

Title (en)

PLUG CONNECTOR HAVING A SECONDARY LOCK FOR AN ELECTRIC PLUG CONNECTION

Title (de)

STECKER MIT SEKUNDÄRVERRIEGELUNG FÜR EINE ELEKTRISCHE STECKVERBINDUNG

Title (fr)

CONNECTEUR MÂLE AVEC VERROUILLAGE SECONDAIRE POUR UNE CONNEXION ÉLECTRIQUE ENFICHABLE

Publication

EP 2054973 A1 20090506 (DE)

Application

EP 07787151 A 20070706

Priority

- EP 2007056868 W 20070706
- DE 102006038535 A 20060817

Abstract (en)

[origin: WO2008019911A1] A plug connector (2) for an electric plug connection (1) comprising a contact chamber housing (12) having multiple contact chambers (14), each for receiving a contact body (15), which can be inserted into the contact chamber (14) and is primarily locked in its end position within the contact chamber housing (12), and a secondary locking element (3) that is guided transversally to the insertion direction of the contact body (15) in a movable manner, each secondary locking element protruding laterally into the contact chambers (14) in its locking position by means of a locking projection (11), in order to form the secondary lock of the contact body (15) primarily locked therein. According to the invention, the contact chamber housing (12) is divided into multiple contact chamber housing sections (12a-12c) by means of one or multiple parallel dividing gaps (17), each having at least one row of contact chambers (14), which are each open towards a dividing gap (17), or towards an outer face (19) of the contact chamber housing (12) that runs parallel to said gap, the secondary locking element (3) is a frame divided into compartments (9) by means of one or multiple parallel dividing walls (8), said dividing walls (8) engaging in the dividing gaps (17) when the secondary locking element (3) is plugged into the contact chamber housing (12), thereby sealing the laterally open contact chambers (14), and the secondary locking element (3) plugged into the contact chamber housing (12) is movably guided on the contact chamber housing (12) lateral to the insertion direction of the contact body (15) into the locking position.

IPC 8 full level

H01R 13/436 (2006.01)

CPC (source: EP US)

H01R 13/4362 (2013.01 - EP US); **H01R 13/4364** (2013.01 - EP US); **H01R 13/64** (2013.01 - EP US)

Citation (search report)

See references of WO 2008019911A1

Designated contracting state (EPC)

DE FR GB

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

DE 102006038535 A1 20080221; EP 2054973 A1 20090506; EP 2054973 B1 20120222; JP 2009545857 A 20091224; JP 4646268 B2 20110309; US 2009318022 A1 20091224; US 7749023 B2 20100706; WO 2008019911 A1 20080221

DOCDB simple family (application)

DE 102006038535 A 20060817; EP 07787151 A 20070706; EP 2007056868 W 20070706; JP 2009523223 A 20070706; US 22761607 A 20070706