

Title (en)
Electrical contact with cutting edge

Title (de)
Elektrische Kontaktierung mit Schneidkante

Title (fr)
Mise en contact électrique avec arête de coupe

Publication
EP 2696439 A3 20150401 (DE)

Application
EP 13177745 A 20130724

Priority
DE 102012214121 A 20120809

Abstract (en)
[origin: EP2696439A2] The contact i.e. insertion pin (10), has two contact cutting edges (26) formed within a contact region (19) for representation of a four-point contact and a diagonal contact with a circular aperture of a printed circuit board. A clearance i.e. needle eye (18), is formed between spring legs (14, 16). The contact cutting edges are arranged at an outer side of the spring legs in a central position and extend through the contact region in an axial direction of the pin. The circular aperture comprises a copper ring or a copper sleeve. The spring legs comprise a rectangular cross section area.

IPC 8 full level
H01R 12/58 (2011.01)

CPC (source: EP)
H01R 12/585 (2013.01)

Citation (search report)

- [X] US 2006264076 A1 20061123 - CHEN PING [US]
- [X] DE 102010033079 A1 20120202 - SORIG LUDGER [DE]
- [X] US 2006813 A 19350702 - POWERS FREDERIC B
- [X] JP 2005222821 A 20050818 - AUTO NETWORK GIJUTSU KENKYUSHO, et al
- [X] JP S58165282 A 19830930 - ERUKO INTERNATIONAL KK
- [X] US 4737114 A 19880412 - YAEGASHI HIROKATSU [JP]
- [X] EP 1531522 A1 20050518 - NEUMANN-HENNEBERG WOLF [DE]
- [X] US 2005090155 A1 20050428 - BLOSSFELD MIKE [US]
- [X] DE 9212395 U1 19921119
- [X] US 2012052695 A1 20120301 - JEON MYOUNGSOO [US], et al
- [A] US 5944563 A 19990831 - NAGAFUJI TOSHIAKI [JP]
- [A] US 6483041 B1 20021119 - DOWNES STUART D [US]

Cited by
WO2016058830A1

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 2696439 A2 20140212; EP 2696439 A3 20150401; EP 2696439 B1 20190320; DE 102012214121 A1 20140213

DOCDB simple family (application)
EP 13177745 A 20130724; DE 102012214121 A 20120809