

Title (en)

SYSTEM OF A PLURALITY OF ELECTRICAL CONNECTOR MODULES AND AN ELECTRICALLY CONDUCTIVE HOLDING FRAME

Title (de)

SYSTEM AUS MEHREREN ELEKTRISCHEN STECKVERBINDERMODULEN UND EINEM ELEKTRISCH LEITFÄHIGEN HALTERAHMEN

Title (fr)

SYSTÈME COMPRENANT UNE PLURALITÉ DE MODULES DE CONNECTEUR ÉLECTRIQUE ET UN CADRE DE SUPPORT ÉLECTRIQUEMENT CONDUCTEUR

Publication

EP 3031103 B1 20190626 (DE)

Application

EP 14758284 A 20140725

Priority

- DE 102013108383 A 20130805
- DE 2014100271 W 20140725

Abstract (en)

[origin: WO2015018394A1] The invention relates to an electrical plug connector module (1) for forming a modular plug connector, alone or in combination with additional plug connector modules. Depending on the version, the electrical plug connector module (1) can be inserted directly into a plug connector housing or received in a support frame (7), having additional modules fastened in a plug connector housing. The electrical plug connector module (1) has an electrical contact means (4) which is electrically conductively connected in the interior of the electrical plug connector module (1) to an electrical contact (8) received therein. The electrical contact means (4), guided on the outside of the electrical plug connector module (1), additionally contacts the support frame (7) or the plug connector housing in which the electrical plug connector module (1) is inserted, via a spring region (11).

IPC 8 full level

H01R 13/518 (2006.01); **H01R 13/514** (2006.01); **H01R 13/6597** (2011.01)

CPC (source: EP RU US)

H01R 4/48 (2013.01 - EP US); **H01R 11/01** (2013.01 - EP US); **H01R 13/514** (2013.01 - EP RU US); **H01R 13/518** (2013.01 - EP US); **H01R 13/6597** (2013.01 - EP US)

Citation (opposition)

Opponent : Phoenix Contact GmbH & Co. KG

- DE 102010022690 A1 20111208 - HARTING ELECTRIC GMBH & CO KG [DE]
- DE 202005012756 U1 20051027 - HUMMEL ANTON VERWALTUNG [DE]
- US 2007249192 A1 20071025 - TSURUMI MASAHIKO [JP]
- EP 0475416 A1 19920318 - HIROSE ELECTRIC CO LTD [JP]
- US 2002025719 A1 20020228 - DINGENOTTO MEINOLF [DE], et al
- DE 19707120 C1 19980625 - HARTING KGAA [DE]
- US 2001002343 A1 20010531 - SUZUKI AKIO [JP]
- US 2008020645 A1 20080124 - FUERST ROBERT M [US], et al
- DE 69413524 T2 19990211 - MINNESOTA MINING & MFG [US]
- DE 29812500 U1 19980910 - ILME SPA [IT]
- DE 202011050643 U1 20110819 - HARTING ELECTRIC GMBH & CO KG [DE]
- DE 29508095 U1 19950720 - HTS ELEKTROTECH GMBH & CO KG [DE]

Cited by

WO2024061406A1

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 102013108383 A1 20150205; **DE 102013108383 B4 20180802**; **DE 102013108383 C5 20230427**; CN 105453344 A 20160330; CN 105453344 B 20180320; EP 3031103 A1 20160615; EP 3031103 B1 20190626; RU 2016106332 A 20170914; RU 2633388 C2 20171012; US 10559911 B2 20200211; US 2016336677 A1 20161117; WO 2015018394 A1 20150212

DOCDB simple family (application)

DE 102013108383 A 20130805; CN 201480044556 A 20140725; DE 2014100271 W 20140725; EP 14758284 A 20140725; RU 2016106332 A 20140725; US 201414903048 A 20140725