

(51) International Patent Classification:
E21B 33/035 (2006.01)

(74) Agent: SWANSON, Tait R.; P.O. Box 692289, Houston, TX 77269-2289 (US).

(21) International Application Number: PCT/US2011/037998

(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.

(22) **International Filing Date:** 25 May 2011 (25.05.2011)

(25) **Filing Language:** English

(26) **Publication Language:** English

(30) Priority Data:
12/868,546 25 August 2010 (25.08.2010) US

(71) **Applicant** (for all designated States except US):
CAMERON INTERNATIONAL CORPORATION
 [US/US]; 1333 W Loop South, Suite 1700, Houston,
 Texas 77027 (US).

(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).

(72) Inventor: and

(75) **Inventor/Applicant** (for US only): **JUNE, David**
[US/US]; 14622 Carols Way, Houston, Texas 77070
(US).

[Continued on next page]

(54) Title: MODULAR SUBSEA COMPLETION

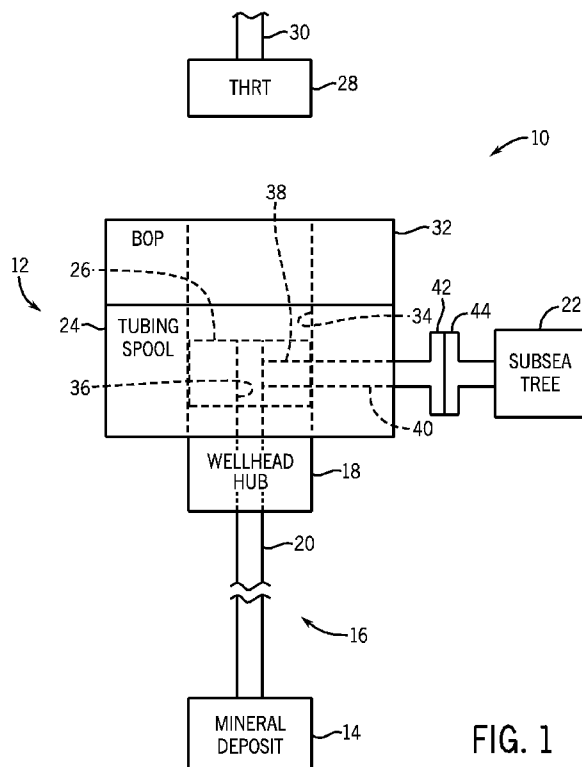


FIG. 1

(57) Abstract: A system, in certain embodiments, includes a subsea tree and a tubing spool including a longitudinal bore configured to receive a tubing hanger. The tubing spool also includes a lateral flow passage extending from the longitudinal bore and configured to transfer product to the subsea tree. The subsea tree includes multiple valves each coupled to a structure positioned radially outward from the tubing spool such that the subsea tree does not block a subsea intervention connection or blowout preventer (BOP) access to the longitudinal bore.

**Declarations under Rule 4.17:**

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

Published:

- *without international search report and to be republished upon receipt of that report (Rule 48.2(g))*