

Title (en)

Electrical connector

Title (de)

Elektrischer Steckverbinder

Title (fr)

Connecteur électrique

Publication

EP 2835877 A1 20150211 (EN)

Application

EP 13179810 A 20130809

Priority

EP 13179810 A 20130809

Abstract (en)

The present invention relates to multi-contact connectors with an improved sealing arrangement that can provide reliable sealing against environmental influences, even for very thin cables and densely arranged contacts, and a corresponding manufacturing method. The sealing arrangement includes a block seal with a plurality of relatively large openings for receiving the contacts and the corresponding cables. Prior to inserting the contacts into a housing of the connector and through the respective openings in the block seal, each contact is individually fitted with a cable seal. Each cable seal has a through hole into which the cable is inserted and an outer shape that fits tightly into the respective opening of the block seal. Using such a combination of two sealing components facilitates the use of small insulation diameter cables with existing contacts and housings, thereby maintaining maximum contact pitch density.

IPC 8 full level

H01R 13/52 (2006.01)

CPC (source: EP)

H01R 13/5208 (2013.01)

Citation (applicant)

- US 5628656 A 19970513 - MACIOCE LAWRENCE [US], et al
- US 2006189191 A1 20060824 - DRESCHER THOMAS [DE], et al
- EP 0599329 A2 19940601 - SUMITOMO WIRING SYSTEMS [JP]

Citation (search report)

- [X1] EP 2463964 A1 20120613 - DELPHI TECH INC [US]
- [X1] EP 2337161 A1 20110622 - BOSCH GMBH ROBERT [DE]
- [X1] US 2011086545 A1 20110414 - ISHIDA KEIKO [JP]
- [X1] WO 2004025787 A1 20040325 - FRAMATOME CONNECTORS INT [FR], et al
- [X1] EP 1536527 A1 20050601 - SUMITOMO WIRING SYSTEMS [JP]

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CN110303997A

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)

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