



(51) International Patent Classification:

E21B 34/10 (2006.01) *E21B 23/06* (2006.01)
E21B 34/14 (2006.01) *E21B 21/10* (2006.01)
E21B 23/04 (2006.01)

(21) International Application Number:

PCT/US2010/045258

(22) International Filing Date:

12 August 2010 (12.08.2010)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

12/545,710 21 August 2009 (21.08.2009) US

(71) Applicant (*for all designated States except US*): **BAKER HUGHES INCORPORATED** [US/US]; P.O. Box 4740, Houston, TX 77210-4740 (US).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **CHAMBERS, Clay, E.** [US/US]; 9759 Pinee Lake Drive, Houston, TX 77055 (US). **CLEM, Nicholas, J.** [US/US]; 5302 Lamonte Lane, Houston, TX 77092 (US). **FIGUEROA, Hugo** [US/US]; 211 West 32nd, Houston, TX 77018 (US). **JACOB, Jobby, T.** [US/US]; 919 Wax Myrtle Road, Houston, TX 77079 (US). **COCHRAN, Travis, E.** [US/US]; 210 Forestwood Drive, Houston, TX 77015 (US).

(74) Agent: **DUPHORNE, Darin, H.**; Baker Hughes Incorporated, P.O. Box 4740, Houston, TX 77210-4740 (US).

[Continued on next page]

(54) Title: SLIDING SLEEVE LOCKING MECHANISMS

1/14

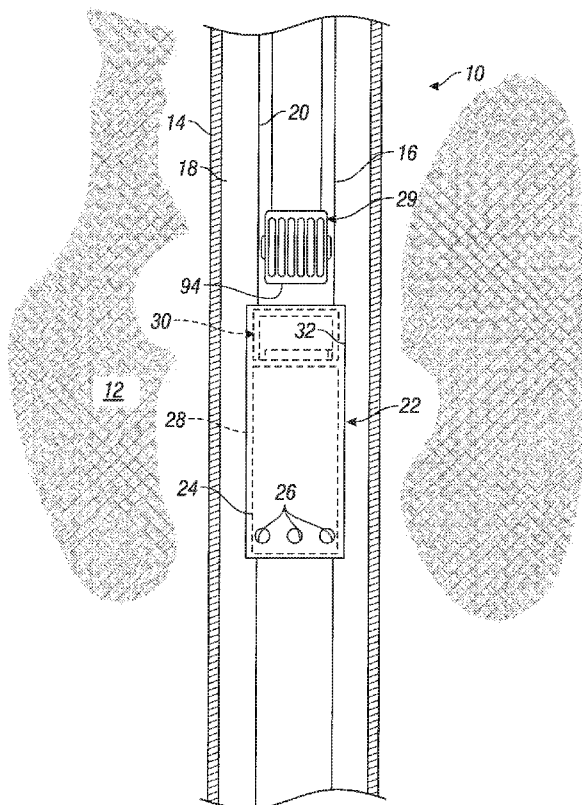


FIG. 1

(57) Abstract: Systems and methods for locking a sliding sleeve valve in an open position and/or a closed position to prevent inadvertent operation of the sleeve valve during other operations.



WO 2011/022284 A2



(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, 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))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

Published:

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