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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
20 September 2012 (20.09.2012)

WIPO | PCT

(10) International Publication Number
WO 2012/125261 A2

(51) International Patent Classification:
E21B 43/08 (2006.01) *E21B 34/16* (2006.01)
E21B 43/10 (2006.01)

(21) International Application Number:
PCT/US2012/026041

(22) International Filing Date:
22 February 2012 (22.02.2012)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
13/045,800 11 March 2011 (11.03.2011) US

(71) Applicant *(for all designated States except US)*: **HALLIBURTON ENERGY SERVICES, INC.** [US/US]; 2601 Beltline Road, Carrollton, TX 75006 (US).

(72) Inventor; and

(75) Inventor/Applicant *(for US only)*: **VEIT, Jan** [CZ/US]; 3201 Dover Drive, Plano TX 75075 (GB).

(74) Agent: **YOUST, Lawrence, R.**; Lawrence Youst PLLC, One Waterway Court, Suite 3B, The Woodlands, TX 77380 (US).

(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, QA, RO, RS, RU, RW, 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, RW, 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).

Declarations under Rule 4.17:

— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

Published:

— *without international search report and to be republished upon receipt of that report (Rule 48.2(g))*

(54) **Title**: FLOW CONTROL SCREEN ASSEMBLY HAVING REMOTELY DISABLED REVERSE FLOW CONTROL CAPABILITY

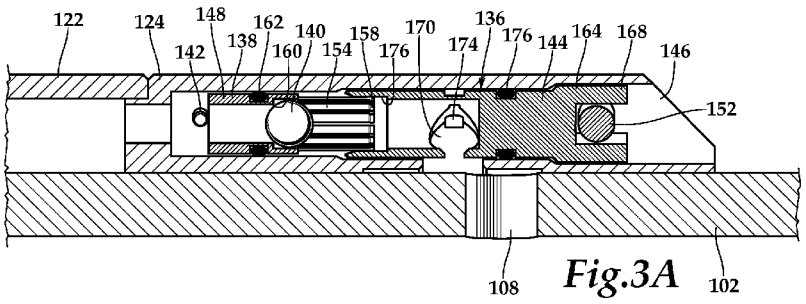


Fig.3A

(57) **Abstract**: A flow control screen having a fluid flow path between the interior of a base pipe and a filter medium. A valve assembly, including a piston body, a valve plug and a ball retainer having an opening, is disposed within the fluid flow path. The piston body has an internal seat and a collet assembly that is radially outwardly constrained by the ball retainer in a first operating position to retain the valve plug therein and radially outwardly unconstrained by the ball retainer in a second operating position. Reverse flow is initially prevented as internal differential pressure seats the valve plug on the internal seat and causes the piston body to shift to the second operating position upon reaching a predetermined threshold. Thereafter, external differential pressure causes the valve plug to be expelled from the valve assembly through the opening of the ball retainer, thereby no longer preventing reverse flow.

WO 2012/125261 A2