(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
11 March 2004 (11.03.2004)

PCT

(10) International Publication Number
WO 2004/020782 A1

(51) International Patent Classification[7]: E21B 33/038

(21) International Application Number:
PCT/EP2003/009700

(22) International Filing Date:
1 September 2003 (01.09.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
202 13 393.1 30 August 2002 (30.08.2002) DE

(71) Applicant *(for all designated States except US)*: **COOPER CAMERON CORPORATION** [US/US]; 1333 West Loop South, Suite 1700, Houston, TX 77027-9109 (US).

(72) Inventor; and

(75) Inventor/Applicant *(for US only)*: **BIESTER, Klaus** [DE/DE]; Am Maschsee 2, 29342 Wienhausen (DE).

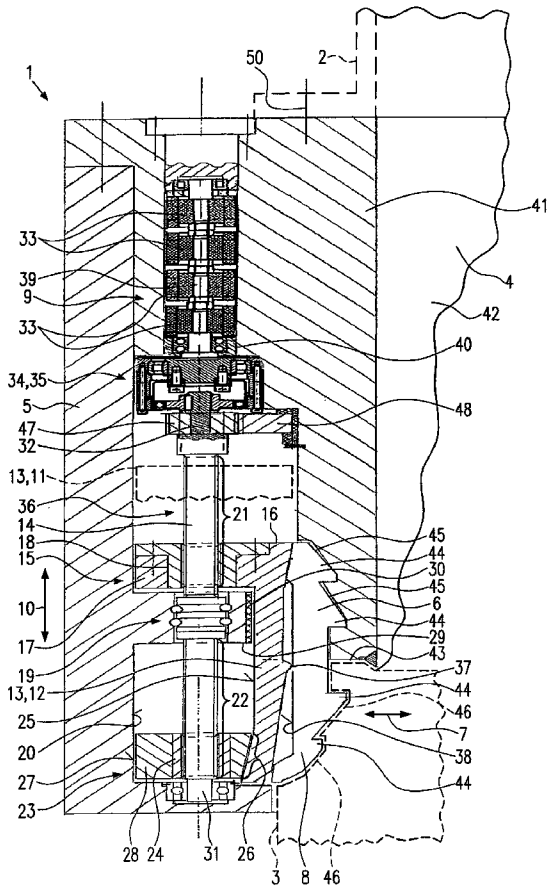
(74) Agent: **HILGERS, Hans**; Grünecker, Kinkeldey, Stockmair & Schwanhäusser, Maximilianstrasse 58, 80538 München (DE).

(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, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(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, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

*[Continued on next page]*

(54) Title: CONNECTION DEVICE




(57) Abstract: A connection device (1) for connecting a tubular member (2) to another member (3) comprises a clamp ring (6) which is arranged in an inner bore (4) of an outer housing (5) and includes a plurality of clamping fingers (8) which are deflectable essentially in radial direction (7) relative to the inner bore (4), and a deflecting bushing (13) which is displaceable by at least one driving means (9) in axial direction (10) of the inner bore between a stand-by position (11) and a deflecting position (12), by which deflecting bushing (13) in its deflecting position (12) the clamping fingers (8) are radially inwardly deflected. To permit an exactly reproducible displacement of the deflecting bushing by simple constructive measures and without high costs, which also permits a controlled fine setting, the driving means (9) comprises a rotatable, axially not displaceable spindle (14) along which the deflecting bushing (13) is movable.

WO 2004/020782 A1

**Published:**
— *with international search report*
— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

*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.*