

Title (en)

ELECTRICAL CONNECTORS AND METHODS OF MANUFACTURING AND USING SAME

Title (de)

ELEKTRISCHE STECKVERBINDER SOWIE VERFAHREN ZU IHRER HERSTELLUNG UND VERWENDUNG

Title (fr)

CONNECTEURS ÉLECTRIQUES ET PROCÉDÉS DE FABRICATION ET D'UTILISATION ASSOCIÉS

Publication

**EP 2497158 A4 20140723 (EN)**

Application

**EP 10829047 A 20101103**

Priority

- US 25782709 P 20091103
- US 2010055337 W 20101103

Abstract (en)

[origin: WO2011056901A2] An electrical connector forms electrical contact by tightening of a movable, electrically-conductive spiral around un-insulated wire or wires. The spiral coils around the wire multiple times and tightens on the wire(s) when either one or the other end, or both ends, of the spiral is/are rotated relative to the other. One region of the spiral is preferably fixed to an insulating housing or otherwise retainer from movement in the housing, while another region of the spiral may be rotated for the tightening on the wire and then preferably latched to the housing so that the spiral remains in the tightened condition. A terminal end may extend from the spiral, or connectors without a terminal end may be used to electrically connect wires to each other that extend from and to other equipment not located on the connector itself. Multiple spirals may be provided in one connector, including spirals that tighten around separate wires at opposite ends/side of the connector. Various styles of connectors are made possibly, including modular connectors that may be assembled in multiple combinations.

IPC 8 full level

**H01R 11/12** (2006.01); **H01R 4/12** (2006.01); **H01R 4/22** (2006.01); **H01R 43/16** (2006.01)

CPC (source: EP)

**H01R 4/12** (2013.01); **H01R 4/22** (2013.01); **H01R 11/12** (2013.01)

Citation (search report)

- [A] US 6443756 B1 20020903 - HAGMANN BERND [DE], et al
- [A] DE 10253887 A1 20040603 - CFS COMM & FLIGHT SYSTEMS ENGI [DE]
- See references of WO 2011056901A2

Designated contracting state (EPC)

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DOCDB simple family (publication)

**WO 2011056901 A2 20110512**; **WO 2011056901 A3 20110922**; CA 2779248 A1 20110512; CA 2779248 C 20141125; EP 2497158 A2 20120912; EP 2497158 A4 20140723

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