



(43) International Publication Date
31 October 2013 (31.10.2013)

- | | |
|---|--|
| <p>(51) International Patent Classification:
 <i>E21B 47/12</i> (2012.01) <i>E21B 47/04</i> (2012.01)
 <i>E21B 44/00</i> (2006.01)</p> | <p>(74) Agent: KAISER, Iona; McDermott Will & Emery LLP,
 The McDermott Building, 500 North Capitol Street, N.W.,
 Washington, DC 20001 (US).</p> |
| <p>(21) International Application Number:
 PCT/US2012/034901</p> | <p>(81) Designated States (<i>unless otherwise indicated, for every kind of national protection available</i>): 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.</p> |
| <p>(22) International Filing Date:
 25 April 2012 (25.04.2012)</p> | |
| <p>(25) Filing Language: English</p> | |
| <p>(26) Publication Language: English</p> | |
| <p>(71) Applicant (<i>for all designated States except US</i>): HAL-LIBURTON ENERGY SERVICES, INC. [US/US];
 10200 Bellaire Boulevard, Houston, TX 77072 (US).</p> | |
| <p>(72) Inventors; and</p> | <p>(84) Designated States (<i>unless otherwise indicated, for every kind of regional protection available</i>): 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, HU, IE, IT, LI, LU, LT, LV, MA, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), International (AU, BR, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, FR, GB, GR, GT, HK, HN, HU, IL, IN, 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).</p> |
| <p>(75) Inventors/Applicants (<i>for US only</i>): MACPHAIL, Charles, M. [US/US]; 2124 Kiowa, Little Elm, TX 75068 (US). RINGGENBERG, Paul [US/US]; 2118 Goliad Circle, Frisco, TX 75033 (US).</p> | |

[Continued on next page]

(54) Title: SYSTEM AND METHOD FOR TRIGGERING A DOWNHOLE TOOL

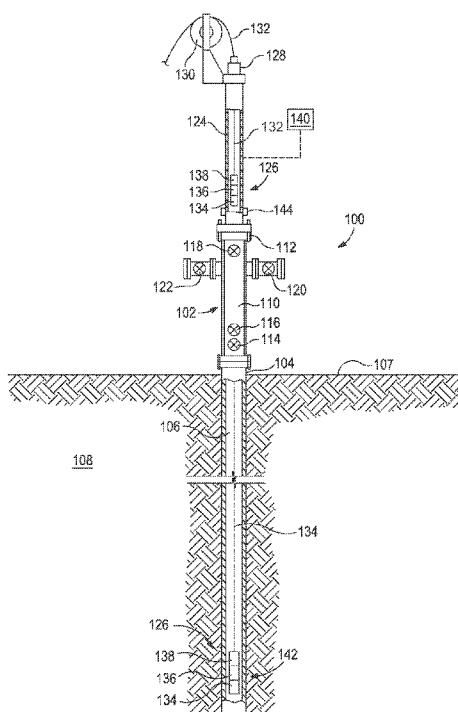


FIG. 1

(57) Abstract: Disclosed are systems and method for servicing a wellbore and otherwise triggering a downhole tool. One method includes arranging an assembly within a lubricator coupled to a tree. The assembly includes at least one downhole tool and a signal receiver subassembly. A signal is communicated to the signal receiver subassembly before the assembly is introduced into the wellbore, the signal being configured to activate a timer. The assembly is then introduced into the wellbore and advanced until reaching a target depth. At the target depth, a trigger signal is transmitted to the at least one downhole tool using the signal receiver subassembly, the trigger signal being configured to initiate actuation of the at least one downhole tool.

WO 2013/162534 A1



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

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