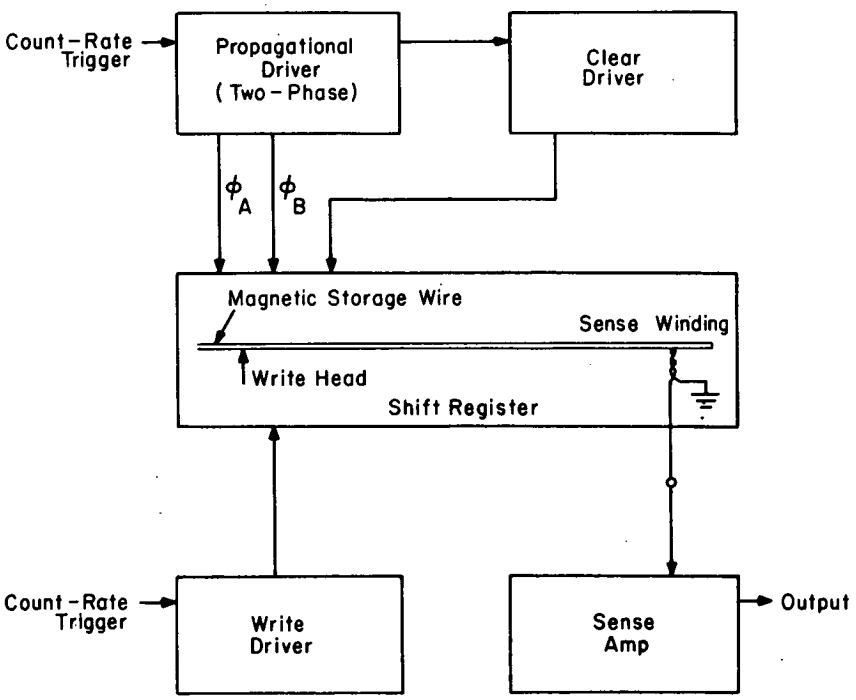
AEC-NASA TECH BRIEF

A Manually Set Magnetic Wire Counter



A magnetic storage wire is coupled to a two-phase propagational driver in a manually set counter shift register. A time delay between the insertion of a magnetic count domain and the corresponding output pulse provides the counting function.

The counter is set by positioning a movable write-head at the appropriate location along the wire and then energizing the write-head to create a magnetic domain in the wire. The traveling magnetic field produced by the two-phase driver propagates the magnetic domain along the wire from its point of insertion. When the magnetic domain reaches the end of the wire it induces a voltage pulse in a sense winding.

Note:

Requests for further information may be directed to:

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Reference: TSP72-10369

(continued overleaf)

Patent status:

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