

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
13 March 2003 (13.03.2003)

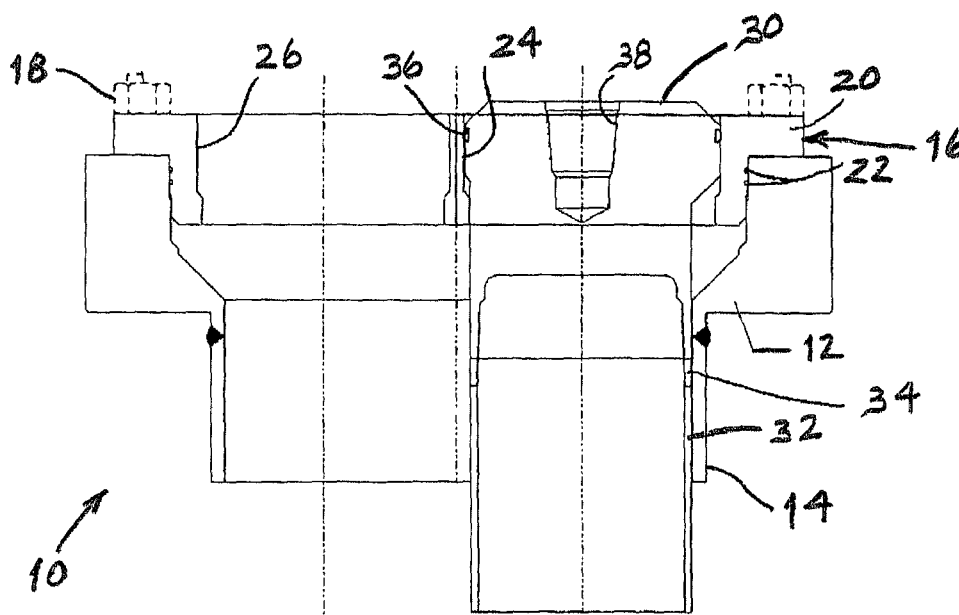
PCT

(10) International Publication Number
WO 03/021076 A1

- (51) International Patent Classification⁷: **E21B 33/04**, (74) Agent: **QUERY, Henry, C., Jr.**; 504 S. Pierce Avenue, Wheaton, IL 60187 (US).
33/047, 7/04
- (21) International Application Number: PCT/US02/27639 (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW.
- (22) International Filing Date: 29 August 2002 (29.08.2002)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/315,609 29 August 2001 (29.08.2001) US
60/317,749 6 September 2001 (06.09.2001) US
- (71) Applicant: **FMC TECHNOLOGIES, INC.** [US/US]; 200 E. Randolph Drive, Chicago, IL 60601 (US).
- (72) Inventor: **LIEW, Joseph, Shu, Yian**; 452 Corporation Road, Park Vista, Tower 2, #13-02, Singapore 649811 (SG).
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Declarations under Rule 4.17:**
— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for all designations*

[Continued on next page]

(54) Title: DRILLING ALIGNMENT SYSTEM



(57) Abstract: A method for drilling a plurality of well bores through a single conductor housing which comprises providing a base plate (16) which includes at least first (24) and second (26) well slots that extend therethrough, supporting the base plate on the conductor housing (14), suspending a temporary casing string (32) from the first well slot, drilling a first well bore through the second well slot, removing the temporary casing string from the first well slot, and then drilling a second well bore through the first well slot.



WO 03/021076 A1



— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for all designations*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— *with international search report*