

Title (en)
ELECTRICAL CONNECTOR AND PLUG-IN CONNECTION, HIGH VOLTAGE SYSTEM AND METHOD FOR LOCKING AN ELECTRICAL PLUG-IN CONNECTION

Title (de)
ELEKTRISCHER STECKVERBINDER UND STECKVERBINDUNG, HOCHVOLTSYSTEM UND VERFAHREN ZUM VERRIEGELN EINER ELEKTRISCHEN STECKVERBINDUNG

Title (fr)
CONNECTEUR ÉLECTRIQUE ENFICHABLE ET CONNEXION ENFICHABLE, SYSTÈME HAUTE TENSION ET PROCÉDÉ DE VERROUILLAGE D'UNE CONNEXION ÉLECTRIQUE ENFICHABLE

Publication
EP 3847724 A1 20210714 (DE)

Application
EP 19762792 A 20190903

Priority
• DE 102018121399 A 20180903
• EP 2019073443 W 20190903

Abstract (en)
[origin: WO2020048964A1] The invention relates to an electrical connector (2), comprising a connector housing (5), a securing element (41) and an actuating element (4) which can be moved between a home position (P0) and a locking position (P1) and which is designed to lock the electrical connector (2) with a corresponding electrical counterpart connector (3). The connector housing (5) has a locking guide (40) for guiding the securing element (41) between an initial position (S0) and a securing position (S1). In the securing position (S1), the securing element (41) is engaged with the actuating element (4) in such a manner that the actuating element (4) is locked in the locking position (P1). The securing element (41) has at least one latching tab (42) and the locking guide (40) has at least one first stop (44) for the at least one latching tab (42) for blocking the securing element (41) initially in the initial position (S0) in the direction towards the securing position (S1), wherein the actuating element (4) has at least one releasing body (45) which is designed to penetrate into a recess (46) in the locking guide (40) and to displace the at least one latching tab (42) of the securing element (41) relative to the at least one first stop (44) of the locking guide (40), to release the displacement path of the securing element (41), proceeding from the initial position (S0) into the securing position (S1).

IPC 8 full level
H01R 13/629 (2006.01)

CPC (source: EP US)
H01R 13/62938 (2013.01 - EP US); **H01R 13/62955** (2013.01 - EP US); **H01R 13/639** (2013.01 - US); **H01R 2201/26** (2013.01 - US)

Citation (search report)
See references of WO 2020048964A1

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
DE 102018121399 A1 20200305; CN 112673531 A 20210416; EP 3847724 A1 20210714; US 11688976 B2 20230627; US 2021296820 A1 20210923; WO 2020048964 A1 20200312

DOCDB simple family (application)
DE 102018121399 A 20180903; CN 201980057616 A 20190903; EP 19762792 A 20190903; EP 2019073443 W 20190903; US 201917271949 A 20190903