



- (51) International Patent Classification: Not classified
- (21) International Application Number: PCT/EP2014/050145
- (22) International Filing Date: 7 January 2014 (07.01.2014)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 20130036 8 January 2013 (08.01.2013) NO
- (71) Applicant: FMC KONGSBERG SUBSEA AS [NO/NO]; P.O. box 1012, N-3601 Kongsberg (NO).
- (72) Inventors: CARLSEN, Hans-Paul; Heddalsvegen 554, N-3677 Notodden (NO). CARLSEN, Tor-Øystein; Zienersvingen 10, N-3610 Kongsberg (NO). INDERBERG, Olav; Veungdalsveien 99, N-3615 Kongsberg (NO). MUFF, Anthony D.; Møllergata 13, N-3616 Kongsberg (NO). SUNDKVIST, Arild; Torstein Stenbeksvei 4, N-3610 Kongsberg (NO). FADUM, Pål; Glogersv. 12, N-3610 KONGSBERG (NO). KLEVSTAD, Roy Arne; Rådmannottesenvei 14, N-3610 Kongsberg (NO). LØVLAND, Thor-Arne; Pilestredet 51B, N-0350 Oslo (NO). RØNNE, Simen; Olavsgate 42B, N-3612 Kongsberg (NO). TANDBERG, Geir; Rosevegen 14, N-3408 Tranby (NO). TØMMERMO, Bernt Olav; Anundskåsveien 88D, 3675 Notodden (NO).
- (74) Agent: ONSAGERS AS; P.O. Box 1813 Vika, N-0123 Oslo (NO).
- (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, 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).
- Published: — without international search report and to be republished upon receipt of that report (Rule 48.2(g))

(54) Title: SAFETY JOINT

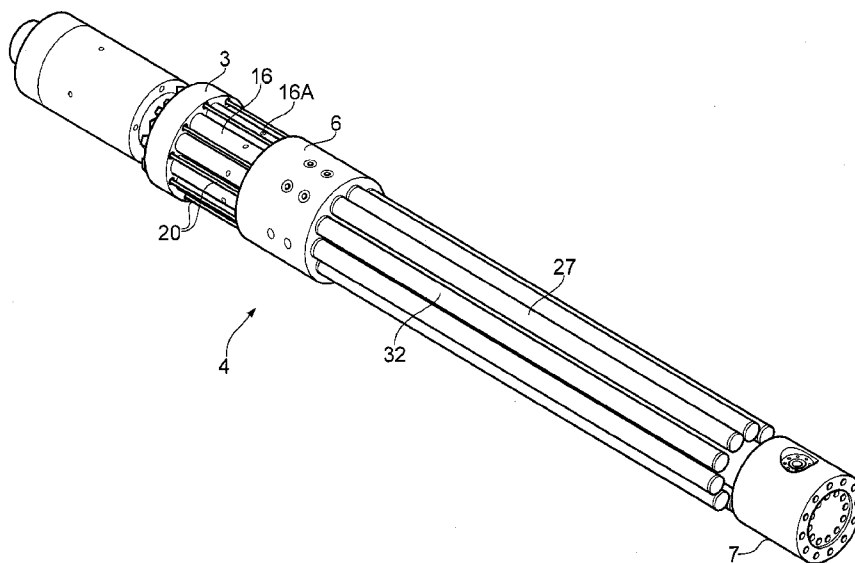


FIG. 1

(57) Abstract: The invention relates to a safety joint and a method of operation, the safety joint comprising: a first riser part and a second riser part overlapping in an axial direction and having end connections to be connectable as part of a riser, a release unit, locking the two riser parts together in a not activated mode, the release unit having other modes comprising a partly activated mode and fully activated mode, where the release unit comprises at least one axial extending tension rod connected between the two riser parts, which tension rod is configured to deform plastically before breaking, thereby activating the partly and fully activated modes.