

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶: E21B 15/04, 7/08, 43/01	A1	(11) International Publication Number: WO 99/24689 (43) International Publication Date: 20 May 1999 (20.05.99)
(21) International Application Number: PCT/US98/16645 (22) International Filing Date: 11 August 1998 (11.08.98) (30) Priority Data: 08/966,629 10 November 1997 (10.11.97) US (71) Applicant: MARATHON OIL COMPANY [US/US]; 539 South Main Street, Findlay, OH 45840 (US). (72) Inventor: COLLINS, Gary, J.; 2211 Landscape Way, Rich- mond, TX 77469 (US). (74) Agents: HUMMEL, Jack, L. et al.; Marathon Oil Company, P.O. Box 269, Littleton, CO 80160-0269 (US).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>

(54) Title: ASSEMBLY AND PROCESS FOR DRILLING AND COMPLETING MULTIPLE WELLS**(57) Abstract**

An apparatus (10) and process are provided for drilling and completing multiple subterranean wells from a template which is secured within a cased well bore extending to the surface. An orienting cam having a bore (20) therethrough is positioned above the template such that the bore through the orienting cam is automatically aligned with one of at least two bores through the template. Fluid tight seals are provided between the orienting cam and the casing and between the orienting cam and one of the at least two bores through the template. Thereafter, a drill string including a drill bit is lowered from the surface of the earth through the casing, the bore through the orienting cam and the one bore through said template to drill a first subterranean well bore.

