

Title (en)
Connection for electrical power cables

Title (de)
Verbinder für elektrische Energiekabel

Title (fr)
Connection électrique pour des câbles de courant

Publication
EP 2940803 A1 20151104 (DE)

Application
EP 14305634 A 20140428

Priority
EP 14305634 A 20140428

Abstract (en)
[origin: WO2015165720A1] A connector (1) for two electrical power cables is provided. The connector (1) has a plug (2) and a socket (3), which can each be firmly connected to a conductor of the cables and are suitable for establishing a breakable electrical contact between the conductors. The socket (3) has a longitudinally extending recess (12) and the plug (2) has a longitudinally protruding stud (11), which can be inserted into the recess (12). The recess (12) and the stud (11) have frustoconical forms that are identical to one another, and so the stud (11) can be secured in a working position in the recess (12) by self-locking. The connector (1) also has a pin (15, 18) as a locking means, which additionally keeps the connector (1) in the working position, wherein the pin (15, 18) is arranged such that its axis is at right angles to a connecting axis (10) of the connector (1) and interacts with a depression (17, 20) running around the diameter of the stud (11).

Abstract (de)
Es wird Verbinder (1) für zwei elektrische Energiekabel angegeben. Der Verbinder (1) weist einen Stecker (2) und eine Buchse (3) auf, welche jeweils fest mit einem Leiter der Kabel verbindbar und geeignet sind, einen lösbaren elektrischen Kontakt zwischen den Leitern herzustellen. Die Buchse (3) weist eine in Längsrichtung verlaufende Aushöhlung (12) und der Stecker (2) einen in Längsrichtung abstehenden Bolzen (11), der in die Aushöhlung (12) einsteckbar ist, auf. Die Aushöhlung (12) und der Bolzen (11) haben zueinander identische Kegelstumpfformen, sodaß der Bolzen (11) in der Aushöhlung (12) durch Selbsthemmung in einer Arbeitsstellung feststellbar ist.

IPC 8 full level
H01R 13/05 (2006.01); **H01R 13/11** (2006.01)

CPC (source: CN EP US)
H01R 13/052 (2013.01 - CN EP US); **H01R 13/111** (2013.01 - CN EP US); **H01R 13/621** (2013.01 - EP US); **H01R 13/621** (2013.01 - CN); **H01R 13/627** (2013.01 - CN EP US); **H01R 2101/00** (2013.01 - CN EP US)

Citation (search report)

- [XYI] US 3372476 A 19680312 - RICHARD PEIFFER HOWARD, et al
- [X] US 2308811 A 19430119 - JACKSON HONEL A
- [X] DE 102010045921 A1 20120322 - AUTO KABEL MAN GMBH [DE]
- [Y] US 2009156057 A1 20090618 - STRICKLAND JR CARL CRAIG [US]

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)
EP 2940803 A1 20151104; **EP 2940803 B1 20190904**; AU 2015252346 A1 20161103; AU 2015252346 B2 20190829; BR 112016024330 A2 20170815; CN 106463866 A 20170222; CN 113300136 A 20210824; US 10431919 B2 20191001; US 2017054236 A1 20170223; WO 2015165720 A1 20151105

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EP 14305634 A 20140428; AU 2015252346 A 20150410; BR 112016024330 A 20150410; CN 201580023282 A 20150410; CN 202110571152 A 20150410; EP 2015057882 W 20150410; US 201515307677 A 20150410