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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
12 September 2013 (12.09.2013)

WIPO | PCT

(10) International Publication Number
WO 2013/134265 A1

(51) International Patent Classification:
E21B 17/01 (2006.01) *E21B 7/12* (2006.01)
E21B 17/07 (2006.01)

(21) International Application Number:
PCT/US2013/029127

(22) International Filing Date:
5 March 2013 (05.03.2013)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/606,834 5 March 2012 (05.03.2012) US
13/785,142 5 March 2013 (05.03.2013) US

(71) Applicant: **CAMERON INTERNATIONAL CORPORATION** [US/US]; 1333 West Loop South, Suite 1700, Houston, Texas 77027 (US).

(72) Inventors: **CAIN, David**; 4646 West Sam Houston Parkway, North, Houston, Texas 77041 (US). **PUCCIO, William F.**; 4646 West Sam Houston Parkway North, Houston, Texas 77041 (US). **CHOU, Shian Jiun**; 4646 West Sam Houston Parkway, North, Houston, Texas 77041 (US).

(74) Agent: **ROSE, Collin A.**; Chamberlain, Hrdlicka, White, Williams & Aughtry, 1200 Smith Street, 14th Floor, Houston, Texas 77002 (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, 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, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, 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, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: OFFSHORE SYSTEM WITH SUBSEA RISER

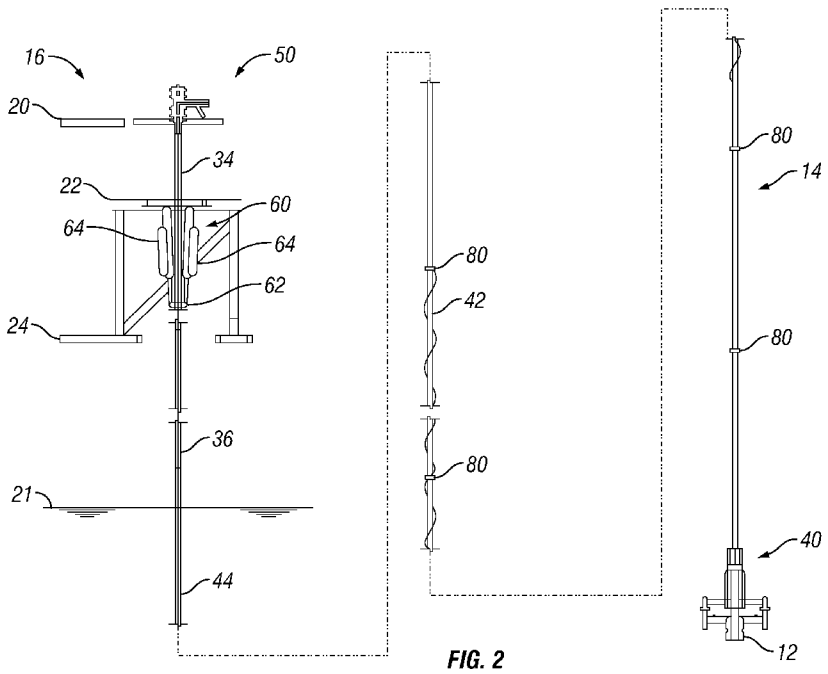

FIG. 2

(57) Abstract: An offshore system with a subsea riser, including a floating platform and a subsea riser made up of sections of pipe. A riser tension system compensates for movement of the platform while providing tension to the riser. At least two of the riser sections are connected with a connector such that a portion of the riser is able to be placed in compression without buckling.

WO 2013/134265 A1

Published:

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