



- (51) **International Patent Classification:**  
*E21B 43/08* (2006.01) *E21B 37/08* (2006.01)
- (21) **International Application Number:**  
PCT/US2013/025298
- (22) **International Filing Date:**  
8 February 2013 (08.02.2013)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (71) **Applicant:** HALLIBURTON ENERGY SERVICES, INC. [US/US]; 10200 Bellaire Boulevard, Houston, TX 77072 (US).
- (72) **Inventor:** BOUTTE, Blake, S.; 700 West Pont Des Mouton Road, Lafayette, LA 70507 (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, BN, 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, PA, 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, 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).

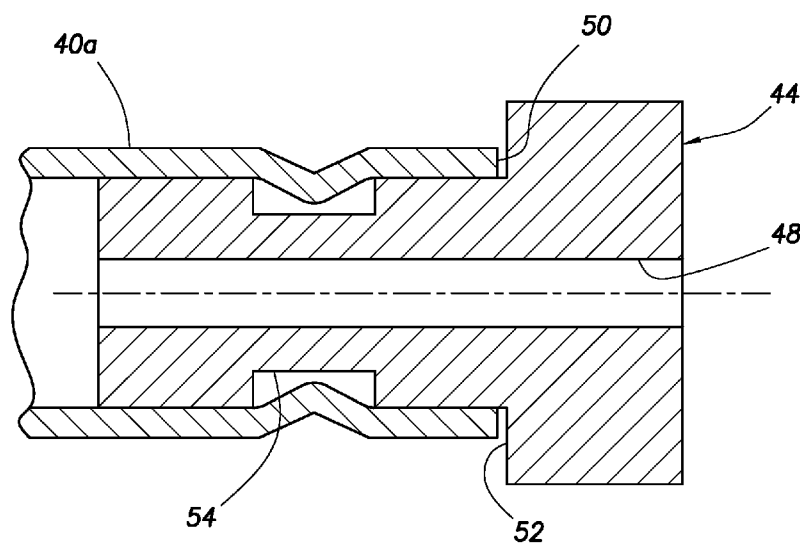
**Declarations under Rule 4.17:**

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
- *of inventorship (Rule 4.17(iv))*

**Published:**

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

(54) **Title:** CRIMPED NOZZLE FOR ALTERNATE PATH WELL SCREEN



(57) **Abstract:** A method of securing a nozzle in an end of a slurry discharge tube can include inserting the nozzle into the end of the slurry discharge tube, and crimping the slurry discharge tube onto the nozzle. A well screen shunt tube assembly can include a slurry discharge tube, and a nozzle inserted into an end of the slurry discharge tube, the slurry discharge tube being crimped onto the nozzle.