



(51) International Patent Classification:

E21B 34/00 (2006.01) *E21B 17/00* (2006.01)
E21B 34/06 (2006.01) *E21B 47/00* (2012.01)

(21) International Application Number:

PCT/US2011/054799

(22) International Filing Date:

4 October 2011 (04.10.2011)

(25) Filing Language:

English

(26) Publication Language:

English

(71) Applicant (for all designated States except US): **HAL-LIBURTON ENERGY SERVICES, INC.** [US/US]; 10200 Bellaire Boulevard, Houston, TX 77072 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **RINGGENBERG, Paul, D.** [US/US]; 2601 Beltline Road, Carrollton, TX 75006 (US). **HUGGINS, Cory, L.** [US/US]; 2601 Beltline Road, Carrollton, TX 75006 (US).

(74) Agent: **SMITH, Marlin, R.**; Smith IP Services, P.C., P.O. Box 997, Rockwall, TX 75087 (US).

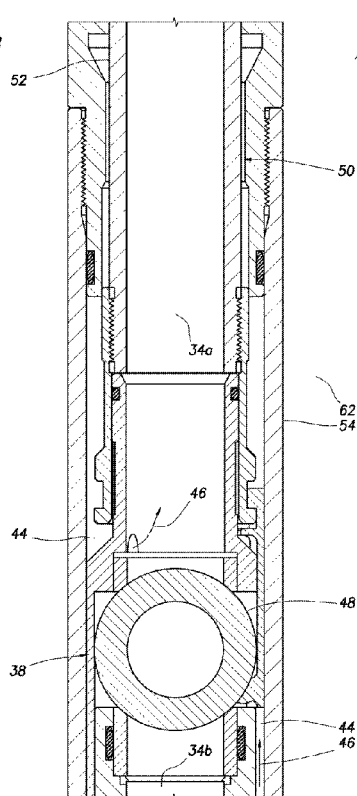
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, 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,

[Continued on next page]

(54) Title: DEBRIS RESISTANT INTERNAL TUBULAR TESTING SYSTEM

FIG.2B



(57) Abstract: A tubular string testing system for use with a tubular string having a longitudinally extending flow passage can include a valve which selectively permits and prevents fluid communication between sections of the flow passage, a bypass passage which provides fluid communication between the sections of the flow passage when the valve is closed, and a filter which filters fluid that flows through the bypass passage. A method of testing a tubular string can include permitting fluid to flow through a bypass passage which connects sections of a flow passage extending longitudinally through the tubular string, a filter filtering the fluid which flows through the bypass passage, a valve of a tubular string testing system preventing flow of the fluid between the sections of the flow passage through the valve, and flow through the bypass passage being prevented in response to a predetermined pressure differential being created across the filter.



SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

— *of inventorship (Rule 4.17(iv))*

Declarations under Rule 4.17:

Published:

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

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