

Title (en)
ELECTRICAL PLUG CONNECTION

Title (de)
ELEKTRISCHE STECKVERBINDUNG

Title (fr)
SYSTÈME DE CONNEXION ÉLECTRIQUE

Publication
EP 3408898 B1 20211201 (DE)

Application
EP 17700990 A 20170123

Priority
• DE 102016201391 A 20160129
• EP 2017051264 W 20170123

Abstract (en)
[origin: WO2017129500A1] The invention relates to an electrical plug connection (10) comprising a plug (12), which has a housing (20), which has a plurality of electrical plug contacts (16); and a plugging module (14), which has a plurality of complementary plug contacts (18), which electrically contact the electrical plug contacts (16) when the plug (12) is completely pushed onto the plugging module (14); wherein the plug (12) comprises a slide element (26), which is movably fastened to the housing (20) and which is designed to engage in the plugging module (14) in such a way that, when the slide element (26) moves in relation to the housing (12), a force is transferred from the slide element (26) to the plugging module (14) such that the plug (12) and the plugging module (14) are moved toward each other in a plugging direction (R) or away from each other against the plugging direction (R); and a lever (28), which is mounted on the housing (20) for rotation, for rotating a gear (50); a first gear rack segment (54a) and a second gear rack segment (54b), which are both provided by the slide element (26) and in which the gear (50) engages such that, when the lever (28) moves in one direction, the gear (50) meshes with the first gear rack segment (54a) and the slide element (26) moves in a first direction of motion (S1) and the gear (50) subsequently meshes with the second gear rack segment (54b) and the slide element (26) moves in a second direction of motion (S2) opposite the first direction of motion (S1).

IPC 8 full level
H01R 13/629 (2006.01); **H01R 107/00** (2006.01)

CPC (source: EP US)
H01R 13/62911 (2013.01 - US); **H01R 13/62944** (2013.01 - EP US); **H01R 13/62977** (2013.01 - EP US); **H01R 2107/00** (2013.01 - EP US); **H01R 2201/26** (2013.01 - EP 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)
DE 102016201391 B3 20170803; CN 108496283 A 20180904; CN 108496283 B 20200110; EP 3408898 A1 20181205; EP 3408898 B1 20211201; JP 2019503574 A 20190207; JP 6632732 B2 20200122; US 10446980 B2 20191015; US 2019036273 A1 20190131; WO 2017129500 A1 20170803

DOCDB simple family (application)
DE 102016201391 A 20160129; CN 201780008888 A 20170123; EP 17700990 A 20170123; EP 2017051264 W 20170123; JP 2018539339 A 20170123; US 201716072959 A 20170123