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(54) Title: DIFFERENTIAL PRESSURE CONTROLLED MOTOR AND PUMP BARRIER FLUIDS PRESSURE REGULATION SYSTEM

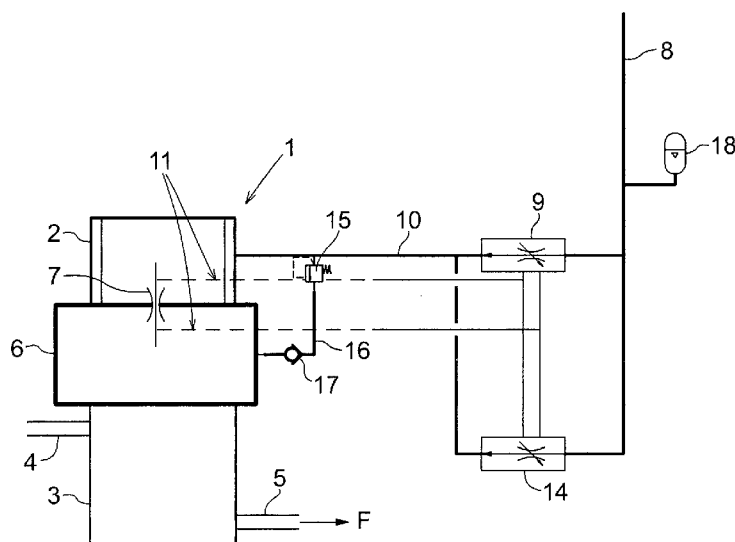


Fig. 1

(57) Abstract: A motor and a pump barrier fluids pressure regulation system for a subsea motor and pump module is disclosed. The pressure regulation system comprises - a barrier fluid circuit (10) providing fluid flow communication from a hydraulic fluid supply (8) to a first cavity in the motor and pump module, - a pressure controlled flow control valve (9) controlling the supply of hydraulic fluid to the barrier fluid circuit (10); - a second cavity arranged to receive hydraulic fluid from the hydraulic fluid supply via the first cavity, and - a pilot pressure circuit (11) comprising means for detecting and returning to the pressure controlled flow control valve (9) a differential pressure over a flow restriction (7; 13) connecting the first and second cavities.