

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
29 December 2011 (29.12.2011)(10) International Publication Number
WO 2011/161517 A1

(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/IB2011/001391

(22) International Filing Date:

20 June 2011 (20.06.2011)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

20100903 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: DIFFERENTIAL PRESSURE CONTROLLED MOTOR AND PUMP BARRIER FLUIDS PRESSURE REGULATION SYSTEM

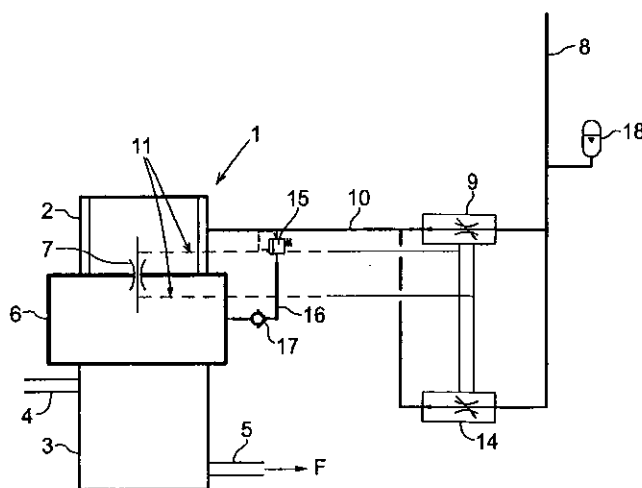


Fig. 1

(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.