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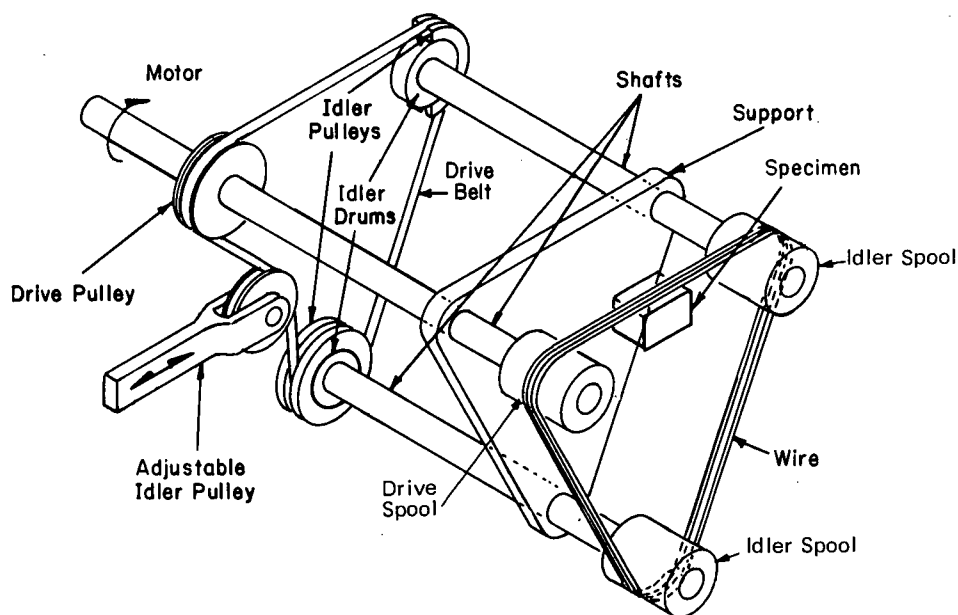
NASA TECH BRIEF

Manned Spacecraft Center



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Anti-Slipping System Improves Wire Saw Performance



This system prevents slippage in a wire saw by providing sufficient friction to turn the idler spools even when the turns of wire on the spools do not provide sufficient friction.

The system, which is readily incorporated on existing machines, entails the addition of a variable position idler pulley to the drive-belt train. The position of this pulley controls the tension on the drive belt, which in turn, determines the friction force between the drive belt idler pulleys and their supporting drums. The rotational force, imparted by the pulleys to the drums, is transmitted to the wire idler spools. Thus, the position of the additional idler pulley controls the rotational

force of the idler spools and permits simple adjustments to prevent wire slippage.

The improvement in performance offered by this system, combined with its low cost and applicability to existing equipment, should render it of interest to industries employing wire saws.

Note:

Requests for further information may be directed to:

Technology Utilization Officer
Manned Spacecraft Center, Code JM7
Houston, Texas 77058
Reference: TSP71-10522

(continued overleaf)

Patent status:

No patent action is contemplated by NASA.

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