

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
12 September 2019 (12.09.2019)

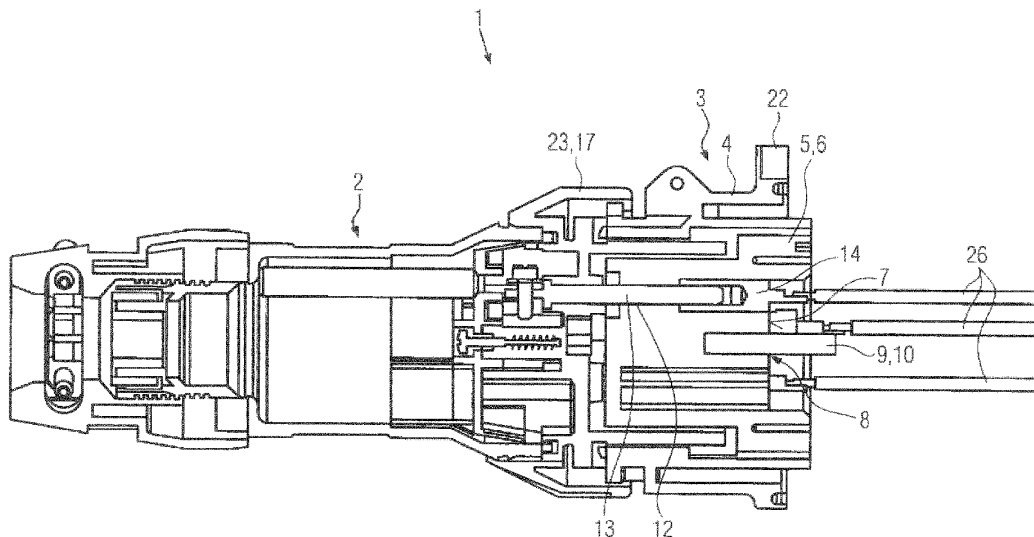


(10) International Publication Number
WO 2019/170294 A1

- (51) **International Patent Classification:**
H01R 13/71 (2006.01) *H01R 24/00* (2011.01)
- (21) **International Application Number:**
PCT/EP2019/025063
- (22) **International Filing Date:**
08 March 2019 (08.03.2019)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
10 2018 105 486.6
09 March 2018 (09.03.2018) DE
- (71) **Applicant: EATON INTELLIGENT POWER LIMITED** [IE/IE]; 30 Pembroke Road, Dublin, 4 (IE).
- (72) **Inventors: NAUMANN, Reiner;** In den Hopfengärten 14, 68239 Mannheim (DE). **WISCHGOLL, Lars;** Pestalozzistraße 9, 69412 Eberbach (DE).
- (74) **Agent: SACH, Greg Robert;** Sach & Associates, Siedlungsstrasse 4a, 85253 Erdweg (DE).
- (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, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, 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, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, 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, RS, SE, SI, SK, SM,

(54) **Title:** ELECTRICAL CONNECTOR

[FIG. 3]



(57) **Abstract:** The invention relates to an electrical connector (1) having a plug part (2) and a socket part (3), which socket part (3) has at least one outer housing (4) and an inner part (5) which can be rotated relative to said outer housing, wherein the inner part (5) can be rotated by means of a plug part (2) inserted into the socket part (3). Furthermore, the inner part (5) is designed as an adapter part (6) which has an adapter opening (8), on an outside (7) facing away from the plug part (2), for the rotationally fixed reception of a switching element (9) for connecting/disconnecting a load.

[Continued on next page]

WO 2019/170294 A1

TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
KM, 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))*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

Published:

- *with international search report (Art. 21(3))*