

Title (en)

METHOD FOR CONNECTING PARTS OF AN ELECTRICAL CONNECTOR AND ELECTRICAL CONNECTOR

Title (de)

VERFAHREN ZUM VERBINDEN VON STECKERTEILEN EINES ELEKTRISCHEN STECKVERBINDERS SOWIE ELEKTRISCHER STECKVERBINDER

Title (fr)

PROCÉDÉ DE CONNEXION DES ÉLÉMENTS D'UN CONNECTEUR ÉLECTRIQUE ET CONNECTEUR ÉLECTRIQUE

Publication

EP 2577810 A1 20130410 (DE)

Application

EP 11767261 A 20111011

Priority

- DE 102010042345 A 20101012
- EP 2011067715 W 20111011

Abstract (en)

[origin: CA2812619A1] The invention relates to a method for connecting plug parts (2, 7) of an electrical plug-in connector (1), in which a hollow cylindrical coupling sleeve (10) is arranged so as to be movable relative to the first plug part (2) in the axial direction, said coupling sleeve (10) being maintained in a first, preloaded position by a preloading spring (11, 12, 13) and the relative axial movement being performed against the spring force, and a spring element (8, 9, 20) arranged on the second plug part (7) is pressed radially outward in an intermediate connection state when the plug parts (2, 7) are connected, the coupling sleeve (10) is slid axially backward from the first position by the spring element (8, 9, 20) when the plug parts (2, 7) are further moved together in the axial direction, and the spring element (8, 9, 20) snaps radially inward into a depression and the rearward sliding movement of the coupling sleeve (10) caused by the spring element (8, 9, 20) stops when the plug parts (2, 7) are yet further moved together, and the coupling sleeve (10) is automatically returned to the first position by the preloading spring (11, 12, 13), the spring element (8, 9, 20) being inserted into a first free space (38) between an outer face (5) of the first plug part (2) and an inner face (17) of the coupling sleeve (10) before contacting the coupling sleeve (10) in order for the spring element (8, 9, 20) to axially move the coupling sleeve (10). The invention also relates to an electrical plug-in connector (1).

IPC 8 full level

H01R 13/639 (2006.01); **H01R 13/642** (2006.01)

CPC (source: EP US)

H01R 13/506 (2013.01 - US); **H01R 13/6275** (2013.01 - EP US); **H01R 43/00** (2013.01 - US); **H01R 43/26** (2013.01 - EP US); **H01R 13/639** (2013.01 - EP US); **H01R 13/642** (2013.01 - EP US); **Y10T 29/49208** (2015.01 - EP US)

Citation (search report)

See references of WO 2012049168A1

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 102010042345 A1 20120412; CA 2812619 A1 20120419; CA 2812619 C 20180102; EP 2577810 A1 20130410; EP 2577810 B1 20131211; HK 1177330 A1 20130816; US 2013196554 A1 20130801; US 8944839 B2 20150203; WO 2012049168 A1 20120419

DOCDB simple family (application)

DE 102010042345 A 20101012; CA 2812619 A 20111011; EP 11767261 A 20111011; EP 2011067715 W 20111011; HK 13104460 A 20130412; US 201113878939 A 20111011