

## Title (en)

Electrical connection with a connector and an cable attached thereto

## Title (de)

Steckverbindung mit einem Steckverbinder und einem daran angeschlossenen Kabel

## Title (fr)

Connection électrique avec connecteur à fiche et un câble raccordé à celui-ci

## Publication

**EP 2109194 B1 20180613 (DE)**

## Application

**EP 09154894 A 20090311**

## Priority

DE 102008018403 A 20080410

## Abstract (en)

[origin: EP2109194A2] The plug connector (6) has a cable (1) connected to the connector, and a conductor (2) insulated by a surrounding cladding (3). The conductor is partially enclosed by a cable shield (4), and is connected to a contact holder (7) of the connector. The cable shield is conductively connected with the connector. An extruded shield element e.g. circumference closed shield sleeve (10), is made of electrical conductive plastic e.g. electrical conductive polymer or plastic/metal hydride material, and is conductively connected with the cable shield. An independent claim is also included for a method for producing a plug connection.

## IPC 8 full level

**H01R 13/622** (2006.01); **H01R 9/03** (2006.01); **H01R 13/658** (2011.01); **H01R 13/6599** (2011.01); **H01R 43/24** (2006.01)

## CPC (source: EP)

**H01R 13/65912** (2020.08); **H01R 13/6599** (2013.01); **H01R 43/24** (2013.01); **H01R 13/622** (2013.01)

## Citation (opposition)

Opponent : PHOENIX CONTACT GmbH & Co. KG

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- DE 19613228 A1 19971009 - ESCHA BAUELEMENTE GMBH [DE]
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- EP 1548899 A1 20050629 - SUMITOMO WIRING SYSTEMS [JP]
- DE 102006012194 A1 20070920 - ESCHA BAUELEMENTE GMBH [DE]
- US 4090767 A 19780523 - TREGONING WILLIAM LEONARD
- DE 3439931 A1 19860515 - HEISTER ROBERT
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- DE 10338616 A1 20050324 - HIRSCHMANN ELECTRONICS GMBH [DE]
- ANONYMOUS: "SAC-5P- M12MS-M12FS EN X.3.3/920", 21 November 2005 (2005-11-21), pages 1
- ANONYMOUS: "M12A-KST-4POL BK", 10 March 2006 (2006-03-10)
- ANONYMOUS: "M12-FEDERRING-SH", 10 March 2006 (2006-03-10)
- ANONYMOUS: "M12-SCHRAUBE Z410", 7 February 2006 (2006-02-07)

## Cited by

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## Designated contracting state (EPC)

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 SE SI SK TR

## DOCDB simple family (publication)

**EP 2109194 A2 20091014; EP 2109194 A3 20110914; EP 2109194 B1 20180613; EP 2109194 B2 20210505**; DE 102008018403 A1 20091015; ES 2687051 T3 20181023; ES 2687051 T5 20211203; HU E039667 T2 20190128; PL 2109194 T3 20181231; PL 2109194 T5 20210628

## DOCDB simple family (application)

**EP 09154894 A 20090311**; DE 102008018403 A 20080410; ES 09154894 T 20090311; HU E09154894 A 20090311; PL 09154894 T 20090311