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(54) Title: GATE VALVE WITH PNEUMATIC SYSTEM FOR SHEARING APPLICATION

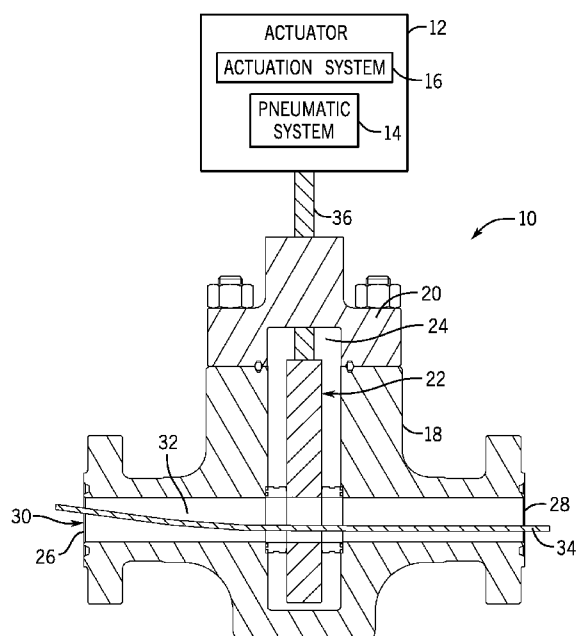


FIG. 1

(57) Abstract: Embodiments of the present disclosure are directed toward a second pneumatic actuator (12) configured to couple to a gate valve (10), wherein the second pneumatic actuator (12) is configured to apply a supplemental force to a gate (22) of the gate valve (10), wherein the supplemental force supplements an actuating force of a first actuator (50) of the gate valve. The valve utilizes a pneumatic system to improve valve operation without increasing size of the actuator, thus enabling usage of the valve with large bores and high pressures while reducing amount of mechanical force or torque needed to open and close the valve. The valve allows an actuation system and the pneumatic system to combine to apply greater shearing force to the wireline with the gate, thus enabling shearing of the wireline in an easy manner.

**Declarations under Rule 4.17:**

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*
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