



(51) International Patent Classification:

E21B 43/01 (2006.01) *F04B 53/16* (2006.01)
B63C 11/00 (2006.01) *F04D 29/10* (2006.01)
E21B 43/12 (2006.01) *F16J 15/40* (2006.01)

(21) International Application Number:

PCT/IB2011/001388

(22) International Filing Date:

20 June 2011 (20.06.2011)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

20100904 22 June 2010 (22.06.2010) NO

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report (Art. 21(3))

(54) Title: A MOTOR AND PUMP BARRIER FLUIDS PRESSURE REGULATION SYSTEM IN A SUBSEA MOTOR AND PUMP MODULE

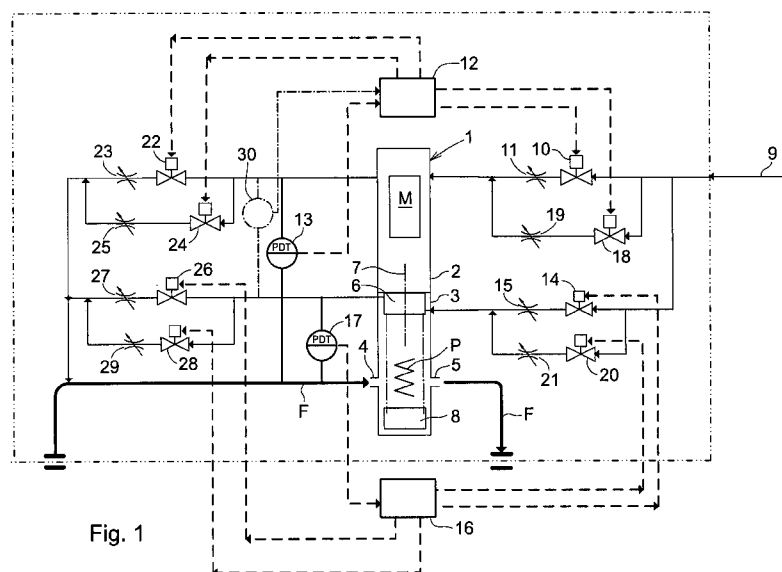


Fig. 1

(57) Abstract: A motor and pump barrier fluids pressure regulation system for a subsea motor and pump module is disclosed. The system comprises a motor barrier fluid circuit hydraulically separating the motor from the pump, and a pump barrier fluid circuit hydraulically separating the internal structure of the pump from the pumped medium, wherein the fluid flow and pressure in each of barrier fluid circuits is managed via pressure controlled on/off valves (10, 22; 14, 26) arranged in each circuit, the on/off valves being individually controllable in response to detected difference in pressure between the medium, on a suction side or on a discharge side of the pump, and fluid in the motor and pump barrier fluid circuits.