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(54) Title: DEEP-SET INSERT VALVE USING MAGNETIC COUPLING

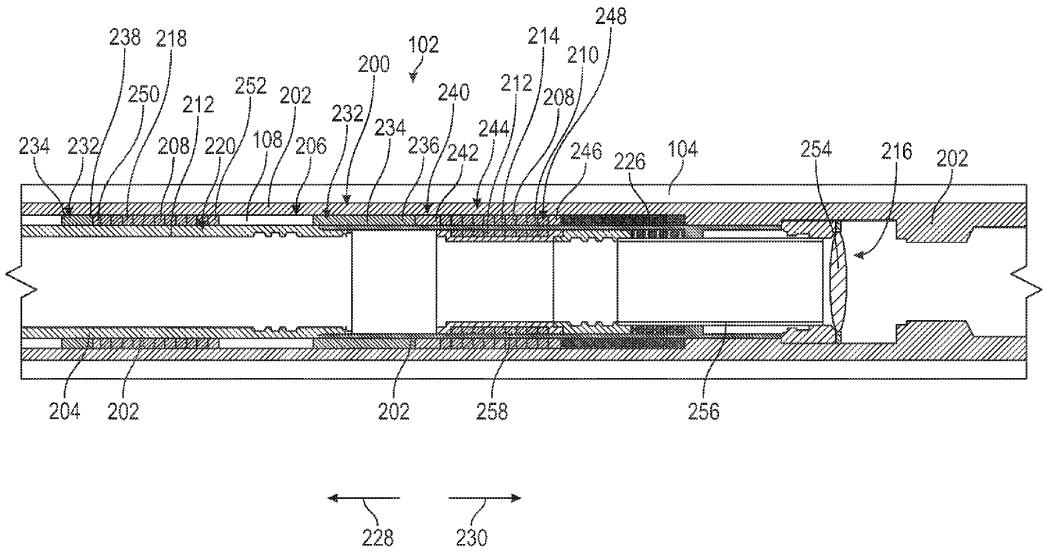


FIG. 2

(57) Abstract: A downhole system may include an insert frame securable within a central bore of a tubing retrievable safety valve that has driver magnet configured to project a magnetic field and move axially along a control line in the tubing retrievable safety valve. The downhole system may include an insert flapper connected to the insert frame and configured to actuate between an open position and a closed position to control fluid flow through the central bore. The downhole system may include an insert flow tube configured to move along the central bore to drive the insert flapper between the closed position and the open position. Further, the downhole system may include a follower magnet secured to the insert flow tube and magnetically engaged with the driver magnet. The follower magnet is configured to move in response to movement of the driver magnet to drive movement of the insert flow tube.

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