

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
29 April 2004 (29.04.2004)

PCT

(10) International Publication Number
WO 2004/036105 A1

(51) International Patent Classification⁷: **F16L 37/62**

(21) International Application Number:
PCT/EP2003/011425

(22) International Filing Date: 15 October 2003 (15.10.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
MI2002 A 002196 16 October 2002 (16.10.2002) IT

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(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, EG, 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.

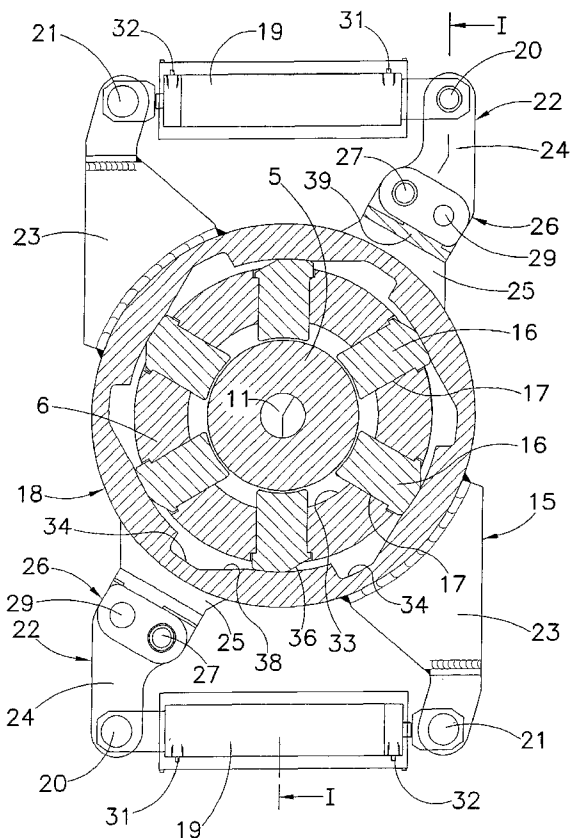
(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

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.

(54) Title: QUICK-COUPLING AND QUICK-RELEASE SAFETY CONNECTOR FOR PIPING



(57) **Abstract:** A connector for piping is described of the type comprising two tubular fitting parts (1, 2) and quick-coupling and quick release means (15) having a plurality of locking segments (16) circumferentially distributed in a plane perpendicular to the axis of said fitting parts (1, 2) and housed in radial slots (17) of an axial projecting portion (6) of a first fitting part (2) that, during the coupling stage, is superimposable to a corresponding projecting axial portion (5) of the second fitting part (1). A revolving ring (18) can be controlled to rotate in order to work on said locking segments (16) so as to push them into at least one radial seat (33) of said projecting portion (5) of the second part of joint (1) or to house them in its own radial seat (34), respectively for the coupling and the uncoupling of said fitting parts (1, 2). Two independently operable hydraulic cylinders (19) are arranged substantially at 180° from each other in the rotation plane of the revolving ring (18) and they react, each one, between a first lever (22) fastened to the first fitting part (2) and a second lever (23) fastened to the revolving ring (18). Said first lever (22) is made up of a radially more external part (24) and of a radially more internal part (25) that are connected with each other by an articulation (26) which is modifiable in order to be able to assume a first operating condition for the complete mutual locking of the two parts (24, 25) of the first lever (22) and a second operating condition of consent to the rotation of the radially more external part (24) of the first lever (22) in direction of approach to the second lever (23).