



(51) International Patent Classification:

B23B 41/08 (2006.01) *E21B 29/12* (2006.01)
E21B 7/18 (2006.01) *E21B 33/06* (2006.01)
E21B 29/00 (2006.01) *E21B 33/064* (2006.01)
E21B 29/08 (2006.01) *F16L 1/26* (2006.01)

(21) International Application Number:

PCT/US2014/063007

(22) International Filing Date:

29 October 2014 (29.10.2014)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/896,998 29 October 2013 (29.10.2013) US

(71) Applicant (for all designated States except US):
TRANSOCEAN INNOVATION LABS, LTD; 70 Har-
 bour Drive, 4th Floor, George Town Grand Cayman, KY1-
 1003 (KY).

(72) Inventors; and

(71) Applicants (for US only): **BABBITT, Guy, Robert**
 [US/US]; 120 N. Roosevelt Ave., Fort Collins, CO 80524
 (US). **DALTON, John, Matthew** [GB/US]; 23 Little Rise
 Drive, Missouri City, TX 77459 (US).

(74) Agents: **GARRETT, Mark, T.** et al.; Fulbright & Jawor-
 ski LLP, 98 San Jacinto Blvd., Suite 1100, Austin, TX
 78701 (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, IR, IS, JP, KE, KG, KN, KP, KR,
 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,
 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))

(54) Title: SUBSEA PIPE CUTTING APPARATUSES AND RELATED METHODS

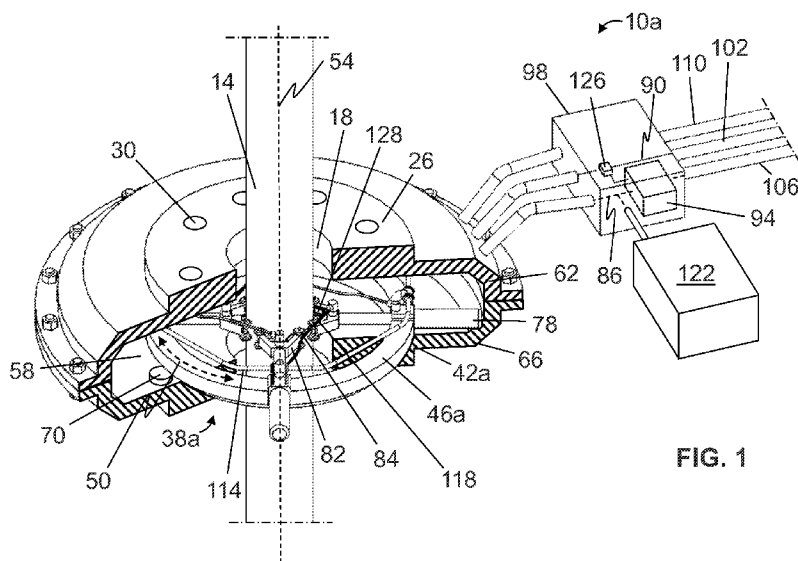


FIG. 1

(57) Abstract: Some embodiments of the present subsea pipe cutting apparatuses use or include a frame, one or more water jet nozzles coupled to the frame and configured to apply pressurized fluid to a pipe to cut the pipe, and one or more of: a flange configured to secure the subsea pipe cutting apparatus relative to a blowout preventer stack, one or more water jet nozzles coupled to a rotating portion of the frame and configured to rotate about the pipe, one or more water jet nozzles movable between a retracted state and a deployed state in which the one or more water jet nozzles are radially closer to the pipe than when in the retracted state, one or more water jet nozzles pivotally coupled to the frame and configured to pivot while applying pressurized fluid to a surface of the pipe, and two or more water jet nozzles.