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(54) Title: ROTARY PUMP OR MOTOR

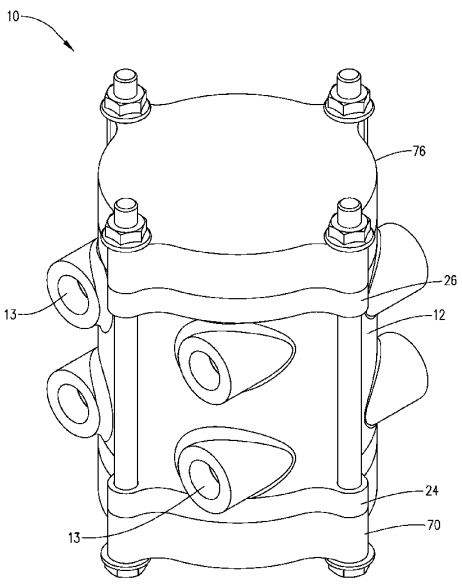


FIG. 1

(57) Abstract: The methods and systems provide for an improved rotary device where in variable chambers are produced between a rotor and stator(s). The size and shape of the variable chambers are varied by rotating the rotor on a shaft and by sliding the rotor axially along the shaft wherein the rotating and sliding are controlled by a bearing interacting with the rotor and shaft such that the bearing transmits rotation of the shaft to the rotor to thus rotate the rotor and axial movement of the bearing within a defined slot on the shaft results in the rotor axially sliding. The rotating and sliding of the rotor results in changing the size and shape of the variable chambers. For example, introduction of a fluid into a variable chamber occurs when the chamber moves from the closed position to the open position, and expelling the fluid occurs as the variable chamber moves from the open position to the closed position.

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