



(51) International Patent Classification:

C10M 169/04 (2006.01) *F16L 15/00* (2006.01)
C23C 28/00 (2006.01) *E21B 17/042* (2006.01)
F16L 58/18 (2006.01)

(21) International Application Number:

PCT/IB2011/002471

(22) International Filing Date:

20 July 2011 (20.07.2011)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/365,952	20 July 2010 (20.07.2010)	US
61/367,822	26 July 2010 (26.07.2010)	US
61/368,400	28 July 2010 (28.07.2010)	US
61/394,311	18 October 2010 (18.10.2010)	US

(71) Applicant (for all designated States except US): **TENARIS CONNECTIONS LIMITED** [VC/VC]; 112 Bonadie St., Kingstown (VC).(72) Inventor: **RIBALTA, Jesus, Casar**; Dr. Jorge Simini 250 B2804-MHA Campana, Buenos Aires (AR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **DELL'ERBA, Diego, Nicolás** [AR/AR]; Dr. Jorge Simini 250 B2804-MHA Campana, Buenos Aires (AR). **CARCAGNO, Gabriel, Eduardo** [AR/AR]; Dr. Jorge Simini 250 B2804-MHA Campana, Buenos Aires (AR).(74) Agent: **PALLINI, Diego**; Notarbartolo & Gervasi GmbH, Bavariaring 21, 80336 Munich (DE).

(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, RS, 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))

Published:

— with international search report (Art. 21(3))
 — before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

[Continued on next page]

(54) Title: JOINTS HAVING IMPROVED SEALABILITY, LUBRICATION AND CORROSION RESISTANCE

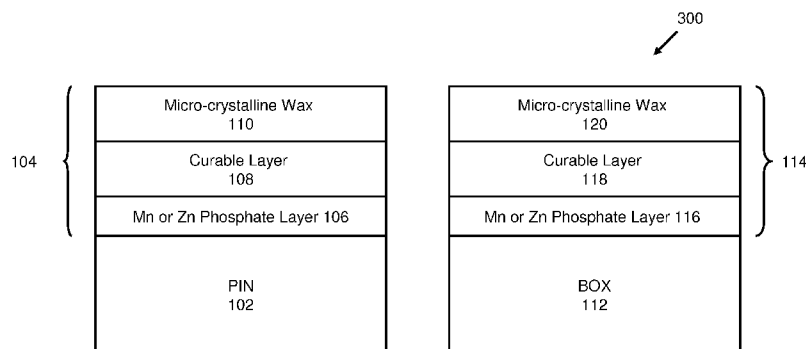


FIG. 3

(57) Abstract: Embodiments of the present disclosure provide systems and methods for assembly of tubular joints which overcome the drawbacks and limitations of conventional joints. In certain embodiments, the tubular joints may comprise threaded joints used in oil exploration. Joints may be assembled using a combination of a) position control, b) specific production tolerances for thread parameters, and c) coatings applied on threaded areas of the joint. In further embodiments, the tubular joints may have no torque shoulder and/or metal to metal seals. In additional embodiments, the joints may be further assembled and disassembled several times without application of dope or grease and exhibit enhanced sealability. Beneficially, embodiments of the present disclosure may provide high tolerance, precisely assembled joints that provide improved performance (e.g., mechanical performance, sealability, corrosion resistance, lubrication) and reliability over non-premium connections without the expense associated with premium connections.



(88) Date of publication of the international search report:

27 June 2013