

Title (en)

ELECTRICAL PLUG-IN CONNECTOR AND METHOD FOR MOUNTING SAME

Title (de)

ELEKTRISCHER STECKVERBINDER UND VERFAHREN ZU DESSEN MONTAGE

Title (fr)

CONNECTEUR ÉLECTRIQUE ENFICHABLE ET PROCÉDÉ DE MONTAGE DE CELUI-CI

Publication

**EP 3405997 B1 20211117 (DE)**

Application

**EP 17700682 A 20170118**

Priority

- DE 102016100755 A 20160118
- EP 2017050996 W 20170118

Abstract (en)

[origin: WO2017125441A1] The invention relates to an electrical plug-in connector and to a method for mounting an electrical plug-in connector which can be connected to one end of an electrical line or of a cable and comprises a contact carrier plus at least one contact element which is inserted in the contact carrier parallel to a longitudinal axis and held thereby in a supported manner, wherein a rear end of the contact element has a clamping spring, and a housing part, which is to be mounted on the contact carrier, has an inner surface which at least partially surrounds the clamping spring after a mounting operation, wherein an, in particular elongate, contact opener is arranged between said inner surface and the clamping spring, which contact opener is assigned to the clamping spring and is held so as to be movable between a first and a second position, and wherein this inner surface forms a region in which at least part of the contact opener is received in order, in the first position thereof, to release the clamping spring.

IPC 8 full level

**H01R 4/48** (2006.01); **H01R 9/24** (2006.01); **H01R 13/436** (2006.01)

CPC (source: EP)

**H01R 4/4816** (2023.08); **H01R 9/2491** (2013.01); **H01R 13/4367** (2013.01); **H01R 4/4833** (2023.08)

Citation (examination)

- DE 20205805 U1 20030327 - BALS ELEKTROTECHNIK GMBH & CO KG [DE]
- WO 9953572 A1 19991021 - BALS ELEKTROTECHNIK GMBH & CO KG [DE], et al
- DE 19823648 C1 19991104 - METZ ALBERT RIA ELECTRONIC [DE]
- DE 102008060282 A1 20100610 - TYCO ELECTRONICS AMP GMBH [DE]
- EP 2442403 B1 20140611 - BALS ELEKTROTECHNIK GMBH & CO KG [DE]

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 102016100755 A1 20170720**; CY 1124962 T1 20230105; DK 3405997 T3 20220124; EP 3405997 A1 20181128; EP 3405997 B1 20211117; ES 2905669 T3 20220411; HR P20220016 T1 20220401; HU E057522 T2 20220528; LT 3405997 T 20220110; PL 3405997 T3 20220404; PT 3405997 T 20220118; SI 3405997 T1 20220429; WO 2017125441 A1 20170727

DOCDB simple family (application)

**DE 102016100755 A 20160118**; CY 221100034 T 20220114; DK 17700682 T 20170118; EP 17700682 A 20170118; EP 2017050996 W 20170118; ES 17700682 T 20170118; HR P20220016 T 20170118; HU E17700682 A 20170118; LT EP2017050996 T 20170118; PL 17700682 T 20170118; PT 17700682 T 20170118; SI 201731077 T 20170118