



(51) International Patent Classification:

E21B 33/13 (2006.01) *E21B 47/12* (2012.01)
E21B 34/16 (2006.01) *E21B 47/09* (2012.01)

(21) International Application Number:

PCT/US2013/055962

(22) International Filing Date:

21 August 2013 (21.08.2013)

(25) Filing Language:

English

(26) Publication Language:

English

(71) Applicant: **HALLIBURTON ENERGY SERVICES, INC.** [US/US]; 10200 Bellaire Boulevard, Houston, TX 77072 (US).

(72) Inventors: **ROGOZINSKI, Nicolas, A.**; 1010 Ranchwood Pl., Duncan, OK 73533 (US). **ROGERS, Henry, E.**; 4015 West Seminole, Duncan, OK 73533 (US). **BUDLER, Nicholas, Frederick**; 2110 N. 8 Mile Rd., Marlow, OK 73055 (US).

(74) Agents: **JORDAN, Carey, C.** et al.; McDermott Will & Emery LLP, 500 North Capitol Street, N.W., Washington, DC 20001 (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, 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, SA, 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, KM, 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:

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

(54) Title: CEMENT HEAD REMOTE CONTROL AND TRACKING

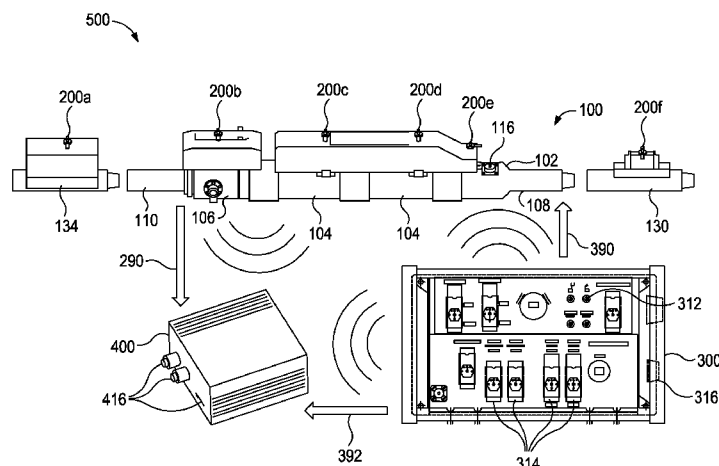


FIG. 5

(57) Abstract: The present disclosure is related to wellbore servicing tools used in the oil and gas industry and, more particularly, to remote control tracking of cement head operations. A system of the present disclosure includes a control device, an onboard device operably connected to a mechanical device of a cement head, and a tracking device, wherein the control device is configured to transmit a user command indicator via (i) a first command signal to the onboard device and (ii) a second command signal to the tracking device, wherein the onboard device is configured to operate the mechanical device in response to the first command signal and transmit a status indicator of the cement head to the tracking device via a report signal, and wherein the tracking device is configured to record the user command indicator and the status indicator.