PCT WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : E21B 43/12 — A1

(11) International Publication Number: WO 99/15760

(43) International Publication Date: 1 April 1999 (01.04.99)

(21) International Application Number: PCT/US98/18122

(22) International Filing Date: 1 September 1998 (01.09.98)

(30) Priority Data:
60/060,691 23 September 1997 (23.09.97) US

(71) Applicant: DRESSER INDUSTRIES, INC. [US/US]; 2001 Ross Avenue, Dallas, TX 75201 (US).

(72) Inventor: BARTON, John, Andrew; 3203 Fisher Court, Arlington, TX 76001 (US).

(74) Agents: KICE, Warren, B. et al.; Haynes & Boone, L.L.P., 3100 NationsBank Plaza, 901 Main Street, Dallas, TX 75202-3789 (US).

(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published
With international search report.

(54) Title: PRODUCTION FLUID CONTROL DEVICE FOR OIL/GAS WELLS

(57) Abstract

A device and method for selectively controlling the flow of production fluid through a tubing string (12) in an oil and gas well according to which a housing (24) is connected to a tubing string (12) for inserting into the well, and the well fluid is passed from the ground surface into the housing (24). The housing (24) is provided with a plug (56) to establish fluid pressure into the housing (24) to actuate a packer (16) and/or other ancillary devices. The plug (56) can be removed from the housing (24) by increasing the pressure of the well fluid in the housing (24) above a predetermined value, thus permitting the flow of production fluid from the formation zone, through the housing (24) and the tubing string (12), and to the ground surface.

