

(51) International Patent Classification:
E21B 17/07 (2006.01) *E21B 19/00* (2006.01)(21) International Application Number:
PCT/US2009/060247(22) International Filing Date:
9 October 2009 (09.10.2009)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/104,341 10 October 2008 (10.10.2008) US(71) Applicant (for all designated States except US):
CAMERON INTERNATIONAL CORPORATION
[US/US]; 1333 West Loop South, Suite 1700, Houston,
Texas 77027 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **HART, Brian**
[GB/GB]; 6 Cleveland Garth, Wakefield WF28LP (GB).(74) Agents: **ROSE, Collin, A.** et al.; **CONLEY ROSE, P.C.**,
600 Travis, Suite 7100, Houston, Texas 77002-2912
(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, 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, 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, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ,
TM), European (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, SE, SI, SK, SM,

[Continued on next page]

(54) Title: INTEGRATED INSTALLATION AND WORKOVER CONTROLL SYSTEM

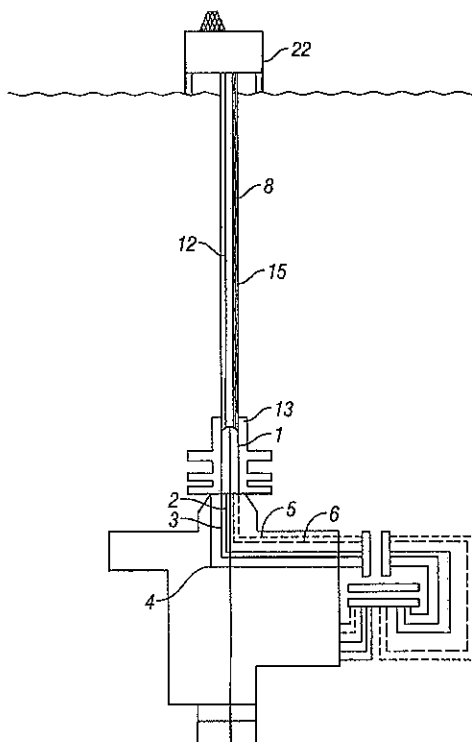


FIG. 1

(57) Abstract: A subsea production system for controlling fluid flow from a well. The system includes a subsea production tree and a drilling riser engageable with the well. The tree includes electrical and hydraulic lines to communicate with equipment in the tree and downhole in the well. The system also includes a tieback tool that can be installed in the tree through the drilling riser to establish communication with the tree electrical and hydraulic lines and permit access into the well bore. The system also includes an umbilical connectable with the tieback tool and extendable inside the drilling riser to the surface. The umbilical can be used to communicate the tieback tool. The umbilical can also be used to communicate with the tree and downhole equipment through the tieback tool connection with the tree.



TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, Published:
ML, MR, NE, SN, TD, TG).

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