CASE-NPO-13510-1
US-PATENT-APPL-SN-536786
US-PATENT-CLASS-126-263
US-PATENT-CLASS-165-107
US-PATENT-CLASS-165-2
US-PATENT-CLASS-62-4
US-PATENT-4,044,821
N77-32582* # c 44 ..... NASA-CASE-NPO-13810-1
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US-PATENT-CLASS-126-271
US-PATENT-CLASS-52-117
US-PATENT-CLASS-60-641
US-PATENT-4,044,753
N77-32583* # c 44 ..... NASA-CASE-NPO-13736-1
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US-PATENT-CLASS-350-295
US-PATENT-CLASS-350-320
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US-PATENT-CLASS-427-47
US-PATENT-CLASS-52-2
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US-PATENT-CLASS-214-1BC
US-PATENT-CLASS-214-1CM
US-PATENT-4,046,262
N77-32722* # c 54 ..... NASA-CASE-MSC-14771-1
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US-PATENT-CLASS-165-166
US-PATENT-CLASS-55-179
US-PATENT-CLASS-55-269
US-PATENT-4,046,529
N77-32731* # c 60 ..... NASA-CASE-GSC-11839-3
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US-PATENT-APPL-SN-657997
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US-PATENT-CLASS-340-347AD
US-PATENT-CLASS-350-96R
US-PATENT-4,045,792
N77-32919* # c 76 ..... NASA-CASE-MFS-23001-1
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US-PATENT-CLASS-156-601
US-PATENT-CLASS-156-619
US-PATENT-CLASS-156-620
US-PATENT-4,046,617
N78-10214* # c 24 ..... NASA-CASE-LAR-11898-1
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US-PATENT-CLASS-428-138
US-PATENT-CLASS-428-73
US-PATENT-CLASS-428-902
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N78-10224* # c 25 ..... NASA-CASE-LEW-12137-1
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US-PATENT-CLASS-431-158
US-PATENT-CLASS-431-352
US-PATENT-CLASS-60-39.51R
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N78-10225* # c 25 ..... NASA-CASE-MSC-14831-1
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US-PATENT-CLASS-210-63R
US-PATENT-CLASS-210-71
US-PATENT-CLASS-252-472
US-PATENT-CLASS-427-229
US-PATENT-4,052,302
N78-10375* # c 33 ..... NASA-CASE-MSC-14916-1
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US-PATENT-CLASS-179-175.1A
US-PATENT-CLASS-330-2
US-PATENT-4,049,930
N78-10376* # c 33 ..... NASA-CASE-MFS-23280-1
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US-PATENT-CLASS-318-200
US-PATENT-CLASS-318-227
US-PATENT-CLASS-318-230
US-PATENT-4,052,648
N78-10377* # c 33 ..... NASA-CASE-NPO-13872-1
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US-PATENT-CLASS-363-89
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N78-10428* # c 35 ..... NASA-CASE-MSC-14757-1
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US-PATENT-CLASS-141-197
US-PATENT-CLASS-141-4
US-PATENT-CLASS-417-225
US-PATENT-CLASS-60-560
US-PATENT-CLASS-60-574
US-PATENT-4,051,877
N78-10429* # c 35 ..... NASA-CASE-NPO-13772-1
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US-PATENT-CLASS-250-398
US-PATENT-4,052,614
N78-10467* # c 37 ..... NASA-CASE-LEW-12321-1
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US-PATENT-CLASS-123-41.33
US-PATENT-CLASS-137-104
US-PATENT-CLASS-415-180
US-PATENT-CLASS-60-39.28R
US-PATENT-CLASS-60-39.66
US-PATENT-4,041,697
N78-10468* # c 37 ..... NASA-CASE-LEW-12313-1
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US-PATENT-CLASS-416-141
US-PATENT-CLASS-416-220R
US-PATENT-CLASS-416-248
US-PATENT-4,047,840
N78-10493* # c 39 ..... NASA-CASE-NPO-13731-1
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US-PATENT-CLASS-73-15.6
US-PATENT-CLASS-73-91
US-PATENT-4,030,348
N78-10529* # c 43 ..... NASA-CASE-GSC-11976-1
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US-PATENT-CLASS-324-58.5B
US-PATENT-4,052,666
N78-10554* # c 44 ..... NASA-CASE-NPO-13734-1
US-PATENT-APPL-SN-680939
US-PATENT-CLASS-126-271
US-PATENT-CLASS-237-1A
US-PATENT-CLASS-350-293
US-PATENT-CLASS-350-299
US-PATENT-4,051,834
N78-10686* # c 52 ..... NASA-CASE-ARC-10916-1
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US-PATENT-CLASS-3-1.2
US-PATENT-CLASS-3-15
US-PATENT-CLASS-3-29
US-PATENT-4,051,558
N78-10709* # c 60 ..... NASA-CASE-GSC-11839-2
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US-PATENT-APPL-SN-657996
US-PATENT-CLASS-340-173LM
US-PATENT-CLASS-350-96R
US-PATENT-CLASS-356-169
US-PATENT-4,052,705
N78-10837* # c 71 ..... NASA-CASE-NPO-13802-1
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US-PATENT-CLASS-264-345
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US-PATENT-CLASS-65-DIG.7
US-PATENT-CLASS-65-102
US-PATENT-CLASS-65-2
US-PATENT-CLASS-65-32
US-PATENT-CLASS-65-4B
US-PATENT-CLASS-65-87
US-PATENT-CLASS-73-505
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US-PATENT-CLASS-210-222
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US-PATENT-CLASS-55-26-9
US-PATENT-CLASS-55-3
US-PATENT-CLASS-62-50
US-PATENT-CLASS-62-514R
US-PATENT-4,027,494
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US-PATENT-CLASS-338-32S
US-PATENT-CLASS-357-4
US-PATENT-CLASS-357-5
US-PATENT-CLASS-357-73
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US-PATENT-CLASS-250-343
US-PATENT-CLASS-250-351
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N78-13436* # c 37 ..... NASA-CASE-LEW-12083-1
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US-PATENT-CLASS-313-61S
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US-PATENT-CLASS-427-126
US-PATENT-CLASS-427-248E
US-PATENT-CLASS-427-250
US-PATENT-CLASS-427-255
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US-PATENT-CLASS-357-15
US-PATENT-CLASS-357-16
US-PATENT-CLASS-357-30
US-PATENT-4,053,918
N78-13874* # c 74 ..... NASA-CASE-GSC-12088-1
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US-PATENT-CLASS-356-103
US-PATENT-CLASS-356-104
US-PATENT-4,053,229
N78-14096* # c 24 ..... NASA-CASE-ARC-11042-1
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US-PATENT-CLASS-252-8.1
US-PATENT-CLASS-60-836
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US-PATENT-CLASS-204-299R
US-PATENT-4,061,561
N78-14164* # c 27 ..... NASA-CASE-NPO-13867-1
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US-PATENT-CLASS-260-DIG.15
US-PATENT-CLASS-427-164
US-PATENT-CLASS-428-411
US-PATENT-CLASS-428-522
US-PATENT-CLASS-428-922
US-PATENT-CLASS-96-87A

US-PATENT-4,061,834
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US-PATENT-APPL-SN-712419
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US-PATENT-CLASS-73-180
US-PATENT-4,061,029
N78-14380* # c 36 ..... NASA-CASE-MFS-19259-1
US-PATENT-APPL-SN-732630
US-PATENT-CLASS-250-571
US-PATENT-CLASS-356-159
US-PATENT-CLASS-356-160
US-PATENT-CLASS-356-199
US-PATENT-4,061,427
N78-14452* # c 43 ..... NASA-CASE-LEW-12217-1
US-PATENT-APPL-SN-763753
US-PATENT-CLASS-166-248
US-PATENT-CLASS-166-259
US-PATENT-4,061,190
N78-14625* # c 44 ..... NASA-CASE-LEW-12039-1
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US-PATENT-CLASS-320-15
US-PATENT-CLASS-320-18
US-PATENT-CLASS-320-40
US-PATENT-CLASS-320-6
US-PATENT-4,061,955
N78-14773* # c 52 ..... NASA-CASE-LEW-12668-1
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US-PATENT-CLASS-128-305
US-PATENT-4,061,146
N78-14784* # c 54 ..... NASA-CASE-MSC-14632-1
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US-PATENT-CLASS-204-180P
US-PATENT-CLASS-204-301
US-PATENT-CLASS-210-192
US-PATENT-CLASS-210-96M
US-PATENT-CLASS-23-253A
US-PATENT-4,061,570
N78-14867* # c 71 ..... NASA-CASE-LAR-12106-1
US-PATENT-APPL-SN-740156
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US-PATENT-CLASS-73-646
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N78-14889* # c 74 ..... NASA-CASE-KSC-11047-1
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US-PATENT-CLASS-179-91R
US-PATENT-CLASS-250-199
US-PATENT-CLASS-358-142
US-PATENT-4,061,577
N78-15180* # c 24 ..... NASA-CASE-ARC-10913-1
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US-PATENT-CLASS-260-2.5R
US-PATENT-CLASS-428-117
US-PATENT-CLASS-428-290
US-PATENT-CLASS-428-71
US-PATENT-CLASS-428-73
US-PATENT-CLASS-428-920
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N78-15210* # c 25 ..... NASA-CASE-LAR-12046-1
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US-PATENT-CLASS-23-232E
US-PATENT-CLASS-23-232R
US-PATENT-CLASS-73-23
US-PATENT-4,062,650
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US-PATENT-CLASS-260-2R
US-PATENT-CLASS-526-193
US-PATENT-CLASS-526-225
US-PATENT-CLASS-544-193
US-PATENT-4,061,856
N78-15323* # c 32 ..... NASA-CASE-NPO-13836-1
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US-PATENT-CLASS-178-69.1
US-PATENT-CLASS-325-58
US-PATENT-CLASS-325-63
US-PATENT-CLASS-343-179
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N78-15461* # c 35 ..... NASA-CASE-NPO-13808-1
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US-PATENT-CLASS-250-322
US-PATENT-CLASS-250-416TV
US-PATENT-4,063,092
N78-15512* # c 39 ..... NASA-CASE-LAR-12016-1
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US-PATENT-CLASS-73-579
US-PATENT-CLASS-73-630
US-PATENT-CLASS-73-88F
US-PATENT-4,062,227
N78-15560* # c 44 ..... NASA-CASE-LAR-12009-1
US-PATENT-APPL-SN-717320
US-PATENT-CLASS-126-270
US-PATENT-CLASS-126-400
US-PATENT-CLASS-237-1A
US-PATENT-4,062,347
N78-15879* # c 74 ..... NASA-CASE-LAR-10385-3
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US-PATENT-APPL-SN-38816
US-PATENT-CLASS-350-1
US-PATENT-CLASS-428-334
US-PATENT-CLASS-428-336
US-PATENT-CLASS-428-426
US-PATENT-CLASS-428-428
US-PATENT-4,062,996
N78-15880* # c 74 ..... NASA-CASE-MFS-22409-2
US-PATENT-APPL-SN-445398
US-PATENT-APPL-SN-636193
US-PATENT-CLASS-250-272
US-PATENT-CLASS-250-320
US-PATENT-4,063,088
N78-16369* # c 37 ..... NASA-CASE-NPO-13619-1
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US-PATENT-CLASS-185-38
US-PATENT-CLASS-74-81
US-PATENT-CLASS-74-83
US-PATENT-4,062,245
N78-16387* # c 39 ..... NASA-CASE-LAR-11490-1
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US-PATENT-CLASS-358-106
US-PATENT-4,063,282
N78-17031* # c 04 ..... NASA-CASE-XNP-01458
US-PATENT-APPL-SN-160093
US-PATENT-CLASS-235-70
US-PATENT-3,229,905
N78-17055* # c 07 ..... NASA-CASE-LEW-12317-1
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US-PATENT-4,068,470
N78-17140* # c 17 ..... NASA-CASE-HQN-10880-1
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US-PATENT-CLASS-343-225
US-PATENT-CLASS-362-269
US-PATENT-4,067,015
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US-PATENT-APPL-SN-799024
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US-PATENT-CLASS-156-285
US-PATENT-CLASS-156-289
US-PATENT-CLASS-428-116
US-PATENT-CLASS-428-902
US-PATENT-4,063,981
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US-PATENT-CLASS-156-286
US-PATENT-CLASS-156-289
US-PATENT-CLASS-156-300
US-PATENT-CLASS-156-306
US-PATENT-CLASS-156-311
US-PATENT-CLASS-264-157
US-PATENT-CLASS-264-90
US-PATENT-CLASS-428-294
US-PATENT-CLASS-428-302
US-PATENT-4,065,340
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US-PATENT-APPL-SN-734901
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US-PATENT-CLASS-156-331
US-PATENT-CLASS-260-30.4N
US-PATENT-CLASS-260-32.2R
US-PATENT-CLASS-260-32.6NT
US-PATENT-CLASS-260-33.4R
US-PATENT-4,065,345
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US-PATENT-CLASS-60-200A
US-PATENT-CLASS-75-229
US-PATENT-CLASS-75-239
US-PATENT-CLASS-75-241
US-PATENT-4,067,742
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US-PATENT-APPL-SN-657907
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US-PATENT-CLASS-260-75NK
US-PATENT-CLASS-260-75NT
US-PATENT-CLASS-260-77.5AM
US-PATENT-CLASS-260-77.5AN
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US-PATENT-CLASS-260-77.55P
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US-PATENT-CLASS-3-1.9
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US-PATENT-CLASS-313-184
US-PATENT-CLASS-313-224
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US-PATENT-3,423,627
N78-17294* # c 33 ..... NASA-CASE-MSC-11235
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US-PATENT-CLASS-328-172
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US-PATENT-CLASS-323-19
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US-PATENT-CLASS-165-134
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US-PATENT-CLASS-2-2.1
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US-PATENT-4,065,202
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US-PATENT-CLASS-338-99
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US-PATENT-CLASS-331-94.5T
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US-PATENT-CLASS-118-500
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US-PATENT-CLASS-269-21

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US-PATENT-4,066,039
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US-PATENT-CLASS-60-262
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US-PATENT-CLASS-60-641
US-PATENT-CLASS-62-4
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US-PATENT-3,490,074
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N78-17679* # c 54 ..... NASA-CASE-XMS-04928
US-PATENT-APPL-SN-584914
US-PATENT-CLASS-98-1
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N78-17680* # c 54 ..... NASA-CASE-XMS-09653
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US-PATENT-CLASS-2-6
US-PATENT-3,359,568
N78-17691* # c 60 ..... NASA-CASE-GSC-12044-1
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US-PATENT-CLASS-340-347DD
US-PATENT-4,069,478
N78-17865* # c 74 ..... NASA-CASE-MSC-12618-1
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US-PATENT-CLASS-358-225
US-PATENT-CLASS-358-41
US-PATENT-CLASS-358-55
US-PATENT-4,067,043
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US-PATENT-CLASS-250-201
US-PATENT-CLASS-350-204
US-PATENT-CLASS-356-28
US-PATENT-4,063,814
N78-17867* # c 74 ..... NASA-CASE-NPO-13759-1
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US-PATENT-CLASS-250-344
US-PATENT-CLASS-356-204
US-PATENT-CLASS-356-246
US-PATENT-4,067,653
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US-PATENT-CLASS-60-39.31
US-PATENT-4,055,041
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US-PATENT-CLASS-60-262
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US-PATENT-CLASS-358-104
US-PATENT-4,055,004
N78-18182* # c 26 ..... NASA-CASE-LEW-12095-1
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US-PATENT-CLASS-75-126D
US-PATENT-CLASS-75-126F
US-PATENT-CLASS-75-128G
US-PATENT-CLASS-75-128T
US-PATENT-4,055,416
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US-PATENT-CLASS-148-32.5
US-PATENT-CLASS-75-170
US-PATENT-4,055,447
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US-PATENT-CLASS-307-350
US-PATENT-CLASS-307-360
US-PATENT-CLASS-328-150
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US-PATENT-CLASS-427-419A
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US-PATENT-CLASS-73-28
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US-PATENT-CLASS-73-432R
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US-PATENT-CLASS-356-110
US-PATENT-4,053,231
N78-18395* # c 35 ..... NASA-CASE-NPO-13999-1
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N78-18410* # c 36 ..... NASA-CASE-NPO-13801-1
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US-PATENT-CLASS-332-7.5
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US-PATENT-CLASS-313-442
US-PATENT-CLASS-313-94
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N78-19302* # c 27 ..... NASA-CASE-NPO-13690-1
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US-PATENT-CLASS-106-73.5
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US-PATENT-CLASS-73-23
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US-PATENT-CLASS-119-72.5
US-PATENT-CLASS-137-624.11
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US-PATENT-CLASS-428-667
US-PATENT-CLASS-428-679
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US-PATENT-CLASS-102-49.7
US-PATENT-CLASS-102-70R
US-PATENT-CLASS-285-192
US-PATENT-CLASS-60-39.82E
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US-PATENT-CLASS-260-2.5AP
US-PATENT-CLASS-260-2.5B
US-PATENT-CLASS-260-2.5BE
US-PATENT-CLASS-260-2.5EP
US-PATENT-CLASS-260-2.5FP
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N78-24333* # c 26 ..... NASA-CASE-MSC-19693-1
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US-PATENT-CLASS-148-125
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N78-24365* # c 28 ..... NASA-CASE-LEW-12081-1
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US-PATENT-CLASS-34-15
US-PATENT-CLASS-423-648R
US-PATENT-CLASS-62-100
US-PATENT-CLASS-62-48
US-PATENT-4,077,788
N78-24387* # c 31 ..... NASA-CASE-NPO-14140-1
NASA-CASE-NPO-14381-1
US-PATENT-APPL-SN-897832
N78-24391* # c 32 ..... NASA-CASE-NPO-13886-1
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US-PATENT-CLASS-343-700MS
US-PATENT-CLASS-361-395
US-PATENT-4,079,268
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US-PATENT-CLASS-416-61
US-PATENT-CLASS-73-456
US-PATENT-CLASS-73-756
US-PATENT-4,082,001
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US-PATENT-CLASS-29-23.5
US-PATENT-CLASS-29-244
US-PATENT-CLASS-29-252
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US-PATENT-CLASS-310-178
US-PATENT-CLASS-310-269
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US-PATENT-CLASS-148-174
US-PATENT-CLASS-29-572
US-PATENT-CLASS-357-30
US-PATENT-CLASS-357-59
US-PATENT-CLASS-427-113
US-PATENT-CLASS-427-248J
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US-PATENT-CLASS-427-86
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US-PATENT-CLASS-250-280
US-PATENT-4,078,175
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N78-25090* # c 07 ..... NASA-CASE-LEW-11855-1
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US-PATENT-CLASS-277-25
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N78-25119* # c 15 ..... NASA-CASE-MFS-23564-1
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US-PATENT-CLASS-244-167
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US-PATENT-CLASS-250-528
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US-PATENT-CLASS-62-514R
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US-PATENT-CLASS-324-57SS
US-PATENT-CLASS-324-58A
US-PATENT-4,084,132
N78-25350* # c 34 ..... NASA-CASE-MSC-19568-1
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US-PATENT-CLASS-428-95
US-PATENT-CLASS-428-96
US-PATENT-CLASS-428-97
US-PATENT-CLASS-49-DIG.1
US-PATENT-CLASS-49-479
US-PATENT-CLASS-49-485
US-PATENT-4,078,110
N78-25351* # c 34 ..... NASA-CASE-LEW-12718-1
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US-PATENT-CLASS-137-501
US-PATENT-CLASS-137-505.16
US-PATENT-4,084,612
N78-25391* # c 35 ..... NASA-CASE-NPO-13948-1
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US-PATENT-CLASS-137-625.3
US-PATENT-CLASS-137-625.38
US-PATENT-4,083,380
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US-PATENT-CLASS-357-30
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US-PATENT-CLASS-427-75
US-PATENT-4,082,569
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US-PATENT-CLASS-136-89H
US-PATENT-CLASS-136-89P
US-PATENT-CLASS-29-572
US-PATENT-CLASS-29-628
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US-PATENT-CLASS-136-89H
US-PATENT-CLASS-136-89P
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US-PATENT-CLASS-427-385C
US-PATENT-CLASS-429-254
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US-PATENT-CLASS-320-15
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US-PATENT-CLASS-320-39
US-PATENT-CLASS-320-9
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US-PATENT-CLASS-239-265.33
US-PATENT-CLASS-60-230
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N78-27180* # c 24 ..... NASA-CASE-ARC-11043-1
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US-PATENT-CLASS-260-33.6PQ
US-PATENT-CLASS-260-33.8EP
US-PATENT-CLASS-260-33.8UA
US-PATENT-CLASS-260-37EP
US-PATENT-CLASS-260-42.43
US-PATENT-CLASS-260-45.7R
US-PATENT-CLASS-260-45.75W
US-PATENT-CLASS-260-45.85N
US-PATENT-CLASS-260-45.9R
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US-PATENT-CLASS-427-388A
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US-PATENT-CLASS-428-332
US-PATENT-CLASS-428-921
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US-PATENT-CLASS-250-492B
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US-PATENT-CLASS-29-578
US-PATENT-CLASS-357-91
US-PATENT-4,087,902
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US-PATENT-CLASS-431-328
US-PATENT-CLASS-431-7
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US-PATENT-CLASS-60-39.69R
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US-PATENT-CLASS-73-425.4R
US-PATENT-CLASS-73-61R
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N78-27402* # c 36 ..... NASA-CASE-NPO-13945-1
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US-PATENT-CLASS-331-94.5P
US-PATENT-CLASS-331-94.5PE
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US-PATENT-CLASS-269-266
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US-PATENT-APPL-SN-807703
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US-PATENT-CLASS-73-178R
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US-PATENT-CLASS-248-186
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US-PATENT-CLASS-119-29
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N78-27904* # c 74 ..... NASA-CASE-LAR-11869-1
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US-PATENT-CLASS-356-167
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US-PATENT-CLASS-315-111.2
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US-PATENT-CLASS-324-32
US-PATENT-CLASS-324-74
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US-PATENT-CLASS-343-119
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US-PATENT-CLASS-176-39
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US-PATENT-CLASS-340-174YC
US-PATENT-CLASS-350-151
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US-PATENT-CLASS-428-538
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US-PATENT-APPL-SN-811815
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US-PATENT-CLASS-237-1A
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NASA-CASE-NPO-13914-1
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US-PATENT-CLASS-350-299

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US-PATENT-CLASS-44-1R
US-PATENT-CLASS-44-2
US-PATENT-4,081,250
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US-PATENT-CLASS-244-45A
US-PATENT-CLASS-244-46
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US-PATENT-CLASS-149-43
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US-PATENT-CLASS-260-606-5P
US-PATENT-CLASS-260-959
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US-PATENT-CLASS-526-23
US-PATENT-CLASS-526-27
US-PATENT-CLASS-526-275
US-PATENT-CLASS-526-276
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US-PATENT-CLASS-544-195
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US-PATENT-CLASS-65-60D
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US-PATENT-CLASS-260-63R
US-PATENT-CLASS-260-65
US-PATENT-CLASS-260-78TF
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US-PATENT-CLASS-264-184
US-PATENT-CLASS-264-211
US-PATENT-CLASS-264-236
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US-PATENT-CLASS-331-4
US-PATENT-CLASS-331-64
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US-PATENT-CLASS-307-230
US-PATENT-CLASS-328-145
US-PATENT-4,091,329
N78-32340* # c 33 ..... NASA-CASE-GSC-12146-1
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US-PATENT-CLASS-333-81R
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US-PATENT-CLASS-363-101
US-PATENT-CLASS-363-16
US-PATENT-CLASS-363-60
US-PATENT-4,092,712
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US-PATENT-CLASS-33-366
US-PATENT-4,094,073
N78-32396* # c 35 ..... NASA-CASE-MFS-23363-1
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US-PATENT-CLASS-324-173
US-PATENT-CLASS-324-207
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US-PATENT-APPL-SN-668771
US-PATENT-CLASS-324-249
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US-PATENT-CLASS-356-73
US-PATENT-CLASS-73-603
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US-PATENT-CLASS-60-39.14
US-PATENT-CLASS-60-39.33
US-PATENT-CLASS-98-1.5
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US-PATENT-CLASS-340-262
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US-PATENT-CLASS-340-285
US-PATENT-CLASS-340-309.1
US-PATENT-4,092,633
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US-PATENT-CLASS-427-38
US-PATENT-CLASS-427-387
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US-PATENT-CLASS-416-244A
US-PATENT-CLASS-74-572
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US-PATENT-CLASS-123-DIG.12
US-PATENT-CLASS-123-1A
US-PATENT-CLASS-123-3
US-PATENT-4,112,875
N78-33913* # c 74 ..... NASA-CASE-NPO-10233-1
US-PATENT-APPL-SN-716885
US-PATENT-CLASS-250-218
US-PATENT-CLASS-250-227
US-PATENT-CLASS-250-239
US-PATENT-CLASS-356-208
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US-PATENT-CLASS-415-116
US-PATENT-CLASS-60-39.14
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N79-10162* # c 25 ..... NASA-CASE-ARC-11053-1
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US-PATENT-CLASS-423-581
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US-PATENT-CLASS-204-299
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US-PATENT-CLASS-324-77C
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US-PATENT-CLASS-340-146.1E
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US-PATENT-CLASS-343-9
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US-PATENT-CLASS-324-72
US-PATENT-CLASS-324-96
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US-PATENT-CLASS-324-85
US-PATENT-CLASS-328-163
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US-PATENT-CLASS-301-82
US-PATENT-CLASS-315-3.5
US-PATENT-CLASS-315-3.6
US-PATENT-CLASS-330-43
US-PATENT-4,118,671
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US-PATENT-CLASS-252-301.1R
US-PATENT-CLASS-252-301.16
US-PATENT-CLASS-96-27R
US-PATENT-CLASS-96-60R
US-PATENT-4,101,780
N79-10390* # c 35 ..... NASA-CASE-LAR-12260-1
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US-PATENT-CLASS-73-589
US-PATENT-4,117,731
N79-10391* # c 35 ..... NASA-CASE-NPO-13862-1
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US-PATENT-CLASS-343-5CM
US-PATENT-CLASS-343-5W
US-PATENT-4,101,891
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US-PATENT-CLASS-308-160
US-PATENT-CLASS-308-163
US-PATENT-CLASS-308-172
US-PATENT-CLASS-308-5R
US-PATENT-CLASS-308-9
US-PATENT-4,099,799
N79-10419* # c 37 ..... NASA-CASE-FRC-10111-1
US-PATENT-APPL-SN-713027
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US-PATENT-CLASS-81-9.5R
US-PATENT-4,117,749
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US-PATENT-CLASS-188-1C
US-PATENT-CLASS-256-1
US-PATENT-CLASS-256-13.1
US-PATENT-4,118,014
N79-10421* # c 37 ..... NASA-CASE-MFS-23620-1
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US-PATENT-CLASS-219-124.32
US-PATENT-CLASS-219-125.1
US-PATENT-CLASS-228-8
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US-PATENT-CLASS-15-230.17
US-PATENT-CLASS-29-125
US-PATENT-CLASS-428-133
US-PATENT-CLASS-74-572
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N79-10513* # c 44 ..... NASA-CASE-NPO-13732-1
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US-PATENT-CLASS-429-42
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US-PATENT-CLASS-210-433M
US-PATENT-CLASS-210-96M
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N79-10694* # c 51 ..... NASA-CASE-GSC-12173-1
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US-PATENT-CLASS-165-30
US-PATENT-CLASS-195-1.8
US-PATENT-CLASS-219-299
US-PATENT-CLASS-219-302
US-PATENT-CLASS-62-514R
US-PATENT-CLASS-62-78
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US-PATENT-CLASS-358-96
US-PATENT-CLASS-364-417
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US-PATENT-CLASS-350-55
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N79-11108* # c 18 ..... NASA-CASE-MFS-23579-1
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US-PATENT-CLASS-228-173
US-PATENT-CLASS-244-159
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US-PATENT-CLASS-432-29
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N79-11152* # c 25 ..... NASA-CASE-NPO-13904-1
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US-PATENT-CLASS-44-51
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N79-11231* # c 28 ..... NASA-CASE-NPO-13858-1
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N79-11246* # c 31 ..... NASA-CASE-LAR-12147-1
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US-PATENT-CLASS-73-95
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US-PATENT-CLASS-343-854
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US-PATENT-CLASS-325-67
US-PATENT-CLASS-343-17.7
US-PATENT-4,119,964
N79-11313* # c 33 ..... NASA-CASE-MSC-16461-1
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US-PATENT-CLASS-328-133
US-PATENT-CLASS-331-1A
US-PATENT-CLASS-331-14
US-PATENT-CLASS-331-23
US-PATENT-CLASS-331-27
US-PATENT-4,119,926
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US-PATENT-CLASS-357-22
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N79-11315* # c 33 ..... NASA-CASE-KSC-11031-1
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US-PATENT-CLASS-324-113
US-PATENT-CLASS-324-133
US-PATENT-4,105,966
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US-PATENT-CLASS-137-637.05
US-PATENT-CLASS-251-149.9
US-PATENT-CLASS-285-326
US-PATENT-CLASS-285-359
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US-PATENT-APPL-SN-745766
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US-PATENT-CLASS-60-39.28R
US-PATENT-CLASS-60-39.66
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US-PATENT-APPL-SN-736909
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US-PATENT-CLASS-308-72
US-PATENT-4,105,261
N79-11405* # c 37 ..... NASA-CASE-NPO-13828-1
US-PATENT-APPL-SN-672636
US-PATENT-CLASS-123-148DC
US-PATENT-CLASS-123-148E
US-PATENT-CLASS-315-209CD
US-PATENT-CLASS-315-209SC
US-PATENT-CLASS-315-241R
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US-PATENT-CLASS-136-89SJ
US-PATENT-CLASS-357-15
US-PATENT-CLASS-357-16
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US-PATENT-CLASS-357-67
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US-PATENT-CLASS-427-75
US-PATENT-4,104,091
N79-11469* # c 44 ..... NASA-CASE-MFS-23518-1
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US-PATENT-CLASS-204-33
US-PATENT-CLASS-204-37R
US-PATENT-CLASS-204-38B
US-PATENT-4,104,134
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US-PATENT-CLASS-204-157.1R
US-PATENT-CLASS-250-527
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US-PATENT-CLASS-350-299
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US-PATENT-CLASS-427-261
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US-PATENT-CLASS-427-84
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US-PATENT-CLASS-356-210
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US-PATENT-CLASS-156-DIG.65
US-PATENT-CLASS-156-DIG.88
US-PATENT-CLASS-156-608
US-PATENT-CLASS-156-617SP
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US-PATENT-APPL-SN-786913
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US-PATENT-CLASS-244-160
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US-PATENT-CLASS-428-280
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US-PATENT-CLASS-357-45
US-PATENT-CLASS-357-55
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US-PATENT-CLASS-428-247
US-PATENT-CLASS-428-258
US-PATENT-CLASS-428-259
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US-PATENT-CLASS-73-194VS
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US-PATENT-CLASS-324-22
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US-PATENT-CLASS-210-60
US-PATENT-CLASS-210-63R
US-PATENT-CLASS-423-242
US-PATENT-CLASS-55-73
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US-PATENT-CLASS-364-415
US-PATENT-CLASS-364-900
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US-PATENT-CLASS-200-61

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US-PATENT-CLASS-250-214R
US-PATENT-CLASS-315-153
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US-PATENT-CLASS-343-118
US-PATENT-CLASS-343-7.4
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US-PATENT-CLASS-239-127.1
US-PATENT-CLASS-60-267
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US-PATENT-CLASS-165-169
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US-PATENT-CLASS-60-267
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N79-13364* # c 37 ..... NASA-CASE-LAR-10941-2
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US-PATENT-CLASS-228-2.5
US-PATENT-CLASS-29-421E
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N79-13826* # c 72 ..... NASA-CASE-NPO-13993-1
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US-PATENT-CLASS-331-94.5P
US-PATENT-CLASS-331-94.5PE
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US-PATENT-APPL-SN-772165
US-PATENT-CLASS-35-12C
US-PATENT-CLASS-35-12N
US-PATENT-CLASS-358-104
US-PATENT-4,106,218
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US-PATENT-CLASS-416-160
US-PATENT-CLASS-416-162
US-PATENT-CLASS-416-167
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US-PATENT-APPL-SN-753452
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US-PATENT-CLASS-244-54
US-PATENT-CLASS-415-200
US-PATENT-CLASS-415-201
US-PATENT-CLASS-60-226A
US-PATENT-CLASS-60-226R
US-PATENT-CLASS-60-39.31
US-PATENT-4,132,069
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US-PATENT-CLASS-239-265.39
US-PATENT-CLASS-60-226A
US-PATENT-4,132,068
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US-PATENT-APPL-SN-779429
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US-PATENT-CLASS-244-90R
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N79-14169* # c 25 ..... NASA-CASE-ARC-11121-1
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US-PATENT-CLASS-204-180S
US-PATENT-CLASS-204-299R
US-PATENT-CLASS-23-230B
US-PATENT-CLASS-424-12
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US-PATENT-CLASS-75-205
US-PATENT-CLASS-75-206
US-PATENT-CLASS-75-212
US-PATENT-CLASS-75-226
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US-PATENT-APPL-SN-767912
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US-PATENT-CLASS-149-20
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US-PATENT-CLASS-364-604
US-PATENT-CLASS-364-728
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N79-14268* # c 32 ..... NASA-CASE-NPO-14019-1
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US-PATENT-CLASS-343-5CM
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N79-14305* # c 33 ..... NASA-CASE-KSC-11057-1
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US-PATENT-CLASS-324-112
US-PATENT-CLASS-324-113
US-PATENT-CLASS-324-133
US-PATENT-CLASS-324-72
US-PATENT-4,112,357
N79-14345* # c 35 ..... NASA-CASE-LEW-12661-1
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US-PATENT-CLASS-73-115
US-PATENT-4,111,041
N79-14346* # c 35 ..... NASA-CASE-LEW-12174-2
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US-PATENT-APPL-SN-853679
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US-PATENT-CLASS-136-236
US-PATENT-4,111,718
N79-14347* # c 35 ..... NASA-CASE-LAR-12230-1
US-PATENT-APPL-SN-835628
US-PATENT-CLASS-73-147
US-PATENT-CLASS-73-4R
US-PATENT-CLASS-73-714
US-PATENT-CLASS-73-721
US-PATENT-CLASS-73-756
US-PATENT-4,111,058
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US-PATENT-APPL-SN-804035
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US-PATENT-CLASS-318-594
US-PATENT-CLASS-318-640
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US-PATENT-CLASS-331-94
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US-PATENT-CLASS-416-61
US-PATENT-CLASS-74-586
US-PATENT-4,111,068
N79-14383* # c 37 ..... NASA-CASE-NPO-13541-1
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US-PATENT-CLASS-81-180B
US-PATENT-CLASS-81-90B
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N79-14398* # c 38 ..... NASA-CASE-MSC-19672-1
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US-PATENT-CLASS-310-336
US-PATENT-CLASS-73-632
US-PATENT-CLASS-73-641
US-PATENT-CLASS-73-644
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US-PATENT-CLASS-126-271
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N79-14527* # c 44 ..... NASA-CASE-HQN-10888-1
US-PATENT-APPL-SN-760057
US-PATENT-CLASS-188-151A
US-PATENT-CLASS-188-269
US-PATENT-CLASS-303-92
US-PATENT-CLASS-415-9
US-PATENT-CLASS-416-2
US-PATENT-CLASS-74-572
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N79-14528* # c 44 ..... NASA-CASE-LEW-12236-2
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US-PATENT-APPL-SN-899123
US-PATENT-CLASS-136-89SJ
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US-PATENT-CLASS-350-320
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US-PATENT-CLASS-150-1
US-PATENT-CLASS-195-1.8
US-PATENT-CLASS-206-439
US-PATENT-CLASS-210-DIG.23
US-PATENT-CLASS-422-41
US-PATENT-CLASS-422-48
US-PATENT-CLASS-55-15-8
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US-PATENT-CLASS-195-103.5L
US-PATENT-4,132,599
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NASA-CASE-NPO-13944-1
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US-PATENT-CLASS-73-633
US-PATENT-CLASS-73-644
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US-PATENT-CLASS-181-213
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US-PATENT-CLASS-181-293
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US-PATENT-CLASS-350-157
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N79-14906* # c 76 ..... NASA-CASE-MFS-23541-1
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US-PATENT-CLASS-250-540
US-PATENT-CLASS-250-541
US-PATENT-4,130,490
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US-PATENT-CLASS-340-174.1M
US-PATENT-CLASS-346-74MT
US-PATENT-3,626,114
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NASA-CASE-NPO-13247-1
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US-PATENT-CLASS-117-237
US-PATENT-CLASS-117-239
US-PATENT-CLASS-117-240
US-PATENT-CLASS-148-121
US-PATENT-CLASS-148-6
US-PATENT-CLASS-75-134D
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US-PATENT-CLASS-165-30
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US-PATENT-CLASS-62-514R
US-PATENT-4,134,447
N79-17133* # c 33 ..... NASA-CASE-MFS-23659-1
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US-PATENT-CLASS-336-DIG.1
US-PATENT-4,135,127
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N79-17192* # c 35 ..... NASA-CASE-LEW-11583-1
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US-PATENT-CLASS-55-155
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US-PATENT-CLASS-356-300
US-PATENT-CLASS-356-407
US-PATENT-CLASS-356-416
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US-PATENT-CLASS-429-33
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N79-17314* # c 44 ..... NASA-CASE-NPO-13652-1
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US-PATENT-CLASS-29-572
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NASA-CASE-NPO-13848-2
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US-PATENT-CLASS-210-73R
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US-PATENT-CLASS-416-88
US-PATENT-CLASS-416-89
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US-PATENT-CLASS-308-DIG.9
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US-PATENT-CLASS-308-171
US-PATENT-CLASS-308-78
US-PATENT-CLASS-308-87R
US-PATENT-CLASS-427-292
US-PATENT-CLASS-427-327
US-PATENT-CLASS-427-328
US-PATENT-CLASS-427-34
US-PATENT-CLASS-427-355
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US-PATENT-CLASS-427-376C
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US-PATENT-APPL-SN-779883
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US-PATENT-CLASS-428-451
US-PATENT-4,137,365
N79-18193* # c 33 ..... NASA-CASE-KSC-10899-1
US-PATENT-APPL-SN-814004
US-PATENT-CLASS-324-127
US-PATENT-CLASS-324-133
US-PATENT-CLASS-324-52
US-PATENT-CLASS-340-650
US-PATENT-CLASS-340-664
US-PATENT-4,110,683
N79-18296* # c 35 ..... NASA-CASE-LAR-12275-1
US-PATENT-APPL-SN-885065
US-PATENT-CLASS-356-28
US-PATENT-CLASS-358-107
US-PATENT-4,135,817
N79-18307* # c 36 ..... NASA-CASE-LAR-12183-1
US-PATENT-CLASS-331-94.5G
US-PATENT-CLASS-331-94.5P
US-PATENT-CLASS-788-704
US-PATENT-4,110,703
N79-18318* # c 37 ..... NASA-CASE-LEW-12131-1
US-PATENT-APPL-SN-801290
US-PATENT-CLASS-415-174
US-PATENT-CLASS-415-200
US-PATENT-4,135,851
N79-18443* # c 44 ..... NASA-CASE-NPO-14058-1
US-PATENT-APPL-SN-824024
US-PATENT-CLASS-126-271
US-PATENT-CLASS-165-105
US-PATENT-CLASS-60-508
US-PATENT-CLASS-60-572
US-PATENT-CLASS-60-641
US-PATENT-4,135,367
N79-18444* # c 44 ..... NASA-CASE-LEW-12819-2
US-PATENT-APPL-SN-863770
US-PATENT-CLASS-148-6.3
US-PATENT-CLASS-29-572
US-PATENT-CLASS-29-578
US-PATENT-CLASS-29-591
US-PATENT-4,135,290
N79-18580* # c 52 ..... NASA-CASE-ARC-11035-1
US-PATENT-APPL-SN-758721
US-PATENT-CLASS-128-2.05Z
US-PATENT-CLASS-128-2.1A
US-PATENT-CLASS-128-2V
US-PATENT-4,109,644
N79-19186* # c 32 ..... NASA-CASE-WOO-00428-1
US-PATENT-APPL-SN-112999
US-PATENT-CLASS-117-35
US-PATENT-3,173,801
N79-19195* # c 32 ..... NASA-CASE-NPO-14525-1
US-PATENT-APPL-SN-017885
N79-19447* # c 44 ..... NASA-CASE-XGS-00829-1
US-PATENT-APPL-SN-286824
US-PATENT-CLASS-269-153
US-PATENT-3,262,694
N79-20179* # c 20 ..... NASA-CASE-LEW-12760-1
US-PATENT-APPL-SN-891370
US-PATENT-CLASS-323-15
US-PATENT-CLASS-323-20
US-PATENT-4,143,314
N79-20296* # c 32 ..... NASA-CASE-GSC-12148-1
US-PATENT-APPL-SN-786322
US-PATENT-CLASS-325-58
US-PATENT-CLASS-325-63
US-PATENT-CLASS-343-179
US-PATENT-4,140,972
N79-20297* # c 32 ..... NASA-CASE-MSC-16253-1
US-PATENT-APPL-SN-831631
US-PATENT-CLASS-358-109
US-PATENT-CLASS-358-81
US-PATENT-CLASS-364-713
US-PATENT-4,139,862
N79-20314* # c 33 ..... NASA-CASE-GSC-12138-1
US-PATENT-APPL-SN-779871
US-PATENT-CLASS-310-231
US-PATENT-CLASS-310-46
US-PATENT-CLASS-310-82
US-PATENT-4,142,119
N79-20335* # c 34 ..... NASA-CASE-NPO-14130-1
US-PATENT-APPL-SN-847278
US-PATENT-CLASS-415-1
US-PATENT-CLASS-415-143
US-PATENT-CLASS-60-645
US-PATENT-CLASS-60-649
US-PATENT-4;141,219
N79-20336* # c 34 ..... NASA-CASE-LEW-11981-2
US-PATENT-APPL-SN-829315
US-PATENT-CLASS-250-352
US-PATENT-CLASS-313-22
US-PATENT-CLASS-313-35
US-PATENT-CLASS-62-268
US-PATENT-CLASS-62-376
US-PATENT-CLASS-62-514R
US-PATENT-4,141,224
N79-20377* # c 37 ..... NASA-CASE-MSC-19514-1
US-PATENT-APPL-SN-772168
US-PATENT-CLASS-74-674
US-PATENT-CLASS-74-705
US-PATENT-CLASS-74-764
US-PATENT-4,141,259
N79-20746* # c 54 ..... NASA-CASE-NPO-14521-1
US-PATENT-APPL-SN-023439
N79-20751* # c 60 ..... NASA-CASE-NPO-13676-1
US-PATENT-APPL-SN-779415
US-PATENT-CLASS-340-347DD
US-PATENT-CLASS-364-900
US-PATENT-4,139,839
N79-20827* # c 71 ..... NASA-CASE-NPO-14005-1
US-PATENT-APPL-SN-812447
US-PATENT-CLASS-310-20
US-PATENT-CLASS-310-26
US-PATENT-CLASS-310-322
US-PATENT-CLASS-310-334
US-PATENT-CLASS-318-116
US-PATENT-CLASS-60-721
US-PATENT-CLASS-73-505
US-PATENT-4,139,806
N79-20856* # c 74 ..... NASA-CASE-NPO-14174-1
US-PATENT-APPL-SN-876441
US-PATENT-CLASS-250-237G
US-PATENT-CLASS-354-77
US-PATENT-CLASS-356-129
US-PATENT-4,139,291
N79-20857* # c 74 ..... NASA-CASE-GSC-12263-1
US-PATENT-APPL-SN-817415
US-PATENT-CLASS-250-363R
US-PATENT-CLASS-250-483
US-PATENT-4,142,101
N79-21083* # c 09 ..... NASA-CASE-LAR-10135-1
US-PATENT-APPL-SN-648034
US-PATENT-CLASS-73-147
US-PATENT-3,453,878
N79-21084* # c 09 ..... NASA-CASE-XLE-03186-1
US-PATENT-APPL-SN-200770
US-PATENT-CLASS-89-8
US-PATENT-3,224,337
N79-21123* # c 20 ..... NASA-CASE-XMF-06884-1
US-PATENT-APPL-SN-579300
US-PATENT-CLASS-164-105
US-PATENT-3,485,290
N79-21124* # c 20 ..... NASA-CASE-XMF-05964-1
US-PATENT-APPL-SN-578397
US-PATENT-CLASS-60-243
US-PATENT-3,390,528
N79-21125* # c 20 ..... NASA-CASE-XMF-04592-1
NASA-CASE-XMF-04593-1
US-PATENT-APPL-SN-579376
US-PATENT-CLASS-60-39.74
US-PATENT-3,397,537
N79-21190* # c 27 ..... NASA-CASE-XMF-02526-1
NASA-CASE-XMF-02527-1
NASA-CASE-XMF-02783-1
US-PATENT-APPL-SN-483817
US-PATENT-CLASS-260-2
US-PATENT-3,311,571
N79-21191* # c 27 ..... NASA-CASE-XMF-06900-1
US-PATENT-APPL-SN-554959
US-PATENT-CLASS-260-67
US-PATENT-3,419,531
N79-21225* # c 31 ..... NASA-CASE-XLE-02367-1
US-PATENT-APPL-SN-400857
US-PATENT-CLASS-222-131
US-PATENT-3,215,313
N79-21226* # c 31 ..... NASA-CASE-MFS-10946-1
US-PATENT-APPL-SN-581843
US-PATENT-CLASS-156-52
US-PATENT-3,481,802
N79-21227* # c 31 ..... NASA-CASE-XMF-05757-1
US-PATENT-APPL-SN-562558
US-PATENT-CLASS-117-43
US-PATENT-3,511,680
N79-21264* # c 33 ..... NASA-CASE-XMF-05373-1
US-PATENT-APPL-SN-474815
US-PATENT-CLASS-335-216
US-PATENT-3,310,765
N79-21265* # c 33 ..... NASA-CASE-XNP-02899-1
US-PATENT-APPL-SN-472643
US-PATENT-CLASS-317-245
US-PATENT-3,356,917
N79-21345* # c 37 ..... NASA-CASE-XMS-01295-1
US-PATENT-APPL-SN-77869
US-PATENT-CLASS-55-159
US-PATENT-3,131,040
N79-21750* # c 52 ..... NASA-CASE-MSC-12239-1
US-PATENT-APPL-SN-292340
US-PATENT-CLASS-128.2.07
US-PATENT-3,396,719
N79-21910* # c 76 ..... NASA-CASE-XLE-02545-1
US-PATENT-APPL-SN-430748
US-PATENT-CLASS-156-17
US-PATENT-3,429,756
N79-22235* # c 25 ..... NASA-CASE-LEW-12513-1
US-PATENT-APPL-SN-772167
US-PATENT-CLASS-195-103.5R
US-PATENT-CLASS-195-127
US-PATENT-CLASS-204-1T
US-PATENT-CLASS-2041-195B
US-PATENT-4,145,255
N79-22271* # c 26 ..... NASA-CASE-LEW-12542-2
US-PATENT-APPL-SN-803822

US-PATENT-APPL-SN-860405
US-PATENT-CLASS-148-12.4
US-PATENT-CLASS-148-12F
US-PATENT-CLASS-148-2
US-PATENT-4,146,409

N79-22300* # c 27 ..... NASA-CASE-ARC-11060-1
US-PATENT-APPL-SN-843090
US-PATENT-CLASS-260-307G
US-PATENT-CLASS-528-401
US-PATENT-CLASS-528-422
US-PATENT-4,145,524

N79-22373* # c 33 ..... NASA-CASE-KSC-11008-1
US-PATENT-APPL-SN-780729
US-PATENT-CLASS-324-123C
US-PATENT-CLASS-324-99D
US-PATENT-CLASS-330-2
US-PATENT-CLASS-330-51
US-PATENT-CLASS-330-86
US-PATENT-4,109,213

N79-22474* # c 37 ..... NASA-CASE-MFS-23646-1
US-PATENT-APPL-SN-891372
US-PATENT-CLASS-138-96R
US-PATENT-CLASS-220-266
US-PATENT-CLASS-239-265.15
US-PATENT-CLASS-239-288
US-PATENT-CLASS-277-192
US-PATENT-4,146,180

N79-22475* # c 37 ..... NASA-CASE-LEW-11873-1
US-PATENT-APPL-SN-814006
US-PATENT-CLASS-277-62
US-PATENT-CLASS-277-96.1
US-PATENT-4,145,058

N79-22537* # c 39 ..... NASA-CASE-LAR-12027-1
US-PATENT-APPL-SN-889670
US-PATENT-CLASS-73-770
US-PATENT-CLASS-73-810
US-PATENT-4,145,933

N79-22679* # c 46 ..... NASA-CASE-NPO-14112-1
US-PATENT-APPL-SN-826326
US-PATENT-CLASS-102-21.6
US-PATENT-CLASS-166-63
US-PATENT-CLASS-175-1
US-PATENT-CLASS-181-106
US-PATENT-CLASS-181-117
US-PATENT-4,148,375

N79-23097* # c 08 ..... NASA-CASE-LAR-12215-1
US-PATENT-APPL-SN-858762
US-PATENT-CLASS-244-17.13
US-PATENT-CLASS-244-195
US-PATENT-CLASS-244-83G
US-PATENT-CLASS-318-585
US-PATENT-CLASS-318-616
US-PATENT-CLASS-364-434
US-PATENT-4,148,452

N79-23310* # c 32 ..... NASA-CASE-KSC-11023-1
US-PATENT-APPL-SN-918533
US-PATENT-CLASS-179-1MN
US-PATENT-CLASS-179-27CA
US-PATENT-CLASS-179-84VF
US-PATENT-4,153,818

N79-23345* # c 33 ..... NASA-CASE-FRC-10116-1
US-PATENT-APPL-SN-885049
US-PATENT-CLASS-323-22T
US-PATENT-4,151,456

N79-23481* # c 44 ..... NASA-CASE-MFS-23349-1
US-PATENT-APPL-SN-823061
US-PATENT-CLASS-126-270
US-PATENT-CLASS-126-271
US-PATENT-4,148,295

N79-23555* # c 46 ..... NASA-CASE-NPO-14255-1
US-PATENT-APPL-SN-830458
US-PATENT-CLASS-181-115
US-PATENT-CLASS-181-120
US-PATENT-CLASS-340-12R
US-PATENT-4,153,134

N79-23753* # c 71 ..... NASA-CASE-NPO-14134-1
US-PATENT-APPL-SN-861392
US-PATENT-CLASS-179-1DM
US-PATENT-CLASS-179-1MF
US-PATENT-CLASS-181-148
US-PATENT-CLASS-340-8LF
US-PATENT-4,149,034

N79-23798* # c 76 ..... NASA-CASE-NPO-13969-1
US-PATENT-APPL-SN-820499
US-PATENT-CLASS-156-DIG.6-8
US-PATENT-CLASS-156-617SP
US-PATENT-CLASS-423-345
US-PATENT-4,152,194

N79-24062* # c 24 ..... NASA-CASE-ARC-11169-1
US-PATENT-APPL-SN-940688
US-PATENT-CLASS-428-366
US-PATENT-4,148,962

N79-24073* # c 25 ..... NASA-CASE-LAR-11922-1
US-PATENT-APPL-SN-856460
US-PATENT-CLASS-195-127
US-PATENT-CLASS-204-195B
US-PATENT-4,149,938

N79-24203* # c 32 ..... NASA-CASE-LAR-12375-1
US-PATENT-APPL-SN-900842
US-PATENT-CLASS-73-647
US-PATENT-CLASS-73-724
US-PATENT-4,149,423

N79-24210* # c 32 ..... NASA-CASE-NPO-13641-1
US-PATENT-APPL-SN-777983
US-PATENT-CLASS-343-100TD
US-PATENT-4,148,031

N79-24254* # c 33 ..... NASA-CASE-NPO-14000-1
US-PATENT-APPL-SN-876431
US-PATENT-CLASS-307-82
US-PATENT-CLASS-363-56
US-PATENT-CLASS-363-71
US-PATENT-CLASS-363-97
US-PATENT-4,150,425

N79-24257* # c 33 ..... NASA-CASE-NPO-14056-1
US-PATENT-APPL-SN-833637
US-PATENT-CLASS-363-134
US-PATENT-CLASS-363-71
US-PATENT-CLASS-363-95
US-PATENT-4,149,233

N79-24285* # c 34 ..... NASA-CASE-MSC-16841-1
US-PATENT-APPL-SN-893382
US-PATENT-CLASS-210-108
US-PATENT-CLASS-210-142
US-PATENT-CLASS-73-714
US-PATENT-4,151,086

N79-24431* # c 44 ..... NASA-CASE-NPO-13652-2
US-PATENT-APPL-SN-848794
US-PATENT-CLASS-228-5.1
US-PATENT-CLASS-228-6
US-PATENT-CLASS-29-57-4
US-PATENT-CLASS-29-572
US-PATENT-CLASS-29-739
US-PATENT-CLASS-29-809
US-PATENT-4,149,665

N79-24432* # c 44 ..... NASA-CASE-NPO-13579-3
US-PATENT-APPL-SN-762363
US-PATENT-CLASS-126-270
US-PATENT-CLASS-264-1
US-PATENT-CLASS-264-33
US-PATENT-CLASS-264-34
US-PATENT-CLASS-264-35
US-PATENT-CLASS-264-510
US-PATENT-CLASS-264-516
US-PATENT-CLASS-264-70
US-PATENT-CLASS-264-71
US-PATENT-CLASS-350-292
US-PATENT-CLASS-350-294
US-PATENT-CLASS-350-296
US-PATENT-CLASS-405-229
US-PATENT-CLASS-405-263
US-PATENT-4,149,817

N79-24433* # c 44 ..... NASA-CASE-NPO-13579-2
US-PATENT-APPL-SN-762362
US-PATENT-CLASS-126-271
US-PATENT-CLASS-126-400
US-PATENT-CLASS-237-1A
US-PATENT-CLASS-350-288
US-PATENT-CLASS-350-299
US-PATENT-4,149,521

N79-24651* # c 54 ..... NASA-CASE-ARC-11058-2
US-PATENT-APPL-SN-753965
US-PATENT-APPL-SN-883094
US-PATENT-CLASS-2-2.1A
US-PATENT-CLASS-285-235
US-PATENT-4,091,464
US-PATENT-4,151,612

N79-24652* # c 54 ..... NASA-CASE-NPO-13906-1
US-PATENT-APPL-SN-837259
US-PATENT-CLASS-3-1.1
US-PATENT-CLASS-3-12.5
US-PATENT-CLASS-414-6
US-PATENT-4,149,278

N79-24976* # c 05 ..... NASA-CASE-LEW-11890-1
US-PATENT-APPL-SN-891244
US-PATENT-CLASS-137-15.1
US-PATENT-CLASS-244-53B
US-PATENT-4,154,256

N79-25142* # c 24 ..... NASA-CASE-MSC-12737-1
US-PATENT-APPL-SN-788045
US-PATENT-CLASS-102-105
US-PATENT-CLASS-244-121
US-PATENT-CLASS-244-163
US-PATENT-CLASS-427-350
US-PATENT-CLASS-427-372A
US-PATENT-CLASS-428-137
US-PATENT-CLASS-428-282
US-PATENT-CLASS-428-290
US-PATENT-CLASS-428-332
US-PATENT-CLASS-428-447
US-PATENT-CLASS-428-920
US-PATENT-4,151,800

N79-25143* # c 24 ..... NASA-CASE-GSC-11577-3
US-PATENT-APPL-SN-322997
US-PATENT-APPL-SN-506803
US-PATENT-APPL-SN-645502
US-PATENT-CLASS-156-89
US-PATENT-CLASS-220-2.2
US-PATENT-CLASS-65-43
US-PATENT-3,859,714
US-PATENT-4,155,475

N79-25443* # c 43 ..... NASA-CASE-MFS-23720-3
US-PATENT-APPL-SN-848420
US-PATENT-CLASS-73-12
US-PATENT-CLASS-73-82
US-PATENT-4,154,084

N79-25481* # c 44 ..... NASA-CASE-LEW-12972-1
US-PATENT-APPL-SN-897829
US-PATENT-CLASS-429-253
US-PATENT-CLASS-526-7
US-PATENT-CLASS-526-9
US-PATENT-4,154,912

N79-25482* # c 44 ..... NASA-CASE-NPO-14199-1
NASA-CASE-NPO-14200-1
US-PATENT-APPL-SN-891243
US-PATENT-CLASS-136-89CA
US-PATENT-CLASS-136-89CC
US-PATENT-CLASS-136-89PC
US-PATENT-CLASS-136-89SJ
US-PATENT-4,153,476

N79-26075* # c 12 ..... NASA-CASE-MFS-23460-1
US-PATENT-APPL-SN-746578
US-PATENT-CLASS-13-20
US-PATENT-CLASS-13-22
US-PATENT-CLASS-13-24
US-PATENT-CLASS-219-410
US-PATENT-4,158,742

N79-26100* # c 15 ..... NASA-CASE-ARC-11104-1
US-PATENT-APPL-SN-854920
US-PATENT-CLASS-244-121
US-PATENT-CLASS-260-37EP
US-PATENT-CLASS-260-830S
US-PATENT-CLASS-264-102
US-PATENT-CLASS-264-145
US-PATENT-CLASS-264-151
US-PATENT-CLASS-264-175
US-PATENT-CLASS-264-236
US-PATENT-CLASS-428-220
US-PATENT-CLASS-428-413
US-PATENT-CLASS-428-414
US-PATENT-CLASS-428-418
US-PATENT-CLASS-428-421
US-PATENT-CLASS-428-920
US-PATENT-4,156,752

N79-26372* # c 35 ..... NASA-CASE-LAR-11889-1
US-PATENT-APPL-SN-662182
US-PATENT-CLASS-308-10
US-PATENT-CLASS-73-178R
US-PATENT-4,156,548

N79-26439* # c 43 ..... NASA-CASE-MFS-23726-1
US-PATENT-APPL-SN-848418
US-PATENT-CLASS-105-161
US-PATENT-CLASS-299-1
US-PATENT-CLASS-33-1N
US-PATENT-CLASS-33-1Q
US-PATENT-CLASS-33-174L
US-PATENT-CLASS-364-560
US-PATENT-4,156,971

N79-26474* # c 44 ..... NASA-CASE-LEW-13150-1
US-PATENT-APPL-SN-914260
US-PATENT-CLASS-429-101
US-PATENT-CLASS-429-15
US-PATENT-4,159,366

N79-26475* # c 44 ..... NASA-CASE-MFS-23540-1
US-PATENT-APPL-SN-863773
US-PATENT-CLASS-29-572
US-PATENT-CLASS-29-577
US-PATENT-CLASS-29-578
US-PATENT-CLASS-29-580
US-PATENT-CLASS-357-45
US-PATENT-4,156,309

N79-26771* # c 52 ..... NASA-CASE-ARC-10994-2
US-PATENT-APPL-SN-759965
US-PATENT-CLASS-128-660
US-PATENT-CLASS-73-626
US-PATENT-4,154,230

N79-26772* # c 52 ..... NASA-CASE-KSC-11069-1
US-PATENT-APPL-SN-876438
US-PATENT-CLASS-3-1.9
US-PATENT-CLASS-3-12
US-PATENT-CLASS-3-2
US-PATENT-4,158,895

N79-27836* # c 52 ..... NASA-CASE-NPO-13910-1
US-PATENT-APPL-SN-712270
US-PATENT-CLASS-128-329R
US-PATENT-CLASS-128-639
US-PATENT-4,154,228

N79-28253* # c 25 ..... NASA-CASE-NPO-13650-1
US-PATENT-APPL-SN-704468

US-PATENT-CLASS-118-49
US-PATENT-CLASS-23-252R
US-PATENT-CLASS-248
US-PATENT-CLASS-253
US-PATENT-CLASS-337
US-PATENT-CLASS-349
US-PATENT-CLASS-423-33-5
US-PATENT-CLASS-427-95
US-PATENT-4,033,286

N79-28307* # c 27 ..... NASA-CASE-LEW-12053-2
US-PATENT-APPL-SN-796263
US-PATENT-CLASS-260-37N
US-PATENT-CLASS-260-42
US-PATENT-CLASS-260-53
US-PATENT-CLASS-528-126
US-PATENT-CLASS-528-127
US-PATENT-CLASS-528-128
US-PATENT-CLASS-528-221
US-PATENT-CLASS-528-223
US-PATENT-CLASS-528-225
US-PATENT-CLASS-528-227
US-PATENT-CLASS-528-229
US-PATENT-CLASS-528-331
US-PATENT-CLASS-528-336
US-PATENT-CLASS-528-337
US-PATENT-CLASS-528-338
US-PATENT-CLASS-528-342
US-PATENT-CLASS-544-193
US-PATENT-4,159,262

N79-28342* # c 28 ..... NASA-CASE-NPO-14260-1
US-PATENT-APPL-SN-861390
US-PATENT-CLASS-149-19.4
US-PATENT-CLASS-149-19.9
US-PATENT-CLASS-149-20
US-PATENT-4,158,583

N79-28370* # c 31 ..... NASA-CASE-MFS-23721-1
US-PATENT-APPL-SN-847277
US-PATENT-CLASS-343-14
US-PATENT-CLASS-343-5NA
US-PATENT-4,161,731

N79-28415* # c 33 ..... NASA-CASE-MSC-16697-1
US-PATENT-APPL-SN-885067
US-PATENT-CLASS-307-119
US-PATENT-CLASS-307-98
US-PATENT-CLASS-361-170
US-PATENT-4,161,661

N79-28416* # c 33 ..... NASA-CASE-GSC-12171-1
US-PATENT-APPL-SN-878542
US-PATENT-CLASS-343-909
US-PATENT-4,160,254

N79-28527* # c 35 ..... NASA-CASE-NPO-13953-1
US-PATENT-APPL-SN-880727
US-PATENT-CLASS-356-237
US-PATENT-CLASS-356-404
US-PATENT-4,160,601

N79-28549* # c 37 ..... NASA-CASE-GSC-12297-1
US-PATENT-APPL-SN-880838
US-PATENT-CLASS-165-105
US-PATENT-CLASS-357-74
US-PATENT-CLASS-357-79
US-PATENT-CLASS-357-81
US-PATENT-CLASS-357-82
US-PATENT-CLASS-357-83
US-PATENT-4,161,747

N79-28550* # c 37 ..... NASA-CASE-GSC-12274-1
US-PATENT-APPL-SN-909100
US-PATENT-CLASS-251-7
US-PATENT-CLASS-72-436
US-PATENT-CLASS-72-451
US-PATENT-CLASS-72-470
US-PATENT-4,159,634

N79-28551* # c 37 ..... NASA-CASE-ARC-11052-1
US-PATENT-APPL-SN-826202
US-PATENT-CLASS-414-4
US-PATENT-4,160,508

N79-31228* # c 09 ..... NASA-CASE-LAR-12149-2
US-PATENT-APPL-SN-829314
US-PATENT-APPL-SN-928131
US-PATENT-CLASS-35-12E
US-PATENT-CLASS-35-12H
US-PATENT-4,164,079

N79-31347* # c 24 ..... NASA-CASE-GSC-12303-1
US-PATENT-APPL-SN-862880
US-PATENT-CLASS-106-74
US-PATENT-CLASS-106-84
US-PATENT-4,162,169

N79-31523* # c 34 ..... NASA-CASE-GSC-12253-1
US-PATENT-APPL-SN-853677
US-PATENT-CLASS-165-105
US-PATENT-CLASS-165-32
US-PATENT-CLASS-244-1R
US-PATENT-CLASS-244-163
US-PATENT-4,162,701

N79-31706* # c 43 ..... NASA-CASE-MFS-23725-1
US-PATENT-APPL-SN-848793
US-PATENT-CLASS-250-253
US-PATENT-CLASS-250-272
US-PATENT-4,165,460

N79-31752* # c 44 ..... NASA-CASE-NPO-14205-1
US-PATENT-APPL-SN-920879
US-PATENT-CLASS-106-1
US-PATENT-CLASS-106-1.2
US-PATENT-CLASS-136-89CC
US-PATENT-CLASS-252-514
US-PATENT-CLASS-29-572
US-PATENT-CLASS-29-589
US-PATENT-CLASS-357-30
US-PATENT-CLASS-357-65
US-PATENT-CLASS-357-67
US-PATENT-CLASS-427-88
US-PATENT-4,163,678

N79-31753* # c 44 ..... NASA-CASE-NPO-14467-1
US-PATENT-APPL-SN-946994
US-PATENT-CLASS-136-89PC
US-PATENT-4,162,928

N79-33316* # c 27 ..... NASA-CASE-LAR-12054-1
US-PATENT-APPL-SN-839963
US-PATENT-CLASS-264-137
US-PATENT-CLASS-428-474
US-PATENT-CLASS-528-229
US-PATENT-4,166,170

N79-33392* # c 33 ..... NASA-CASE-XMF-04494-1
US-PATENT-APPL-SN-547643
US-PATENT-CLASS-200-83
US-PATENT-3,378,657

N79-33393* # c 33 ..... NASA-CASE-XMS-01244-1
US-PATENT-APPL-SN-20370
US-PATENT-CLASS-200-114
US-PATENT-3,123,692

N79-33449* # c 35 ..... NASA-CASE-XGS-01245-1
US-PATENT-APPL-SN-134619
US-PATENT-CLASS-338-18
US-PATENT-3,119,086

N79-33450* # c 35 ..... NASA-CASE-XGS-01293-1
US-PATENT-APPL-SN-150690
US-PATENT-CLASS-73-400
US-PATENT-3,190,124

N79-33467* # c 37 ..... NASA-CASE-XMS-01077-1
US-PATENT-APPL-SN-228049
US-PATENT-CLASS-312-319
US-PATENT-3,123,418

N79-33468* # c 37 ..... NASA-CASE-HQN-00573-1
US-PATENT-APPL-SN-129379
US-PATENT-CLASS-137-14
US-PATENT-3,134,389

N79-33469* # c 37 ..... NASA-CASE-XGS-01286-1
US-PATENT-APPL-SN-142583
US-PATENT-CLASS-251-172
US-PATENT-3,233,862

N79-34011* # c 74 ..... NASA-CASE-NPO-14066-1
US-PATENT-APPL-SN-827464
US-PATENT-CLASS-250-216
US-PATENT-CLASS-250-551
US-PATENT-4,166,959

N80-10278* # c 20 ..... NASA-CASE-MFS-23642-1
US-PATENT-APPL-SN-923758
US-PATENT-CLASS-137-177
US-PATENT-CLASS-137-209
US-PATENT-CLASS-137-574
US-PATENT-CLASS-137-576
US-PATENT-CLASS-137-590
US-PATENT-CLASS-244-135R
US-PATENT-4,168,718

N80-10358* # c 27 ..... NASA-CASE-MSC-14903-2
US-PATENT-APPL-SN-706424
US-PATENT-APPL-SN-907435
US-PATENT-CLASS-260-926
US-PATENT-4,092,466
US-PATENT-4,168,287

N80-10374* # c 28 ..... NASA-CASE-NPO-13849-1
NASA-CASE-NPO-13907-1
US-PATENT-APPL-SN-668783
US-PATENT-CLASS-123-DIG.12
US-PATENT-CLASS-123-179R
US-PATENT-CLASS-123-3
US-PATENT-CLASS-23-288R
US-PATENT-CLASS-423-650
US-PATENT-CLASS-48-DIG.8
US-PATENT-CLASS-48-10-3
US-PATENT-CLASS-48-102A
US-PATENT-CLASS-48-107
US-PATENT-CLASS-48-117
US-PATENT-CLASS-48-61
US-PATENT-CLASS-60-300
US-PATENT-CLASS-60-606
US-PATENT-4,033,133

N80-10494* # c 37 ..... NASA-CASE-NPO-14384-1
US-PATENT-APPL-SN-880728
US-PATENT-CLASS-210-186
US-PATENT-CLASS-210-340
US-PATENT-CLASS-239-102
US-PATENT-CLASS-239-302
US-PATENT-CLASS-422-187
US-PATENT-CLASS-422-199
US-PATENT-CLASS-422-208
US-PATENT-CLASS-422-235
US-PATENT-CLASS-422-242
US-PATENT-CLASS-423-350
US-PATENT-4,169,129

N80-10507* # c 39 ..... NASA-CASE-NPO-14192-1
US-PATENT-APPL-SN-830562
US-PATENT-CLASS-181-102
US-PATENT-CLASS-181-105
US-PATENT-CLASS-367-26
US-PATENT-CLASS-467-28
US-PATENT-4,168,483

N80-10709* # c 46 ..... NASA-CASE-NPO-14231-1
US-PATENT-APPL-SN-903019
US-PATENT-CLASS-175-78
US-PATENT-CLASS-73-155
US-PATENT-4,167,111

N80-10799* # c 54 ..... NASA-CASE-MSC-16182-1
US-PATENT-APPL-SN-780938
US-PATENT-CLASS-128-142R
US-PATENT-CLASS-128-191R
US-PATENT-CLASS-128-212
US-PATENT-4,168,706

N80-14107* # c 05 ..... NASA-CASE-ARC-11106-1
US-PATENT-APPL-SN-831633
US-PATENT-CLASS-415-199
US-PATENT-CLASS-416-228
US-PATENT-CLASS-416-238
US-PATENT-4,168,939

N80-14183* # c 18 ..... NASA-CASE-GSC-12331-1
US-PATENT-APPL-SN-943088
US-PATENT-CLASS-343-880
US-PATENT-CLASS-343-883
US-PATENT-4,176,360

N80-14188* # c 20 ..... NASA-CASE-XLE-02062-1
US-PATENT-APPL-SN-545793
US-PATENT-CLASS-60-203
US-PATENT-CLASS-60-259
US-PATENT-4,171,615

N80-14229* # c 26 ..... NASA-CASE-NPO-14474-1
US-PATENT-APPL-SN-918537
US-PATENT-CLASS-423-149
US-PATENT-CLASS-423-293
US-PATENT-CLASS-423-348
US-PATENT-CLASS-423-417
US-PATENT-CLASS-423-625
US-PATENT-4,172,883

N80-14281* # c 32 ..... NASA-CASE-NPO-13830-1
US-PATENT-APPL-SN-703905
US-PATENT-APPL-SN-834257
US-PATENT-CLASS-333-81R
US-PATENT-CLASS-343-18A
US-PATENT-CLASS-343-909
US-PATENT-4,164,718

N80-14330* # c 33 ..... NASA-CASE-NPO-10857-1
US-PATENT-APPL-SN-888362
US-PATENT-CLASS-315-145
US-PATENT-CLASS-315-260
US-PATENT-CLASS-315-334
US-PATENT-3,635,537

N80-14332* # c 33 ..... NASA-CASE-NPO-14350-1
US-PATENT-APPL-SN-921627
US-PATENT-CLASS-250-310
US-PATENT-CLASS-250-492A
US-PATENT-CLASS-324-158T
US-PATENT-4,172,228

N80-14371* # c 35 ..... NASA-CASE-LAR-11690-1
US-PATENT-APPL-SN-928129
US-PATENT-CLASS-73-655
US-PATENT-CLASS-73-661
US-PATENT-4,171,645

N80-14384* # c 36 ..... NASA-CASE-GSC-12237-1
US-PATENT-APPL-SN-837795
US-PATENT-CLASS-331-94.5C
US-PATENT-CLASS-331-94.5P
US-PATENT-4,173,001

N80-14395* # c 37 ..... NASA-CASE-XNP-08835-1
US-PATENT-APPL-SN-534931
US-PATENT-CLASS-204-224
US-PATENT-3,352,774

N80-14397* # c 37 ..... NASA-CASE-MFS-23284-1
US-PATENT-APPL-SN-753103
US-PATENT-CLASS-204-180G
US-PATENT-CLASS-204-299R
US-PATENT-4,040,940

N80-14398* # c 37 ..... NASA-CASE-GSC-12322-1
US-PATENT-APPL-SN-907436
US-PATENT-CLASS-244-161
US-PATENT-CLASS-269-156
US-PATENT-CLASS-294-113
US-PATENT-CLASS-294-86R
US-PATENT-CLASS-414-1
US-PATENT-4,173,324

N80-14423* # c 43 ..... NASA-CASE-MFS-23720-2

US-PATENT-APPL-SN-848421
US-PATENT-CLASS-73-12
US-PATENT-CLASS-73-82
US-PATENT-4,157,655
N80-14472* # c 44 ..... NASA-CASE-LEW-12586-1
US-PATENT-APPL-SN-916655
US-PATENT-CLASS-307-63
US-PATENT-CLASS-307-66
US-PATENT-CLASS-323-15
US-PATENT-CLASS-323-19
US-PATENT-4,175,249
N80-14473* # c 44 ..... NASA-CASE-MFS-23727-1
US-PATENT-APPL-SN-856465
US-PATENT-CLASS-126-438
US-PATENT-CLASS-126-442
US-PATENT-CLASS-350-295
US-PATENT-CLASS-350-296
US-PATENT-4,173,397
N80-14474* # c 44 ..... NASA-CASE-NPO-13652-3
US-PATENT-APPL-SN-809890
US-PATENT-APPL-SN-891358
US-PATENT-CLASS-136-89P
US-PATENT-CLASS-29-572
US-PATENT-CLASS-29-588
US-PATENT-CLASS-29-627
US-PATENT-4,133,697
US-PATENT-4,173,820
N80-14579* # c 45 ..... NASA-CASE-NPO-14340-1
US-PATENT-APPL-SN-946992
US-PATENT-CLASS-210-57
US-PATENT-CLASS-210-63Z
US-PATENT-CLASS-422-9
US-PATENT-4,172,786
N80-14603* # c 46 ..... NASA-CASE-NPO-14124-1
US-PATENT-APPL-SN-863024
US-PATENT-CLASS-343-100ME
US-PATENT-CLASS-343-112D
US-PATENT-4,170,776
N80-14684* # c 52 ..... NASA-CASE-LEW-12955-1
US-PATENT-APPL-SN-829318
US-PATENT-CLASS-128-276
US-PATENT-4,157,718
N80-14687* # c 52 ..... NASA-CASE-NPO-14101-1
US-PATENT-APPL-SN-772434
US-PATENT-CLASS-210-22
US-PATENT-CLASS-210-321B
US-PATENT-4,094,775
N80-14877* # c 72 ..... NASA-CASE-NPO-14078-1
US-PATENT-APPL-SN-856466
US-PATENT-CLASS-250-281
US-PATENT-CLASS-250-282
US-PATENT-CLASS-250-423P
US-PATENT-4,158,775
N80-16116* # c 25 ..... NASA-CASE-ARC-11107-1
US-PATENT-APPL-SN-883961
US-PATENT-CLASS-521-124
US-PATENT-CLASS-521-125
US-PATENT-CLASS-521-127
US-PATENT-CLASS-521-157
US-PATENT-CLASS-528-73
US-PATENT-4,177,333
N80-16158* # c 27 ..... NASA-CASE-LAR-12099-1
US-PATENT-APPL-SN-906299
US-PATENT-CLASS-528-207
US-PATENT-CLASS-528-208
US-PATENT-4,180,648
N80-16163* # c 27 ..... NASA-CASE-NPO-14021-2
US-PATENT-APPL-SN-106188
N80-16261* # c 32 ..... NASA-CASE-NPO-14362-1
US-PATENT-APPL-SN-106118
N80-16321* # c 36 ..... NASA-CASE-LAR-12176-1
US-PATENT-APPL-SN-929083
US-PATENT-CLASS-332-751
US-PATENT-CLASS-350-359
US-PATENT-CLASS-356-243
US-PATENT-CLASS-356-28
US-PATENT-4,176,950
N80-16452* # c 44 ..... NASA-CASE-MFS-23518-3
US-PATENT-APPL-SN-829390
US-PATENT-APPL-SN-910793
US-PATENT-CLASS-126-417
US-PATENT-CLASS-126-901
US-PATENT-CLASS-428-629
US-PATENT-CLASS-428-650
US-PATENT-CLASS-428-658
US-PATENT-CLASS-428-675
US-PATENT-CLASS-428-680
US-PATENT-4,104,134
US-PATENT-4,177,325
N80-16714* # c 51 ..... NASA-CASE-MSC-16260-1
US-PATENT-APPL-SN-876440
US-PATENT-CLASS-23-927
US-PATENT-CLASS-422-52
US-PATENT-CLASS-435-34
US-PATENT-4,176,007
N80-16715* # c 51 ..... NASA-CASE-MFS-23883-1
US-PATENT-APPL-SN-017888
US-PATENT-CLASS-204-180R
US-PATENT-CLASS-204-299R
US-PATENT-CLASS-424-12
US-PATENT-4,181,589
N80-16725* # c 52 ..... NASA-CASE-NPO-14092-1
US-PATENT-APPL-SN-807597
US-PATENT-CLASS-128-DIG.9
US-PATENT-CLASS-128-348
US-PATENT-CLASS-128-6
US-PATENT-CLASS-138-103
US-PATENT-CLASS-138-133
US-PATENT-CLASS-138-33
US-PATENT-CLASS-219-201
US-PATENT-CLASS-219-522
US-PATENT-4,176,662
N80-18036* # c 06 ..... NASA-CASE-FRC-11009-1
US-PATENT-APPL-SN-910708
US-PATENT-CLASS-340-177VA
US-PATENT-CLASS-73-188
US-PATENT-CLASS-73-189
US-PATENT-CLASS-73-212
US-PATENT-4,184,149
N80-18039* # c 07 ..... NASA-CASE-LEW-12971-1
US-PATENT-APPL-SN-858936
US-PATENT-CLASS-60-240
US-PATENT-CLASS-60-39.03
US-PATENT-CLASS-60-39.27
US-PATENT-4,184,327
N80-18097* # c 20 ..... NASA-CASE-MSC-18179-1
US-PATENT-APPL-SN-931218
US-PATENT-CLASS-60-632
US-PATENT-4,183,217
N80-18231* # c 31 ..... NASA-CASE-NPO-14382-1
US-PATENT-APPL-SN-891373
US-PATENT-CLASS-261-118
US-PATENT-CLASS-422-224
US-PATENT-CLASS-423-350
US-PATENT-4,188,368
N80-18252* # c 32 ..... NASA-CASE-NPO-14152-1
US-PATENT-APPL-SN-899828
US-PATENT-CLASS-178-58R
US-PATENT-CLASS-179-15BA
US-PATENT-4,187,394
N80-18253* # c 32 ..... NASA-CASE-NPO-14328-1
NASA-CASE-NPO-14579-1
NASA-CASE-NPO-14590-1
US-PATENT-APPL-SN-956160
US-PATENT-CLASS-325-305
US-PATENT-CLASS-325-307
US-PATENT-CLASS-325-419
US-PATENT-4,186,347
N80-18285* # c 33 ..... NASA-CASE-NPO-14229-1
US-PATENT-APPL-SN-835419
US-PATENT-APPL-SN-949886
US-PATENT-CLASS-200-153S
US-PATENT-CLASS-200-304
US-PATENT-CLASS-333-262
US-PATENT-4,187,416
N80-18286* # c 33 ..... NASA-CASE-GSC-12347-1
US-PATENT-APPL-SN-868249
US-PATENT-CLASS-174-142
US-PATENT-CLASS-174-73R
US-PATENT-4,185,164
N80-18287* # c 33 ..... NASA-CASE-NPO-14224-1
US-PATENT-APPL-SN-951829
US-PATENT-CLASS-310-306
US-PATENT-CLASS-343-100R
US-PATENT-CLASS-343-100ST
US-PATENT-4,187,506
N80-18357* # c 35 ..... NASA-CASE-NPO-14501-1
US-PATENT-APPL-SN-918535
US-PATENT-CLASS-264-40.4
US-PATENT-CLASS-73-343R
US-PATENT-CLASS-73-56
US-PATENT-4,185,493
N80-18358* # c 35 ..... NASA-CASE-LAR-12269-1
US-PATENT-APPL-SN-934576
US-PATENT-CLASS-73-4R
US-PATENT-CLASS-73-40
US-PATENT-4,182,158
N80-18359* # c 35 ..... NASA-CASE-GSC-12219-1
US-PATENT-APPL-SN-891356
US-PATENT-CLASS-325-363
US-PATENT-CLASS-343-100ME
US-PATENT-CLASS-356-216
US-PATENT-CLASS-73-355R
US-PATENT-4,178,100
N80-18364* # c 35 ..... NASA-CASE-NPO-13606-2
US-PATENT-APPL-SN-065676
N80-18372* # c 36 ..... NASA-CASE-NPO-14254-1
US-PATENT-APPL-SN-876432
US-PATENT-CLASS-330-4
US-PATENT-CLASS-331-94
US-PATENT-CLASS-333-24R
US-PATENT-4,187,470
N80-18393* # c 37 ..... NASA-CASE-ARC-11157-1
US-PATENT-APPL-SN-935827
US-PATENT-CLASS-220-423
US-PATENT-CLASS-220-445
US-PATENT-CLASS-220-901
US-PATENT-4,184,609
N80-18400* # c 37 ..... NASA-CASE-NPO-12131-3
US-PATENT-APPL-SN-096255
N80-18402* # c 37 ..... NASA-CASE-LAR-11695-2
US-PATENT-APPL-SN-103836
N80-18498* # c 43 ..... NASA-CASE-LAR-12344-1
US-PATENT-APPL-SN-945041
US-PATENT-CLASS-343-18B
US-PATENT-CLASS-343-18D
US-PATENT-CLASS-343-5CM
US-PATENT-CLASS-343-5W
US-PATENT-4,184,155
N80-18550* # c 44 ..... NASA-CASE-NPO-14303-1
NASA-CASE-NPO-14305-1
US-PATENT-APPL-SN-928133
US-PATENT-CLASS-156-104
US-PATENT-CLASS-156-278
US-PATENT-CLASS-156-285
US-PATENT-CLASS-156-303
US-PATENT-CLASS-156-312
US-PATENT-4,184,903
N80-18551* # c 44 ..... NASA-CASE-NPO-14096-1
US-PATENT-APPL-SN-928128
US-PATENT-CLASS-324-158D
US-PATENT-CLASS-324-404
US-PATENT-4,184,111
N80-18552* # c 44 ..... NASA-CASE-LAR-11999-1
US-PATENT-APPL-SN-876299
US-PATENT-CLASS-250-211K
US-PATENT-CLASS-250-231SE
US-PATENT-4,184,072
N80-18667* # c 48 ..... NASA-CASE-MFS-23862-1
US-PATENT-APPL-SN-951423
US-PATENT-CLASS-73-170A
US-PATENT-4,184,368
N80-18690* # c 52 ..... NASA-CASE-LEW-12723-1
US-PATENT-APPL-SN-829317
US-PATENT-CLASS-128-276
US-PATENT-CLASS-128-760
US-PATENT-4,184,491
N80-18691* # c 52 ..... NASA-CASE-ARC-11120-1
US-PATENT-APPL-SN-796256
US-PATENT-CLASS-128-748
US-PATENT-CLASS-128-903
US-PATENT-CLASS-73-724
US-PATENT-4,186,749
N80-18951* # c 76 ..... NASA-CASE-GSC-12291-1
US-PATENT-APPL-SN-906298
US-PATENT-CLASS-125-23R
US-PATENT-CLASS-269-21
US-PATENT-CLASS-51-235
US-PATENT-CLASS-83-152
US-PATENT-CLASS-83-670
US-PATENT-4,184,472
N80-19237* # c 26 ..... NASA-CASE-MSC-18172-1
US-PATENT-APPL-SN-119334
N80-19425* # c 33 ..... NASA-CASE-LEW-12296-1
US-PATENT-APPL-SN-122966
N80-20224* # c 02 ..... NASA-CASE-LAR-12261-1
US-PATENT-APPL-SN-964009
US-PATENT-CLASS-73-147
US-PATENT-CLASS-73-205L
US-PATENT-4,188,823
N80-20334* # c 25 ..... NASA-CASE-NPO-14079-1
US-PATENT-APPL-SN-958573
US-PATENT-CLASS-250-307
US-PATENT-CLASS-250-308
US-PATENT-4,194,115
N80-20402* # c 28 ..... NASA-CASE-LEW-12081-2
US-PATENT-APPL-SN-676432
US-PATENT-APPL-SN-837794
US-PATENT-CLASS-149-1
US-PATENT-CLASS-423-648R
US-PATENT-4,193,827
N80-20448* # c 32 ..... NASA-CASE-NPO-14480-1
US-PATENT-APPL-SN-910707
US-PATENT-CLASS-325-14
US-PATENT-CLASS-325-4
US-PATENT-CLASS-325-8
US-PATENT-CLASS-325-9
US-PATENT-4,189,675
N80-20487* # c 33 ..... NASA-CASE-LEW-13148-1
US-PATENT-APPL-SN-964754
US-PATENT-CLASS-429-101
US-PATENT-CLASS-429-105
US-PATENT-CLASS-429-107
US-PATENT-CLASS-429-109
US-PATENT-4,192,910
N80-20559* # c 35 ..... NASA-CASE-LAR-12304-1
US-PATENT-APPL-SN-928130
US-PATENT-CLASS-29-25.35

US-PATENT-CLASS-310-311
US-PATENT-CLASS-310-327
US-PATENT-CLASS-310-334
US-PATENT-CLASS-310-360
US-PATENT-4,195,244
N80-20560* # c 35 ..... NASA-CASE-FRC-10093-1
US-PATENT-APPL-SN-878539
US-PATENT-CLASS-219-85CA
US-PATENT-CLASS-219-85CM
US-PATENT-CLASS-219-85R
US-PATENT-CLASS-338-2
US-PATENT-4,195,279
N80-20563* # c 35 ..... NASA-CASE-NPO-14093-1
US-PATENT-APPL-SN-880729
US-PATENT-CLASS-356-346
US-PATENT-4,193,693
N80-20808* # c 44 ..... NASA-CASE-NPO-14237-1
US-PATENT-APPL-SN-897831
US-PATENT-CLASS-126-263
US-PATENT-CLASS-149-15
US-PATENT-CLASS-149-37
US-PATENT-CLASS-220-429
US-PATENT-4,193,388
N80-20810* # c 44 ..... NASA-CASE-LAR-12205-1
US-PATENT-APPL-SN-900843
US-PATENT-CLASS-126-419
US-PATENT-CLASS-126-434
US-PATENT-CLASS-126-437
US-PATENT-CLASS-165-32
US-PATENT-4,192,290
N80-21138* # c 74 ..... NASA-CASE-LAR-12178-1
US-PATENT-APPL-SN-953390
US-PATENT-CLASS-350-25
US-PATENT-CLASS-350-285
US-PATENT-CLASS-356-150
US-PATENT-CLASS-356-152
US-PATENT-4,189,234
N80-21140* # c 74 ..... NASA-CASE-GSC-12357-1
US-PATENT-APPL-SN-943089
US-PATENT-CLASS-250-277CH
US-PATENT-CLASS-250-280
US-PATENT-CLASS-350-162R
US-PATENT-CLASS-356-334
US-PATENT-4,192,994
N80-21719* # c 35 ..... NASA-CASE-GSC-12273-1
US-PATENT-APPL-SN-897830
US-PATENT-CLASS-244-165
US-PATENT-CLASS-244-170
US-PATENT-4,193,570
N80-21828* # c 44 ..... NASA-CASE-MFS-23515-1
US-PATENT-APPL-SN-880726
US-PATENT-CLASS-415-101
US-PATENT-CLASS-415-2
US-PATENT-4,191,505
N80-23383* # c 25 ..... NASA-CASE-ARC-11154-1
US-PATENT-APPL-SN-921626
US-PATENT-CLASS-521-146
US-PATENT-CLASS-521-55
US-PATENT-CLASS-521-918
US-PATENT-CLASS-525-4
US-PATENT-CLASS-55-66
US-PATENT-CLASS-55-67
US-PATENT-CLASS-55-68
US-PATENT-CLASS-55-72
US-PATENT-4,198,792
N80-23419* # c 26 ..... NASA-CASE-MFS-23816-1
US-PATENT-APPL-SN-974292
US-PATENT-CLASS-148-32
US-PATENT-CLASS-75-135
US-PATENT-CLASS-75-138
US-PATENT-CLASS-75-178R
US-PATENT-4,198,232
N80-23452* # c 27 ..... NASA-CASE-ARC-10980-1
US-PATENT-APPL-SN-694407
US-PATENT-CLASS-204-171
US-PATENT-CLASS-210-23H
US-PATENT-CLASS-210-500M
US-PATENT-CLASS-427-245
US-PATENT-CLASS-427-41
US-PATENT-4,199,448
N80-23471* # c 28 ..... NASA-CASE-NPO-14109-1
US-PATENT-APPL-SN-946990
US-PATENT-CLASS-149-108.4
US-PATENT-CLASS-23-300
US-PATENT-CLASS-23-302A
US-PATENT-CLASS-23-302R
US-PATENT-CLASS-23-302T
US-PATENT-4,198,209
N80-23524* # c 32 ..... NASA-CASE-NPO-14519-1
US-PATENT-APPL-SN-008207
US-PATENT-CLASS-343-786
US-PATENT-CLASS-343-895
US-PATENT-4,199,764
N80-23559* # c 33 ..... NASA-CASE-NPO-13804-1
US-PATENT-APPL-SN-766999
US-PATENT-CLASS-310-319
US-PATENT-CLASS-331-65
US-PATENT-CLASS-340-602
US-PATENT-CLASS-340-604
US-PATENT-4,197,530
N80-23653* # c 37 ..... NASA-CASE-MSC-16938-1
US-PATENT-APPL-SN-938582
US-PATENT-CLASS-151-41.76
US-PATENT-4,193,435
N80-23654* # c 37 ..... NASA-CASE-NPO-14473-1
US-PATENT-APPL-SN-938300
US-PATENT-CLASS-137-375
US-PATENT-CLASS-137-625.4
US-PATENT-CLASS-251-138
US-PATENT-CLASS-251-86
US-PATENT-4,195,666
N80-23655* # c 37 ..... NASA-CASE-GSC-12318-1
US-PATENT-APPL-SN-894213
US-PATENT-CLASS-219-160
US-PATENT-CLASS-219-161
US-PATENT-CLASS-228-212
US-PATENT-CLASS-228-222
US-PATENT-CLASS-228-44.1R
US-PATENT-CLASS-269-287
US-PATENT-4,196,840
N80-23711* # c 43 ..... NASA-CASE-MFS-23720-1
US-PATENT-APPL-SN-848419
US-PATENT-CLASS-73-12
US-PATENT-CLASS-73-82
US-PATENT-4,195,512
N80-23969* # c 52 ..... NASA-CASE-FRC-11012-1
US-PATENT-APPL-SN-928137
US-PATENT-CLASS-128-666
US-PATENT-CLASS-128-690
US-PATENT-4,198,988
N80-24149* # c 74 ..... NASA-CASE-GSC-12348-1
US-PATENT-APPL-SN-929088
US-PATENT-CLASS-51-277
US-PATENT-CLASS-51-283R
US-PATENT-CLASS-65-61
US-PATENT-4,198,788
N80-24437* # c 27 ..... NASA-CASE-LEW-13027-1
US-PATENT-APPL-SN-958575
US-PATENT-CLASS-427-164
US-PATENT-CLASS-427-38
US-PATENT-CLASS-427-40
US-PATENT-CLASS-428-421
US-PATENT-CLASS-428-474
US-PATENT-4,199,650
N80-24438* # c 27 ..... NASA-CASE-MSC-14903-3
US-PATENT-APPL-SN-706424
US-PATENT-APPL-SN-907479
US-PATENT-CLASS-260-DIG.29
US-PATENT-CLASS-525-326
US-PATENT-CLASS-525-336
US-PATENT-CLASS-525-340
US-PATENT-CLASS-525-374
US-PATENT-CLASS-525-375
US-PATENT-CLASS-526-261
US-PATENT-CLASS-526-275
US-PATENT-CLASS-526-276
US-PATENT-CLASS-526-278
US-PATENT-CLASS-528-481
US-PATENT-4,200,721
N80-24510* # c 32 ..... NASA-CASE-NPO-14524-1
NASA-CASE-NPO-14527-1
US-PATENT-APPL-SN-957452
US-PATENT-CLASS-350-294
US-PATENT-CLASS-350-6.5
US-PATENT-CLASS-350-6.6
US-PATENT-CLASS-356-28.5
US-PATENT-4,201,468
N80-24573* # c 34 ..... NASA-CASE-LEW-12441-2
US-PATENT-APPL-SN-559846
US-PATENT-APPL-SN-856462
US-PATENT-CLASS-239-127.1
US-PATENT-CLASS-60-267
US-PATENT-4,199,937
N80-24741* # c 44 ..... NASA-CASE-NPO-14635-1
US-PATENT-APPL-SN-008212
US-PATENT-CLASS-136-89SG
US-PATENT-CLASS-156-DIG.64
US-PATENT-CLASS-156-605
US-PATENT-CLASS-156-617SP
US-PATENT-CLASS-252-62.3E
US-PATENT-4,210,622
N80-24906* # c 46 ..... NASA-CASE-NPO-14558-1
US-PATENT-APPL-SN-945436
US-PATENT-CLASS-73-155
US-PATENT-4,196,619
N80-26298* # c 07 ..... NASA-CASE-ARC-10814-2
US-PATENT-APPL-SN-684045
US-PATENT-APPL-SN-831632
US-PATENT-CLASS-60-39.06
US-PATENT-CLASS-60-733
US-PATENT-CLASS-60-746
US-PATENT-4,204,402
N80-26388* # c 24 ..... NASA-CASE-MFS-23626-1
US-PATENT-APPL-SN-941711
US-PATENT-CLASS-156-212
US-PATENT-CLASS-156-213
US-PATENT-CLASS-156-285
US-PATENT-CLASS-260-17.2
US-PATENT-CLASS-264-118
US-PATENT-CLASS-264-119
US-PATENT-CLASS-264-124
US-PATENT-4,204,899
N80-26446* # c 27 ..... NASA-CASE-MSC-16074-1
US-PATENT-APPL-SN-747674
US-PATENT-CLASS-204-159.15
US-PATENT-CLASS-204-159.19
US-PATENT-CLASS-525-426
US-PATENT-CLASS-8-DIG.12
US-PATENT-CLASS-8-DIG.18
US-PATENT-CLASS-8-115.5
US-PATENT-4,203,723
N80-26599* # c 33 ..... NASA-CASE-FRC-10113-1
US-PATENT-APPL-SN-885066
US-PATENT-CLASS-324-51
US-PATENT-4,204,154
N80-26635* # c 35 ..... NASA-CASE-NPO-14372-1
US-PATENT-APPL-SN-646333
US-PATENT-APPL-SN-956529
US-PATENT-CLASS-250-338
US-PATENT-CLASS-250-352
US-PATENT-CLASS-250-353
US-PATENT-CLASS-356-328
US-PATENT-4,205,229
N80-26658* # c 37 ..... NASA-CASE-LEW-12131-2
US-PATENT-APPL-SN-801290
US-PATENT-APPL-SN-931090
US-PATENT-CLASS-415-174
US-PATENT-CLASS-415-196
US-PATENT-4,135,851
US-PATENT-4,207,024
N80-27067* # c 51 ..... NASA-CASE-MSC-16777-1
US-PATENT-APPL-SN-893657
US-PATENT-CLASS-204-195B
US-PATENT-CLASS-23-230B
US-PATENT-CLASS-422-68
US-PATENT-CLASS-435-289
US-PATENT-CLASS-435-290
US-PATENT-CLASS-435-291
US-PATENT-CLASS-435-3
US-PATENT-CLASS-435-311
US-PATENT-CLASS-435-316
US-PATENT-CLASS-435-32
US-PATENT-CLASS-435-34
US-PATENT-CLASS-435-38
US-PATENT-CLASS-435-39
US-PATENT-4,204,037
N80-27072* # c 52 ..... NASA-CASE-NPO-14212-1
US-PATENT-APPL-SN-838308
US-PATENT-CLASS-128-642
US-PATENT-CLASS-128-774
US-PATENT-CLASS-128-782
US-PATENT-CLASS-33-125R
US-PATENT-CLASS-338-2
US-PATENT-CLASS-73-781
US-PATENT-4,204,544
N80-27163* # c 72 ..... NASA-CASE-NPO-14324-1
US-PATENT-APPL-SN-940970
US-PATENT-CLASS-250-427
US-PATENT-CLASS-313-156
US-PATENT-CLASS-313-362
US-PATENT-CLASS-313-363
US-PATENT-4,206,383
N80-27185* # c 74 ..... NASA-CASE-LAR-12251-1
US-PATENT-APPL-SN-953389
US-PATENT-CLASS-350-175E
US-PATENT-CLASS-350-226
US-PATENT-4,206,970
N80-28300* # c 02 ..... NASA-CASE-FRC-11024-1
US-PATENT-APPL-SN-015983
US-PATENT-CLASS-73-180
US-PATENT-CLASS-73-182
US-PATENT-CLASS-73-861.65
US-PATENT-CLASS-73-861.66
US-PATENT-4,212,199
N80-28492* # c 26 ..... NASA-CASE-LAR-11821-1
US-PATENT-APPL-SN-023501
US-PATENT-CLASS-148-131
US-PATENT-CLASS-266-119
US-PATENT-CLASS-266-249
US-PATENT-CLASS-266-274
US-PATENT-4,212,690
N80-28536* # c 28 ..... NASA-CASE-NPO-14477-1
US-PATENT-APPL-SN-951830
US-PATENT-CLASS-149-19.2
US-PATENT-CLASS-149-19.9
US-PATENT-CLASS-149-20
US-PATENT-4,210,474
N80-28578* # c 32 ..... NASA-CASE-GSC-12365-1

US-PATENT-APPL-SN-039031
US-PATENT-CLASS-343-100SA
US-PATENT-CLASS-343-844
US-PATENT-CLASS-343-854
US-PATENT-4,213,131

N80-28686* # c 35 ..... NASA-CASE-LAR-11370-1
US-PATENT-APPL-SN-940689
US-PATENT-CLASS-250-457
US-PATENT-CLASS-250-491
US-PATENT-CLASS-250-513
US-PATENT-4,213,051

N80-28687* # c 35 ..... NASA-CASE-LAR-12285-1
US-PATENT-APPL-SN-929087
US-PATENT-CLASS-356-244
US-PATENT-CLASS-356-369
US-PATENT-4,210,401

N80-28711* # c 37 ..... NASA-CASE-LEW-12119-1
US-PATENT-APPL-SN-672219
US-PATENT-CLASS-277-153
US-PATENT-CLASS-277-193
US-PATENT-CLASS-277-224
US-PATENT-4,212,477

N80-29539* # c 32 ..... NASA-CASE-LAR-11745-1
US-PATENT-APPL-SN-799025
US-PATENT-CLASS-343-786
US-PATENT-4,089,004

N80-29583* # c 33 ..... NASA-CASE-FRC-11055-1
US-PATENT-APPL-SN-172098

N80-29703* # c 37 ..... NASA-CASE-NPO-14406-1
US-PATENT-APPL-SN-951828
US-PATENT-CLASS-125-21
US-PATENT-CLASS-83-820
US-PATENT-4,191,159

N80-29834* # c 44 ..... NASA-CASE-LAR-11551-1
US-PATENT-APPL-SN-883090
US-PATENT-CLASS-290-53
US-PATENT-CLASS-310-30
US-PATENT-4,191,893

N80-29835* # c 44 ..... NASA-CASE-NPO-13786-1
US-PATENT-APPL-SN-696374
US-PATENT-CLASS-148-1.5
US-PATENT-CLASS-357-30
US-PATENT-CLASS-357-52
US-PATENT-CLASS-357-91
US-PATENT-4,090,213

N80-31790* # c 37 ..... NASA-CASE-LEW-12274-1
US-PATENT-APPL-SN-950876
US-PATENT-CLASS-417-383
US-PATENT-CLASS-60-520
US-PATENT-4,215,548

N80-32244* # c 76 ..... NASA-CASE-NPO-14298-1
US-PATENT-APPL-SN-938579
US-PATENT-CLASS-156-DIG.96
US-PATENT-CLASS-422-246
US-PATENT-4,216,186

N80-32245* # c 76 ..... NASA-CASE-NPO-14295-1
US-PATENT-APPL-SN-901055
US-PATENT-CLASS-156-DIG.64
US-PATENT-CLASS-156-DIG.88
US-PATENT-CLASS-156-601
US-PATENT-CLASS-156-617SP
US-PATENT-4,217,165

N80-32359* # c 04 ..... NASA-CASE-NPO-14173-1
US-PATENT-APPL-SN-938581
US-PATENT-CLASS-343-112R
US-PATENT-4,215,345

N80-32392* # c 07 ..... NASA-CASE-ARC-10977-1
US-PATENT-APPL-SN-023436
US-PATENT-CLASS-239-127.3
US-PATENT-CLASS-239-265.33
US-PATENT-CLASS-60-264
US-PATENT-4,214,703

N80-32484* # c 26 ..... NASA-CASE-LEW-12542-3
US-PATENT-APPL-SN-007083
US-PATENT-APPL-SN-803822
US-PATENT-CLASS-75-124
US-PATENT-4,214,902

N80-32514* # c 27 ..... NASA-CASE-NPO-13137-1
US-PATENT-APPL-SN-332123
US-PATENT-APPL-SN-374810
US-PATENT-CLASS-568-852
US-PATENT-CLASS-568-861
US-PATENT-4,118,427

N80-32515* # c 27 ..... NASA-CASE-NPO-13899-1
US-PATENT-APPL-SN-761252
US-PATENT-APPL-SN-933186
US-PATENT-CLASS-260-346.3
US-PATENT-4,196,129

N80-32516* # c 27 ..... NASA-CASE-LEW-13103-1
US-PATENT-APPL-SN-971596
US-PATENT-CLASS-156-272
US-PATENT-CLASS-156-292
US-PATENT-CLASS-204-159.11
US-PATENT-CLASS-204-159.14
US-PATENT-CLASS-264-212
US-PATENT-CLASS-264-22
US-PATENT-CLASS-427-44
US-PATENT-CLASS-428-500
US-PATENT-CLASS-429-139
US-PATENT-4,218,280

N80-32583* # c 31 ..... NASA-CASE-GSC-12191-1
US-PATENT-APPL-SN-009886
US-PATENT-CLASS-165-16
US-PATENT-CLASS-236-13
US-PATENT-CLASS-236-44C
US-PATENT-CLASS-236-49
US-PATENT-4,210,278

N80-32584* # c 31 ..... NASA-CASE-NPO-14191-1
US-PATENT-APPL-SN-830846
US-PATENT-CLASS-181-102
US-PATENT-CLASS-367-27
US-PATENT-CLASS-367-36
US-PATENT-CLASS-367-57
US-PATENT-4,214,226

N80-32604* # c 32 ..... NASA-CASE-MSC-18334-1
US-PATENT-APPL-SN-051270
US-PATENT-CLASS-343-700MS
US-PATENT-CLASS-343-830
US-PATENT-4,218,682

N80-32605* # c 32 ..... NASA-CASE-NPO-14253-1
NASA-CASE-NPO-14640-1
US-PATENT-APPL-SN-938293
US-PATENT-CLASS-333-12
US-PATENT-CLASS-333-252
US-PATENT-CLASS-333-99S
US-PATENT-4,215,327

N80-32650* # c 33 ..... NASA-CASE-NPO-14424-1
NASA-CASE-NPO-14430-1
US-PATENT-APPL-SN-918534
US-PATENT-CLASS-324-62
US-PATENT-CLASS-324-64
US-PATENT-4,218,650

N80-32716* # c 37 ..... NASA-CASE-MFS-23777-1
US-PATENT-APPL-SN-931217
US-PATENT-CLASS-318-15
US-PATENT-CLASS-74-425
US-PATENT-CLASS-74-661
US-PATENT-CLASS-74-665C
US-PATENT-4,215,592

N80-32717* # c 37 ..... NASA-CASE-GSC-12289-1
US-PATENT-APPL-SN-943086
US-PATENT-CLASS-198-847
US-PATENT-CLASS-198-848
US-PATENT-CLASS-474-205
US-PATENT-4,215,590

N80-33081* # c 52 ..... NASA-CASE-ARC-11258-1
US-PATENT-APPL-SN-185865

N80-33186* # c 72 ..... NASA-CASE-LEW-12940-1
US-PATENT-APPL-SN-953391
US-PATENT-CLASS-313-231.4
US-PATENT-CLASS-313-362
US-PATENT-4,218,633

N80-33210* # c 74 ..... NASA-CASE-MSC-18255-1
US-PATENT-APPL-SN-025163
US-PATENT-CLASS-250-347
US-PATENT-CLASS-250-352
US-PATENT-CLASS-250-353
US-PATENT-CLASS-350-55
US-PATENT-CLASS-356-72
US-PATENT-4,215,273

N80-33482* # c 24 ..... NASA-CASE-LEW-11930-3
US-PATENT-APPL-SN-513611
US-PATENT-APPL-SN-616528
US-PATENT-APPL-SN-764245
US-PATENT-CLASS-75-200
US-PATENT-CLASS-75-222
US-PATENT-4,214,905

N81-12330 # c 33 ..... NASA-CASE-MFS-25535-1*
US-PATENT-APPL-SN-199765

N81-12542* # c 44 ..... NASA-CASE-LEW-12806-2
US-PATENT-APPL-SN-065676
US-PATENT-APPL-SN-915050
US-PATENT-CLASS-136-249
US-PATENT-CLASS-136-291
US-PATENT-CLASS-363-147
US-PATENT-CLASS-363-27
US-PATENT-CLASS-363-60
US-PATENT-4,217,633

N81-13999* # c 24 ..... NASA-CASE-ARC-11174-1
US-PATENT-APPL-SN-929086
US-PATENT-CLASS-260-17.2
US-PATENT-CLASS-428-114
US-PATENT-CLASS-428-528
US-PATENT-CLASS-428-541
US-PATENT-CLASS-428-921
US-PATENT-4,209,561

N81-14000* # c 24 ..... NASA-CASE-LAR-12065-1
US-PATENT-APPL-SN-889671
US-PATENT-CLASS-156-330
US-PATENT-CLASS-428-113
US-PATENT-CLASS-428-114
US-PATENT-CLASS-428-140
US-PATENT-CLASS-428-413
US-PATENT-CLASS-428-480
US-PATENT-CLASS-428-902
US-PATENT-4,229,473

N81-14015* # c 25 ..... NASA-CASE-NPO-14143-1
US-PATENT-APPL-SN-938297
US-PATENT-CLASS-250-343
US-PATENT-CLASS-356-437
US-PATENT-4,234,258

N81-14016* # c 25 ..... NASA-CASE-ARC-11241-1
US-PATENT-APPL-SN-037066
US-PATENT-CLASS-260-33.8F
US-PATENT-CLASS-528-362
US-PATENT-CLASS-528-401
US-PATENT-CLASS-528-422
US-PATENT-4,234,715

N81-14076* # c 27 ..... NASA-CASE-NPO-14001-1
US-PATENT-APPL-SN-771245
US-PATENT-CLASS-210-24R
US-PATENT-CLASS-260-17A
US-PATENT-CLASS-260-2.1E
US-PATENT-CLASS-260-858
US-PATENT-CLASS-260-886
US-PATENT-CLASS-260-8900
US-PATENT-CLASS-260-895
US-PATENT-CLASS-260-898
US-PATENT-CLASS-260-901
US-PATENT-CLASS-521-27
US-PATENT-CLASS-521-32
US-PATENT-CLASS-521-62
US-PATENT-4,119,581

N81-14077* # c 27 ..... NASA-CASE-MSC-12631-3
US-PATENT-APPL-SN-006952
US-PATENT-APPL-SN-568541
US-PATENT-APPL-SN-785279
US-PATENT-CLASS-156-154
US-PATENT-CLASS-156-160
US-PATENT-CLASS-156-163
US-PATENT-CLASS-156-212
US-PATENT-CLASS-156-267
US-PATENT-CLASS-156-295
US-PATENT-CLASS-156-323
US-PATENT-CLASS-156-331
US-PATENT-4,032,089
US-PATENT-4,225,372

N81-14078* # c 27 ..... NASA-CASE-LAR-12054-2
US-PATENT-APPL-SN-011737
US-PATENT-APPL-SN-839963
US-PATENT-CLASS-264-137
US-PATENT-CLASS-427-385.5
US-PATENT-CLASS-427-429
US-PATENT-CLASS-428-473.5
US-PATENT-4,166,170
US-PATENT-4,233,258

N81-14103* # c 28 ..... NASA-CASE-LEW-12081-3
US-PATENT-APPL-SN-009887
US-PATENT-APPL-SN-676432
US-PATENT-APPL-SN-837794
US-PATENT-CLASS-149-1
US-PATENT-CLASS-156-344
US-PATENT-CLASS-423-648R
US-PATENT-CLASS-44-7R
US-PATENT-CLASS-55-2
US-PATENT-CLASS-62-12
US-PATENT-CLASS-62-18
US-PATENT-CLASS-62-40
US-PATENT-CLASS-62-47
US-PATENT-4,077,788
US-PATENT-4,193,827
US-PATENT-4,229,196

N81-14137* # c 31 ..... NASA-CASE-KSC-11064-1
US-PATENT-APPL-SN-897840
US-PATENT-CLASS-169-62
US-PATENT-CLASS-169-70
US-PATENT-4,219,084

N81-14185* # c 32 ..... NASA-CASE-NPO-14536-1
US-PATENT-APPL-SN-974471
US-PATENT-CLASS-343-100TD
US-PATENT-4,233,606

N81-14186* # c 32 ..... NASA-CASE-NPO-14749-1
US-PATENT-APPL-SN-078521
US-PATENT-CLASS-375-107
US-PATENT-CLASS-455-51
US-PATENT-CLASS-455-619
US-PATENT-CLASS-455-71
US-PATENT-4,234,971

N81-14187* # c 32 ..... NASA-CASE-MSC-16800-1
US-PATENT-APPL-SN-953313
US-PATENT-CLASS-343-727
US-PATENT-CLASS-343-789
US-PATENT-CLASS-343-797
US-PATENT-4,218,685

N81-14220* # c 33 ..... NASA-CASE-NPO-14163-1
US-PATENT-APPL-SN-878541
US-PATENT-CLASS-363-56
US-PATENT-CLASS-363-71

US-PATENT-CLASS-363-78
US-PATENT-4,222,098
N81-14221* # c 33 ..... NASA-CASE-GSC-12411-1
US-PATENT-APPL-SN-965367
US-PATENT-CLASS-340-309.4
US-PATENT-CLASS-340-310A
US-PATENT-CLASS-340-310R
US-PATENT-CLASS-340-870.24
US-PATENT-CLASS-368-47
US-PATENT-CLASS-370-85
US-PATENT-4,228,422
N81-14287* # c 35 ..... NASA-CASE-NPO-14513-1
US-PATENT-APPL-SN-025162
US-PATENT-CLASS-165-105
US-PATENT-CLASS-62-514R
US-PATENT-4,218,892
N81-14317* # c 37 ..... NASA-CASE-MSC-16973-1
US-PATENT-APPL-SN-969756
US-PATENT-CLASS-150-11
US-PATENT-CLASS-156-294
US-PATENT-CLASS-52-232
US-PATENT-CLASS-52-743
US-PATENT-4,235,060
N81-14318* # c 37 ..... NASA-CASE-NPO-14220-1
US-PATENT-APPL-SN-907421
US-PATENT-CLASS-60-518
US-PATENT-CLASS-74-417
US-PATENT-4,228,656
N81-14319* # c 37 ..... NASA-CASE-LAR-11855-1
US-PATENT-APPL-SN-953314
US-PATENT-CLASS-407-117
US-PATENT-CLASS-407-85
US-PATENT-CLASS-408-1R
US-PATENT-CLASS-82-1.2
US-PATENT-CLASS-82-1C
US-PATENT-CLASS-82-36R
US-PATENT-4,218,941
N81-14320* # c 37 ..... NASA-CASE-GSC-12429-1
US-PATENT-APPL-SN-009888
US-PATENT-CLASS-244-161
US-PATENT-CLASS-294-106
US-PATENT-CLASS-414-1
US-PATENT-4,219,171
N81-14389* # c 44 ..... NASA-CASE-NPO-14416-1
US-PATENT-APPL-SN-014664
US-PATENT-CLASS-29-DIG.1
US-PATENT-CLASS-29-832
US-PATENT-4,219,926
N81-14605* # c 51 ..... NASA-CASE-ARC-11114-1
US-PATENT-APPL-SN-951422
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US-PATENT-CLASS-128-DIG.16
US-PATENT-CLASS-128-DIG.26
US-PATENT-CLASS-128-DIG.6
US-PATENT-CLASS-128-DIG.9
US-PATENT-CLASS-128-204.18
US-PATENT-CLASS-128-207.14
US-PATENT-CLASS-128-207.28
US-PATENT-CLASS-128-236
US-PATENT-4,212,297
N81-14612* # c 52 ..... NASA-CASE-ARC-11117-1
US-PATENT-APPL-SN-003693
US-PATENT-CLASS-128-642
US-PATENT-4,219,027
N81-14613* # c 52 ..... NASA-CASE-ARC-11118-2
US-PATENT-APPL-SN-850504
US-PATENT-APPL-SN-974476
US-PATENT-CLASS-424-274
US-PATENT-4,230,717
N81-14968* # c 02 ..... NASA-CASE-LAR-12326-1
US-PATENT-APPL-SN-019541
US-PATENT-CLASS-102-56R
US-PATENT-CLASS-102-92.1
US-PATENT-CLASS-244-119
US-PATENT-CLASS-244-130
US-PATENT-4,225,102
N81-14999* # c 07 ..... NASA-CASE-LEW-13201-1
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US-PATENT-CLASS-137-15.1
US-PATENT-CLASS-181-214
US-PATENT-4,220,171
N81-15104* # c 27 ..... NASA-CASE-NPO-10830-1
US-PATENT-APPL-SN-825489
US-PATENT-CLASS-117-6
US-PATENT-CLASS-138.8R
US-PATENT-CLASS-260-33.6UB
US-PATENT-CLASS-33.8UB
US-PATENT-CLASS-37N
US-PATENT-CLASS-41R
US-PATENT-CLASS-77.5AQ
US-PATENT-CLASS-77.5CH
US-PATENT-CLASS-859R
US-PATENT-CLASS-94.9N
US-PATENT-3,655,814
N81-15119* # c 28 ..... NASA-CASE-NPO-14110-1
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US-PATENT-CLASS-149-108.4
US-PATENT-CLASS-23-293R
US-PATENT-CLASS-252-364
US-PATENT-CLASS-260-96D
US-PATENT-CLASS-423-1
US-PATENT-CLASS-423-131
US-PATENT-CLASS-423-658.5
US-PATENT-CLASS-525-384
US-PATENT-CLASS-526-914
US-PATENT-CLASS-75-25
US-PATENT-4,229,182
N81-15154* # c 31 ..... NASA-CASE-NPO-13758-2
US-PATENT-APPL-SN-623389
US-PATENT-APPL-SN-727444
US-PATENT-CLASS-110-218
US-PATENT-CLASS-110-229
US-PATENT-CLASS-110-232
US-PATENT-CLASS-110-343
US-PATENT-CLASS-110-347
US-PATENT-CLASS-202-118
US-PATENT-CLASS-264-23
US-PATENT-CLASS-425-378R
US-PATENT-4,206,713
N81-15179* # c 32 ..... NASA-CASE-MSC-18035-1
US-PATENT-APPL-SN-041142
US-PATENT-CLASS-375-1
US-PATENT-CLASS-375-115
US-PATENT-CLASS-375-58
US-PATENT-4,221,005
N81-15192* # c 33 ..... NASA-CASE-NPO-14444-1
US-PATENT-APPL-SN-017890
US-PATENT-CLASS-332-22
US-PATENT-CLASS-332-23R
US-PATENT-CLASS-375-54
US-PATENT-CLASS-375-67
US-PATENT-CLASS-455-102
US-PATENT-4,216,542
N81-15194* # c 33 ..... NASA-CASE-NPO-14998-1
US-PATENT-APPL-SN-195547
N81-15363* # c 37 ..... NASA-CASE-MSC-18134-1
US-PATENT-APPL-SN-974472
US-PATENT-CLASS-277-181
US-PATENT-CLASS-277-229
US-PATENT-4,219,203
N81-15364* # c 37 ..... NASA-CASE-NPO-14170-1
US-PATENT-APPL-SN-860404
US-PATENT-CLASS-188-134
US-PATENT-CLASS-188-180
US-PATENT-CLASS-188-184
US-PATENT-CLASS-244-173
US-PATENT-4,219,107
N81-15706* # c 60 ..... NASA-CASE-NPO-14162-1
NASA-CASE-NPO-14167-1
NASA-CASE-NPO-14169-1
US-PATENT-APPL-SN-893903
US-PATENT-CLASS-307-219
US-PATENT-CLASS-307-225R
US-PATENT-CLASS-307-269
US-PATENT-CLASS-307-291
US-PATENT-CLASS-328-192
US-PATENT-CLASS-328-48
US-PATENT-CLASS-328-71
US-PATENT-4,213,064
N81-15767* # c 71 ..... NASA-CASE-MFS-25050-1
US-PATENT-APPL-SN-057466
US-PATENT-CLASS-308-10
US-PATENT-CLASS-73-505
US-PATENT-4,218,921
N81-16209* # c 26 ..... NASA-CASE-LEW-23169-2
US-PATENT-APPL-SN-191746
N81-17057* # c 06 ..... NASA-CASE-FRC-11029-1
US-PATENT-APPL-SN-164617
US-PATENT-CLASS-73-147
US-PATENT-CLASS-73-178R
US-PATENT-4,240,290
N81-17170* # c 24 ..... NASA-CASE-LEW-12493-1
US-PATENT-APPL-SN-893857
US-PATENT-CLASS-156-292
US-PATENT-CLASS-228-118
US-PATENT-CLASS-228-170
US-PATENT-CLASS-228-174
US-PATENT-CLASS-228-190
US-PATENT-4,211,354
N81-17187* # c 25 ..... NASA-CASE-NPO-13530-1
US-PATENT-CLASS-210-500M
US-PATENT-CLASS-260-2.1
US-PATENT-CLASS-260-2.2R
US-PATENT-4,014,798
N81-17259* # c 27 ..... NASA-CASE-ARC-11248-1
US-PATENT-APPL-SN-028300
US-PATENT-CLASS-528-362
US-PATENT-CLASS-528-401
US-PATENT-CLASS-528-422
US-PATENT-CLASS-528-423
US-PATENT-4,242,498
N81-17260* # c 27 ..... NASA-CASE-LEW-13226-1
US-PATENT-APPL-SN-070771
US-PATENT-CLASS-260-326N
US-PATENT-CLASS-260-326S
US-PATENT-CLASS-260-37EP
US-PATENT-CLASS-528-118
US-PATENT-CLASS-528-322
US-PATENT-CLASS-538-117
US-PATENT-4,244,857.
N81-17261* # c 27 ..... NASA-CASE-NPO-14315-1
US-PATENT-APPL-SN-900659
US-PATENT-CLASS-201-10
US-PATENT-CLASS-201-25
US-PATENT-CLASS-201-8
US-PATENT-CLASS-44-50
US-PATENT-CLASS-44-62
US-PATENT-4,246,001
N81-17262* # c 27 ..... NASA-CASE-ARC-11253-1
US-PATENT-APPL-SN-028301
US-PATENT-CLASS-528-310
US-PATENT-CLASS-528-362
US-PATENT-CLASS-528-401
US-PATENT-CLASS-528-422
US-PATENT-4,245,085
N81-17348* # c 33 ..... NASA-CASE-MFS-23845-1
US-PATENT-APPL-SN-938298
US-PATENT-CLASS-307-233R
US-PATENT-CLASS-307-306
US-PATENT-CLASS-333-204
US-PATENT-4,227,096
N81-17349* # c 33 ..... NASA-CASE-MSC-16747-1
US-PATENT-APPL-SN-974475
US-PATENT-CLASS-328-134
US-PATENT-CLASS-328-37
US-PATENT-CLASS-328-55
US-PATENT-CLASS-331-48
US-PATENT-4,241,308
N81-17432* # c 37 ..... NASA-CASE-NPO-14388-1
US-PATENT-APPL-SN-008208
US-PATENT-CLASS-60-518
US-PATENT-CLASS-74-417
US-PATENT-4,240,256
N81-17433* # c 37 ..... NASA-CASE-ARC-11251-1
US-PATENT-APPL-SN-057465
US-PATENT-CLASS-128-DIG.20
US-PATENT-CLASS-137-549
US-PATENT-CLASS-137-886
US-PATENT-CLASS-137-887
US-PATENT-CLASS-251-216
US-PATENT-CLASS-251-339
US-PATENT-4,239,057
N81-17499* # c 43 ..... NASA-CASE-FRC-11013-1
US-PATENT-APPL-SN-043912
US-PATENT-CLASS-244-160
US-PATENT-CLASS-244-49
US-PATENT-4,240,601
N81-17518* # c 44 ..... NASA-CASE-NPO-14619-1
US-PATENT-APPL-SN-027559
US-PATENT-CLASS-126-419
US-PATENT-CLASS-60-524
US-PATENT-CLASS-60-641
US-PATENT-4,236,383
N81-17886* # c 74 ..... NASA-CASE-NPO-14219-1
US-PATENT-APPL-SN-888432
US-PATENT-CLASS-350-301
US-PATENT-CLASS-354-118
US-PATENT-CLASS-362-11
US-PATENT-CLASS-362-241
US-PATENT-4,213,684
N81-17887* # c 74 ..... NASA-CASE-NPO-14657-1
US-PATENT-APPL-SN-008211
US-PATENT-CLASS-356-432
US-PATENT-CLASS-73-15R
US-PATENT-4,243,327
N81-17888* # c 74 ..... NASA-CASE-NPO-14502-1
US-PATENT-APPL-SN-965368
US-PATENT-CLASS-356-345
US-PATENT-CLASS-356-352
US-PATENT-CLASS-356-358
US-PATENT-4,243,323
N81-19016* # c 02 ..... NASA-CASE-LAR-12750-1
US-PATENT-APPL-SN-210491
N81-19087* # c 05 ..... NASA-CASE-LAR-11797-1
US-PATENT-APPL-SN-969755
US-PATENT-CLASS-244-17.25
US-PATENT-CLASS-416-114
US-PATENT-CLASS-416-500
US-PATENT-CLASS-74-519
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N81-19115* # c 07 ..... NASA-CASE-LEW-12907-2
US-PATENT-APPL-SN-752050
US-PATENT-APPL-SN-909235
US-PATENT-CLASS-364-106
US-PATENT-CLASS-364-431
US-PATENT-CLASS-60-39.24
US-PATENT-4,249,238
N81-19116* # c 07 ..... NASA-CASE-LEW-12594-2

US-PATENT-APPL-SN-741056
US-PATENT-APPL-SN-909608
US-PATENT-CLASS-60-226R
US-PATENT-CLASS-60-236
US-PATENT-CLASS-60-238
US-PATENT-CLASS-60-239
US-PATENT-4,242,864

N81-19130* # c 08 ..... NASA-CASE-LAR-11970-2
US-PATENT-APPL-SN-034104
US-PATENT-APPL-SN-727503
US-PATENT-CLASS-244-12.5
US-PATENT-CLASS-244-52
US-PATENT-CLASS-244-87
US-PATENT-4,236,684

N81-19242* # c 25 ..... NASA-CASE-MFS-25000-1
US-PATENT-APPL-SN-974474
US-PATENT-CLASS-260-29.6RB
US-PATENT-CLASS-526-201
US-PATENT-CLASS-526-88
US-PATENT-4,247,434

N81-19244* # c 25 ..... NASA-CASE-NPO-13309-1
US-PATENT-APPL-SN-363130
US-PATENT-CLASS-210-24
US-PATENT-CLASS-260-2.1E
US-PATENT-CLASS-260-2.2R
US-PATENT-CLASS-264-41
US-PATENT-3,944,485

N81-19296* # c 27 ..... NASA-CASE-LEW-12933-1
US-PATENT-APPL-SN-027557
US-PATENT-CLASS-260-33.4R
US-PATENT-CLASS-427-221
US-PATENT-CLASS-427-379
US-PATENT-CLASS-528-353
US-PATENT-4,244,853

N81-19343* # c 31 ..... NASA-CASE-GSC-12513-1
US-PATENT-APPL-SN-053571
US-PATENT-CLASS-109-49.5
US-PATENT-CLASS-109-58.5
US-PATENT-CLASS-220-82R
US-PATENT-CLASS-220-89A
US-PATENT-CLASS-49-171
US-PATENT-4,245,566

N81-19389* # c 33 ..... NASA-CASE-NPO-14297-1
US-PATENT-APPL-SN-938299
US-PATENT-CLASS-156-DIG.96
US-PATENT-CLASS-156-608
US-PATENT-CLASS-219-10.49R
US-PATENT-CLASS-219-10.67
US-PATENT-CLASS-422-246
US-PATENT-CLASS-422-249
US-PATENT-CLASS-432-264
US-PATENT-4,242,553

N81-19392* # c 33 ..... NASA-CASE-GSC-12360-1
US-PATENT-APPL-SN-041164
US-PATENT-CLASS-363-101
US-PATENT-CLASS-363-21
US-PATENT-4,245,286

N81-19393* # c 33 ..... NASA-CASE-NPO-14505-1
US-PATENT-APPL-SN-956166
US-PATENT-CLASS-363-21
US-PATENT-CLASS-363-36
US-PATENT-CLASS-363-40
US-PATENT-CLASS-363-47
US-PATENT-4,245,288

N81-19426* # c 35 ..... NASA-CASE-MFS-23923-1
US-PATENT-APPL-SN-053569
US-PATENT-CLASS-73-190R
US-PATENT-4,248,083

N81-19427* # c 35 ..... NASA-CASE-MSC-16370-1
US-PATENT-APPL-SN-061556
US-PATENT-CLASS-329-107
US-PATENT-CLASS-329-50
US-PATENT-CLASS-375-1
US-PATENT-CLASS-375-104
US-PATENT-CLASS-375-34
US-PATENT-CLASS-375-99
US-PATENT-4,241,312

N81-19455* # c 37 ..... NASA-CASE-LEW-12982-1
US-PATENT-APPL-SN-929084
US-PATENT-CLASS-204-192E
US-PATENT-CLASS-228-116
US-PATENT-CLASS-228-205
US-PATENT-4,245,768

N81-19558* # c 44 ..... NASA-CASE-NPO-14670-1
US-PATENT-APPL-SN-043941
US-PATENT-CLASS-136-258
US-PATENT-CLASS-252-62.3E
US-PATENT-CLASS-357-30
US-PATENT-CLASS-357-59
US-PATENT-CLASS-357-63
US-PATENT-4,249,957

N81-19896* # c 74 ..... NASA-CASE-NPO-11337-1
NASA-CASE-NPO-11575-1
US-PATENT-APPL-SN-090584
US-PATENT-APPL-SN-276599
US-PATENT-CLASS-340-146.3H
US-PATENT-CLASS-340-146.3S
US-PATENT-CLASS-340-146.3Y
US-PATENT-3,845,466

N81-19898* # c 74 ..... NASA-CASE-NPO-12087-1
US-PATENT-APPL-SN-095217
US-PATENT-CLASS-250-83.6R
US-PATENT-3,704,284

N81-20352* # c 33 ..... NASA-CASE-NPO-13970-1
US-PATENT-APPL-SN-023484
US-PATENT-CLASS-318-138
US-PATENT-CLASS-318-254
US-PATENT-CLASS-318-439
US-PATENT-4,249,116

N81-20703* # c 52 ..... NASA-CASE-NPO-14329-1
US-PATENT-APPL-SN-044432
US-PATENT-CLASS-128-642
US-PATENT-CLASS-128-774
US-PATENT-CLASS-73-141A
US-PATENT-4,249,417

N81-21047* # c 04 ..... NASA-CASE-ARC-11257-1
US-PATENT-APPL-SN-078611
US-PATENT-CLASS-73-178R
US-PATENT-CLASS-73-490
US-PATENT-CLASS-73-504
US-PATENT-4,244,215

N81-22280* # c 33 ..... NASA-CASE-MFS-24368-3
US-PATENT-APPL-SN-243683

N81-22344* # c 36 ..... NASA-CASE-GSC-12609-1
US-PATENT-APPL-SN-218586

N81-22360* # c 37 ..... NASA-CASE-LEW-12445-1
US-PATENT-APPL-SN-238887

N81-24106* # c 08 ..... NASA-CASE-LAR-12268-1
US-PATENT-APPL-SN-015996
US-PATENT-CLASS-244-181
US-PATENT-CLASS-244-195
US-PATENT-CLASS-318-584
US-PATENT-CLASS-364-434
US-PATENT-4,261,537

N81-24256* # c 27 ..... NASA-CASE-ARC-11253-3
US-PATENT-APPL-SN-028301
US-PATENT-APPL-SN-145283
US-PATENT-CLASS-260-465.5R
US-PATENT-CLASS-528-310
US-PATENT-CLASS-564-229
US-PATENT-4,269,787

N81-24257* # c 27 ..... NASA-CASE-LEW-13135-2
US-PATENT-APPL-SN-113014
US-PATENT-APPL-SN-971475
US-PATENT-CLASS-264-104
US-PATENT-CLASS-264-105
US-PATENT-CLASS-429-139
US-PATENT-CLASS-429-249
US-PATENT-CLASS-429-253
US-PATENT-CLASS-429-27
US-PATENT-CLASS-429-28
US-PATENT-CLASS-525-61
US-PATENT-4,262,067

N81-24258* # c 27 ..... NASA-CASE-NPO-10424-1
US-PATENT-APPL-SN-692636
US-PATENT-CLASS-260-37
US-PATENT-3,651,008

N81-24280* # c 28 ..... NASA-CASE-MSC-16394-1
US-PATENT-APPL-SN-161255
US-PATENT-CLASS-204-129
US-PATENT-CLASS-204-252
US-PATENT-CLASS-204-266
US-PATENT-CLASS-204-290F
US-PATENT-CLASS-204-290R
US-PATENT-CLASS-204-291
US-PATENT-4,263,112

N81-24338* # c 33 ..... NASA-CASE-NPO-14617-1
US-PATENT-APPL-SN-051269
US-PATENT-CLASS-330-8
US-PATENT-4,262,259

N81-24422* # c 36 ..... NASA-CASE-LAR-12177-1
US-PATENT-APPL-SN-027558
US-PATENT-CLASS-356-28.5
US-PATENT-CLASS-356-356
US-PATENT-CLASS-356-358
US-PATENT-4,255,048

N81-24442* # c 37 ..... NASA-CASE-LEW-12991-1
US-PATENT-APPL-SN-961832
US-PATENT-CLASS-277-96
US-PATENT-4,260,166

N81-24443* # c 37 ..... NASA-CASE-LAR-11695-2
US-PATENT-APPL-SN-103836
US-PATENT-APPL-SN-893865
US-PATENT-CLASS-152-330RF
US-PATENT-CLASS-152-353G
US-PATENT-CLASS-152-353R
US-PATENT-CLASS-152-379.4
US-PATENT-CLASS-244-103R
US-PATENT-CLASS-244-130
US-PATENT-4,267,992

N81-24519* # c 44 ..... NASA-CASE-LEW-12441-3
US-PATENT-APPL-SN-032307
US-PATENT-APPL-SN-856462
US-PATENT-CLASS-239-127.1
US-PATENT-CLASS-60-204
US-PATENT-CLASS-60-267
US-PATENT-4,199,937
US-PATENT-4,245,469

N81-24520* # c 44 ..... NASA-CASE-MFS-23999-1
US-PATENT-APPL-SN-060435
US-PATENT-CLASS-250-203R
US-PATENT-CLASS-250-209
US-PATENT-4,262,195

N81-24521* # c 44 ..... NASA-CASE-LEW-12918-1
US-PATENT-APPL-SN-134855
US-PATENT-CLASS-429-120
US-PATENT-CLASS-429-160
US-PATENT-CLASS-429-164
US-PATENT-CLASS-429-94
US-PATENT-4,262,064

N81-24711* # c 52 ..... NASA-CASE-MSC-16433-1
US-PATENT-APPL-SN-910992
US-PATENT-CLASS-128-295
US-PATENT-CLASS-128-761
US-PATENT-CLASS-4-144.3
US-PATENT-4,246,901

N81-24724* # c 54 ..... NASA-CASE-KSC-11085-1
US-PATENT-APPL-SN-046739
US-PATENT-CLASS-261-79A
US-PATENT-CLASS-422-109
US-PATENT-CLASS-422-27
US-PATENT-CLASS-422-3
US-PATENT-CLASS-422-30
US-PATENT-CLASS-422-34
US-PATENT-4,250,143

N81-24779* # c 62 ..... NASA-CASE-KSC-11048-1
US-PATENT-APPL-SN-023437
US-PATENT-CLASS-364-200
US-PATENT-4,254,464

N81-24900* # c 74 ..... NASA-CASE-GSC-12528-1
US-PATENT-APPL-SN-111439
US-PATENT-CLASS-250-368
US-PATENT-CLASS-250-483
US-PATENT-4,262,206

N81-24907* # c 74 ..... NASA-CASE-MSC-18674-1
US-PATENT-APPL-SN-235363

N81-25159* # c 25 ..... NASA-CASE-NPO-15102-1
US-PATENT-APPL-SN-154726
US-PATENT-CLASS-250-350
US-PATENT-CLASS-356-432
US-PATENT-4,253,769

N81-25188* # c 26 ..... NASA-CASE-LEW-13088-1
US-PATENT-APPL-SN-089779
US-PATENT-CLASS-428-471
US-PATENT-CLASS-428-632
US-PATENT-CLASS-428-678
US-PATENT-CLASS-428-679
US-PATENT-CLASS-428-680
US-PATENT-4,255,495

N81-25209* # c 27 ..... NASA-CASE-MSC-18107-1
US-PATENT-APPL-SN-956168
US-PATENT-CLASS-430-271
US-PATENT-CLASS-430-325
US-PATENT-CLASS-430-329
US-PATENT-CLASS-430-330
US-PATENT-4,262,080

N81-25258* # c 31 ..... NASA-CASE-LAR-12095-1
US-PATENT-APPL-SN-811401
US-PATENT-CLASS-244-158R
US-PATENT-CLASS-403-171
US-PATENT-CLASS-428-902
US-PATENT-CLASS-52-309.1
US-PATENT-CLASS-52-648
US-PATENT-CLASS-52-726
US-PATENT-4,259,821

N81-25259* # c 31 ..... NASA-CASE-LAR-12077-1
US-PATENT-APPL-SN-014663
US-PATENT-CLASS-52-645
US-PATENT-4,259,825

N81-25278* # c 32 ..... NASA-CASE-NPO-14588-1
US-PATENT-APPL-SN-008209
US-PATENT-CLASS-343-755
US-PATENT-CLASS-343-772
US-PATENT-CLASS-343-781R
US-PATENT-CLASS-343-786
US-PATENT-4,258,366

N81-25299* # c 33 ..... NASA-CASE-GSC-12399-1
US-PATENT-APPL-SN-961831
US-PATENT-CLASS-70-58
US-PATENT-4,252,007

N81-25370* # c 37 ..... NASA-CASE-NPO-14221-1
US-PATENT-APPL-SN-907431
US-PATENT-CLASS-60-517
US-PATENT-CLASS-60-525
US-PATENT-4,255,929

N81-25371* # c 37 ..... NASA-CASE-NPO-13823-1
US-PATENT-APPL-SN-658487
US-PATENT-CLASS-106-43

US-PATENT-CLASS-264-332
US-PATENT-4,252,768
N81-25400* # c 39 ..... NASA-CASE-NPO-14363-1
US-PATENT-APPL-SN-969760
US-PATENT-CLASS-356-213
US-PATENT-CLASS-356-216
US-PATENT-CLASS-356-234
US-PATENT-CLASS-356-32
US-PATENT-4,252,440
N81-25660* # c 52 ..... NASA-CASE-MFS-23717-1
US-PATENT-APPL-SN-950877
US-PATENT-CLASS-128-DIG.25
US-PATENT-CLASS-128-1R
US-PATENT-CLASS-128-346
US-PATENT-CLASS-137-493
US-PATENT-4,256,093
N81-25661* # c 52 ..... NASA-CASE-GSC-12082-2
US-PATENT-APPL-SN-676958
US-PATENT-APPL-SN-798976
US-PATENT-CLASS-128-80F
US-PATENT-4,252,111
N81-25662* # c 52 ..... NASA-CASE-ARC-11167-1
US-PATENT-APPL-SN-057526
US-PATENT-CLASS-128-89R
US-PATENT-4,261,349
N81-26073* # c 02 ..... NASA-CASE-KSC-11042-2
US-PATENT-APPL-SN-154663
N81-26114* # c 05 ..... NASA-CASE-LAR-12406-1
US-PATENT-APPL-SN-008210
US-PATENT-CLASS-165-104.14
US-PATENT-CLASS-244-117A
US-PATENT-CLASS-244-163
US-PATENT-CLASS-60-259
US-PATENT-CLASS-60-267
US-PATENT-CLASS-60-730
US-PATENT-CLASS-62-DIG.5
US-PATENT-4,273,304
N81-26152* # c 08 ..... NASA-CASE-LAR-12562-1
US-PATENT-APPL-SN-015995
US-PATENT-CLASS-244-181
US-PATENT-CLASS-244-182
US-PATENT-4,266,743
N81-26161* # c 14 ..... NASA-CASE-LAR-12250-1
US-PATENT-APPL-SN-910794
US-PATENT-CLASS-244-160
US-PATENT-CLASS-244-2
US-PATENT-CLASS-244-63
US-PATENT-4,265,416
N81-26179* # c 24 ..... NASA-CASE-LEW-12493-2
US-PATENT-APPL-SN-122967
US-PATENT-APPL-SN-893857
US-PATENT-CLASS-228-118
US-PATENT-CLASS-228-190
US-PATENT-4,211,354
US-PATENT-4,267,953
N81-26358* # c 33 ..... NASA-CASE-LAR-12196-1
US-PATENT-APPL-SN-017887
US-PATENT-CLASS-343-100PE
US-PATENT-4,264,908
N81-26359* # c 33 ..... NASA-CASE-KSC-11065-1
US-PATENT-APPL-SN-051271
US-PATENT-CLASS-324-51
US-PATENT-CLASS-324-73AT
US-PATENT-CLASS-371-20
US-PATENT-CLASS-371-25
US-PATENT-4,267,594
N81-26360* # c 33 ..... NASA-CASE-GSC-12515-1
US-PATENT-APPL-SN-172727
US-PATENT-CLASS-148-1.5
US-PATENT-CLASS-148-187
US-PATENT-CLASS-156-647
US-PATENT-CLASS-156-648
US-PATENT-CLASS-156-649
US-PATENT-CLASS-29-571
US-PATENT-CLASS-29-578
US-PATENT-CLASS-29-580
US-PATENT-CLASS-357-23
US-PATENT-CLASS-357-55
US-PATENT-CLASS-357-60
US-PATENT-CLASS-357-91
US-PATENT-4,272,302
N81-26402* # c 34 ..... NASA-CASE-KSC-11076-1
US-PATENT-APPL-SN-051274
US-PATENT-CLASS-364-510
US-PATENT-CLASS-364-571
US-PATENT-CLASS-73-861
US-PATENT-4,253,156
N81-26431* # c 35 ..... NASA-CASE-FRC-10112-1
US-PATENT-APPL-SN-122965
US-PATENT-CLASS-219-209
US-PATENT-CLASS-219-210
US-PATENT-CLASS-219-510
US-PATENT-CLASS-236-1F
US-PATENT-CLASS-361-334
US-PATENT-CLASS-73-361
US-PATENT-4,264,802
N81-26447* # c 37 ..... NASA-CASE-LEW-12119-2
US-PATENT-APPL-SN-102004
US-PATENT-APPL-SN-672219
US-PATENT-CLASS-277-153
US-PATENT-CLASS-277-193
US-PATENT-4,212,477
US-PATENT-4,266,788
N81-26509* # c 43 ..... NASA-CASE-NPO-14140-1
NASA-CASE-NPO-14382-1
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US-PATENT-CLASS-134-17
US-PATENT-CLASS-166-222
US-PATENT-CLASS-166-77
US-PATENT-CLASS-239-562
US-PATENT-CLASS-239-591
US-PATENT-CLASS-299-13
US-PATENT-CLASS-299-17
US-PATENT-CLASS-299-20
US-PATENT-4,226,475
N81-26718* # c 54 ..... NASA-CASE-MFS-23696-1
US-PATENT-APPL-SN-945044
US-PATENT-CLASS-294-93
US-PATENT-CLASS-414-4
US-PATENT-CLASS-414-735
US-PATENT-CLASS-414-744A
US-PATENT-4,273,505
N81-27096* # c 07 ..... NASA-CASE-LAR-12544-1
US-PATENT-APPL-SN-243685
N81-27271* # c 27 ..... NASA-CASE-ARC-11176-2
US-PATENT-APPL-SN-129798
US-PATENT-CLASS-528-168
US-PATENT-CLASS-528-399
US-PATENT-CLASS-528-4
US-PATENT-CLASS-528-6
US-PATENT-4,276,403
N81-27272* # c 27 ..... NASA-CASE-ARC-11321-1
US-PATENT-APPL-SN-175452
US-PATENT-CLASS-428-260
US-PATENT-CLASS-428-367
US-PATENT-CLASS-428-408
US-PATENT-CLASS-428-902
US-PATENT-CLASS-428-920
US-PATENT-CLASS-526-262
US-PATENT-CLASS-528-228
US-PATENT-4,276,344
N81-27323* # c 31 ..... NASA-CASE-MSC-16217-1
US-PATENT-APPL-SN-893383
US-PATENT-CLASS-52-108
US-PATENT-CLASS-52-745
US-PATENT-4,237,662
N81-27324* # c 31 ..... NASA-CASE-LAR-12195-1
US-PATENT-APPL-SN-946991
US-PATENT-CLASS-182-62.5
US-PATENT-CLASS-212-267
US-PATENT-CLASS-52-111
US-PATENT-CLASS-52-632
US-PATENT-4,238,911
N81-27341* # c 32 ..... NASA-CASE-GSC-12147-1
US-PATENT-APPL-SN-780873
US-PATENT-CLASS-343-112R
US-PATENT-4,276,553
N81-27395* # c 33 ..... NASA-CASE-MFS-23988-1
US-PATENT-APPL-SN-044431
US-PATENT-CLASS-307-252UA
US-PATENT-CLASS-318-799
US-PATENT-CLASS-318-810
US-PATENT-4,266,177
N81-27396* # c 33 ..... NASA-CASE-NPO-14426-1
US-PATENT-APPL-SN-009889
US-PATENT-CLASS-307-352
US-PATENT-CLASS-307-353
US-PATENT-CLASS-328-151
US-PATENT-4,262,258
N81-27397* # c 33 ..... NASA-CASE-MSC-12745-1
US-PATENT-APPL-SN-746579
US-PATENT-CLASS-179-78
US-PATENT-CLASS-333-12
US-PATENT-CLASS-361-56
US-PATENT-CLASS-361-91
US-PATENT-4,264,940
N81-27519* # c 37 ..... NASA-CASE-NPO-14521-1
US-PATENT-APPL-SN-023439
US-PATENT-CLASS-244-161
US-PATENT-CLASS-294-86R
US-PATENT-CLASS-318-640
US-PATENT-CLASS-356-152
US-PATENT-CLASS-414-730
US-PATENT-4,260,187
N81-27615* # c 44 ..... NASA-CASE-LEW-13556-1
US-PATENT-APPL-SN-272233
N81-27783* # c 52 ..... NASA-CASE-NPO-14402-1
US-PATENT-APPL-SN-855364
US-PATENT-CLASS-128-665
US-PATENT-CLASS-356-406
US-PATENT-CLASS-356-407
US-PATENT-CLASS-356-416
US-PATENT-4,170,987
N81-27806* # c 54 ..... NASA-CASE-LAR-12320-1
US-PATENT-APPL-SN-043913
US-PATENT-CLASS-434-59
US-PATENT-4,264,310
N81-27814* # c 60 ..... NASA-CASE-NPO-14554-1
US-PATENT-APPL-SN-974473
US-PATENT-CLASS-364-200
US-PATENT-CLASS-364-900
US-PATENT-CLASS-370-58
US-PATENT-4,264,984
N81-28698* # c 51 ..... NASA-CASE-LAR-12520-1
US-PATENT-APPL-SN-067596
US-PATENT-CLASS-204-1T
US-PATENT-CLASS-204-195B
US-PATENT-CLASS-435-291
US-PATENT-CLASS-435-34
US-PATENT-CLASS-435-5
US-PATENT-4,264,728
N81-28740* # c 52 ..... NASA-CASE-MSC-18381-1
US-PATENT-APPL-SN-034531
US-PATENT-CLASS-128-295
US-PATENT-CLASS-4-144.3
US-PATENT-4,270,539
N81-29129* # c 07 ..... NASA-CASE-LEW-12990-1
US-PATENT-APPL-SN-916654
US-PATENT-CLASS-261-28
US-PATENT-CLASS-431-2
US-PATENT-CLASS-60-39.06
US-PATENT-CLASS-60-726
US-PATENT-CLASS-60-737
US-PATENT-4,189,914
N81-29152* # c 18 ..... NASA-CASE-LAR-12052-1
US-PATENT-APPL-SN-102002
US-PATENT-CLASS-364-453
US-PATENT-CLASS-364-566
US-PATENT-CLASS-73-178R
US-PATENT-CLASS-73-510
US-PATENT-4,281,384
N81-29160* # c 23 ..... NASA-CASE-LEW-13101-2
US-PATENT-APPL-SN-145271
US-PATENT-APPL-SN-971473
US-PATENT-CLASS-260-17.4UC
US-PATENT-CLASS-264-104
US-PATENT-CLASS-428-139
US-PATENT-CLASS-429-249
US-PATENT-CLASS-429-253
US-PATENT-CLASS-429-27
US-PATENT-CLASS-429-28
US-PATENT-CLASS-525-56
US-PATENT-CLASS-525-61
US-PATENT-4,272,470
N81-29163* # c 24 ..... NASA-CASE-MFS-23674-1
US-PATENT-APPL-SN-912276
US-PATENT-CLASS-156-161
US-PATENT-CLASS-156-165
US-PATENT-CLASS-156-285
US-PATENT-CLASS-156-294
US-PATENT-CLASS-156-74
US-PATENT-CLASS-264-229
US-PATENT-CLASS-264-231
US-PATENT-CLASS-264-258
US-PATENT-CLASS-264-259
US-PATENT-CLASS-264-311
US-PATENT-CLASS-74-572
US-PATENT-4,190,626
N81-29229* # c 27 ..... NASA-CASE-LAR-12642-1
US-PATENT-APPL-SN-092141
US-PATENT-CLASS-264-137
US-PATENT-CLASS-428-473.5
US-PATENT-CLASS-528-222
US-PATENT-CLASS-528-229
US-PATENT-4,281,102
N81-29308* # c 32 ..... NASA-CASE-NPO-14641-1
US-PATENT-APPL-SN-076643
US-PATENT-CLASS-343-100CL
US-PATENT-CLASS-455-278
US-PATENT-4,278,978
N81-29342* # c 33 ..... NASA-CASE-GSC-12111-2
US-PATENT-APPL-SN-678813
US-PATENT-APPL-SN-830272
US-PATENT-CLASS-350-96.25
US-PATENT-CLASS-365-120
US-PATENT-4,154,501
N81-29407* # c 35 ..... NASA-CASE-LAR-12308-1
US-PATENT-APPL-SN-111438
US-PATENT-CLASS-73-683.31
US-PATENT-CLASS-73-684.52
US-PATENT-4,274,285
N81-29524* # c 44 ..... NASA-CASE-LEW-13148-2
US-PATENT-APPL-SN-061555
US-PATENT-APPL-SN-964754
US-PATENT-CLASS-204-2.1
US-PATENT-4,192,910
US-PATENT-4,270,984
N81-29525* # c 44 ..... NASA-CASE-NPO-13689-2

US-PATENT-APPL-SN-093714
US-PATENT-APPL-SN-597430
US-PATENT-APPL-SN-683073
US-PATENT-APPL-SN-837513
US-PATENT-CLASS-136-255
US-PATENT-CLASS-136-258
US-PATENT-CLASS-136-262
US-PATENT-CLASS-357-15
US-PATENT-CLASS-357-30
US-PATENT-4,278,830

N81-29763* # c 52 ..... NASA-CASE-ARC-11031-1
US-PATENT-APPL-SN-897828
US-PATENT-CLASS-128-275
US-PATENT-CLASS-128-760
US-PATENT-4,190,060

N81-29764* # c 52 ..... NASA-CASE-ARC-11118-1
US-PATENT-APPL-SN-850504
US-PATENT-CLASS-424-247
US-PATENT-CLASS-424-267
US-PATENT-CLASS-424-274
US-PATENT-4,279,906

N81-29963* # c 74 ..... NASA-CASE-NPO-14448-1
US-PATENT-APPL-SN-037560
US-PATENT-CLASS-356-345
US-PATENT-CLASS-356-346
US-PATENT-4,278,351

N81-32510* # c 37 ..... NASA-CASE-MSC-16239-1
US-PATENT-APPL-SN-847276
US-PATENT-CLASS-91-325
US-PATENT-CLASS-91-341R
US-PATENT-CLASS-91-410
US-PATENT-4,283,995

N81-32829* # c 51 ..... NASA-CASE-MFS-23825-1
US-PATENT-APPL-SN-145273
US-PATENT-CLASS-119-17
US-PATENT-CLASS-119-18
US-PATENT-4,284,034

N81-33235* # c 24 ..... NASA-CASE-LAR-12065-2
US-PATENT-APPL-SN-119337
US-PATENT-APPL-SN-889671
US-PATENT-CLASS-156-242
US-PATENT-CLASS-156-245
US-PATENT-CLASS-156-252
US-PATENT-CLASS-156-264
US-PATENT-CLASS-156-285
US-PATENT-CLASS-156-290
US-PATENT-4,229,473
US-PATENT-4,274,901

N81-33246* # c 25 ..... NASA-CASE-NPO-14272-1
US-PATENT-APPL-SN-878253
US-PATENT-CLASS-201-17
US-PATENT-CLASS-44-1R
US-PATENT-CLASS-44-2
US-PATENT-4,146,367

N81-33319* # c 31 ..... NASA-CASE-NPO-14596-1
US-PATENT-APPL-SN-037072
US-PATENT-CLASS-264-24
US-PATENT-CLASS-264-5
US-PATENT-CLASS-264-9
US-PATENT-CLASS-425-6
US-PATENT-CLASS-65-142
US-PATENT-CLASS-65-21.4
US-PATENT-CLASS-65-22
US-PATENT-4,279,632

N81-33403* # c 33 ..... NASA-CASE-GSC-12324-1
US-PATENT-APPL-SN-945043
US-PATENT-CLASS-358-109
US-PATENT-CLASS-358-213
US-PATENT-4,280,141

N81-33404* # c 33 ..... NASA-CASE-NPO-14316-1
US-PATENT-APPL-SN-051276
US-PATENT-CLASS-363-24
US-PATENT-CLASS-363-56
US-PATENT-4,276,588

N81-33405* # c 33 ..... NASA-CASE-NPO-14435-1
US-PATENT-APPL-SN-017886
US-PATENT-CLASS-329-122
US-PATENT-CLASS-331-DIG.2
US-PATENT-CLASS-364-514
US-PATENT-CLASS-375-1
US-PATENT-4,279-018

N81-33448* # c 35 ..... NASA-CASE-NPO-14258-1
US-PATENT-APPL-SN-853349
US-PATENT-APPL-SN-972252
US-PATENT-CLASS-350-370
US-PATENT-CLASS-356-350
US-PATENT-CLASS-356-351
US-PATENT-4,280,766

N81-33482* # c 37 ..... NASA-CASE-NPO-15227-1
US-PATENT-APPL-SN-163840
US-PATENT-CLASS-118-50
US-PATENT-CLASS-118-52
US-PATENT-CLASS-269-21
US-PATENT-CLASS-427-240
US-PATENT-4,280,689

N81-33483* # c 37 ..... NASA-CASE-FRC-11044-1
US-PATENT-APPL-SN-135056
US-PATENT-CLASS-318-663
US-PATENT-CLASS-74-89
US-PATENT-CLASS-92-130R
US-PATENT-4,274,038

N82-11088* # c 09 ..... NASA-CASE-LAR-12532-1
US-PATENT-APPL-SN-135040
US-PATENT-CLASS-73-147
US-PATENT-4,286,460

N82-11144* # c 25 ..... NASA-CASE-NPO-14273-1
US-PATENT-APPL-SN-969759
US-PATENT-CLASS-110-234
US-PATENT-CLASS-110-245
US-PATENT-CLASS-110-255
US-PATENT-CLASS-110-266
US-PATENT-CLASS-122-4D
US-PATENT-4,287,838

N82-11206* # c 27 ..... NASA-CASE-LAR-12640-1
US-PATENT-APPL-SN-092142
US-PATENT-CLASS-156.307.7
US-PATENT-CLASS-156-307.3
US-PATENT-CLASS-156-307.5
US-PATENT-CLASS-156-331.5
US-PATENT-CLASS-528-126
US-PATENT-CLASS-528-172
US-PATENT-CLASS-528-173
US-PATENT-CLASS-528-180
US-PATENT-CLASS-528-207
US-PATENT-CLASS-528-208
US-PATENT-CLASS-528-210
US-PATENT-CLASS-528-211
US-PATENT-CLASS-528-225
US-PATENT-CLASS-528-228
US-PATENT-CLASS-528-351
US-PATENT-CLASS-528-353
US-PATENT-4,284,461

N82-11312* # c 31 ..... NASA-CASE-GSC-12697-1
US-PATENT-APPL-SN-308204

N82-11336* # c 32 ..... NASA-CASE-MSC-18606-1
US-PATENT-APPL-SN-145206
US-PATENT-CLASS-343-700MS
US-PATENT-CLASS-343-708
US-PATENT-CLASS-343-727
US-PATENT-CLASS-343-795
US-PATENT-CLASS-343-846
US-PATENT-4,287,518

N82-11357* # c 33 ..... NASA-CASE-MSC-18106-1
US-PATENT-APPL-SN-098568
US-PATENT-CLASS-335-256
US-PATENT-CLASS-335-266
US-PATENT-CLASS-361-141
US-PATENT-4,295,111

N82-11360* # c 33 ..... NASA-CASE-MFS-25586-1
US-PATENT-APPL-SN-310714

N82-11399* # c 34 ..... NASA-CASE-LEW-12950-1
US-PATENT-APPL-SN-202228

N82-11431* # c 35 ..... NASA-CASE-LAR-12552-1
US-PATENT-APPL-SN-070366
US-PATENT-CLASS-235-92PC
US-PATENT-CLASS-324-71CP
US-PATENT-4,286,209

N82-11432* # c 35 ..... NASA-CASE-MFS-23250-1
US-PATENT-APPL-SN-119340
US-PATENT-CLASS-422-40
US-PATENT-CLASS-430-17
US-PATENT-CLASS-430-372
US-PATENT-4,287,152

N82-11469* # c 37 ..... NASA-CASE-NPO-15539-1
US-PATENT-APPL-SN-303670

N82-11634* # c 45 ..... NASA-CASE-NPO-13877-1
US-PATENT-APPL-SN-652979
US-PATENT-CLASS-210-40
US-PATENT-CLASS-252-422
US-PATENT-4,209,393

N82-11770* # c 52 ..... NASA-CASE-MSC-14836-1
US-PATENT-APPL-SN-691647
US-PATENT-CLASS-128-327
US-PATENT-CLASS-128-686
US-PATENT-CLASS-128-691
US-PATENT-4,294,261

N82-12166* # c 25 ..... NASA-CASE-MSC-16497-1
US-PATENT-APPL-SN-041145
US-PATENT-CLASS-204-1T
US-PATENT-CLASS-204-195S
US-PATENT-CLASS-204-263
US-PATENT-CLASS-204-264
US-PATENT-CLASS-204-266
US-PATENT-CLASS-204-275
US-PATENT-CLASS-204-276
US-PATENT-CLASS-204-278
US-PATENT-CLASS-23-230PC
US-PATENT-CLASS-23-232E
US-PATENT-CLASS-422-80
US-PATENT-4,293,522

N82-12297* # c 32 ..... NASA-CASE-NPO-14054-1
US-PATENT-APPL-SN-969761
US-PATENT-CLASS-343-5CM
US-PATENT-4,292,634

N82-12441* # c 37 ..... NASA-CASE-MFS-25363-1
US-PATENT-APPL-SN-171933
US-PATENT-CLASS-118-423
US-PATENT-CLASS-118-500
US-PATENT-CLASS-134-137
US-PATENT-4,286,542

N82-12442* # c 37 ..... NASA-CASE-LEW-12989-1
US-PATENT-APPL-SN-092145
US-PATENT-CLASS-277-27
US-PATENT-CLASS-277-40
US-PATENT-CLASS-277-93R
US-PATENT-4,291,887

N82-12685* # c 46 ..... NASA-CASE-NPO-14544-1
US-PATENT-APPL-SN-078612
US-PATENT-CLASS-343-100ME
US-PATENT-CLASS-343-100PE
US-PATENT-CLASS-343-781P
US-PATENT-4,282,525

N82-13376* # c 34 ..... NASA-CASE-MFS-25139-1
US-PATENT-APPL-SN-126138
US-PATENT-CLASS-239-499
US-PATENT-CLASS-239-589
US-PATENT-CLASS-239-601
US-PATENT-4,300,723

N82-13415* # c 36 ..... NASA-CASE-LAR-12592-1
US-PATENT-APPL-SN-041141
US-PATENT-CLASS-331-94.5C
US-PATENT-CLASS-331-94.5D
US-PATENT-CLASS-331-94.5P
US-PATENT-4,300,106

N82-13465* # c 43 ..... NASA-CASE-GSC-12032-2
US-PATENT-APPL-SN-578700
US-PATENT-APPL-SN-583219
US-PATENT-CLASS-250-235
US-PATENT-CLASS-250-236
US-PATENT-CLASS-358-109
US-PATENT-4,300,159

N82-15381* # c 35 ..... NASA-CASE-NPO-14839-1
US-PATENT-APPL-SN-106119
US-PATENT-CLASS-343-100PE
US-PATENT-CLASS-455-137
US-PATENT-CLASS-455-139
US-PATENT-CLASS-455-60
US-PATENT-4,295,140

N82-16059* # c 04 ..... NASA-CASE-ARC-10990-1
US-PATENT-APPL-SN-749420
US-PATENT-CLASS-244-114R
US-PATENT-CLASS-340-26
US-PATENT-4,291,294

N82-16075* # c 06 ..... NASA-CASE-FRC-11005-1
US-PATENT-APPL-SN-043942
US-PATENT-CLASS-340-27NA
US-PATENT-CLASS-73-178R
US-PATENT-4,283,705

N82-16174* # c 23 ..... NASA-CASE-ARC-11244-1
US-PATENT-APPL-SN-054501
US-PATENT-CLASS-260-340.9R
US-PATENT-CLASS-568-445
US-PATENT-CLASS-568-497
US-PATENT-4,277,402

N82-16238* # c 27 ..... NASA-CASE-MSC-18382-1
US-PATENT-APPL-SN-145107
US-PATENT-CLASS-106-18.16
US-PATENT-CLASS-106-18.24
US-PATENT-CLASS-260-45.7R
US-PATENT-CLASS-427-393.3
US-PATENT-CLASS-428-263
US-PATENT-CLASS-428-264
US-PATENT-CLASS-428-265
US-PATENT-CLASS-428-267
US-PATENT-CLASS-428-272
US-PATENT-4,284,682

N82-16340* # c 33 ..... NASA-CASE-GSC-12420-1
US-PATENT-APPL-SN-129793
US-PATENT-CLASS-333-104
US-PATENT-CLASS-333-246
US-PATENT-4,302,734

N82-16396* # c 36 ..... NASA-CASE-GSC-12321-1
US-PATENT-APPL-SN-102001
US-PATENT-CLASS-356-349
US-PATENT-CLASS-356-386
US-PATENT-4,299,492

N82-16408* # c 37 ..... NASA-CASE-MSC-18422-1
US-PATENT-APPL-SN-102593
US-PATENT-CLASS-244-113
US-PATENT-CLASS-244-163
US-PATENT-CLASS-244-217
US-PATENT-CLASS-277-189
US-PATENT-CLASS-277-81R
US-PATENT-CLASS-418-113
US-PATENT-CLASS-418-142
US-PATENT-4,290,612

N82-16474* # c 44 ..... NASA-CASE-MFS-23775-1
US-PATENT-APPL-SN-098569

US-PATENT-CLASS-73-341
US-PATENT-4,282,752
N82-16475* # c 44 ..... NASA-CASE-NPO-15071-1
US-PATENT-APPL-SN-150115
US-PATENT-CLASS-126-438
US-PATENT-CLASS-250-527
US-PATENT-CLASS-48-89
US-PATENT-CLASS-48-99
US-PATENT-4,290,779
N82-16747* # c 60 ..... NASA-CASE-GSC-12430-1
US-PATENT-APPL-SN-129779
US-PATENT-CLASS-370-100
US-PATENT-CLASS-375-106
US-PATENT-CLASS-375-114
US-PATENT-CLASS-375-116
US-PATENT-4,298,987
N82-16800* # c 71 ..... NASA-CASE-FRC-11062-1
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US-PATENT-3,295,594
N82-29013* # c 60 ..... NASA-CASE-MSC-18498-1
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US-PATENT-CLASS-244-194
US-PATENT-CLASS-318-564
US-PATENT-CLASS-371-68
US-PATENT-4,327,437
N82-29330* # c 09 ..... NASA-CASE-KSC-11042-1
US-PATENT-APPL-SN-154663
US-PATENT-APPL-SN-862878
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US-PATENT-CLASS-8-150
US-PATENT-4,244,810
US-PATENT-4,313,291
N82-29358* # c 23 ..... NASA-CASE-LAR-10423-1
US-PATENT-APPL-SN-877445
US-PATENT-CLASS-260-65
US-PATENT-3,657,190
N82-29362* # c 24 ..... NASA-CASE-MSC-18223-1
US-PATENT-APPL-SN-219681
US-PATENT-CLASS-128-280
US-PATENT-CLASS-128-283
US-PATENT-CLASS-128-284
US-PATENT-CLASS-128-285
US-PATENT-CLASS-128-288
US-PATENT-CLASS-128-291
US-PATENT-CLASS-128-296
US-PATENT-CLASS-428-283
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US-PATENT-CLASS-428-287
US-PATENT-CLASS-428-288
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N82-29370* # c 25 ..... NASA-CASE-XGS-05584-1
NASA-CASE-XGS-07375-1
NASA-CASE-XGS-07397-1
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US-PATENT-CLASS-106-197
US-PATENT-3,442,674
N82-29371* # c 25 ..... NASA-CASE-NPO-14902-1
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US-PATENT-CLASS-201-17
US-PATENT-CLASS-44-1SR
US-PATENT-4,325,707
N82-29415* # c 26 ..... NASA-CASE-LEW-13169-1
US-PATENT-APPL-SN-102003
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N82-29451* # c 27 ..... NASA-CASE-HQN-10274-1
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US-PATENT-CLASS-106-52
US-PATENT-CLASS-106-54
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US-PATENT-CLASS-106-54
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US-PATENT-APPL-SN-874675
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US-PATENT-CLASS-106-52
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US-PATENT-CLASS-244-160
US-PATENT-CLASS-244-163
US-PATENT-CLASS-428-212
US-PATENT-CLASS-428-218
US-PATENT-CLASS-428-283
US-PATENT-CLASS-428-289
US-PATENT-CLASS-428-307.7
US-PATENT-CLASS-428-311.5
US-PATENT-CLASS-428-312.6
US-PATENT-CLASS-428-317.9
US-PATENT-CLASS-428-325
US-PATENT-CLASS-428-446
US-PATENT-CLASS-428-49
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N82-29538* # c 33 ..... NASA-CASE-NPO-15066-1
US-PATENT-APPL-SN-191744
US-PATENT-CLASS-179-18GF
US-PATENT-CLASS-340-825.89
US-PATENT-CLASS-370-67
US-PATENT-4,331,956
N82-29539* # c 33 ..... NASA-CASE-NPO-14311-1
US-PATENT-APPL-SN-969762
US-PATENT-CLASS-328-166
US-PATENT-CLASS-455-202
US-PATENT-CLASS-455-208
US-PATENT-CLASS-455-234
US-PATENT-CLASS-455-306
US-PATENT-4,336,616
N82-29589* # c 36 ..... NASA-CASE-NPO-15111-1
US-PATENT-APPL-SN-150040
US-PATENT-CLASS-350-358
US-PATENT-4,332,441
N82-29708* # c 44 ..... NASA-CASE-LEW-13171-1
US-PATENT-APPL-SN-238790
US-PATENT-CLASS-429-144
US-PATENT-CLASS-429-251
US-PATENT-CLASS-429-254
US-PATENT-4,331,746
N82-29709* # c 44 ..... NASA-CASE-LEW-13401-1
US-PATENT-APPL-SN-219678
US-PATENT-CLASS-136-249
US-PATENT-CLASS-148-1.5
US-PATENT-CLASS-29-572
US-PATENT-CLASS-357-30
US-PATENT-4,335,503
N82-29710* # c 44 ..... NASA-CASE-NPO-15269-1
US-PATENT-APPL-SN-220214
US-PATENT-CLASS-204-290F
US-PATENT-CLASS-204-290R
US-PATENT-CLASS-429-193
US-PATENT-CLASS-429-33
US-PATENT-CLASS-429-40
US-PATENT-4,331,742
N82-29862* # c 52 ..... NASA-CASE-LAR-12471-1
US-PATENT-APPL-SN-178193
US-PATENT-CLASS-126-62A
US-PATENT-CLASS-433-118
US-PATENT-CLASS-433-125
US-PATENT-CLASS-433-86
US-PATENT-4,331,422
N82-29863* # c 52 ..... NASA-CASE-GSC-12560-1
US-PATENT-APPL-SN-153246
US-PATENT-CLASS-128-421
US-PATENT-4,308,868
N82-30071* # c 74 ..... NASA-CASE-MSC-18627-1
US-PATENT-APPL-SN-186881
US-PATENT-CLASS-250-226
US-PATENT-CLASS-250-231R
US-PATENT-CLASS-374-162R
US-PATENT-4,338,516
N82-30105* # c 76 ..... NASA-CASE-NPO-14831-1
US-PATENT-APPL-SN-233269
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US-PATENT-CLASS-156-608
US-PATENT-CLASS-422-246
US-PATENT-4,330,359
N82-30371* # c 26 ..... NASA-CASE-LEW-13169-2
US-PATENT-APPL-SN-102003
US-PATENT-APPL-SN-191746
US-PATENT-CLASS-204-192C
US-PATENT-CLASS-428-457
US-PATENT-CLASS-428-472
US-PATENT-4,341,843
N82-31505* # c 26 ..... NASA-CASE-LEW-13339-1
US-PATENT-APPL-SN-199769
US-PATENT-CLASS-148-428
US-PATENT-CLASS-420-445
US-PATENT-CLASS-420-551
US-PATENT-CLASS-420-588
US-PATENT-4,340,425
N82-31583* # c 32 ..... NASA-CASE-MSC-16462-1
US-PATENT-APPL-SN-900841
US-PATENT-CLASS-178-22.16
US-PATENT-CLASS-178-22.17
US-PATENT-CLASS-364-717
US-PATENT-CLASS-375-106
US-PATENT-4,341,925
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US-PATENT-APPL-SN-191748
US-PATENT-CLASS-250-332
US-PATENT-CLASS-250-370
US-PATENT-CLASS-29-576J
US-PATENT-CLASS-29-576S
US-PATENT-CLASS-29-620
US-PATENT-4,341,012
N82-31690* # c 37 ..... NASA-CASE-MSC-20304-1
US-PATENT-APPL-SN-393585
N82-31764* # c 44 ..... NASA-CASE-LEW-13400-1
US-PATENT-APPL-SN-219677
US-PATENT-CLASS-136-249
US-PATENT-CLASS-357-30
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N82-32366* # c 07 ..... NASA-CASE-LEW-12938-1
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US-PATENT-CLASS-415-145
US-PATENT-CLASS-415-178
US-PATENT-CLASS-60-39.07
US-PATENT-CLASS-60-39.29
US-PATENT-CLASS-60-726
US-PATENT-4,329,114
N82-32373* # c 08 ..... NASA-CASE-LAR-12468-1
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US-PATENT-CLASS-244-118.1
US-PATENT-CLASS-244-137R
US-PATENT-CLASS-89-1.5G
US-PATENT-4,343,447
N82-32417* # c 24 ..... NASA-CASE-LAR-12620-1
US-PATENT-APPL-SN-072857
US-PATENT-CLASS-244-132
US-PATENT-CLASS-244-158A
US-PATENT-CLASS-428-594
US-PATENT-CLASS-428-604
US-PATENT-CLASS-428-607
US-PATENT-CLASS-428-608
US-PATENT-4,344,591
N82-32659* # c 35 ..... NASA-CASE-GSC-12587-1
US-PATENT-APPL-SN-173524
US-PATENT-CLASS-250-369
US-PATENT-4,345,153
N82-32712* # c 36 ..... NASA-CASE-LAR-12328-1
US-PATENT-APPL-SN-073477
US-PATENT-CLASS-350-453
US-PATENT-CLASS-356-28.5
US-PATENT-4,346,990
N82-32730* # c 37 ..... NASA-CASE-GSC-12584-1
US-PATENT-APPL-SN-182879
US-PATENT-CLASS-125-23R
US-PATENT-CLASS-225-103
US-PATENT-4,343,287
N82-32731* # c 37 ..... NASA-CASE-MFS-23846-1
US-PATENT-APPL-SN-168944
US-PATENT-CLASS-294-116
US-PATENT-CLASS-414-222
US-PATENT-CLASS-414-226
US-PATENT-CLASS-414-739
US-PATENT-4,343,584
N82-32732* # c 37 ..... NASA-CASE-LAR-12482-1
US-PATENT-APPL-SN-100611
US-PATENT-CLASS-403-217
US-PATENT-CLASS-403-317
US-PATENT-CLASS-403-331
US-PATENT-CLASS-403-340
US-PATENT-CLASS-52-81
US-PATENT-4,340,318
N82-32841* # c 44 ..... NASA-CASE-LAR-12513-1
US-PATENT-APPL-SN-161256
US-PATENT-CLASS-250-330
US-PATENT-CLASS-250-370
US-PATENT-4,331,873
N82-33288* # c 85 ..... NASA-CASE-FRC-11058-1
US-PATENT-APPL-SN-175453
US-PATENT-CLASS-105-2R
US-PATENT-CLASS-244-53B
US-PATENT-CLASS-296-1S
US-PATENT-CLASS-296-24C
US-PATENT-CLASS-296-91
US-PATENT-4,343,506
N82-33520* # c 27 ..... NASA-CASE-KSC-11097-1
US-PATENT-APPL-SN-172100
US-PATENT-CLASS-427-140
US-PATENT-CLASS-427-372.2
US-PATENT-CLASS-427-397.7
US-PATENT-4,330,572
N82-33521* # c 27 ..... NASA-CASE-LEW-13028-1
US-PATENT-APPL-SN-218588
US-PATENT-CLASS-204-192E
US-PATENT-CLASS-204-192EC
US-PATENT-CLASS-204-38B
US-PATENT-CLASS-428-141
US-PATENT-4,344,996
N82-33523* # c 27 ..... NASA-CASE-ARC-14408-1
US-PATENT-APPL-SN-403371
N82-33634* # c 33 ..... NASA-CASE-MFS-15670-1
US-PATENT-APPL-SN-409679
N82-33681* # c 35 ..... NASA-CASE-NPO-15617-1
US-PATENT-APPL-SN-403849
N82-33996* # c 52 ..... NASA-CASE-NPO-14549-2
US-PATENT-APPL-SN-149526
US-PATENT-APPL-SN-918705
US-PATENT-CLASS-128-422
US-PATENT-CLASS-128-784
US-PATENT-CLASS-128-804
US-PATENT-4,346,715
N83-10040* # c 06 ..... NASA-CASE-NPO-15351-1
US-PATENT-APPL-SN-224231

US-PATENT-CLASS-343-100ME
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US-PATENT-CLASS-73-170R
US-PATENT-CLASS-73-178R
US-PATENT-4,346,595

N83-10117* # c 24 ..... NASA-CASE-LEW-12919-1
US-PATENT-APPL-SN-264378
US-PATENT-CLASS-204-192E
US-PATENT-CLASS-313-106
US-PATENT-CLASS-313-107
US-PATENT-CLASS-315-5.38
US-PATENT-4,349,424

N83-10126* # c 25 ..... NASA-CASE-MFS-25426-1
US-PATENT-APPL-SN-254575
US-PATENT-CLASS-204-299R
US-PATENT-4,349,429

N83-10170* # c 26 ..... NASA-CASE-LEW-12941-1
US-PATENT-APPL-SN-210632
US-PATENT-CLASS-29-458
US-PATENT-CLASS-29-521
US-PATENT-CLASS-403-282
US-PATENT-4,349,954

N83-10345* # c 33 ..... NASA-CASE-MFS-25208-1
US-PATENT-APPL-SN-280154
US-PATENT-CLASS-318-803
US-PATENT-CLASS-363-87
US-PATENT-4,351,022

N83-10417* # c 36 ..... NASA-CASE-NPO-15021-1
US-PATENT-APPL-SN-130496
US-PATENT-CLASS-372-56
US-PATENT-CLASS-372-59
US-PATENT-CLASS-372-60
US-PATENT-4,347,613

N83-10494* # c 44 ..... NASA-CASE-LEW-13131-1
US-PATENT-APPL-SN-246772
US-PATENT-CLASS-204-56R
US-PATENT-4,350,574

N83-10501* # c 44 ..... NASA-CASE-NPO-14369-1
US-PATENT-APPL-SN-126063
US-PATENT-CLASS-422-200
US-PATENT-CLASS-422-202
US-PATENT-CLASS-422-224
US-PATENT-CLASS-55-204
US-PATENT-4,343,772

N83-10900* # c 74 ..... NASA-CASE-GSC-12608-1
US-PATENT-APPL-SN-195228
US-PATENT-CLASS-350-170
US-PATENT-CLASS-350-286
US-PATENT-4,350,410

N83-12098* # c 08 ..... NASA-CASE-ARC-11372-1
US-PATENT-APPL-SN-415878

N83-12334* # c 33 ..... NASA-CASE-NPO-15935-1
US-PATENT-APPL-SN-437913

N83-13171* # c 24 ..... NASA-CASE-MSC-18737-1
US-PATENT-APPL-SN-266256
US-PATENT-CLASS-427-379
US-PATENT-CLASS-427-384
US-PATENT-CLASS-427-387
US-PATENT-CLASS-428-218
US-PATENT-4,358,486

N83-13172* # c 24 ..... NASA-CASE-MSC-18736-1
US-PATENT-APPL-SN-266254
US-PATENT-CLASS-244-158A
US-PATENT-CLASS-427-140
US-PATENT-CLASS-427-292
US-PATENT-CLASS-427-302
US-PATENT-CLASS-427-379
US-PATENT-CLASS-427-384
US-PATENT-CLASS-427-387
US-PATENT-CLASS-428-63
US-PATENT-4,358,480

N83-13187* # c 25 ..... NASA-CASE-MFS-25306-1
US-PATENT-APPL-SN-309293
US-PATENT-CLASS-204-280R
US-PATENT-CLASS-204-299R
US-PATENT-4,358,358

N83-13188* # c 25 ..... NASA-CASE-LEW-13504-1
US-PATENT-APPL-SN-272234
US-PATENT-CLASS-264-104
US-PATENT-CLASS-429-206
US-PATENT-CLASS-429-253
US-PATENT-CLASS-525-61
US-PATENT-4,357,402

N83-13323* # c 32 ..... NASA-CASE-KSC-11025-1
US-PATENT-APPL-SN-061327
US-PATENT-CLASS-371-6
US-PATENT-4,358,846

N83-13360* # c 33 ..... NASA-CASE-GSC-12782-1
US-PATENT-APPL-SN-399074

N83-13579* # c 44 ..... NASA-CASE-LEW-13620-1
US-PATENT-APPL-SN-242796
US-PATENT-CLASS-136-256
US-PATENT-CLASS-136-259
US-PATENT-CLASS-29-572
US-PATENT-CLASS-357-30
US-PATENT-CLASS-427-88
US-PATENT-CLASS-427-89
US-PATENT-CLASS-427-90
US-PATENT-CLASS-427-91
US-PATENT-4,335,196

N83-13978* # c 74 ..... NASA-CASE-ARC-11311-1
US-PATENT-APPL-SN-219640
US-PATENT-CLASS-350-287
US-PATENT-CLASS-350-486
US-PATENT-4,355,870

N83-13982* # c 74 ..... NASA-CASE-GSC-12761-1
US-PATENT-APPL-SN-406820

N83-14692* # c 44 ..... NASA-CASE-LEW-12892-1
US-PATENT-APPL-SN-264380
US-PATENT-CLASS-136-255
US-PATENT-CLASS-136-256
US-PATENT-CLASS-136-259
US-PATENT-4,360,701

N83-14693* # c 44 ..... NASA-CASE-MSC-18794-1
US-PATENT-APPL-SN-238785
US-PATENT-CLASS-417-399
US-PATENT-CLASS-74-110
US-PATENT-4,360,325

N83-16626* # c 33 ..... NASA-CASE-LAR-12772-1
US-PATENT-APPL-SN-199767
US-PATENT-CLASS-73-579
US-PATENT-CLASS-73-597
US-PATENT-CLASS-73-629
US-PATENT-CLASS-73-761
US-PATENT-4,363,242

N83-16633* # c 33 ..... NASA-CASE-LAR-12847-1
US-PATENT-APPL-SN-393456

N83-17045* # c 51 ..... NASA-CASE-NPO-15213-1
US-PATENT-APPL-SN-280153
US-PATENT-CLASS-47-58
US-PATENT-CLASS-71-98
US-PATENT-4,363,188

N83-17235* # c 71 ..... NASA-CASE-LAR-12883-1
US-PATENT-APPL-SN-267935
US-PATENT-CLASS-73-147
US-PATENT-4,363,237

N83-17305* # c 74 ..... NASA-CASE-MFS-25312-1
US-PATENT-APPL-SN-187106
US-PATENT-CLASS-350-171
US-PATENT-4,362,361

N83-17588* # c 20 ..... NASA-CASE-MFS-25843-1
US-PATENT-APPL-SN-444125

N83-17628* # c 25 ..... NASA-CASE-LEW-13609-1
US-PATENT-APPL-SN-452465

N83-18908* # c 27 ..... NASA-CASE-MSC-18832-1
US-PATENT-APPL-SN-365950
US-PATENT-CLASS-428-241
US-PATENT-CLASS-428-244
US-PATENT-CLASS-428-245
US-PATENT-CLASS-428-260
US-PATENT-CLASS-428-331
US-PATENT-CLASS-428-368
US-PATENT-CLASS-428-902
US-PATENT-CLASS-428-913
US-PATENT-CLASS-428-920
US-PATENT-4,373,003

N83-18975* # c 32 ..... NASA-CASE-NPO-14998-1
US-PATENT-APPL-SN-195547
US-PATENT-CLASS-250-203R
US-PATENT-CLASS-343-100CL
US-PATENT-CLASS-343-5CM
US-PATENT-CLASS-364-822
US-PATENT-CLASS-364-861
US-PATENT-4,371,946

N83-18996* # c 33 ..... NASA-CASE-NPO-14567-1
US-PATENT-APPL-SN-038550
US-PATENT-APPL-SN-180230
US-PATENT-CLASS-250-311
US-PATENT-CLASS-324-73R
US-PATENT-CLASS-356-394
US-PATENT-4,358,732

N83-19015* # c 34 ..... NASA-CASE-MFS-25282-1
US-PATENT-APPL-SN-263828
US-PATENT-CLASS-378-2
US-PATENT-CLASS-378-43
US-PATENT-4,370,750

N83-19091* # c 37 ..... NASA-CASE-LAR-12361-1
US-PATENT-APPL-SN-182880
US-PATENT-CLASS-411-353
US-PATENT-CLASS-411-517
US-PATENT-4,371,301

N83-19596* # c 74 ..... NASA-CASE-LEW-12253-1
US-PATENT-APPL-SN-243682
US-PATENT-CLASS-165-104.26
US-PATENT-CLASS-165-134R
US-PATENT-CLASS-29-157.3H
US-PATENT-4,372,377

N83-19597* # c 74 ..... NASA-CASE-NPO-14864-1
US-PATENT-APPL-SN-061822
US-PATENT-CLASS-250-227
US-PATENT-CLASS-250-332
US-PATENT-CLASS-250-340
US-PATENT-CLASS-250-350
US-PATENT-CLASS-250-351
US-PATENT-CLASS-350-353
US-PATENT-4,262,198

N83-19715* # c 02 ..... NASA-CASE-LAR-12625-1
US-PATENT-APPL-SN-456915

N83-19737* # c 05 ..... NASA-CASE-FRC-11065-1
US-PATENT-APPL-SN-248744
US-PATENT-CASE-244-121
US-PATENT-CASE-244-129.4
US-PATENT-CASE-292-254
US-PATENT-4,375,281

N83-19890* # c 26 ..... NASA-CASE-NPO-15658-1
US-PATENT-APPL-SN-451896

N83-19900* # c 27 ..... NASA-CASE-NPO-14857-1
US-PATENT-APPL-SN-158530
US-PATENT-CLASS-523-205
US-PATENT-CLASS-524-436
US-PATENT-CLASS-524-437
US-PATENT-CLASS-524-503
US-PATENT-CLASS-524-564
US-PATENT-CLASS-524-786
US-PATENT-4,373,039

N83-19947* # c 31 ..... NASA-CASE-NPO-15789-1
US-PATENT-APPL-SN-322316
US-PATENT-CLASS-204-129.55
US-PATENT-CLASS-204-129.75
US-PATENT-4,375,396

N83-19968* # c 32 ..... NASA-CASE-NPO-14035-1
US-PATENT-APPL-SN-858767
US-PATENT-CLASS-343-100CL
US-PATENT-CLASS-343-5CM
US-PATENT-CLASS-343-9PS
US-PATENT-4,371,873

N83-20085 # c 35 ..... NASA-CASE-GSC-12795-1
US-PATENT-APPL-SN-462508

N83-20152* # c 37 ..... NASA-CASE-ARC-11414-1
US-PATENT-APPL-SN-461714

N83-20154* # c 37 ..... NASA-CASE-MFS-25807
US-PATENT-APPL-SN-460733

N83-20156* # c 37 ..... NASA-CASE-LAR-12875-1
US-PATENT-APPL-SN-469865

N83-20280* # c 39 ..... NASA-CASE-MSC-18929-1
US-PATENT-APPL-SN-198093
US-PATENT-CLASS-128-782
US-PATENT-CLASS-358-105
US-PATENT-CLASS-364-413
US-PATENT-CLASS-364-522
US-PATENT-CLASS-364-559
US-PATENT-CLASS-73-379
US-PATENT-4,375,674

N83-20789* # c 76 ..... NASA-CASE-NPO-15625-1
US-PATENT-APPL-SN-325933
US-PATENT-CLASS-148-173
US-PATENT-CLASS-148-175
US-PATENT-CLASS-156-608
US-PATENT-CLASS-156-624
US-PATENT-CLASS-156-635
US-PATENT-CLASS-156-654
US-PATENT-CLASS-156-662
US-PATENT-4,373,989

N83-20944* # c 07 ..... NASA-CASE-MFS-23981-1
US-PATENT-APPL-SN-231543
US-PATENT-CLASS-244-159
US-PATENT-CLASS-244-173
US-PATENT-CLASS-322-2R
US-PATENT-CLASS-339-3R
US-PATENT-CLASS-339-5R
US-PATENT-CLASS-343-DIG2
US-PATENT-4,377,266

N83-20995* # c 17 ..... NASA-CASE-LAR-13006-1
US-PATENT-APPL-SN-470113

N83-20996* # c 18 ..... NASA-CASE-LEW-13269-1
US-PATENT-APPL-SN-242795
US-PATENT-CLASS-415-174
US-PATENT-CLASS-415-197
US-PATENT-4,377,371

N83-21238* # c 33 ..... NASA-CASE-ARC-11367-1
US-PATENT-APPL-SN-460511

N83-21311* # c 35 ..... NASA-CASE-LAR-12469-1
US-PATENT-APPL-SN-195223
US-PATENT-CLASS-250-338
US-PATENT-CLASS-250-372
US-PATENT-CLASS-250-474.1
US-PATENT-CLASS-356-51
US-PATENT-4,372,680

N83-21312* # c 35 ..... NASA-CASE-MSC-18723-1
US-PATENT-APPL-SN-234223
US-PATENT-CLASS-73-818
US-PATENT-4,377,089

N83-21316* # c 35 ..... NASA-CASE-MFS-25833-1
US-PATENT-APPL-SN-473827

N83-21503* # c 44 ..... NASA-CASE-LAR-12458-1
US-PATENT-APPL-SN-274705
US-PATENT-CLASS-73-147

US-PATENT-4,372,158
N83-21504* # c 44 ..... NASA-CASE-LAR-12720-1
US-PATENT-APPL-SN-274706
US-PATENT-CLASS-73-147
US-PATENT-4,372,159
N83-21785* # c 52 ..... NASA-CASE-LEW-13107-1
US-PATENT-APPL-SN-272407
US-PATENT-CLASS-604-280
US-PATENT-CLASS-604-8
US-PATENT-4,377,169
N83-21949* # c 74 ..... NASA-CASE-ARC-11354-1
US-PATENT-APPL-SN-282192
US-PATENT-CLASS-356-357
US-PATENT-CLASS-73-147
US-PATENT-4,377,343
N83-21993* # c 76 ..... NASA-CASE-NPO-15904-1
US-PATENT-APPL-SN-465369
N83-24572* # c 25 ..... NASA-CASE-NPO-16135-1
US-PATENT-APPL-SN-470114
N83-24639* # c 26 ..... NASA-CASE-LEW-13834-1
US-PATENT-APPL-SN-478131
N83-24763* # c 33 ..... NASA-CASE-LAR-12363-2
US-PATENT-APPL-SN-377892
US-PATENT-CLASS-250-388
US-PATENT-4,379,970
N83-24828* # c 35 ..... NASA-CASE-MFS-25509-1
US-PATENT-APPL-SN-297486
US-PATENT-CLASS-156-DIG.62
US-PATENT-CLASS-34-57A
US-PATENT-CLASS-432-227
US-PATENT-CLASS-432-58
US-PATENT-4,378,209
N83-25217* # c 45 ..... NASA-CASE-NPO-15220-1
US-PATENT-APPL-SN-246777
US-PATENT-CLASS-220-335
US-PATENT-CLASS-73-863.31
US-PATENT-CLASS-73-863.83
US-PATENT-CLASS-73-864.63
US-PATENT-4,377,949
N83-25346* # c 52 ..... NASA-CASE-NPO-15197-1
US-PATENT-APPL-SN-263957
US-PATENT-CLASS-128-303B
US-PATENT-CLASS-128-774
US-PATENT-CLASS-128-782
US-PATENT-4,378,813
N83-25378* # c 60 ..... NASA-CASE-GSC-12223-1
US-PATENT-APPL-SN-041143
US-PATENT-CLASS-364-200
US-PATENT-4,380,046
N83-25789* # c 24 ..... NASA-CASE-ARC-11261-1
US-PATENT-APPL-SN-282129
US-PATENT-CLASS-423-447.2
US-PATENT-CLASS-423-447.6
US-PATENT-CLASS-423-447.7
US-PATENT-4,385,043
N83-26078* # c 37 ..... NASA-CASE-GSC-12643-1
US-PATENT-APPL-SN-238786
US-PATENT-CLASS-417-15
US-PATENT-CLASS-47-26
US-PATENT-4,381,174
N83-27058* # c 31 ..... NASA-CASE-GSC-12636-1
US-PATENT-APPL-SN-173520
US-PATENT-CLASS-125-20
US-PATENT-CLASS-408-1R
US-PATENT-CLASS-408-61
US-PATENT-CLASS-409-131
US-PATENT-4,383,785
N83-27085* # c 32 ..... NASA-CASE-NPO-15401-1
US-PATENT-APPL-SN-259210
US-PATENT-CLASS-333-22F
US-PATENT-CLASS-333-254
US-PATENT-4,382,239
N83-27126* # c 33 ..... NASA-CASE-NPO-15358-1
US-PATENT-APPL-SN-219968
US-PATENT-CLASS-323-269
US-PATENT-CLASS-323-303
US-PATENT-CLASS-323-350
US-PATENT-4,382,224
N83-27144* # c 34 ..... NASA-CASE-LEW-13174-1
US-PATENT-APPL-SN-200634
US-PATENT-CLASS-415-115
US-PATENT-CLASS-416-1
US-PATENT-CLASS-416-97R
US-PATENT-4,384,823
N83-27184* # c 35 ..... NASA-CASE-NPO-15292-1
US-PATENT-APPL-SN-207135
US-PATENT-CLASS-250-282
US-PATENT-CLASS-250-288
US-PATENT-CLASS-250-423
US-PATENT-4,383,171
N83-27344* # c 44 ..... NASA-CASE-LEW-13246-1
US-PATENT-APPL-SN-266255
US-PATENT-CLASS-429-105
US-PATENT-CLASS-429-107
US-PATENT-CLASS-429-109
US-PATENT-CLASS-429-34
US-PATENT-CLASS-429-40
US-PATENT-4,382,116
N83-27569* # c 51 ..... NASA-CASE-GSC-12158-1
US-PATENT-APPL-SN-888434
US-PATENT-CLASS-422-52
US-PATENT-CLASS-435-289
US-PATENT-CLASS-435-291
US-PATENT-CLASS-435-3
US-PATENT-CLASS-435-34
US-PATENT-CLASS-435-38
US-PATENT-CLASS-435-39
US-PATENT-CLASS-435-8
US-PATENT-4,385,113
N83-27577* # c 52 ..... NASA-CASE-MSC-18761-1
US-PATENT-APPL-SN-254688
US-PATENT-CLASS-128-DIG.13
US-PATENT-CLASS-604-114
US-PATENT-CLASS-604-151
US-PATENT-CLASS-73-204
US-PATENT-4,384,578
N83-27578* # c 52 ..... NASA-CASE-MSC-18759-1
US-PATENT-APPL-SN-233270
US-PATENT-CLASS-128-660
US-PATENT-CLASS-128-663
US-PATENT-CLASS-73-597
US-PATENT-4,383,533
N83-27975* # c 05 ..... NASA-CASE-FRC-11072-1
US-PATENT-APPL-SN-230613
US-PATENT-CASE-179-146-R
US-PATENT-CASE-179-179
US-PATENT-CASE-367-906
US-PATENT-4,388,502
N83-28064* # c 18 ..... NASA-CASE-GSC-12551-1
US-PATENT-APPL-SN-182881
US-PATENT-CLASS-244-169
US-PATENT-CLASS-244-170
US-PATENT-4,386,750
N83-28076* # c 23 ..... NASA-CASE-ARC-11425-1
US-PATENT-APPL-SN-493864
N83-28240* # c 27 ..... NASA-CASE-LAR-12775-1
US-PATENT-APPL-SN-308201
US-PATENT-CLASS-524-104
US-PATENT-CLASS-524-173
US-PATENT-CLASS-524-233
US-PATENT-CLASS-524-726
US-PATENT-CLASS-525-181
US-PATENT-CLASS-525-183
US-PATENT-CLASS-525-184
US-PATENT-CLASS-525-474
US-PATENT-4,389,504
N83-28281* # c 31 ..... NASA-CASE-ARC-11363-1
US-PATENT-APPL-SN-500046
N83-28319* # c 33 ..... NASA-CASE-MFS-25302-1
US-PATENT-APPL-SN-243683
US-PATENT-CLASS-322-29
US-PATENT-CLASS-322-35
US-PATENT-CLASS-322-47
US-PATENT-CLASS-322-95
US-PATENT-4,388,585
N83-28356* # c 34 ..... NASA-CASE-GSC-12553-1
US-PATENT-APPL-SN-106192
US-PATENT-CLASS-165-185
US-PATENT-CLASS-165-32
US-PATENT-CLASS-165-76
US-PATENT-4,388,965
N83-28573* # c 44 ..... NASA-CASE-LAR-12495-1
US-PATENT-APPL-SN-263830
US-PATENT-CLASS-310-11
US-PATENT-4,388,542
N83-28574* # c 44 ..... NASA-CASE-GSC-12697-1
US-PATENT-APPL-SN-308204
US-PATENT-CLASS-308-10
US-PATENT-CLASS-310-15
US-PATENT-CLASS-417-417
US-PATENT-CLASS-62-6
US-PATENT-4,389,849
N83-28849* # c 51 ..... NASA-CASE-ARC-11322-1
US-PATENT-APPL-SN-315278
US-PATENT-CLASS-435-3
US-PATENT-CLASS-435-34
US-PATENT-CLASS-435-38
US-PATENT-CLASS-435-39
US-PATENT-CLASS-435-807
US-PATENT-4,386,157
N83-29032* # c 74 ..... NASA-CASE-KSC-11104-1
US-PATENT-APPL-SN-153245
US-PATENT-CLASS-350-96.16
US-PATENT-CLASS-455-612
US-PATENT-4,381,881
N83-29303* # c 18 ..... NASA-CASE-MFS-25403-1
US-PATENT-APPL-SN-248745
US-PATENT-CLASS-244-115
US-PATENT-CLASS-244-161
US-PATENT-CLASS-269-152
US-PATENT-CLASS-269-242
US-PATENT-CLASS-269-244
US-PATENT-CLASS-294-86R
US-PATENT-4,391,423
N83-29324* # c 25 ..... NASA-CASE-GSC-12770-1
US-PATENT-APPL-SN-301075
US-PATENT-CLASS-423-648R
US-PATENT-CLASS-423-649
US-PATENT-4,393,039
N83-29325* # c 25 ..... NASA-CASE-MSC-20206-1
US-PATENT-APPL-SN-478129
N83-29388* # c 27 ..... NASA-CASE-LEW-13132-1
US-PATENT-APPL-SN-272152
US-PATENT-CLASS-204-35N
US-PATENT-CLASS-204-37R
US-PATENT-CLASS-204-56R
US-PATENT-4,392,920
N83-29392* # c 27 ..... NASA-CASE-LEW-12876-2
US-PATENT-APPL-SN-393583
N83-29625* # c 34 ..... NASA-CASE-LEW-12508-3
US-PATENT-APPL-SN-235868
US-PATENT-CLASS-62-3
US-PATENT-4,392,356
N83-29650* # c 35 ..... NASA-CASE-MFS-25242-1
US-PATENT-APPL-SN-246773
US-PATENT-CLASS-374-17
US-PATENT-CLASS-73-863.11
US-PATENT-4,389,904
N83-29651* # c 35 ..... NASA-CASE-LAR-12531-1
US-PATENT-APPL-SN-282191
US-PATENT-CASE-368-10
US-PATENT-CASE-368-118
US-PATENT-CASE-368-119
US-PATENT-CASE-368-120
US-PATENT-CASE-368-6
US-PATENT-CASE-368-9
US-PATENT-4,392,749
N83-29652* # c 35 ..... NASA-CASE-MSC-18936-1
US-PATENT-APPL-SN-325082
US-PATENT-CLASS-55-194
US-PATENT-CLASS-55-202
US-PATENT-4,392,874
N83-29680* # c 36 ..... NASA-CASE-MFS-25315-1
US-PATENT-APPL-SN-224232
US-PATENT-CASE-356-129
US-PATENT-4,391,518
N83-29681* # c 36 ..... NASA-CASE-GSC-12609-2
US-PATENT-APPL-SN-481020
N83-29783* # c 43 ..... NASA-CASE-LAR-13053-1
US-PATENT-APPL-SN-508372
N83-29991* # c 52 ..... NASA-CASE-ARC-11264-2
US-PATENT-APPL-SN-465370
N83-30222* # c 74 ..... NASA-CASE-NPO-15828-1
US-PATENT-APPL-SN-411767
N83-31603* # c 07 ..... NASA-CASE-LEW-14586-1
US-PATENT-APPL-SN-163122
US-PATENT-CLASS-415-1
US-PATENT-CLASS-415-175
US-PATENT-CLASS-415-178
US-PATENT-CLASS-415-47
US-PATENT-4,338,061
N83-31743* # c 25 ..... NASA-CASE-NPO-15304-1
US-PATENT-APPL-SN-315587
US-PATENT-CLASS-201-17
US-PATENT-CLASS-44-1SR
US-PATENT-4,391,609
N83-31795* # c 26 ..... NASA-CASE-LEW-13343
US-PATENT-APPL-SN-293418
US-PATENT-CLASS-427-318
US-PATENT-CLASS-427-419.2
US-PATENT-CLASS-428-450
US-PATENT-CLASS-428-469
US-PATENT-CLASS-428-641
US-PATENT-CLASS-428-650
US-PATENT-CLASS-428-680
US-PATENT-4,374,183
N83-31854* # c 27 ..... NASA-CASE-ARC-11368-1
US-PATENT-APPL-SN-288267
US-PATENT-CLASS-548-413
US-PATENT-CLASS-548-415
US-PATENT-4,395,557
N83-31855* # c 27 ..... NASA-CASE-LEW-1335901
US-PATENT-APPL-SN-229233
US-PATENT-CLASS-427-219.2
US-PATENT-CLASS-427-34
US-PATENT-CLASS-427-405
US-PATENT-CLASS-427-423
US-PATENT-CLASS-428-623
US-PATENT-CLASS-428-633
US-PATENT-CLASS-428-678
US-PATENT-4,335,190
N83-31895* # c 31 ..... NASA-CASE-MFS-25134-1
US-PATENT-APPL-SN-195226
US-PATENT-CLASS-24-214
US-PATENT-CLASS-244-159
US-PATENT-4,381,583
N83-31896* # c 31 ..... NASA-CASE-NPO-14596-3
US-PATENT-APPL-SN-303671

US-PATENT-CLASS-264-5
US-PATENT-CLASS-264-9
US-PATENT-CLASS-425-6
US-PATENT-CLASS-65-142
US-PATENT-CLASS-65-214
US-PATENT-CLASS-65-22
US-PATENT-4,344,787

N83-31897* # c 31 ..... NASA-CASE-NPO-15251-1
US-PATENT-APPL-SN-229239
US-PATENT-CLASS-337-14
US-PATENT-CLASS-62-48
US-PATENT-CLASS-62-514R
US-PATENT-4,366,680

N83-31918* # c 32 ..... NASA-CASE-NPO-14525-2
US-PATENT-APPL-SN-165910
US-PATENT-CLASS-343-5CM
US-PATENT-CLASS-343-9PS
US-PATENT-CLASS-367-88
US-PATENT-4,355,311

N83-31952* # c 33 ..... NASA-CASE-LEW-13429-1
US-PATENT-APPL-SN-220212
US-PATENT-CLASS-315-3
US-PATENT-CLASS-315-4
US-PATENT-CLASS-315-5
US-PATENT-CLASS-315-5.35
US-PATENT-CLASS-315-5.38
US-PATENT-4,395,656

N83-31953* # c 33 ..... NASA-CASE-MFS-25215-1
US-PATENT-APPL-SN-291131
US-PATENT-CLASS-318-800
US-PATENT-CLASS-318-803
US-PATENT-CLASS-318-809
US-PATENT-4,394,610

N83-31954* # c 33 ..... NASA-CASE-NPO-14940-1
US-PATENT-APPL-SN-135038
US-PATENT-CLASS-324-466
US-PATENT-CLASS-73-861.05
US-PATENT-4,338,568

N83-31993* # c 34 ..... NASA-CASE-NPO-15400-1
US-PATENT-APPL-SN-246774
US-PATENT-CLASS-250-573
US-PATENT-CLASS-73-64.4
US-PATENT-4,391,129

N83-32026* # c 35 ..... NASA-CASE-LAR-12728-1
US-PATENT-APPL-SN-408575
US-PATENT-CLASS-248-636
US-PATENT-CLASS-248-638
US-PATENT-CLASS-62-295
US-PATENT-CLASS-62-514 R
US-PATENT-4,394,819

N83-32067* # c 37 ..... NASA-CASE-GSC-12517-1
US-PATENT-APPL-SN-214361
US-PATENT-CLASS-104-282
US-PATENT-CLASS-104-290
US-PATENT-CLASS-308-10
US-PATENT-CLASS-310-12
US-PATENT-4,387,935

N83-32081* # c 39 ..... NASA-CASE-LAR-12602-1
US-PATENT-APPL-SN-210506
US-PATENT-CLASS-374-51
US-PATENT-CLASS-73-818
US-PATENT-CLASS-73-822
US-PATENT-CLASS-73-856
US-PATENT-CLASS-73-860
US-PATENT-4,393,716

N83-32175* # c 44 ..... NASA-CASE-LEW-12443-1
US-PATENT-APPL-SN-235797
US-PATENT-CLASS-310-306
US-PATENT-4,373,142

N83-32176* # c 44 ..... NASA-CASE-LEW-13171-2
US-PATENT-APPL-SN-333537
US-PATENT-CLASS-29-623.5
US-PATENT-CLASS-429-144
US-PATENT-CLASS-429-251
US-PATENT-CLASS-429-254
US-PATENT-4,371,596

N83-32177* # c 44 ..... NASA-CASE-LEW-13401-2
US-PATENT-APPL-SN-359388
US-PATENT-CLASS-136-249
US-PATENT-CLASS-357-30
US-PATENT-4,376,872

N83-32232* # c 47 ..... NASA-CASE-NPO-14936-1
US-PATENT-APPL-SN-163837
US-PATENT-CLASS-250-203R
US-PATENT-CLASS-356-222
US-PATENT-4,355,896

N83-32342* # c 60 ..... NASA-CASE-NPO-15342-1
US-PATENT-APPL-SN-258623
US-PATENT-CLASS-364-200
US-PATENT-CLASS-364-900
US-PATENT-4,394,726

N83-32515* # c 71 ..... NASA-CASE-NPO-15453-1
US-PATENT-APPL-SN-314929
US-PATENT-CLASS-60-721
US-PATENT-CLASS-73-505
US-PATENT-4,393,708

N83-32516* # c 71 ..... NASA-CASE-NPO-15522-1
US-PATENT-APPL-SN-303672
US-PATENT-CLASS-60-721
US-PATENT-CLASS-73-505
US-PATENT-4,393,706

N83-32577* # c 74 ..... NASA-CASE-GSC-12614-1
US-PATENT-APPL-SN-195227
US-PATENT-CLASS-356-353
US-PATENT-CLASS-356-363
US-PATENT-4,395,123

N83-33882* # c 06 ..... NASA-CASE-FRC-11043-1
US-PATENT-APPL-SN-242790
US-PATENT-CLASS-33-322
US-PATENT-CLASS-74-5.34
US-PATENT-4,387,513

N83-33884* # c 07 ..... NASA-CASE-ARC-10812-1
US-PATENT-APPL-SN-657903
US-PATENT-CLASS-181-213
US-PATENT-CLASS-239-265.17
US-PATENT-CLASS-60-262
US-PATENT-CLASS-60-269
US-PATENT-CLASS-60-271
US-PATENT-4,372,110

N83-33950* # c 24 ..... NASA-CASE-NPO-14987-1
US-PATENT-APPL-SN-164-584
US-PATENT-CLASS-427-215
US-PATENT-CLASS-427-241
US-PATENT-CLASS-428-367
US-PATENT-CLASS-428-375
US-PATENT-CLASS-428-392
US-PATENT-CLASS-428-902
US-PATENT-CLASS-428-903
US-PATENT-4, 359,503

N83-33977* # c 25 ..... NASA-CASE-ARC-11326-1
US-PATENT-APPL-SN-178192
US-PATENT-CLASS-252-5
US-PATENT-CLASS-423-419P
US-PATENT-CLASS-423-600
US-PATENT-CLASS-424-156
US-PATENT-4, 356,157

N83-34039* # c 27 ..... NASA-CASE-GSC-12686-1
US-PATENT-APPL-SN-293412
US-PATENT-CLASS-427-322
US-PATENT-CLASS-427-340
US-PATENT-CLASS-427-352
US-PATENT-CLASS-427-400
US-PATENT-CLASS-427-407.1
US-PATENT-4,362,769

N83-34040* # c 27 ..... NASA-CASE-LAR-12838-1
US-PATENT-APPL-SN-320621
US-PATENT-CLASS-526-259
US-PATENT-CLASS-526-285
US-PATENT-CLASS-528-12
US-PATENT-CLASS-528-125
US-PATENT-CLASS-528-126
US-PATENT-CLASS-528-128
US-PATENT-CLASS-528-220
US-PATENT-CLASS-528-222
US-PATENT-CLASS-528-228
US-PATENT-CLASS-528-229
US-PATENT-CLASS-528-38
US-PATENT-4,375,536

N83-34041* # c 27 ..... NASA-CASE-LAR-12858-1
US-PATENT-APPL-SN-407240
US-PATENT-CLASS-164-331.12
US-PATENT-CLASS-264-137
US-PATENT-CLASS-264-258
US-PATENT-CLASS-264-331.46
US-PATENT-CLASS-528-222
US-PATENT-CLASS-528-226
US-PATENT-4,398,021

N83-34043* # c 27 ..... NASA-CASE-NPO-15202-1
US-PATENT-APPL-SN-233271
US-PATENT-CLASS-384-124
US-PATENT-CLASS-523-440
US-PATENT-CLASS-523-443
US-PATENT-4,395,503

N83-34073* # c 31 ..... NASA-CASE-ARC-11246-1
US-PATENT-APPL-SN-136660
US-PATENT-CLASS-156-264
US-PATENT-CLASS-156-344
US-PATENT-CLASS-156-59
US-PATENT-CLASS-273-240
US-PATENT-CLASS-434-403
US-PATENT-CLASS-434-88
US-PATENT-4,385,949

N83-34189* # c 33 ..... NASA-CASE-GSC-12566-1
US-PATENT-APPL-SN-276748
US-PATENT-CLASS-315-208
US-PATENT-CLASS-315-224
US-PATENT-CLASS-315-225
US-PATENT-CLASS-315-237
US-PATENT-CLASS-315-241R
US-PATENT-CLASS-372-25
US-PATENT-4,398,129

N83-34190* # c 33 ..... NASA-CASE-MFS-25607-1
US-PATENT-APPL-SN-325886
US-PATENT-CLAS-361-90
US-PATENT-CLASS-318-729
US-PATENT-CLASS-318-798
US-PATENT-CLASS-318-806
US-PATENT-CLASS-361-100
US-PATENT-CLASS-363-54
US-PATENT-4,400,657

N83-34191* # c 33 ..... NASA-CASE-GSC-12646-1
US-PATENT-APPL-SN-284290
US-PATENT-CLASS-330-289
US-PATENT-CLASS-330-310
US-PATENT-4,401,953

N83-34221* # c 34 ..... NASA-CASE-LAR-12393-1
US-PATENT-APPL-SN-145208
US-PATENT-CLAS-165-27
US-PATENT-CLASS-165-12
US-PATENT-CLASS-165-61
US-PATENT-CLASS-165-80E
US-PATENT-CLASS-374-46
US-PATENT-CLASS-62-514R
US-PATENT-CLASS-62-62
US-PATENT-4,346,754

N83-34272* # c 35 ..... NASA-CASE-ARC-11317-1
US-PATENT-APPL-SN-229231
US-PATENT-CLASS-340-518
US-PATENT-CLASS-340-566
US-PATENT-4,374,378

N83-34304* # c 36 ..... NASA-CASE-ARC-11312-1
US-PATENT-APPL-SN-234224
US-PATENT-CLASS-356-1
US-PATENT-CLASS-356-4
US-PATENT-CLASS-358-104
US-PATENT-CLASS-358-109
US-PATENT-CLASS-434-38
US-PATENT-CLASS-434-4
US-PATENT-4,391,514

N83-34323* # c 37 ..... NASA-CASE-GSC-12726-1
US-PATENT-APPL-SN-364093
US-PATENT-CLASS-308-10
US-PATENT-4,381,375

N83-34448* # c 44 ..... NASA-CASE-ARC-11164-1
US-PATENT-APPL-SN-308007
US-PATENT-CLASS-350-166
US-PATENT-CLASS-428-312.6
US-PATENT-CLASS-428-325
US-PATENT-CLASS-428-427
US-PATENT-CLASS-428-428
US-PATENT-4,381,333

N83-34449* # c 44 ..... NASA-CASE-LAR-12719-1
US-PATENT-APPL-SN-367134
US-PATENT-CLASS-126-901
US-PATENT-CLASS-204-33
US-PATENT-CLASS-204-35N
US-PATENT-4,397,716

N83-34796* # c 76 ..... NASA-CASE-LEW-12582-1
US-PATENT-APPL-SN-397281
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US-PATENT-CLASS-310-800
US-PATENT-CLASS-428-294
US-PATENT-CLASS-428-421
US-PATENT-CLASS-428-422
US-PATENT-4,400,642

N83-35176* # c 31 ..... NASA-CASE-NPO-15070-1
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US-PATENT-CLASS-264-24
US-PATENT-CLASS-264-5
US-PATENT-CLASS-425-10
US-PATENT-CLASS-425-6
US-PATENT-CLASS-425-7
US-PATENT-CLASS-65-142
US-PATENT-CLASS-65-21.3
US-PATENT-CLASS-65-21.4
US-PATENT-CLASS-65-22
US-PATENT-4,400,191

N83-35177* # c 31 ..... NASA-CASE-LEW-13450-1
US-PATENT-APPL-SN-328760
US-PATENT-CLASS-427-243
US-PATENT-CLASS-427-247
US-PATENT-CLASS-427-34
US-PATENT-CLASS-427-423
US-PATENT-4,402,992

N83-35227* # c 33 ..... NASA-CASE-MFS-25209-1
US-PATENT-APPL-SN-291132
US-PATENT-CLASS-318-685
US-PATENT-CLASS-318-798
US-PATENT-CLASS-318-806
US-PATENT-4,401,934

N83-35307* # c 34 ..... NASA-CASE-GSC-12812-1
US-PATENT-APPL-SN-434674
US-PATENT-CLASS-165-104.26
US-PATENT-CLASS-165-32
US-PATENT-4,402,358

N83-35338* # c 35 ..... NASA-CASE-LEW-13934-1
US-PATENT-APPL-SN-212949

US-PATENT-CLASS-228-103
US-PATENT-CLASS-228-193
US-PATENT-CLASS-228-263.18
US-PATENT-CLASS-415-118
US-PATENT-4,402,447
N83-35350* # c 36 ..... NASA-CASE-NPO-15201-1
US-PATENT-APPL-SN-246778
US-PATENT-CLASS-330-4
US-PATENT-CLASS-332-7.5
US-PATENT-CLASS-333-24.2
US-PATENT-4,399,415
N83-35781* # c 71 ..... NASA-CASE-NPO-15334-1
US-PATENT-APPL-SN-341406
US-PATENT-CLASS-210-748
US-PATENT-CLASS-252-361
US-PATENT-CLASS-366-114
US-PATENT-CLASS-55-15
US-PATENT-CLASS-55-277
US-PATENT-CLASS-55-38
US-PATENT-CLASS-55-52
US-PATENT-CLASS-65-134
US-PATENT-4,398,925
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US-PATENT-APPL-SN-364092
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US-PATENT-CLASS-156-DIG.73
US-PATENT-CLASS-156-608
US-PATENT-4,401,505
N83-35992* # c 01 ..... NASA-CASE-LAR-12624-1
US-PATENT-APPL-SN-259209
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US-PATENT-CLASS-244-137P
US-PATENT-CLASS-89-1B
US-PATENT-4,407,468
N83-36029* # c 07 ..... NASA-CASE-LEW-13142-1
US-PATENT-APPL-SN-132364
US-PATENT-CLASS-60-39.07
US-PATENT-4,404,793
N83-36118* # c 25 ..... NASA-CASE-ARC-11252-1
US-PATENT-APPL-SN-317977
US-PATENT-CLASS-169-47
US-PATENT-CLASS-252-2
US-PATENT-CLASS-252-5
US-PATENT-4,406,797
N83-36220* # c 27 ..... NASA-CASE-MFS-25436-1
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US-PATENT-CLASS-156-DIG.89
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US-PATENT-CLASS-156-610
US-PATENT-CLASS-165-2
US-PATENT-CLASS-165-58
US-PATENT-CLASS-219-343
US-PATENT-CLASS-219-354
US-PATENT-CLASS-219-390
US-PATENT-CLASS-219-411
US-PATENT-CLASS-350-316
US-PATENT-4,408,658
N83-36355* # c 33 ..... NASA-CASE-GSC-12630-1
US-PATENT-APPL-SN-308009
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US-PATENT-CLASS-343-840
US-PATENT-4,407,001
N83-36356* # c 33 ..... NASA-CASE-KSC-11170-1
US-PATENT-APPL-SN-284288
US-PATENT-CLASS-330-110
US-PATENT-CLASS-330-282
US-PATENT-4,406,989
N83-36357* # c 33 ..... NASA-CASE-LAR-12654-1
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US-PATENT-CLASS-368-200
US-PATENT-CLASS-368-201
US-PATENT-4,407,589
N83-36482* # c 37 ..... NASA-CASE-MSC-18791-1
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US-PATENT-CLASS-81-55
US-PATENT-CLASS-81-57.38
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US-PATENT-CLASS-123-78E
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N83-36846* # c 71 ..... NASA-CASE-NPO-15435-1
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US-PATENT-CLASS-308-10
US-PATENT-CLASS-73-505
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N83-36898* # c 74 ..... NASA-CASE-GSC-12683-1
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US-PATENT-CLASS-350-445
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N84-11136* # c 02 ..... NASA-CASE-LAR-12843-1
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US-PATENT-CLASS-244-35R
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US-PATENT-CLASS-416-242
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N84-11213* # c 24 ..... NASA-CASE-ARC-11418-1
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US-PATENT-CLASS-523-456
US-PATENT-CLASS-528-110
US-PATENT-CLASS-528-361
US-PATENT-4,410,682
N84-11214* # c 24 ..... NASA-CASE-LAR-12807-1
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US-PATENT-CLASS-228-181
US-PATENT-CLASS-228-212
US-PATENT-CLASS-244-119
US-PATENT-CLASS-244-123
US-PATENT-CLASS-428-593
US-PATENT-CLASS-52-806
US-PATENT-CLASS-52-808
US-PATENT-4,411,380
N84-11497* # c 37 ..... NASA-CASE-MFS-25678-1
US-PATENT-APPL-SN-378533
US-PATENT-CLASS-277-116.6
US-PATENT-CLASS-277-124
US-PATENT-CLASS-277-164
US-PATENT-CLASS-277-177
US-PATENT-CLASS-277-190
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N84-11744* # c 52 ..... NASA-CASE-MFS-25740-1
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N84-11758* # c 54 ..... NASA-CASE-MSC-18223-2
US-PATENT-APPL-SN-219681
US-PATENT-APPL-SN-368187
US-PATENT-CLASS-604-368
US-PATENT-CLASS-604-378
US-PATENT-CLASS-604-396
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US-PATENT-4,411,660
N84-11920* # c 74 ..... NASA-CASE-GSC-12640-1
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US-PATENT-CLASS-250-363S
US-PATENT-CLASS-250-368
US-PATENT-CLASS-378-2
US-PATENT-4,404,469
N84-11921* # c 74 ..... NASA-CASE-NPO-15375-1
US-PATENT-APPL-SN-210405
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US-PATENT-CLASS-3-1.1
US-PATENT-CLASS-350-96.10
US-PATENT-CLASS-350-96.15
US-PATENT-CLASS-73-432T
US-PATENT-4,405,197
N84-12092* # c 02 ..... NASA-CASE-LAR-13255-1
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N84-12151* # c 04 ..... NASA-CASE-NPO-16171-1-CU
US-PATENT-APPL-SN-551536
N84-12154* # c 05 ..... NASA-CASE-LAR-12615-1
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US-PATENT-CLASS-244-45R
US-PATENT-CLASS-244-53R
US-PATENT-CLASS-244-55
US-PATENT-CLASS-244-91
US-PATENT-4,415,133
N84-12193* # c 09 ..... NASA-CASE-ARC-11426-1
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N84-12262* # c 25 ..... NASA-CASE-NPO-15458-1
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US-PATENT-CLASS-204-129
US-PATENT-CLASS-204-242
US-PATENT-CLASS-204-278
US-PATENT-CLASS-204-290R
US-PATENT-CLASS-427-443.2
US-PATENT-CLASS-429-111
US-PATENT-4,414,080
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US-PATENT-CLASS-239-426
US-PATENT-4,413,784
N84-12443* # c 35 ..... NASA-CASE-FRC-11068-1
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US-PATENT-CLASS-156-215
US-PATENT-CLASS-156-230
US-PATENT-CLASS-156-235
US-PATENT-CLASS-156-294
US-PATENT-CLASS-156-391
US-PATENT-CLASS-156-423
US-PATENT-CLASS-156-540
US-PATENT-CLASS-156-71
US-PATENT-CLASS-338-2
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US-PATENT-CLASS-328-230
US-PATENT-CLASS-372-74
US-PATENT-4,414,509
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US-PATENT-CLASS-73-646
US-PATENT-CLASS-73-658
US-PATENT-4,413,522
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US-PATENT-CLASS-269-3
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US-PATENT-CLASS-308-2A
US-PATENT-4,405,184
N84-12493* # c 37 ..... NASA-CASE-LAR-12923-1
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US-PATENT-CLASS-416-117
US-PATENT-CLASS-416-132B
US-PATENT-4,415,311
N84-12654* # c 45 ..... NASA-CASE-NSTL-10
US-PATENT-APPL-SN-335036
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US-PATENT-CLASS-210-602
US-PATENT-CLASS-210-605
US-PATENT-CLASS-210-617
US-PATENT-CLASS-47-58
US-PATENT-4,415,450
N84-12968* # c 76 ..... NASA-CASE-NPO-15811-1
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N84-14132* # c 04 ..... NASA-CASE-LAR-12638-1
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US-PATENT-CLASS-33-356
US-PATENT-CLASS-33-361
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US-PATENT-CLASS-428-260
US-PATENT-CLASS-428-367
US-PATENT-CLASS-428-408
US-PATENT-CLASS-428-473.5
US-PATENT-CLASS-428-902
US-PATENT-CLASS-428-920
US-PATENT-CLASS-524-494
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US-PATENT-CLASS-524-500
US-PATENT-CLASS-524-530
US-PATENT-CLASS-525-282
US-PATENT-CLASS-525-287
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N84-14323* # c 27 ..... NASA-CASE-LAR-12881-1
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US-PATENT-CLASS-206-582
US-PATENT-CLASS-428-202
US-PATENT-CLASS-428-347
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US-PATENT-CLASS-428-78
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N84-14324* # c 27 ..... NASA-CASE-MSC-18382-2
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US-PATENT-CLASS-524-371
US-PATENT-4,395,511
N84-14421* # c 33 ..... NASA-CASE-GSC-12650-1
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US-PATENT-CLASS-330-109
US-PATENT-4,417,215
N84-14422* # c 33 ..... NASA-CASE-LEW-13286-1
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US-PATENT-CLASS-252-182.1
US-PATENT-CLASS-429-206
US-PATENT-CLASS-429-229
US-PATENT-4,418,130
N84-14423* # c 33 ..... NASA-CASE-MFS-25211-2
US-PATENT-APPL-SN-432057
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US-PATENT-CLASS-339-262RR
US-PATENT-CLASS-339-64M

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N84-14424* # c 33 ..... NASA-CASE-MFS-25477-1
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US-PATENT-CLASS-165-41
US-PATENT-CLASS-165-96
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N84-14491* # c 35 ..... NASA-CASE-LAR-12686-1
US-PATENT-APPL-SN-249304
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US-PATENT-CLASS-364-558
US-PATENT-CLASS-364-571
US-PATENT-CLASS-73-714
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N84-14509* # c 36 ..... NASA-CASE-GSC-12565-1
US-PATENT-APPL-SN-270763
US-PATENT-CLASS-350-299
US-PATENT-CLASS-356-345
US-PATENT-CLASS-372-100
US-PATENT-CLASS-372-108
US-PATENT-CLASS-372-93
US-PATENT-CLASS-372-94
US-PATENT-CLASS-372-98
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N84-14583* # c 44 ..... NASA-CASE-NPO-15100-1
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US-PATENT-CLASS-251-127
US-PATENT-4,418,722
N84-14873* # c 71 ..... NASA-CASE-LAR-11903-2
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US-PATENT-APPL-SN-753971
US-PATENT-CLASS-239-265.17
US-PATENT-4,398,667
N84-15183* # c 20 ..... NASA-CASE-MFS-25946-1
US-PATENT-APPL-SN-561432
N84-15537* # c 36 ..... NASA-CASE-NPO-16271-1
US-PATENT-APPL-SN-556514
N84-15960* # c 74 ..... NASA-CASE-GSC-12849-1
US-PATENT-APPL-SN-556481
N84-16221* # c 09 ..... NASA-CASE-ARC-11504-1
US-PATENT-APPL-SN-565481
N84-16231* # c 15 ..... NASA-CASE-LAR-12751-1
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US-PATENT-CLASS-73-432R
US-PATENT-CLASS-73-9
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N84-16250* # c 18 ..... NASA-CASE-LAR-13117-1
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N84-16259* # c 23 ..... NASA-CASE-ARC-11511-1
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N84-16262* # c 24 ..... NASA-CASE-MSC-16934-3
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US-PATENT-CLASS-110-265
US-PATENT-CLASS-431-1
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US-PATENT-CLASS-315-3.6
US-PATENT-CLASS-315-39.3
US-PATENT-CLASS-333-162
US-PATENT-4,422,012
N84-16453* # c 33 ..... NASA-CASE-MFS-25430-1
US-PATENT-APPL-SN-383083
US-PATENT-CLASS-363-25
US-PATENT-CLASS-363-65
US-PATENT-CLASS-363-67
US-PATENT-CLASS-363-71
US-PATENT-4,426,678
N84-16454* # c 33 ..... NASA-CASE-GSC-12645-1
US-PATENT-APPL-SN-284314
US-PATENT-CLASS-324-79R
US-PATENT-CLASS-324-83A
US-PATENT-CLASS-324-83R
US-PATENT-CLASS-328-133
US-PATENT-CLASS-330-289
US-PATENT-4,425,543
N84-16455* # c 33 ..... NASA-CASE-MFS-25616-1
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US-PATENT-CLASS-318-799
US-PATENT-CLASS-323-243
US-PATENT-CLASS-323-246
US-PATENT-4,426,614
N84-16456* # c 33 ..... NASA-CASE-NPO-15161-1
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US-PATENT-CLASS-427-216
US-PATENT-CLASS-427-217
US-PATENT-CLASS-427-226
US-PATENT-CLASS-427-376.6
US-PATENT-CLASS-427-376.7
US-PATENT-CLASS-427-436
US-PATENT-CLASS-427-437
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US-PATENT-CLASS-427-88
US-PATENT-CLASS-427-96
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N84-16523* # c 35 ..... NASA-CASE-LAR-12007-3
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US-PATENT-CLASS-33-293
US-PATENT-4,428,122
N84-16542* # c 36 ..... NASA-CASE-LAR-12870-1
US-PATENT-APPL-SN-317658
US-PATENT-CLASS-372-55
US-PATENT-CLASS-372-79
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N84-16560* # c 37 ..... NASA-CASE-MFS-25510-1
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US-PATENT-CLASS-248-228
US-PATENT-4,422,609
N84-16561* # c 37 ..... NASA-CASE-LAR-12785-1
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US-PATENT-CLASS-239-568
US-PATENT-CLASS-241-95
US-PATENT-CLASS-406-155
US-PATENT-4,428,703
N84-16803* # c 54 ..... NASA-CASE-MSC-20202-1
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US-PATENT-CLASS-128-15R
US-PATENT-CLASS-128-38
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US-PATENT-CLASS-118-62
US-PATENT-CLASS-427-346
US-PATENT-CLASS-427-421
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N84-16959* # c 72 ..... NASA-CASE-NPO-15547-1
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N84-16986* # c 74 ..... NASA-CASE-MFS-26000-1
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N84-17555* # c 35 ..... NASA-CASE-NPO-15426-1
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US-PATENT-CLASS-55-DIG.30
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US-PATENT-CLASS-55-131
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N84-20670* # c 26 ..... NASA-CASE-GSC-12680-1
US-PATENT-APPL-SN-590925
N84-20702* # c 27 ..... NASA-CASE-ARC-11512-1
US-PATENT-APPL-SN-569373
N84-20808* # c 35 ..... NASA-CASE-ARC-11422-1
US-PATENT-APPL-SN-523991
N84-20859* # c 37 ..... NASA-CASE-LAR-13250-1
US-PATENT-APPL-SN-573162
N84-20860* # c 37 ..... NASA-CASE-MFS-25956-1
US-PATENT-APPL-SN-580397
N84-22546* # c 04 ..... NASA-CASE-GSC-12508-1
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N84-22551* # c 05 ..... NASA-CASE-LAR-12541-1
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US-PATENT-CLASS-244-215
US-PATENT-CLASS-244-216
US-PATENT-CLASS-244-219
US-PATENT-4,444,368
N84-22559* # c 07 ..... NASA-CASE-LEW-13622-1
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US-PATENT-CLASS-73-115
US-PATENT-4,428,226
N84-22560* # c 07 ..... NASA-CASE-LEW-13654-1
US-PATENT-APPL-SN-245571
US-PATENT-CLASS-416-224
US-PATENT-CLASS-416-233
US-PATENT-CLASS-416-92
US-PATENT-CLASS-416-97R
US-PATENT-4,411,597
N84-22601* # c 16 ..... NASA-CASE-MSC-20254-1
US-PATENT-APPL-SN-418137
US-PATENT-CLASS-244-158A
US-PATENT-CLASS-52-404
US-PATENT-CLASS-52-506
US-PATENT-4,439,968
N84-22605* # c 18 ..... NASA-CASE-MSC-18969-1
US-PATENT-APPL-SN-368189
US-PATENT-CLASS-244-161
US-PATENT-CLASS-403-322
US-PATENT-4,431,333
N84-22609* # c 18 ..... NASA-CASE-MFS-15429-1
US-PATENT-APPL-SN-596959
N84-22610* # c 18 ..... NASA-CASE-MSC-20543-1
US-PATENT-APPL-SN-580574
N84-22612* # c 18 ..... NASA-CASE-ARC-11505-1
US-PATENT-APPL-SN-588036
N84-22695* # c 24 ..... NASA-CASE-LEW-13837-1
US-PATENT-APPL-SN-495381
US-PATENT-CLASS-204-192C
US-PATENT-CLASS-204-192R
US-PATENT-CLASS-204-192SP
US-PATENT-CLASS-423-DIG.10
US-PATENT-CLASS-423-414
US-PATENT-CLASS-423-445
US-PATENT-CLASS-423-446
US-PATENT-CLASS-423-449
US-PATENT-4,437,962
N84-22709* # c 25 ..... NASA-CASE-NPO-15210-1
US-PATENT-APPL-SN-322312
US-PATENT-CLASS-208-10
US-PATENT-CLASS-208-8LE
US-PATENT-4,443,321
N84-22734* # c 26 ..... NASA-CASE-LEW-13349-1
US-PATENT-APPL-SN-350476
US-PATENT-CLASS-29-623.5
US-PATENT-CLASS-427-115
US-PATENT-CLASS-427-125
US-PATENT-CLASS-427-126.6
US-PATENT-CLASS-427-296
US-PATENT-CLASS-427-306
US-PATENT-CLASS-429-223
US-PATENT-CLASS-429-234
US-PATENT-4,439,465
N84-22744* # c 27 ..... NASA-CASE-ARC-11402-1
US-PATENT-APPL-SN-366025
US-PATENT-CLASS-260-465.5R
US-PATENT-CLASS-260-465.6
US-PATENT-CLASS-528-362
US-PATENT-CLASS-528-401
US-PATENT-CLASS-528-422

US-PATENT-CLASS-528-423
US-PATENT-CLASS-544-215
US-PATENT-CLASS-564-243
US-PATENT-4,434,106

N84-22745* # c 27 ..... NASA-CASE-ARC-11368-3
US-PATENT-APPL-SN-288267
US-PATENT-APPL-SN-512795
US-PATENT-CLASS-428-370
US-PATENT-CLASS-428-408
US-PATENT-CLASS-428-902
US-PATENT-CLASS-428-920
US-PATENT-CLASS-525-417
US-PATENT-CLASS-526-262
US-PATENT-CLASS-528-228
US-PATENT-CLASS-528-322
US-PATENT-CLASS-548-415
US-PATENT-4,395,557
US-PATENT-4,433,115

N84-22746* # c 27 ..... NASA-CASE-LAR-12723-2
US-PATENT-APPL-SN-199768
US-PATENT-APPL-SN-447371
US-PATENT-CLASS-525-426
US-PATENT-CLASS-528-183
US-PATENT-CLASS-528-220
US-PATENT-CLASS-528-345
US-PATENT-CLASS-528-348
US-PATENT-4,395,540
US-PATENT-4,431,792

N84-22747* # c 27 ..... NASA-CASE-LAR-12931-1
US-PATENT-APPL-SN-433598
US-PATENT-CLASS-524-171
US-PATENT-CLASS-525-534
US-PATENT-CLASS-525-535
US-PATENT-CLASS-525-536
US-PATENT-CLASS-528-25
US-PATENT-CLASS-528-26
US-PATENT-4,431,761

N84-22748* # c 27 ..... NASA-CASE-NPO-15640-1
US-PATENT-APPL-SN-465367
US-PATENT-CLASS-156-304.3
US-PATENT-CLASS-156-304.6
US-PATENT-CLASS-156-499
US-PATENT-CLASS-156-81
US-PATENT-CLASS-156-89
US-PATENT-4,420,352

N84-22749* # c 27 ..... NASA-CASE-LAR-12980-1
US-PATENT-APPL-SN-469866
US-PATENT-CLASS-528-125
US-PATENT-CLASS-528-128
US-PATENT-CLASS-528-172
US-PATENT-CLASS-528-185
US-PATENT-4,444,979

N84-22750* # c 27 ..... NASA-CASE-ARC-11370-1
US-PATENT-APPL-SN-491125
US-PATENT-CLASS-525-389
US-PATENT-CLASS-528-394
US-PATENT-CLASS-528-399
US-PATENT-CLASS-528-6
US-PATENT-CLASS-528-7
US-PATENT-CLASS-568-4
US-PATENT-CLASS-568-5
US-PATENT-4,444,972

N84-22820* # c 32 ..... NASA-CASE-MSC-18675-1
US-PATENT-APPL-SN-266687
US-PATENT-CLASS-343-17.5
US-PATENT-CLASS-343-9R
US-PATENT-4,439,766

N84-22884* # c 33 ..... NASA-CASE-MFS-256704-1
US-PATENT-APPL-SN-409679
US-PATENT-CLASS-204-192EC
US-PATENT-4,437,961

N84-22885* # c 33 ..... NASA-CASE-MFS-25535-2
US-PATENT-APPL-SN-476244
US-PATENT-CLASS-318-438
US-PATENT-CLASS-318-729
US-PATENT-CLASS-318-798
US-PATENT-CLASS-318-805
US-PATENT-CLASS-318-810
US-PATENT-4,433,276

N84-22886* # c 33 ..... NASA-CASE-MFS-25323-1
US-PATENT-APPL-SN-297524
US-PATENT-CLASS-318-729
US-PATENT-CLASS-318-812
US-PATENT-4,439,718

N84-22887* # c 33 ..... NASA-CASE-GSC-12567-1
US-PATENT-APPL-SN-373839
US-PATENT-CLASS-330-109
US-PATENT-CLASS-330-277
US-PATENT-CLASS-330-294
US-PATENT-4,437,069

N84-22903* # c 34 ..... NASA-CASE-NPO-15465-1
US-PATENT-APPL-SN-284289
US-PATENT-CLASS-126-417
US-PATENT-CLASS-165-DIG.6
US-PATENT-CLASS-165-135
US-PATENT-CLASS-62-DIG.1
US-PATENT-CLASS-62-264
US-PATENT-CLASS-62-467R
US-PATENT-4,423,605

N84-22928* # c 35 ..... NASA-CASE-MFS-25687-1
US-PATENT-APPL-SN-350474
US-PATENT-CLASS-324-262
US-PATENT-CLASS-73-620
US-PATENT-CLASS-73-633
US-PATENT-CLASS-74-58
US-PATENT-4,434,659

N84-22929* # c 35 ..... NASA-CASE-MFS-25405-1
US-PATENT-APPL-SN-274708
US-PATENT-CLASS-356-347
US-PATENT-4,428,675

N84-22930* # c 35 ..... NASA-CASE-LEW-13598-1
US-PATENT-APPL-SN-425203
US-PATENT-CLASS-101-395
US-PATENT-CLASS-156-630
US-PATENT-CLASS-156-654
US-PATENT-CLASS-156-905
US-PATENT-CLASS-228-165
US-PATENT-4,437,923

N84-22931* # c 35 ..... NASA-CASE-NPO-15398-1
US-PATENT-APPL-SN-259212
US-PATENT-CLASS-356-216
US-PATENT-CLASS-356-234
US-PATENT-4,431,306

N84-22932* # c 35 ..... NASA-CASE-LAR-12967-1
US-PATENT-APPL-SN-414107
US-PATENT-CLASS-310-317
US-PATENT-CLASS-310-334
US-PATENT-CLASS-310-366
US-PATENT-4,446,396

N84-22933* # c 35 ..... NASA-CASE-LAR-12995-1
US-PATENT-APPL-SN-444150
US-PATENT-CLASS-181-121
US-PATENT-CLASS-367-189
US-PATENT-CLASS-73-589
US-PATENT-CLASS-73-594
US-PATENT-4,445,378

N84-22934* # c 35 ..... NASA-CASE-ARC-11361-1
US-PATENT-APPL-SN-373771
US-PATENT-CLASS-340-870.13
US-PATENT-CLASS-73-147
US-PATENT-CLASS-73-721
US-PATENT-CLASS-73-756
US-PATENT-4,442,716

N84-22943* # c 36 ..... NASA-CASE-NPO-15516-1
US-PATENT-APPL-SN-364126
US-PATENT-CLASS-372-20
US-PATENT-CLASS-372-28
US-PATENT-CLASS-372-32
US-PATENT-4,434,490

N84-22944* # c 36 ..... NASA-CASE-LEW-13526-1
US-PATENT-APPL-SN-358398
US-PATENT-CLASS-118-50.1
US-PATENT-CLASS-118-624
US-PATENT-CLASS-118-641
US-PATENT-CLASS-427-399
US-PATENT-CLASS-427-53.1
US-PATENT-4,434,189

N84-22957* # c 37 ..... NASA-CASE-LEW-13269-2
US-PATENT-APPL-SN-242795
US-PATENT-APPL-SN-431448
US-PATENT-CLASS-415-174
US-PATENT-CLASS-427-34
US-PATENT-CLASS-427-423
US-PATENT-CLASS-427-53.1
US-PATENT-CLASS-428-155
US-PATENT-4,377,371
US-PATENT-4,430,360

N84-22958* # c 37 ..... NASA-CASE-LEW-12590-1
US-PATENT-APPL-SN-229693
US-PATENT-CLASS-60-730
US-PATENT-CLASS-60-736
US-PATENT-4,429,537

N84-23012* # c 43 ..... NASA-CASE-NPO-15656-1
US-PATENT-APPL-SN-569370

N84-23018* # c 44 ..... NASA-CASE-NPO-15496-1
US-PATENT-APPL-SN-379602
US-PATENT-CLASS-290-55
US-PATENT-CLASS-415-DIG.8
US-PATENT-CLASS-415-2R
US-PATENT-CLASS-60-641.12
US-PATENT-CLASS-60-698
US-PATENT-CLASS-60-716
US-PATENT-4,433,544

N84-23019* # c 44 ..... NASA-CASE-LAR-12958-1
US-PATENT-APPL-SN-433196
US-PATENT-CLASS-104-DIG.4
US-PATENT-CLASS-204-DIG.3
US-PATENT-CLASS-204-129
US-PATENT-CLASS-204-278
US-PATENT-CLASS-204-280
US-PATENT-CLASS-423-303
US-PATENT-CLASS-429-111
US-PATENT-4,439,301

N84-23095* # c 52 ..... NASA-CASE-LEW-13107-2
US-PATENT-APPL-SN-444124
US-PATENT-CLASS-156-643
US-PATENT-CLASS-156-644
US-PATENT-CLASS-156-668
US-PATENT-CLASS-204-192E
US-PATENT-4,432,853

N84-23113* # c 54 ..... NASA-CASE-MSC-20261-2
US-PATENT-APPL-SN-393581
US-PATENT-CLASS-2-161R
US-PATENT-CLASS-2-167
US-PATENT-4,433,439

N84-23233* # c 71 ..... NASA-CASE-NPO-15689-1
US-PATENT-APPL-SN-358089
US-PATENT-CLASS-310-300
US-PATENT-CLASS-318-116
US-PATENT-CLASS-60-721
US-PATENT-CLASS-73-505
US-PATENT-4,420,977

N84-23247* # c 74 ..... NASA-CASE-NPO-15345-1
US-PATENT-APPL-SN-276749
US-PATENT-CLASS-358-125
US-PATENT-CLASS-358-213
US-PATENT-4,430,673

N84-23248* # c 74 ..... NASA-CASE-GSC-12756-1
US-PATENT-APPL-SN-378535
US-PATENT-CLASS-350-172
US-PATENT-CLASS-350-173
US-PATENT-CLASS-350-443
US-PATENT-4,444,464

N84-24577* # c 07 ..... NASA-CASE-LEW-14035-1
US-PATENT-APPL-SN-136652
US-PATENT-CLASS-60-757
US-PATENT-4,414,816

N84-25015* # c 35 ..... NASA-CASE-ARC-11510-1
US-PATENT-APPL-SN-602049

N84-25016* # c 35 ..... NASA-CASE-GSC-12911-1
US-PATENT-APPL-SN-606426

N84-25037* # c 36 ..... NASA-CASE-NPO-16030-1
US-PATENT-APPL-SN-582494

N84-25063* # c 37 ..... NASA-CASE-LAR-13169-1
US-PATENT-APPL-SN-606431

N84-25164* # c 44 ..... NASA-CASE-NPO-16236-1
US-PATENT-APPL-SN-582495

N84-25306* # c 60 ..... NASA-CASE-NPO-16116-1
US-PATENT-APPL-SN-587749

N84-25450* # c 74 ..... NASA-CASE-GSC-12897-1
US-PATENT-APPL-SN-606432

N84-27713* # c 04 ..... NASA-CASE-NPO-15264-1
US-PATENT-APPL-SN-241154
US-PATENT-CLASS-343-105R
US-PATENT-CLASS-364-452
US-PATENT-4,396,918

N84-27733* # c 06 ..... NASA-CASE-LAR-12630-1
US-PATENT-APPL-SN-383384
US-PATENT-CLASS-340-705
US-PATENT-CLASS-340-971
US-PATENT-CLASS-340-975
US-PATENT-CLASS-340-978
US-PATENT-CLASS-340-980
US-PATENT-CLASS-73-178R
US-PATENT-4,453,163

N84-27749* # c 09 ..... NASA-CASE-MRS-25791-1
US-PATENT-APPL-SN-409678
US-PATENT-CLASS-417-159
US-PATENT-CLASS-73-117.1
US-PATENT-4,454,753

N84-27784* # c 16 ..... NASA-CASE-MFS-25853-1
US-PATENT-APPL-SN-418138
US-PATENT-CLASS-244-158R
US-PATENT-CLASS-244-172
US-PATENT-CLASS-244-63
US-PATENT-4,452,412

N84-27787* # c 18 ..... NASA-CASE-MFS-25878-1
US-PATENT-APPL-SN-431886
US-PATENT-CLASS-244-172
US-PATENT-CLASS-244-2
US-PATENT-CLASS-244-63
US-PATENT-4,451,017

N84-27829* # c 24 ..... NASA-CASE-LEW-13758-1
US-PATENT-APPL-SN-418139
US-PATENT-CLASS-73-833
US-PATENT-CLASS-73-856
US-PATENT-4,452,088

N84-27855* # c 26 ..... NASA-CASE-LEW-13639-2
US-PATENT-APPL-SN-456460
US-PATENT-CLASS-427-34
US-PATENT-CLASS-427-405
US-PATENT-CLASS-427-419.2
US-PATENT-CLASS-428-632
US-PATENT-4,451,496

N84-27884* # c 27 ..... NASA-CASE-ARC-11405-1
US-PATENT-APPL-SN-415880
US-PATENT-CLASS-528-271
US-PATENT-CLASS-528-310

US-PATENT-CLASS-528-327
US-PATENT-CLASS-528-331
US-PATENT-CLASS-528-362
US-PATENT-4,450,268
N84-27885* # c 27 ..... NASA-CASE-LEW-13770-1
US-PATENT-APPL-SN-404809
US-PATENT-CLASS-526-262
US-PATENT-CLASS-528-322
US-PATENT-CLASS-528-342
US-PATENT-4,455,418
N84-27886* # c 27 ..... NASA-CASE-LAR-12862-1
US-PATENT-APPL-SN-435511
US-PATENT-CLASS-220-306
US-PATENT-CLASS-244-117A
US-PATENT-CLASS-244-158A
US-PATENT-4,456,208
N84-27951* # c 32 ..... NASA-CASE-NPO-15024-1
US-PATENT-APPL-SN-284287
US-PATENT-CLASS-343-17.7
US-PATENT-CLASS-434-2
US-PATENT-4,450,447
N84-27952* # c 32 ..... NASA-CASE-MSC-16170-2
US-PATENT-APPL-SN-147695
US-PATENT-APPL-SN-737975
US-PATENT-CLASS-329-124
US-PATENT-CLASS-375-120
US-PATENT-CLASS-375-77
US-PATENT-CLASS-375-81
US-PATENT-CLASS-455-202
US-PATENT-CLASS-455-208
US-PATENT-CLASS-455-260
US-PATENT-CLASS-455-265
US-PATENT-4,455,680
N84-27974* # c 33 ..... NASA-CASE-LEW-13736-1
US-PATENT-APPL-SN-434084
US-PATENT-CLASS-315-3.6
US-PATENT-CLASS-315-39.3
US-PATENT-CLASS-331-82
US-PATENT-CLASS-333-162
US-PATENT-4,459,562
N84-27975* # c 33 ..... NASA-CASE-MFS-25854-1
US-PATENT-APPL-SN-450166
US-PATENT-CLASS-318-729
US-PATENT-CLASS-318-809
US-PATENT-CLASS-323-300
US-PATENT-4,459,528
N84-28015* # c 35 ..... NASA-CASE-WLP-10055-1
US-PATENT-APPL-SN-352827
US-PATENT-CLASS-73-862.65
US-PATENT-4,425,808
N84-28016* # c 35 ..... NASA-CASE-NPO-15423-1
US-PATENT-APPL-SN-361216
US-PATENT-CLASS-250-296
US-PATENT-4,435,642
N84-28017* # c 35 ..... NASA-CASE-NPO-15706-1
US-PATENT-APPL-SN-350475
US-PATENT-CLASS-310-154
US-PATENT-CLASS-310-171
US-PATENT-CLASS-310-68B
US-PATENT-CLASS-335-222
US-PATENT-4,443,724
N84-28018* # c 35 ..... NASA-CASE-NFS-25754-1
US-PATENT-APPL-SN-359626
US-PATENT-CLASS-33-169F
US-PATENT-CLASS-62-128
US-PATENT-CLASS-73-150R
US-PATENT-CLASS-73-170R
US-PATENT-CLASS-73-32R
US-PATENT-CLASS-73-864.41
US-PATENT-4,398,412
N84-28019* # c 35 ..... NASA-CASE-LAR-12743-1
US-PATENT-APPL-SN-372279
US-PATENT-CLASS-374-1
US-PATENT-CLASS-73-1B
US-PATENT-4,426,874
N84-28065* # c 36 ..... NASA-CASE-GSC-12592-1
US-PATENT-APPL-SN-199766
US-PATENT-CLASS-372-103
US-PATENT-CLASS-372-4
US-PATENT-CLASS-372-71
US-PATENT-CLASS-372-93
US-PATENT-CLASS-372-95
US-PATENT-4,446,556
N84-28081* # c 37 ..... NASA-CASE-NPO-14597-2
US-PATENT-APPL-SN-037194
US-PATENT-APPL-SN-401288
US-PATENT-CLASS-417-328
US-PATENT-CLASS-417-392
US-PATENT-CLASS-417-462
US-PATENT-4,449,894
N84-28082* # c 37 ..... NASA-CASE-GSC-12550-1
US-PATENT-APPL-SN-238888
US-PATENT-CLASS-73-468
US-PATENT-CLASS-74-5.5
US-PATENT-CLASS-74-573R
US-PATENT-4,458,554
N84-28083* # c 37 ..... NASA-CASE-GSC-12762-1
US-PATENT-APPL-SN-364094
US-PATENT-CLASS-269-224
US-PATENT-CLASS-269-242
US-PATENT-CLASS-269-244
US-PATENT-CLASS-269-252
US-PATENT-CLASS-269-285
US-PATENT-4,448,408
N84-28084* # c 37 ..... NASA-CASE-LAR-12644-1
US-PATENT-APPL-SN-387728
US-PATENT-CLASS-74-753
US-PATENT-CLASS-74-758
US-PATENT-CLASS-74-812
US-PATENT-4,446,757
N84-28085* # c 37 ..... NASA-CASE-LAR-12786-1
US-PATENT-APPL-SN-309292
US-PATENT-CLASS-30-180
US-PATENT-CLASS-30-188
US-PATENT-CLASS-30-228
US-PATENT-CLASS-30-249
US-PATENT-CLASS-30-272R
US-PATENT-4,458,418
N84-28203* # c 44 ..... NASA-CASE-NPO-15388-1
US-PATENT-APPL-SN-284286
US-PATENT-CLASS-126-419
US-PATENT-CLASS-126-438
US-PATENT-CLASS-126-451
US-PATENT-4,433,672
N84-28204* # c 44 ..... NASA-CASE-NPO-15662-1
US-PATENT-APPL-SN-392103
US-PATENT-CLASS-126-418
US-PATENT-CLASS-126-438
US-PATENT-CLASS-126-440
US-PATENT-4,449,514
N84-28205* # c 44 ..... NASA-CASE-LEW-13653-1
US-PATENT-APPL-SN-352821
US-PATENT-CLASS-204-290
US-PATENT-CLASS-29-623.5
US-PATENT-CLASS-29-825
US-PATENT-CLASS-427-113
US-PATENT-CLASS-427-115
US-PATENT-CLASS-427-125
US-PATENT-CLASS-427-226
US-PATENT-CLASS-427-372.2
US-PATENT-CLASS-427-379
US-PATENT-CLASS-427-380
US-PATENT-CLASS-427-443
US-PATENT-CLASS-429-44
US-PATENT-4,454,649
N84-28292* # c 47 ..... NASA-CASE-LAR-12971-1
US-PATENT-APPL-SN-444149
US-PATENT-CLASS-250-356.1
US-PATENT-CLASS-73-189
US-PATENT-CLASS-73-861.71
US-PATENT-4,449,400
N84-28361* # c 51 ..... NASA-CASE-ARC-11359-1
US-PATENT-APPL-SN-392092
US-PATENT-CLASS-264-41
US-PATENT-CLASS-521-141
US-PATENT-CLASS-521-142
US-PATENT-CLASS-521-149
US-PATENT-4,456,708
N84-28388* # c 52 ..... NASA-CASE-LAR-12650-1
US-PATENT-APPL-SN-264381
US-PATENT-CLASS-128-325
US-PATENT-CLASS-128-346
US-PATENT-CLASS-24-560
US-PATENT-4,416,266
N84-28389* # c 52 ..... NASA-CASE-LAR-12650-2
US-PATENT-APPL-SN-264381
US-PATENT-APPL-SN-465363
US-PATENT-CLASS-156-191
US-PATENT-CLASS-156-285
US-PATENT-CLASS-156-289
US-PATENT-CLASS-156-382
US-PATENT-CLASS-29-423
US-PATENT-CLASS-29-451
US-PATENT-4,447,943
N84-28484* # c 54 ..... NASA-CASE-MSC-20261-1
US-PATENT-APPL-SN-393586
US-PATENT-CLASS-2-161R
US-PATENT-CLASS-2-164
US-PATENT-CLASS-2-167
US-PATENT-4,454,611
N84-28491* # c 60 ..... NASA-CASE-GSC-12447-2
US-PATENT-APPL-SN-128230
US-PATENT-APPL-SN-501060
US-PATENT-CLASS-364-900
US-PATENT-4,435,781
N84-28492* # c 60 ..... NASA-CASE-MSC-20258-1
US-PATENT-APPL-SN-235472
US-PATENT-CLASS-340-825.21
US-PATENT-CLASS-340-825.5
US-PATENT-CLASS-364-900
US-PATENT-4,446,459
N84-28565* # c 70 ..... NASA-CASE-LEW-12919-2
US-PATENT-APPL-SN-264378
US-PATENT-APPL-SN-364072
US-PATENT-CLASS-313-106
US-PATENT-CLASS-313-107
US-PATENT-CLASS-313-351
US-PATENT-CLASS-315-5.38
US-PATENT-4,349,424
US-PATENT-4,417,175
N84-28568* # c 71 ..... NASA-CASE-MFS-25828-1
US-PATENT-APPL-SN-493866
US-PATENT-CLASS-137-838
US-PATENT-CLASS-366-106
US-PATENT-CLASS-425-6
US-PATENT-CLASS-65-142
US-PATENT-CLASS-65-160
US-PATENT-CLASS-65-21.3
US-PATENT-CLASS-65-21.4
US-PATENT-4,447,251
N84-28575* # c 72 ..... NASA-CASE-MFS-25641-1
US-PATENT-APPL-SN-342857
US-PATENT-CLASS-250-305
US-PATENT-CLASS-324-457
US-PATENT-CLASS-324-71.3
US-PATENT-CLASS-324-72.5
US-PATENT-4,455,532
N84-28590* # c 74 ..... NASA-CASE-NPO-15805-1
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US-PATENT-CLASS-416-242
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US-PATENT-APPL-SN-613139
N84-29017* # c 28 ..... NASA-CASE-KSC-11304-1
US-PATENT-APPL-SN-603373
N84-29084* # c 33 ..... NASA-CASE-LEW-13822-1
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N84-32383* # c 06 ..... NAS 1.71:LAR-12518-1
NASA-CASE-LAR-12518-1
US-PATENT-APPL-SN-578388
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N84-32425* # c 20 ..... NAS 1.71:LEW-14037-1
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US-PATENT-APPL-SN-636463
N84-32447* # c 25 ..... NAS 1.71:LAR-13257-1
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N84-32532* # c 27 ..... NAS 1.71:LAR-13270-1
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N84-32620* # c 32 ..... NAS 1.71:NPO-16256-1
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N84-32913* # c 44 ..... NAS 1.71:MFS-25978-1
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N84-33021* # c 54 ..... NAS 1.71:ARC-11534-1
NASA-CASE-ARC-11534-1
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N84-33179* # c 74 ..... NAS 1.71:NPO-16294-1
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US-PATENT-APPL-SN-638585
N84-33211* # c 76 ..... NAS 1.71:NPO-16045-1
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N84-33394* # c 03 ..... NAS 1.71:ARC-11423-1
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US-PATENT-CLASS-428-287
US-PATENT-CLASS-428-304.4
US-PATENT-CLASS-428-319.1
US-PATENT-CLASS-428-423.5
US-PATENT-CLASS-428-71
US-PATENT-CLASS-428-76
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N84-33410* # c 07 ..... NAS 1.71:LEW-13524-1
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US-PATENT-CLASS-428-595
US-PATENT-CLASS-52-814
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N84-33555* # c 26 ..... NAS 1.71:LEW-13639-1
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US-PATENT-CLASS-219-522
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US-PATENT-CLASS-322-25
US-PATENT-CLASS-322-29
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US-PATENT-CLASS-322-95
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N84-33661* # c 33 ..... NAS 1.71:MFS-25852-1
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NASA-CASE-LEW-13495-1
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US-PATENT-CLASS-363-22
US-PATENT-CLASS-363-49
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US-PATENT-CLASS-250-385
US-PATENT-CLASS-250-483.1
US-PATENT-CLASS-357-29
US-PATENT-CLASS-357-30
US-PATENT-CLASS-357-32
US-PATENT-4,472,728
N84-33766* # c 35 ..... NAS 1.71:NPO-13556-1
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N84-33767* # c 35 ..... NAS 1.71:NPO-15644-1
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US-PATENT-CLASS-60-606
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N84-34443* # c 06 ..... NASA-CASE-NPO-15351-2
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US-PATENT-APPL-SN-412039
US-PATENT-CLASS-73-178-R
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US-PATENT-4,474,062
N84-34448* # c 09 ..... NASA-CASE-LAR-12950-1
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US-PATENT-CLASS-523-458
US-PATENT-CLASS-525-484
US-PATENT-CLASS-528-407
US-PATENT-CLASS-528-92
US-PATENT-4,473,674
N84-34651* # c 32 ..... NAS 1.71:NPO-15519-1
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US-PATENT-CLASS-343-5-FT
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NASA-CASE-NPO-15558-1
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US-PATENT-CLASS-250-351
US-PATENT-CLASS-356-434
US-PATENT-CLASS-356-51
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N84-34792* # c 44 ..... NAS 1.71:NPO-15808-1
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US-PATENT-CLASS-4-498
US-PATENT-4,470,403
N84-34913* # c 52 ..... NASA-CASE-GSC-12652-1
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US-PATENT-CLASS-128-24-A
US-PATENT-CLASS-128-328
US-PATENT-4,474,180
N84-35112* # c 76 ..... NASA-CASE-NPO-15786-1
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US-PATENT-CLASS-204-37.6
US-PATENT-CLASS-204-56R
US-PATENT-CLASS-324-158D
US-PATENT-CLASS-324-158T
US-PATENT-4,462,871
N84-35113* # c 76 ..... NASA-CASE-NPO-15629-1
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US-PATENT-CLASS-156-DIG.88
US-PATENT-CLASS-156-DIG.98
US-PATENT-CLASS-156-608
US-PATENT-CLASS-156-617-SP
US-PATENT-CLASS-156-617-V
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US-PATENT-CLASS-422-249
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US-PATENT-APPL-SN-661478
N85-19981* # c 05 ..... NAS 1.71:LAR-13173-1
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N85-19985* # c 08 ..... NAS 1.71:LAR-12787-2
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US-PATENT-CLASS-244-90R
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US-PATENT-CLASS-528-192
US-PATENT-CLASS-528-220
US-PATENT-CLASS-528-336
US-PATENT-CLASS-528-345
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N85-20124* # c 27 ..... NAS 1.71:LAR-12858-2
NASA-CASE-LAR-12858-2
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US-PATENT-CLASS-264-112
US-PATENT-CLASS-264-120
US-PATENT-CLASS-264-137
US-PATENT-CLASS-264-152
US-PATENT-CLASS-264-258
US-PATENT-CLASS-264-331.12
US-PATENT-CLASS-264-331.19
US-PATENT-CLASS-528-226
US-PATENT-CLASS-528-239
US-PATENT-CLASS-528-241
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US-PATENT-CLASS-24-450
US-PATENT-CLASS-24-693
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N85-20126* # c 27 ..... NAS 1.71:MFS-25862-1
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US-PATENT-CLASS-73-588
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N85-20128* # c 27 ..... NAS 1.71:LAR-13353-1
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US-PATENT-CLASS-204-192SP
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US-PATENT-CLASS-423-414
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US-PATENT-CLASS-423-449
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N85-20154* # c 31 ..... NAS 1.71:LAR-13254-1
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N85-20156* # c 31 ..... NAS 1.71:LEW-14130-1
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N85-20226* # c 32 ..... NAS 1.71:GSC-12892-1
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N85-20247* # c 33 ..... NAS 1.71:LAR-13151-1
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N85-20248* # c 33 ..... NAS 1.71:LEW-13935-1
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US-PATENT-APPL-SN-700255
N85-20249* # c 33 ..... NAS 1.71:MSC-20187-1
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N85-20250* # c 33 ..... NAS 1.71:NPO-16299-1
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US-PATENT-APPL-SN-541526
N85-20251* # c 33 ..... NAS 1.71:NPO-163371-1
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N85-20298* # c 35 ..... NAS 1.71:MFS-25825-1
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N85-20299* # c 35 ..... NAS 1.71:MFS-25981-1
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N85-20300* # c 35 ..... NAS 1.71:MFS-28008-1
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N85-20301* # c 35 ..... NAS 1.71:MSC-20653-1
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N85-20320* # c 36 ..... NAS 1.71:ARC-11547-1
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N85-20337* # c 37 ..... NAS 1.71:GSC-12582-2
NASA-CASE-GSC-12582-2
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US-PATENT-APPL-SN-415960
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N85-20338* # c 37 ..... NAS 1.71:MSC-20112-1
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US-PATENT-CLASS-251-267
US-PATENT-CLASS-251-284
US-PATENT-CLASS-251-297
US-PATENT-CLASS-74-424.8B
US-PATENT-CLASS-74-424.8VA
US-PATENT-4,483,512
N85-20377* # c 37 ..... NAS 1.71:LEW-14170-1
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N85-20378* # c 37 ..... NAS 1.71:MFS-25964-1
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N85-20530* # c 44 ..... NAS 1.71:LEW-13414-1
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US-PATENT-CLASS-427-85
US-PATENT-4,478,879
N85-20535* # c 44 ..... NAS 1.71:LEW-14177-1
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US-PATENT-APPL-SN-669140
N85-20639* # c 52 ..... NASA 1.71:MFS-26011-1-SB
NASA-CASE-MFS-26011-1SB
US-PATENT-APPL-SN-655605
N85-20666* # c 54 ..... NAS 1.71:ARC-11610-1
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N85-20680* # c 60 ..... NAS 1.71:NPO-15982-1
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N85-20906* # c 76 ..... NAS 1.71:NPO-16394-1
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N85-21147* # c 05 ..... NAS 1.71:LAR-12979-1
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US-PATENT-CLASS-244-147
US-PATENT-CLASS-244-75R
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US-PATENT-CLASS-204-192R
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US-PATENT-CLASS-526-274
US-PATENT-CLASS-528-167
US-PATENT-CLASS-528-168
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US-PATENT-CLASS-528-321
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US-PATENT-APPL-SN-561431
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US-PATENT-CLASS-526-262
US-PATENT-CLASS-528-229
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N85-21351* # c 27 ..... NAS 1.71:LEW-13770-4
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N85-21360* # c 27 ..... NAS 1.71:LAR-13351-1
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N85-21362* # c 27 ..... NAS 1.71:ARC-11512-2
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N85-21364* # c 27 ..... NAS 1.71:ARC-11533-1
NASA-CASE-ARC-11533-1
US-PATENT-APPL-SN-641147
N85-21404* # c 31 ..... NAS 1.71:GSC-12799-1
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US-PATENT-CLASS-310-22
US-PATENT-CLASS-417-417
US-PATENT-CLASS-417-488
US-PATENT-CLASS-62-6
US-PATENT-CLASS-92-98R
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US-PATENT-CLASS-358-174
US-PATENT-CLASS-358-217
US-PATENT-CLASS-358-219
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N85-21428* # c 32 ..... NAS 1.71:NPO-15433-1
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US-PATENT-CLASS-364-200
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N85-21441* # c 32 ..... NAS 1.71:LAR-13310-1
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N85-21491* # c 33 ..... NAS 1.71:NPO-15560-1
NASA-CASE-NPO-15560-1
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US-PATENT-CLASS-315-111.31
US-PATENT-CLASS-315-111.81
US-PATENT-4,475,063
N85-21492* # c 33 ..... NAS 1.71:LEW-13833-1
NASA-CASE-LEW-13833-1
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US-PATENT-CLASS-357-12
US-PATENT-CLASS-357-30
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N85-21493* # c 33 ..... NAS 1.71:NPO-15920-1
NASA-CASE-NPO-15920-1
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US-PATENT-CLASS-343-376
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NASA-CASE-LAR-12588-1
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US-PATENT-CLASS-73-179
US-PATENT-CLASS-73-708
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NASA-CASE-MSC-20275-1
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US-PATENT-CLASS-222-340
US-PATENT-CLASS-222-43
US-PATENT-CLASS-222-48
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US-PATENT-CLASS-429-58
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US-PATENT-CLASS-73-753
US-PATENT-4,498,333

N85-21598* # c 35 ..... NAS 1.71:WLP-10055-2
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N85-21610* # c 35 ..... NAS 1.71:LAR-13294-1
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N85-21631* # c 36 ..... NAS 1.71:NPO-15790-1
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NASA-CASE-GSC-12558-1
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US-PATENT-CLASS-356-45
US-PATENT-CLASS-374-137
US-PATENT-CLASS-73-705
US-PATENT-4,493,553
N85-21649* # c 37 ..... NAS 1.71:MSC-20319-1
NASA-CASE-MSC-20319-1
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US-PATENT-CLASS-403-317
US-PATENT-CLASS-81-177G
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US-PATENT-CLASS-125-15
US-PATENT-CLASS-51-73R
US-PATENT-CLASS-82-90
US-PATENT-CLASS-83-664
US-PATENT-CLASS-83-676
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US-PATENT-CLASS-15-406
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US-PATENT-CLASS-422-199
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US-PATENT-CLASS-374-122
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N85-21768* # c 44 ..... NAS 1.71:LEW-13827-1
NASA-CASE-LEW-13827-1
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US-PATENT-CLASS-136-246
US-PATENT-CLASS-357-30
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US-PATENT-CLASS-290-4R
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US-PATENT-CLASS-307-66
US-PATENT-CLASS-318-46
US-PATENT-CLASS-318-729
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US-PATENT-CLASS-343-460
US-PATENT-CLASS-343-5W
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N85-21986* # c 54 ..... NAS 1.71:ARC-11543-1
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N85-21987* # c 54 ..... NAS 1.71:ARC-11616-1
NASA-CASE-ARC-11616-1
US-PATENT-APPL-SN-684193
N85-21992* # c 60 ..... NAS 1.71:NPO-15295-1
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N85-22139* # c 74 ..... NAS 1.71:NPO-15155-1
NASA-CASE-NPO-15155-1
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N85-22178* # c 76 ..... NAS 1.71:NPO-15800-2
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N85-22877* # c 33 ..... NAS 1.71:MFS-25861-1
NASA-CASE-MFS-25861-1
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US-PATENT-CLASS-318-812
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N85-23396* # c 74 ..... NAS 1.71:NPO-15801-1
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US-PATENT-CLASS-350-505
US-PATENT-CLASS-350-619
US-PATENT-CLASS-356-323
US-PATENT-CLASS-356-330
US-PATENT-CLASS-356-331
US-PATENT-4,497,540
N85-25436* # c 24 ..... NAS 1.15:76884
NASA-TM-76884
N85-28922* # c 02 ..... NAS 1.71:LAR-13286-1
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N85-28951* # c 09 ..... NAS 1.71:MFS-28057-1
NASA-CASE-MFS-28057-1
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N85-28973* # c 23 ..... NASA-CASE-LAR-13262-1
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US-PATENT-CLASS-525-534
US-PATENT-CLASS-528-86
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N85-28975* # c 24 ..... NAS 1.71:LAR-13150-1
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N85-28976* # c 24 ..... NAS 1.71:ARC-11615-1-SB
NASA-CASE-ARC-11615-1-SB
US-PATENT-APPL-SN-706682
N85-28982* # c 25 ..... NASA-CASE-LEW-13770-2
US-PATENT-APPL-SN-404809
US-PATENT-APPL-SN-516217
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US-PATENT-CLASS-528-342
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US-PATENT-4,514,557
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US-PATENT-CLASS-525-47
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US-PATENT-CLASS-526-329.2
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US-PATENT-CLASS-523-135
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N85-29082* # c 31 ..... NASA-CASE-NPO-16257-1
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US-PATENT-CLASS-62-3
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N85-29083* # c 31 ..... NASA-CASE-LAR-13181-1
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US-PATENT-CLASS-156-273.9
US-PATENT-CLASS-156-380.2
US-PATENT-CLASS-219-10.43
US-PATENT-CLASS-219-10.49
US-PATENT-CLASS-219-10.53
US-PATENT-CLASS-219-10.77
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N85-29084* # c 31 ..... NAS 1.71:NPO-16393-1-CU
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US-PATENT-CLASS-358-133
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US-PATENT-CLASS-455-73
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NASA-CASE-KSC-11285-1
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N85-29121* # c 32 ..... NAS 1.71:NPO-16414-1-CU
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US-PATENT-CLASS-364-400
US-PATENT-CLASS-364-453
US-PATENT-CLASS-74-5.6D
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US-PATENT-CLASS-331-96
US-PATENT-CLASS-333-231
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N85-29144* # c 33 ..... NASA-CASE-LEW-13102-1
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N85-29145* # c 33 ..... NASA-CASE-GSC-12788-1
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US-PATENT-CLASS-307-529
US-PATENT-CLASS-328-167
US-PATENT-CLASS-330-302
US-PATENT-CLASS-330-306
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N85-29146* # c 33 ..... NASA-CASE-GSC-12817-1
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US-PATENT-CLASS-336-84C
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N85-29147* # c 33 ..... NASA-CASE-GSC-12818-1
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US-PATENT-CLASS-363-100
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US-PATENT-CLASS-363-23
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US-PATENT-CLASS-378-104
US-PATENT-CLASS-378-112
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N85-29150* # c 33 ..... NAS 1.71:ARC-11613-1
NASA-CASE-ARC-11613-1
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N85-29179* # c 34 ..... NASA-CASE-LEW-12950-2
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US-PATENT-CLASS-165-32
US-PATENT-CLASS-310-306
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US-PATENT-CLASS-165-1
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N85-29182* # c 34 ..... NAS 1.71:NPO-16494-1-CU
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N85-29212* # c 35 ..... NASA-CASE-NPO-15722-1
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US-PATENT-CLASS-204-430
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US-PATENT-CLASS-422-86
US-PATENT-CLASS-422-88
US-PATENT-CLASS-436-2
US-PATENT-CLASS-73-40.7
US-PATENT-CLASS-73-863.86
US-PATENT-CLASS-73-864.52
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N85-29214* # c 35 ..... NASA-CASE-MSC-25707-1
US-PATENT-APPL-SN-359627
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US-PATENT-CLASS-165-61
US-PATENT-CLASS-165-64
US-PATENT-CLASS-244-163
US-PATENT-4,513,810
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N85-29218* # c 35 ..... NAS 1.71:LAR-12871-1
NASA-CASE-LAR-12871-1
US-PATENT-APPL-SN-719797
N85-29219* # c 35 ..... NAS 1.71:NPO-16479-1-CU
NASA-CASE-NPO-16479-1-CU
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N85-29264* # c 36 ..... NASA-CASE-NPO-16000-1
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N85-29265* # c 36 ..... NAS 1.71:NPO-16402-1
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US-PATENT-APPL-SN-431420
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US-PATENT-CLASS-415-68
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US-PATENT-CLASS-239-288
US-PATENT-CLASS-239-322
US-PATENT-CLASS-239-327
US-PATENT-CLASS-239-375
US-PATENT-CLASS-239-590
US-PATENT-CLASS-55-DIG.42
US-PATENT-4,519,545
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US-PATENT-CLASS-251-349
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US-PATENT-CLASS-277-80
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US-PATENT-CLASS-403-408
US-PATENT-CLASS-411-368
US-PATENT-CLASS-411-378
US-PATENT-CLASS-411-426
US-PATENT-CLASS-411-501
US-PATENT-CLASS-411-531
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US-PATENT-CLASS-219-221
US-PATENT-CLASS-219-285
US-PATENT-CLASS-414-217
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US-PATENT-CLASS-73-864.81
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US-PATENT-APPL-SN-709255
N85-29289* # c 37 ..... NAS 1.71:MFS-28001-1
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N85-29290* # c 37 ..... NAS 1.71:MSC-20475-1
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N85-29291* # c 37 ..... NAS 1.71:NPO-16321-1
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NASA-CASE-NPO-16322-1
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N85-29749* # c 74 ..... NASA-CASE-NPO-15464-1
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US-PATENT-CLASS-350-321
US-PATENT-CLASS-52-171
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US-PATENT-CLASS-416-500
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N85-29991* # c 18 ..... NASA-CASE-MFS-25837-1
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US-PATENT-CLASS-248-555
US-PATENT-CLASS-403-143
US-PATENT-CLASS-403-56
US-PATENT-CLASS-403-76
US-PATENT-CLASS-403-90
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N85-30027* # c 24 ..... NASA-CASE-LEW-13828-1
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US-PATENT-APPL-SN-561434
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US-PATENT-CLASS-324-65R
US-PATENT-4,516,071
N85-30201* # c 33 ..... NAS 1.71:GSC-12958-1
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US-PATENT-APPL-SN-727035
N85-30202* # c 33 ..... NAS 1.71:ARC-11536-1
NASA-CASE-ARC-11536-1
US-PATENT-APPL-SN-725714
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US-PATENT-CLASS-250-369
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US-PATENT-CLASS-356-358
US-PATENT-CLASS-73-657
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N85-30286* # c 35 ..... NAS 1.71:MFS-28030-1
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US-PATENT-CLASS-372-50
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US-PATENT-CLASS-310-93
US-PATENT-CLASS-318-611
US-PATENT-CLASS-335-100
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US-PATENT-CLASS-403-16
US-PATENT-CLASS-403-322
US-PATENT-CLASS-89-1.57
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US-PATENT-CLASS-52-127.7
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US-PATENT-CLASS-52-745
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US-PATENT-CLASS-403-348
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US-PATENT-APPL-SN-542557
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US-PATENT-CLASS-126-400
US-PATENT-CLASS-126-415
US-PATENT-CLASS-126-419
US-PATENT-CLASS-126-900
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US-PATENT-CLASS-136-256
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US-PATENT-CLASS-357-30
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US-PATENT-CLASS-374-160
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US-PATENT-CLASS-148-33.2
US-PATENT-CLASS-156-DIG.65
US-PATENT-CLASS-156-DIG.88
US-PATENT-CLASS-156-612
US-PATENT-CLASS-29-576E
US-PATENT-CLASS-29-576J
US-PATENT-CLASS-29-576W
US-PATENT-CLASS-29-578
US-PATENT-CLASS-357-4
US-PATENT-CLASS-357-50
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US-PATENT-CLASS-324-71.5
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N85-30933* # c 76 ..... NAS 1.71:NPO-15813-2
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US-PATENT-APPL-SN-706564

N85-30934* # c 76 ..... NAS 1.71:NPO-16306-1-CU
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US-PATENT-CLASS-416-97A
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N85-33489* # c 37 ..... NASA-CASE-LEW-13914-1
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US-PATENT-CLASS-315-5.38
US-PATENT-CLASS-445-35
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US-PATENT-CLASS-204-192P
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US-PATENT-CLASS-528-229
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US-PATENT-CLASS-343-5-W
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US-PATENT-CLASS-364-578
US-PATENT-CLASS-372-32
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N85-34373* # c 35 ..... NAS 1.71:NPO-15493-2
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US-PATENT-CLASS-73-75
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US-PATENT-CLASS-73-856
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N85-34401* # c 37 ..... NASA-CASE-MFS-25907-1
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US-PATENT-CLASS-244-158R
US-PATENT-CLASS-248-550
US-PATENT-CLASS-267-150
US-PATENT-CLASS-267-8R
US-PATENT-CLASS-410-156
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US-PATENT-CLASS-415-196
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US-PATENT-CLASS-137-99
US-PATENT-4,509,548
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US-PATENT-CLASS-136-253
US-PATENT-4,528,417
N85-34629* # c 74 ..... NASA-CASE-NPO-15865-1
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US-PATENT-CLASS-356-5
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US-PATENT-CLASS-414-328
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US-PATENT-CLASS-414-786
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US-PATENT-CLASS-60-748
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US-PATENT-CLASS-244-139
US-PATENT-CLASS-244-75-R
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N85-35227* # c 23 ..... NASA-CASE-NPO-16203-1
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US-PATENT-CLASS-435-842
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N85-35233* # c 24 ..... NASA-CASE-LEW-14057-1
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US-PATENT-APPL-SN-523297
US-PATENT-APPL-SN-640712
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US-PATENT-CLASS-428-682
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US-PATENT-4,535,033
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US-PATENT-CLASS-44-1-SR
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N85-35267* # c 26 ..... NASA-CASE-LEW-13923-1
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US-PATENT-CLASS-427-228
US-PATENT-CLASS-427-294
US-PATENT-CLASS-427-376.2
US-PATENT-CLASS-427-380
US-PATENT-CLASS-427-397.7
US-PATENT-CLASS-428-698
US-PATENT-CLASS-428-704
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US-PATENT-CLASS-73-3
US-PATENT-CLASS-73-861.07
US-PATENT-4,538,446
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US-PATENT-CLASS-525-423
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US-PATENT-CLASS-374-8
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US-PATENT-CLASS-436-155
US-PATENT-CLASS-73-7
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US-PATENT-CLASS-260-245.9
US-PATENT-CLASS-528-327
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US-PATENT-CLASS-528-182
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US-PATENT-CLASS-204-192-R
US-PATENT-CLASS-204/298
US-PATENT-CLASS-427-248.1
US-PATENT-CLASS-427-38
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US-PATENT-CLASS-428-702
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N86-19463* # c 27 ..... NAS 1.71:LEW-14072-2
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N86-19479* # c 31 ..... NASA-CASE-LAR-13098-1
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US-PATENT-CLASS-16-390
US-PATENT-CLASS-403-171
US-PATENT-CLASS-403-64
US-PATENT-CLASS-52-632
US-PATENT-CLASS-52-637
US-PATENT-CLASS-52-646
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US-PATENT-APPL-SN-153240
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US-PATENT-CLASS-331-117-FE

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N86-19516* # c 33 ..... NASA-CASE-NPO-16112-1
US-PATENT-APPL-SN-542232
US-PATENT-CLASS-357-23.6
US-PATENT-CLASS-357-30
US-PATENT-CLASS-357-58
US-PATENT-CLASS-357-59
US-PATENT-4,531,143
N86-19517* # c 33 ..... NAS 1.71:NPO-16397-1-CU
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N86-19580* # c 35 ..... NASA-CASE-GSC-12795-1
US-PATENT-APPL-SN-462508
US-PATENT-CLASS-374-115
US-PATENT-CLASS-374-120
US-PATENT-CLASS-374-163
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N86-19581* # c 35 ..... NASA-CASE-MSC-20250-1
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US-PATENT-CLASS-73-862.54
US-PATENT-4,557,149
N86-19596* # c 36 ..... NAS 1.71:LAR-13256-1
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US-PATENT-CLASS-60-527
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N86-19605* # c 37 ..... NASA-CASE-NPO-16038-1
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N86-19606* # c 37 ..... NASA-CASE-LEW-13670-1
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US-PATENT-CLASS-384-106
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N86-19610* # c 37 ..... NAS 1.71:NPO-16423-1-CU
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N86-19611* # c 37 ..... NAS 1:71:MFS-28058-1
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N86-19612* # c 37 ..... NAS 1.71:MSC-20549-1
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N86-19613* # c 37 ..... NAS 1.71:MSC-20910-1
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N86-19614* # c 37 ..... NAS 1.71:MSC-20979-1
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N86-19711* # c 43 ..... NASA-CASE-NPO-15939-1
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US-PATENT-CLASS-343-5-CM
US-PATENT-CLASS-343-5-VQ
US-PATENT-CLASS-367-88
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US-PATENT-CLASS-429-15
US-PATENT-CLASS-429-19
US-PATENT-CLASS-429-51
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N86-20086* # c 71 ..... NAS 1.71:LAR-13111-1-CU
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N86-20087* # c 71 ..... NAS 1.71:NPO-16675-1-CU
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N86-20124* # c 74 ..... NASA-CASE-MFS-25942-1
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US-PATENT-CLASS-378-85
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N86-20125* # c 74 ..... NASA-CASE-ARC-11502-1
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US-PATENT-CLASS-350-448
US-PATENT-CLASS-350-537
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N86-20126* # c 74 ..... NASA-CASE-MSC-20418-1
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N86-20128* # c 74 ..... NAS 1.71:ARC-11611-1
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N86-20129* # c 74 ..... NAS 1.71:NPO-16558-1-CU
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N86-20130* # c 74 ..... NAS 1.71:MFS-29134-1
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N86-20150* # c 76 ..... NASA-CASE-GSC-12816-1
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US-PATENT-CLASS-136-262
US-PATENT-CLASS-29-572
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NASA inventions, abstracted in *NASA PAB,* are available for nonexclusive or exclusive licensing in accordance with the NASA Patent Licensing Regulations. It is significant that all licenses for NASA inventions shall be by express written instruments and that no license will be granted or implied in a NASA invention except as provided in the NASA Patent Licensing Regulations.

Inquiries concerning the NASA Patent Licensing Program or the availability of licenses for the commercial use of NASA-owned inventions covered by U.S. patents or pending applications for patent should be forwarded to the NASA Patent Counsel of the NASA installation having cognizance of the specific invention, or the Associate General Counsel for Intellectual Property, Code GP, National Aeronautics and Space Administration, Washington, D.C. 20546. Inquiries should refer to the NASA Case Number, the Title of the Invention, and the U.S. Patent Number or the U.S. Application Serial Number assigned to the invention as shown in *NASA PAB.*

The NASA Patent Counsel having cognizance of the invention is determined by the first three letters or prefix of the NASA Case Number assigned to the invention. The addresses of NASA Patent Counsels are listed alongside the NASA Case Number prefix letters in the following table.

STANDING ORDER SUBSCRIPTIONS

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NASA Case Number Prefix Letters	Address of Cognizant NASA Patent Counsel
ARC-xxxxx XAR-xxxxx	Ames Research Center Mail Code: 200-11A Moffett Field, California 94035 Telephone: (415) 965-5104
ERC-xxxxx XER-xxxxx HQN-xxxxx XHQ-xxxxx	NASA Headquarters Mail Code: GP Washington, D.C. 20546 Telephone: (202) 755-3954
GSC-xxxxx XGS-xxxxx	Goddard Space Flight Center Mail Code: 204 Greenbelt, Maryland 20771 Telephone: (301) 344-7351
KSC-xxxxx XKS-xxxxx	John F. Kennedy Space Center Mail Code: PT-PAT Kennedy Space Center, Florida 32899 Telephone: (305) 867-2544
LAR-xxxxx XLA-xxxxx	Langley Research Center Mail Code: 279 Hampton, Virginia 23365 Telephone: (804) 827-8725
LEW-xxxxx XLE-xxxxx	Lewis Research Center Mail Code: 500-318 21000 Brookpark Road Cleveland, Ohio 44135 Telephone: (216) 433-6346
MSC-xxxxx XMS-xxxxx	Lyndon B. Johnson Space Center Mail Code: AL3 Houston, Texas 77058 Telephone: (713) 483-4871
MFS-xxxxx XMF-xxxxx	George C. Marshall Space Flight Center Mail Code: CC01 Huntsville, Alabama 35812 Telephone: (205) 453-0020
NPO-xxxxx XNP-xxxxx FRC-xxxxx XFR-xxxxx WOO-xxxxx	NASA Resident Legal Office Mail Code: 180-801 4800 Oak Grove Drive Pasadena, California 91103 Telephone: (213)354-2700

PATENT LICENSING REGULATIONS

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

14 CFR Part 1245

Licensing of NASA Inventions

AGENCY: National Aeronautics and Space Administration.

ACTION: Interim regulation with comments requested.

SUMMARY: The National Aeronautics and Space Administration (NASA) is revising its patent licensing regulations to conform with Pub. L. 96-517. This interim regulation provides policies and procedures applicable to the licensing of federally owned inventions in the custody of the National Aeronautics and Space Administration, and implements Pub. L. 96-517. The object of this subpart is to use the patent system to promote the utilization of inventions arising from NASA supported research and development.

EFFECTIVE DATE: July 1, 1981. Comments must be received in writing by December 2, 1981. Unless a notice is published in the **Federal Register** after the comment period indicating changes to be made, this interim regulation shall become a final regulation.

ADDRESS: Mr. John G. Mannix, Director of Patent Licensing, GP-4, NASA, Washington, D.C. 20546.

FOR FURTHER INFORMATION CONTACT: Mr. John G. Mannix, (202) 755-3954.

SUPPLEMENTARY INFORMATION:

PART 1245—PATENTS AND OTHER INTELLECTUAL PROPERTY RIGHTS

Subpart 2 of Part 1245 is revised to read as follows

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Subpart 2—Licensing of NASA Inventions

Sec.

1245.200 Scope of subpart.
1245.201 Policy and objective.
1245.202 Definitions.
1245.203 Authority to grant licenses.

Restrictions and Conditions

1245.204 All licenses granted under this subpart.

Types of Licenses

1245.205 Nonexclusive licenses.
1245.206 Exclusive and partially exclusive licenses.

Procedures

1245.207 Application for a license.
1245.208 Processing applications.
1245.209 Notice to Attorney General.
1245.210 Modification and termination of licenses.
1245.211 Appeals.
1245.212 Protection and administration of inventions.
1245.213 Transfer of custody.
1245.214 Confidentiality of information.

Authority: 35 U.S.C. Section 207 and 208, 94 Stat. 3023 and 3024.

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Subpart 2—Licensing of NASA Inventions

§ 1245.200 Scope of subpart.

This subpart prescribes the terms, conditions, and procedures upon which a NASA invention may be licensed. It does not affect licenses which (a) were in effect prior to July 1, 1981; (b) may exist at the time of the Government's acquisition of title to the invention, including those resulting from the allocation of rights to inventions made under Government research and development contracts; (c) are the result of an authorized exchange of rights in the settlement of patent disputes; or (d) are otherwise authorized by law or treaty.

§ 1245.201 Policy and objective.

It is the policy and objective of this subpart to use the patent system to promote the utilization of inventions arising from NASA supported research and development.

§ 1245.202 Definitions.

(a) "Federally owned invention" means an invention, plant, or design which is covered by a patent, or patent application in the United States, or a patent, patent application, plant variety protection, or other form of protection, in a foreign country, title to which has been assigned to or otherwise vested in the United States Government.

(b) "Federal agency" means an executive department, military department, Government corporation, or independent establishment, except the Tennessee Valley Authority, which has custody of a Federally owned invention.

(c) "NASA Invention" means a Federally owned invention with respect to which NASA maintains custody and administration, in whole or in part, of the right, title, or interest in such invention on behalf of the United States Government.

(d) "Small business firm" means a small business concern as defined at section 2 of Pub. L. 85-536 (15 U.S.C. 632) and implementing regulations of the Administrator of the Small Business Administration. For the purpose of these regulations, the size standard for small business concerns involved in Government procurement, contained in 13 C.F.R. 121.3-8, and in subcontracting, contained in 13 CFR 121.3-12, will be used.

(e) Practical application" means to manufacture in the case of a composition or product, to practice in the case of a process or method, or to operate in the case of a machine or system; and, in each case, under such conditions as to establish that the invention is being utilized and that its benefits are to the extent permitted by law or Government regulations available to the public on reasonable terms.

(f) "United States" means the United States of America, its territories and possessions, the District of Columbia, and the Commonwealth of Puerto Rico.

§ 1245.203 Authority to grant licenses.

NASA inventions shall be made available for licensing as deemed appropriate in the public interest. NASA may grant nonexclusive, partially exclusive, or exclusive licenses thereto under this subpart on inventions in its custody.

Restrictions and Conditions

§ 1245.204 All licenses granted under this subpart.

(a) *Restrictions.* (1) A license may be granted only if the applicant has supplied NASA with a satisfactory plan for development or marketing of the invention, or both, and with information about the applicant's capability to fulfill the plan.

(2) A license granting rights to use or sell under a NASA invention in the United States shall normally be granted only to a licensee who agrees that any products embodying the invention or produced through the use of the invention will be manufactured substantially in the United States.

(b) *Conditions.* Licenses shall contain such terms and conditions as NASA determines are appropriate for the protection of the interests of the Federal Government and the public and are not in conflict with law or this subpart. The following terms and conditions apply to any license:

(1) The duration of the license shall be for a period specified in the license agreement, unless sooner terminated in accordance with this subpart.

(2) The license may be granted for all or less than all fields of use of the invention or in specified geographical areas, or both.

(3) The license may extend to subsidiaries of the licensee or other parties if provided for in the license but shall be nonassignable without approval of NASA, except to the successor of that part of the licensee's business to which the invention pertains.

(4) The license may provide the licensee the right to grant sublicenses under the license, subject to the approval of NASA. Each sublicense shall make reference to the license, including the rights retained by the Government, and a copy of such sublicense shall be furnished to NASA.

(5) The license shall require the licensee to carry out the plan for development or marketing of the invention, or both, to bring the invention to practical application within a period specified in the license, and to continue to make the benefits of the invention reasonably accessible to the public.

(6) The license shall require the licensee to report periodically on the utilization or efforts at obtaining utilization that are being made by the licensee, with particular reference to the plan submitted.

(7) All licenses shall normally require royalties or other consideration.

(8) Where an agreement is obtained pursuant to § 1245.204(a)(2) that any products embodying the invention or produced through use of the invention will be manufactured substantially in the United States, the license shall recite such agreement.

(9) The license shall provide for the right of NASA to terminate the license, in whole or in part, if:

(i) NASA determines that the licensee is not executing the plan submitted with its request for a license and the licensee cannot otherwise demonstrate to the satisfaction of NASA that it has taken or can be expected to take within a reasonable time effective steps to achieve practical application of the invention;

(ii) NASA determines that such action is necessary to meet requirements for public use specified by Federal regulations issued after the date of the license and such requirements are not reasonably satisfied by the licensee;

(iii) The licensee has willfully made a false statement of or willfully omitted a material fact in the license application or in any report required by the license agreement; or

(iv) The licensee commits a substantial breach of a covenant or agreement contained in the license.

(10) The license may be modified or terminated, consistent with this subpart, upon mutual agreement of NASA and the licensee.

(11) Nothing relating to the grant of a license, nor the grant itself, shall be construed to confer upon any person any immunity from or defenses under the antitrust laws or from a charge of patent misuse, and the acquisition and use of rights pursuant to this subpart shall not be immunized from the operation of state or Federal law by reason of the source of the grant.

Types of Licenses

§ 1245.205 Nonexclusive licenses.

(a) *Availability of licenses.* Nonexclusive licenses may be granted under NASA inventions without publication of availability or notice of a prospective license.

(b) *Conditions.* In addition to the provisions of § 1245.204, the nonexclusive license may also provide that, after termination of a period specified in the license agreement, NASA may restrict the license to the fields of use or geographic areas, or both, in which the licensee has brought the invention to practical application and continues to make the benefits of the invention reasonably accessible to the public. However, such restriction shall be made only in order to grant an exclusive or partially exclusive license in accordance with this subpart.

§ 1245.206 Exclusive and partially exclusive licenses.

(a) Domestic licenses.

(1) *Availability of licenses.* Exclusive or partially exclusive licenses may be granted on NASA inventions: (i) 3 months after notice of the invention's availability has been announced in the **Federal Register**; or (ii) without such notice where NASA determines that expeditious granting of such a license will best serve the interests of the Federal Government and the public; and (iii) in either situation, specified in (a)(1)(i) or (ii) of this section only if:

(A) Notice of a prospective license, identifying the invention and the prospective licensee, has been published in the **Federal Register**, providing opportunity for filing written objections within a 60-day period;

(B) After expiration of the period in § 1245.206(a) (1)(iii)(A) and consideration of nay written objections received during the period, NASA has determined that:

(*1*) The interests of the Federal Government and the public will best be served by the proposed license, in view of the applicant's intentions, plans, and ability to bring the invention to practical application or otherwise promote the invention's utilization by the public;

(*2*) The desired practial application has not been achieved, or is not likely expeditiously to be achieved, under any nonexclusive license which has been granted, or which may be granted, on the invention;

(*3*) Exclusive or partially exclusive licensing is a reasonable and necessary incentive to call forth the investment of risk capital and expenditures to bring the invention to practical application or otherwise promote the invention's utilization by the public; and

(*4*) The proposed terms and scope of exclusivity are not greater than reasonably necessary to provide the incentive for bringing the invention to practical application or otherwise promote the invention's utilization by the public;

(C) NASA has not determined that the grant of such license will tend substantially to lessen competition or result in undue concentration in any section of the country in any line of commerce to which the technology to be licensed relates, or to create or maintain other situations inconsistent with the antitrust laws; and

(D) NASA has given first preference to any small business firms submitting plans that are determined by the agency to be within the capabilities of the firms and as equally likely, if executed, to bring the invention to practical application as any plans submitted by applicants that are not small business firms.

(2) *Conditions.* In addition to the provisions of § 1245.204, the following terms and conditions apply to domestic exclusive and partially exclusive licenses:

(i) The license shall be subject to the irrevocable, royalty-free right of the Government of the United States to practice and have practiced the invention on behalf of the United States and on behalf of any foreign government or international organization pursuant to any existing or future treaty or agreement with the United States.

(ii) The license shall reserve to NASA the right to require the licensee to grant sublicenses to responsible applicants, on reasonable terms, when necessary to fulfill health or safety needs.

(iii) The license shall be subject to any licenses in force at the time of the grant of the exclusive or partially exclusive license.

(iv) The license may grant the licensee the right of enforcement of the licensed patent pursuant to the provisions of Chapter 29 of Title 35, United States Code, or other statutes, as determined appropriate in the public interest.

(b) Foreign licenses.

(1) *Availability of licenses.* Exclusive or partially exclusive licenses may be granted on a NASA invention covered by a foreign patent, patent application, or other form of protection, provided that:

(i) Notice of a prospective license,

identifying the invention and prospective licensee, has been published in the Federal Register, providing opportunity for filing written objections within a 60-day period and following consideration of such objections;

(ii) NASA has considered whether the interests of the Federal Government or United States industry in foreign commerce will be enhanced; and

(iii) NASA has not determined that the grant of such license will tend substantially to lessen competition or result in undue concentration in any section of the United States in any line of commerce to which the technology to be licensed relates, or to create or maintain other situations inconsistent with antitrust laws.

(2) *Conditions.* In addition to the provisions of § 1245.204, the following terms and conditions apply to foreign exclusive and partially exclusive licenses:

(i) The license shall be subject to the irrevocable, royalty-free right of the Government of the United States to practice and have practiced the invention on behalf of the United States and on behalf of any foreign government or international organization pursuant to any existing or future treaty or agreement with the United States.

(ii) The license shall be subject to any licenses in force at the time of the grant of the exclusive or partially exclusive license.

(iii) The license may grant the licensee the right to take any suitable and necessary actions to protect the licensed property, on behalf of the Federal Government.

(c) *Record of determinations.* NASA shall maintain a record of determinations to grant exclusive or partially exclusive licenses.

Procedures

§ 1245.207 Application for a license.

An application for a license should be addressed to the Patent Counsel at the NASA installation having responsibility for the invention and shall normally include:

(a) Identification of the invention for which the license is desired, including the patent application serial number or patent number, title, and date, if known;

(b) Identification of the type of license for which the application is submitted;

(c) Name and address of the person, company, or organization applying for the license and the citizenship or place of incorporation of the applicant;

(d) Name, address, and telephone number of representative of applicant to whom correspondence should be sent;

(e) Nature and type of applicant's business, identifying products or services which the applicant has successfully commercialized, and approximate number of applicant's employees;

(f) Source of information concerning the availability of a license on the invention;

(g) A statement indicating whether applicant is a small business firm as defined in § 1245.202(c);

(h) A detailed description of applicant's plan for development or marketing of the invention, or both, which should include:

(1) A statement of the time, nature and amount of anticipated investment of capital and other resources which applicant believes will be required to bring the invention to practical application;

(2) A statement as to applicant's capability and intention to fulfill the plan, including information regarding manufacturing, marketing, financial, and technical resources;

(3) A statement of the fields of use for which applicant intends to practice the invention; and

(4) A statement of the geographic areas in which applicant intends to manufacture any products embodying the invention and geographic areas where applicant intends to use or sell the invention, or both;

(i) Identification of licenses previously granted to applicant under Federally owned inventions;

(j) A statement containing applicant's best knowledge of the extent to which the invention is being practiced by private industry or Government, or both, or is otherwise available commercially; and

(k) Any other information which applicant believes will support a determination to grant the license to applicant.

§ 1245.208 Processing applications.

(a) Applications for licenses will be initially reviewed by the Patent Counsel of the NASA installation having responsibility for the invention. The Patent Counsel shall make a preliminary recommendation to the Director of Licensing, NASA Headquarters, whether to: (1) grant the license as requested, (2) grant the license with modification after negotiation with the licensee, or (3) deny the license. The Director of Licensing shall review the preliminary recommendation of the Patent Counsel and make a final recommendation to the NASA Assistant General Counsel for Patent Matters. Such review and final recommendation may include, and be based on, any additional information obtained from applicant and other sources that the Patent Counsel and the Director of Licensing deem relevant to the license requested. The determination to grant or deny the license shall be made by the Assistant General Counsel for Patent Matters based on the final recommendation of the Director of Licensing.

(b) When notice of a prospective exclusive or partially exclusive license is published in the Federal Register in accordance with § 1245.206(a)(1)(iii)(A) or § 1245.206(b)(1)(i), any written objections received in response thereto will be considered by the Director of Licensing in making the final recommendation to the Assistant General Counsel for Patent Matters.

(c) If the requested license, including any negotiated modifications, is denied by the Assistant General Counsel for Patent Matters, the applicant may request reconsideration by filing a written request for reconsideration within 30 days after receiving notice of denial. This 30-day period may be extended for good cause.

(d) In addition to, or in lieu of requesting reconsideration, the applicant may also appeal the denial of the license in accordance with § 1245.211.

§ 1245.209 Notice to Attorney General.

A copy of the notice provided for in §§ 1245.206(a)(1)(iii)(A), and 1245.206(b)(1)(i) will be sent to the Attorney General.

§ 1245.210 Modification and termination of licenses.

Before modifying or terminating a license, other than by mutual agreement, NASA shall furnish the licensee and any sublicensee of record a written notice of intention to modify or terminate the license, and the licensee and any sublicensee shall be allowed 30 days after such notice to remedy any breach of the license or show cause why the license should not be modified or terminated.

§ 1245.211 Appeals.

(a) The following parties may appeal to the NASA Administrator or designee any decision or determination concerning the grant, denial, interpretation, modification, or termination of a license:

(1) A person whose application for a license has been denied;

(2) A licensee whose license has been modified or terminated, in whole or in part; or

(3) A person who timely filed a written objection in response to the notice required by §§ 1245.206(a)(1)(iii)(A) or

1245.206(b)(1)(i) and who can demonstrate to the satisfaction of NASA that such person may be damaged by the Agency action.

(b) Written notice of appeal must be filed within 30 days (or such other time as may be authorized for good cause shown) after receiving notice of the adverse decision or determination; including, an adverse decision following the request for reconsideration under § 1245.208(c). The notice of appeal, along with all supporting documentation should be addressed to the Administrator, National Aeronautics and Space Administration, Washington, DC 20546. Should the appeal raise a genuine dispute over material facts, fact-finding will be conducted by the NASA Inventions and Contributions Board. The person filing the appeal shall be afforded an opportunity to be heard and to offer evidence in support of the appeal. The Chairperson of the Inventions and Contributions Board shall prepare written findings of fact and transmit them to the Administrator or designee. The decision on the appeal shall be made by the NASA Administrator or designee. There is no further right of administrative appeal from the decision of the Administrator or designee.

§ 1245.212 Protection and administration of inventions.

NASA may take any suitable and necessary steps to protect and administer rights to NASA inventions, either directly or through contract.

§ 1245.213 Transfer of custody.

NASA having custody of certain Federally owned inventions may transfer custody and administration in whole or in part, to another Federal agency, of the right, title, or interest in any such invention.

§ 1245.214 Confidentiality of information.

Title 35, United States Code, section 209, provides that any plan submitted pursuant to § 1245.207(h) and any report required by § 1245.204(b)(6) may be treated by NASA as commercial and financial information obtained from a person and privileged and confidential and not subject to disclosure under section 552 of Title 5 of the United States Code.

James M. Beggs,

Administrator.

October 15, 1981.

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Section 2: Indexes

16. Abstract

A subject index is provided for over 4400 patents and patent applications for the period May 1969 through June 1986. Additional indexes list personal authors, corporate authors, contract numbers, NASA case numbers, U.S. patent class numbers, U.S. Patent numbers, and NASA accession numbers.

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