

(43) International Publication Date
25 March 2021 (25.03.2021)



(10) International Publication Number
WO 2021/054944 A1

(51) **International Patent Classification:**
E21B 34/16 (2006.01) *E21B 41/00* (2006.01)

(21) **International Application Number:**
PCT/US2019/051551

(22) **International Filing Date:**
17 September 2019 (17.09.2019)

(25) **Filing Language:** English

(26) **Publication Language:** English

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(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, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, 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,

(54) Title: POSITION SENSOR FEEDBACK FOR HYDRAULIC PRESSURE DRIVEN INTERVAL CONTROL VALVE MOVEMENT

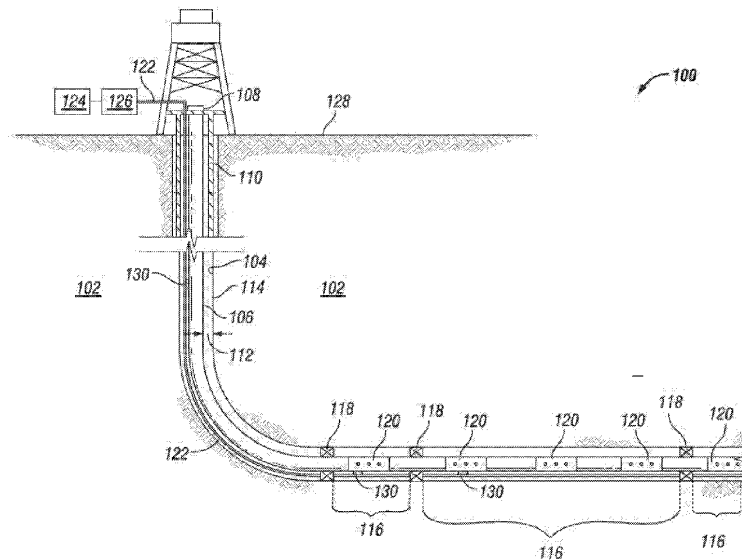


FIG. 1

(57) Abstract: Techniques for correlating changing hydraulic pressure differentials with interval control valve (ICV) movements are contemplated. In some aspects, the disclosed technology includes include methods for applying, by a surface controller, a series of differential pressure values to a hydraulic-open line, receiving, from a position sensor, a corresponding valve position for each of the differential pressure values, and calculating a lag time, a move speed and a response delay for each of the first series of differential pressure values. In some aspects, the method can further include steps for generating an ICV positioning model based at least in part on the lag time, the move speed, and the response delay calculated for each of the first series of differential pressure values. Systems and computer-readable media are also provided.

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GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, 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).

Published:

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