

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
15 December 2011 (15.12.2011)

(10) International Publication Number
WO 2011/154817 A1

(51) International Patent Classification:
E21B 19/16 (2006.01)

(21) International Application Number:
PCT/IB2011/001297

(22) International Filing Date:
10 June 2011 (10.06.2011)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
20100839 11 June 2010 (11.06.2010) NO

(71) Applicant (for all designated States except US): VETCO
GRAY SCANDINAVIA AS [NO/NO]; P.O. Box 423,
N-1302 Sandvika (NO).

(72) Inventors; and

(75) Inventors/Applicants (for US only): AARHUS, Jon
Olav [NO/NO]; Heereimsmoen 33, N-4200 Sauda (NO).
WINDSLAND, Oystein [NO/NO]; Sleirev. 34C, N-4317
Sandnes (NO).

(74) Common Representative: VETCO GRAY SCANDI-
NAVIA AS; c/o Henrik Fransson AB, Forskargränd 8,
B194, S-72226 Vasteras (SE).

(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).

Published:

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

[Continued on next page]

(54) Title: APPARATUS FOR CONNECTING OR DISCONNECTING A THREADED COUPLING BETWEEN TWO RISER JOINTS

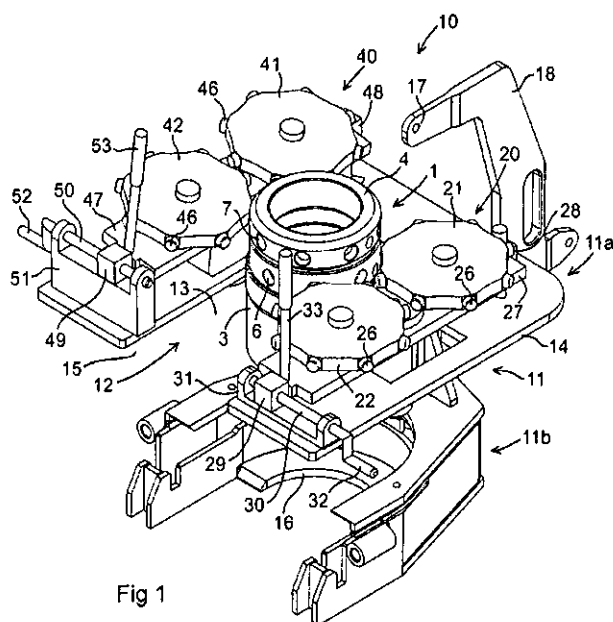


Fig 1

(57) Abstract: An apparatus for connecting or dis-
connecting a threaded coupling between two riser
joints, comprising: - a frame (11) provided with a
space (12) for receiving the coupling; - a first drive
wheel set (20) carried by the frame and comprising
one or more drive wheels (21, 22) driven by a first
drive motor (23) for rotating a main nut of the cou-
pling; and - a second drive wheel set (40) carried by
the frame and comprising one or more drive wheels
(41, 42) driven by a second drive motor (43) for ro-
tating a locking nut of the coupling. The drive wheels of
the second drive wheel set are located on a level
above the drive wheels of the first drive wheel set to
allow them to engage with and rotate the locking nut
when the drive wheels of the first drive wheel set are
in engagement with the main nut.



-
- before the expiration of the time limit for amending the amendments (Rule 48.2(h))
claims and to be republished in the event of receipt of