



- (51) International Patent Classification:  
*E02B 17/08* (2006.01)
- (21) International Application Number:  
PCT/SG2013/000416
- (22) International Filing Date:  
24 September 2013 (24.09.2013)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
61/704,560 24 September 2012 (24.09.2012) US
- (71) Applicants: **KEPPEL OFFSHORE & MARINE TECHNOLOGY CENTRE PTE LTD** [SG/SG]; 50 Gul Road, Singapore 629351 (SG). **CONOCOPHILLIPS COMPANY** [US/US]; 600 North Dairy Ashford, Houston, Texas 77079-1175 (US).
- (72) Inventors: **FOO, Kok Seng**; c/o KEPPEL OFFSHORE & MARINE TECHNOLOGY CENTRE PTE LTD, 50 Gul Road, Singapore 629351 (SG). **PERRY, Michael John**; c/o KEPPEL OFFSHORE & MARINE TECHNOLOGY

CENTRE PTE LTD, 50 Gul Road, Singapore 629351 (SG). **WANG, Cynthia**; c/o KEPPEL OFFSHORE & MARINE TECHNOLOGY CENTRE PTE LTD, 50 Gul Road, Singapore 629351 (SG). **QUAH, Chin Kau, Matthew**; c/o KEPPEL OFFSHORE & MARINE TECHNOLOGY CENTRE PTE LTD, 50 Gul Road, Singapore 629351 (SG). **SHAFER, Randall Scott**; c/o CONOCOPHILLIPS COMPANY, 600 North Dairy Ashford, Houston, Texas 77079-1175 (US). **NOBLE, Peter**; c/o CONOCOPHILLIPS COMPANY, 600 North Dairy Ashford, Houston, Texas 77079-1175 (US).

(74) Agent: **PYPRUS PTE LTD**; 7500A Beach Road, #07-301, The Plaza, Singapore 199591 (SG).

(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, 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,

[Continued on next page]

(54) Title: ICE RESISTANT JACKUP LEG

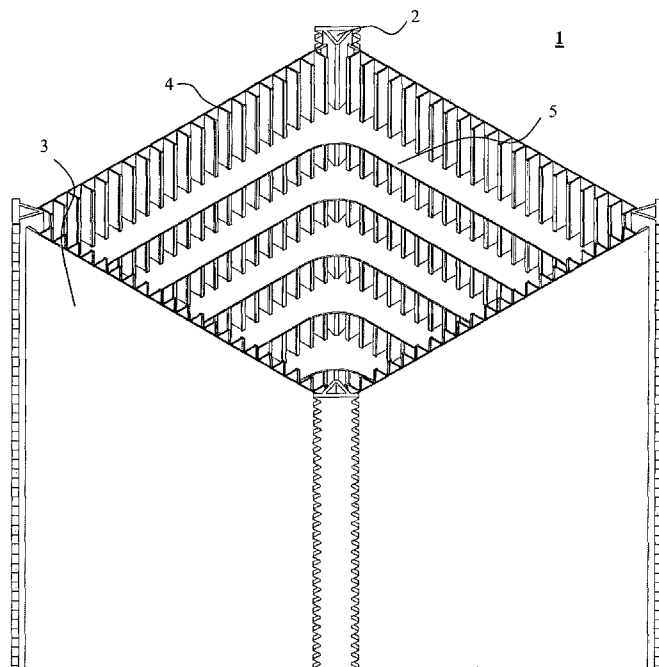


FIG 1

(57) Abstract: The present invention provides an the ice resistant Jackup leg that comprises a plurality of chords, a plurality of plate structures, wherein the chords and plate structures are alternatively positioned so that the plate structures connect the chords to form the peripheral structure of the ice resistant Jackup leg, a plurality of longitudinal stiffeners, wherein the longitudinal stiffeners are disposed onto the inner surface of the plate structures for stiffening the plate structures, and a plurality of traverse web frames or girders, wherein the traverse web frames or girders are disposed onto the inner surface of the plate structures for supporting the plurality of longitudinal stiffeners. The present invention also provides an ice resistant Jackup platform employing the ice resistant Jackup leg.



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.

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).

**(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,

**Published:**

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