

Title (en)
ELECTRICAL PLUG CONNECTOR

Title (de)
ELEKTRISCHER STECKVERBINDER

Title (fr)
CONNECTEUR ÉLECTRIQUE MÂLE

Publication
EP 4010949 B1 20230830 (DE)

Application
EP 20758115 A 20200731

Priority
• AT 507012019 A 20190807
• EP 2020025351 W 20200731

Abstract (en)
[origin: WO2021023396A1] The invention relates to an electrical plug connector. Said electrical plug connector has a housing (1) in which at least one insertion opening (2, 3) and at least one guide (31) for a complementary plug connector (5, 10) with at least one electrical contact pin (8, 9, 101) are arranged. At least one contact element (13, 14) which can be elastically deflected out of the path of the contact pin (8, 9, 101) is secured in the housing (1) and projects at least partially into the insertion opening when the complementary plug connector is absent. The side edge (132, 142) of the contact element (13, 14), which side edge faces the contact pin (8, 9), forms in its front section (133, 143) an acute angle with the path of the contact pin (8, 9) during insertion as seen in the direction of the deflection of the contact element (13, 14). When the cable plug connector (5) is fully inserted, a planar contact section (134, 144) of the contact element (13, 14) is in contact with the contact pin (8, 9) in a manner adjoining the side edge (132, 142) in the transverse direction.

IPC 8 full level
H01R 13/05 (2006.01); **H01R 24/58** (2011.01); **H01R 13/26** (2006.01); **H01R 27/00** (2006.01); **H01R 103/00** (2006.01)

CPC (source: AT CN EP KR US)
H01R 4/48 (2013.01 - AT KR US); **H01R 13/02** (2013.01 - CN); **H01R 13/05** (2013.01 - EP KR US); **H01R 13/111** (2013.01 - AT KR US); **H01R 13/17** (2013.01 - US); **H01R 13/40** (2013.01 - CN US); **H01R 13/631** (2013.01 - AT KR US); **H01R 24/58** (2013.01 - EP KR US); **H01R 13/02** (2013.01 - US); **H01R 13/04** (2013.01 - US); **H01R 13/052** (2013.01 - US); **H01R 13/08** (2013.01 - US); **H01R 13/15** (2013.01 - US); **H01R 13/26** (2013.01 - EP KR US); **H01R 24/38** (2013.01 - AT KR US); **H01R 24/60** (2013.01 - AT KR US); **H01R 27/00** (2013.01 - AT EP KR US); **H01R 2103/00** (2013.01 - EP KR US)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2021023396 A1 20210211; AT 522822 A1 20210215; AT 522822 B1 20211215; AU 2020325929 A1 20220324; BR 112022000221 A2 20220222; CA 3148485 A1 20210211; CN 114207950 A 20220318; CN 114207950 B 20231229; EP 4010949 A1 20220615; EP 4010949 B1 20230830; JP 2022544473 A 20221019; JP 7300058 B2 20230628; KR 20220025047 A 20220303; MX 2022000610 A 20220311; US 2022399667 A1 20221215

DOCDB simple family (application)
EP 2020025351 W 20200731; AT 507012019 A 20190807; AU 2020325929 A 20200731; BR 112022000221 A 20200731; CA 3148485 A 20200731; CN 202080056176 A 20200731; EP 20758115 A 20200731; JP 2022507532 A 20200731; KR 20227003140 A 20200731; MX 2022000610 A 20200731; US 202017628480 A 20200731