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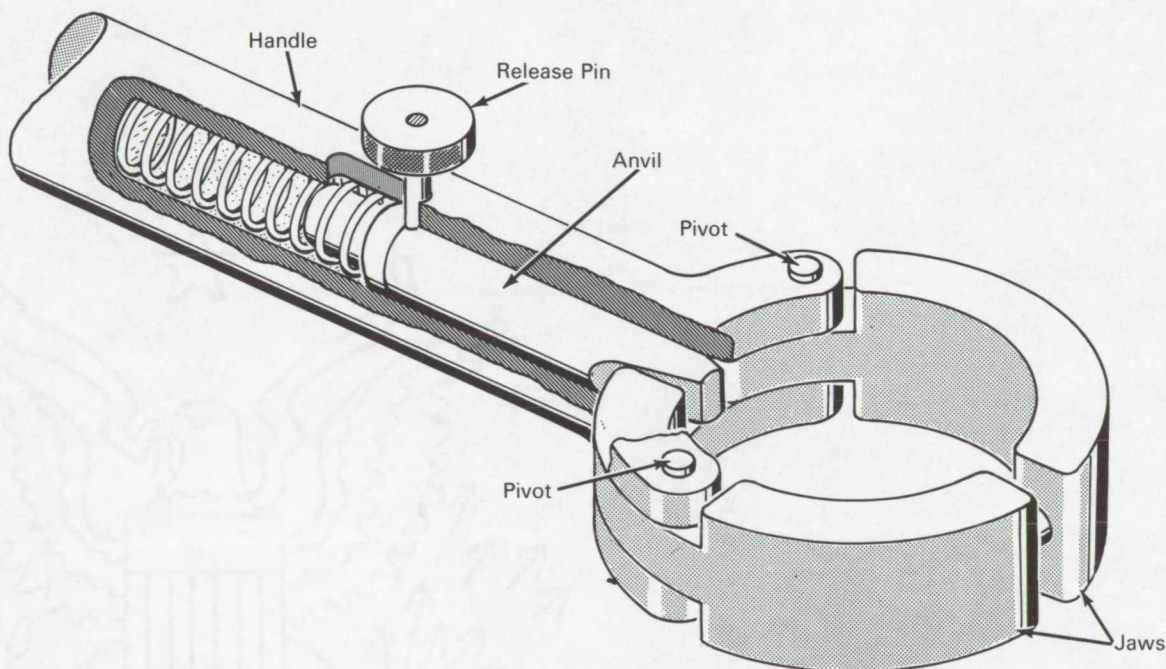
Brief 66-10213

# NASA TECH BRIEF



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## Cylindrical Claw Clamp Has Quick Release Feature



### The problem:

To design a clamp capable of grasping cylindrical shapes quickly and securely with provision for rapid release.

### The solution:

A claw clamp which grasps by pressing its jaws around a cylindrical object, and releases by retraction of a release pin.

### How it's done:

Two pivoting jaws close to engage the cylindrical object. A tapered anvil locks the jaws in the closed position by sliding into the gap between the jaw ends.

The anvil is under pressure from a compression spring. Rearward pressure on a release pin passing through the anvil withdraws the anvil from the gap and allows the jaws to pivot apart for release.

### Notes:

1. The release pin extends beyond the clamp handle on both sides to allow better purchase in the event of jamming. The protrusion on one side may be retracted by rotating the pin 180°, partially withdrawing it, and rotating it another 180° to captivate it again in the assembly.
2. The device requires no disassembly or additional tools in use.

(continued overleaf)

3. Inquiries concerning this invention may be directed to:

Technology Utilization Officer  
Marshall Space Flight Center  
Huntsville, Alabama, 35812  
Reference: B66-10213

**Patent status:**

Inquiries about obtaining rights for the commercial use of this invention may be made to NASA, Code GP, Washington, D.C., 20546.

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