

Title (en)
ELECTRICAL CONNECTION

Title (de)
ELEKTRISCHE STECKVERBINDUNG

Title (fr)
CONNEXION ÉLECTRIQUE

Publication
EP 3472902 B1 20191106 (DE)

Application
EP 17778205 A 20170915

Priority
• DE 102016120063 A 20161020
• EP 2017073247 W 20170915

Abstract (en)
[origin: WO2018072940A1] The invention relates to a plug-in connection (1), comprising a first electrical connector (2) and a second electrical connector (3), which can be plugged together in order to establish a mechanical and electrical connection. In order to support the connection of the electrical connectors (2, 3), an additional connecting device (5) is arranged on a housing (2.1) of the first electrical connector (2). The connecting device (5) has at least one first slotted-guide part (6), and a housing (3.1) of the second electrical connector (3) has at least one second slotted-guide part (7), which together form a slotted guide. The two slotted-guide parts (6, 7) of the slotted guide are arranged and designed in such a way that the two slotted-guide parts (6, 7) assume a first position relative to each other when the electrical connectors (2, 3) are plugged together into a preliminary latching position. The connecting device (5) is connected to the housing (2.1) of the first electrical connector (2) by means of at least one guide (9). The electrical connectors (2, 3) are mechanically coupled by means of the guide (9) and the slotted guide in such a way that the electrical connectors (2, 3) are plugged together into a final position when the two slotted-guide parts (6, 7) are in a second position relative to each other. The connecting device (5) can be slid with the first slotted-guide part (6) relative to the housing (2.1) of the first electrical connector (2) along the guide (9) from an unlocking position into a locking position in order to slide the two slotted-guide parts (6, 7) into the second position.

IPC 8 full level
H01R 13/629 (2006.01)

CPC (source: EP KR US)
H01R 13/6271 (2013.01 - US); **H01R 13/62911** (2013.01 - EP KR US); **H01R 13/62927** (2013.01 - EP KR US); **H01R 13/631** (2013.01 - 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 102016120063 A1 20180426; **DE 102016120063 B4 20180719**; CN 109863649 A 20190607; CN 109863649 B 20211203; EP 3472902 A1 20190424; EP 3472902 B1 20191106; JP 2019532479 A 20191107; JP 7036816 B2 20220315; KR 102394692 B1 20220506; KR 20190064576 A 20190610; US 10181678 B2 20190115; US 2018309235 A1 20181025; WO 2018072940 A1 20180426

DOCDB simple family (application)
DE 102016120063 A 20161020; CN 201780064187 A 20170915; EP 17778205 A 20170915; EP 2017073247 W 20170915; JP 2019521133 A 20170915; KR 20197008542 A 20170915; US 201715775615 A 20170915