Title (en)

PLUG-IN CONNECTOR STRUCTURE FOR ELECTRONIC PRINTED CIRCUIT BOARDS

Title (de)

STECKVERBINDERKONSTRUKTION FÜR ELEKTRONISCHE LEITERPLATTEN

Title (fr)

STRUCTURE DE CONNECTEUR POUR CARTES DE CIRCUIT IMPRIMÉ

Publication

EP 3295523 A1 20180321 (DE)

Application

EP 16751461 A 20160510

Priority

- DE 102015005909 A 20150510
- DE 2016000200 W 20160510

Abstract (en)

[origin: WO2016180394A1] The invention relates to a plug-in connector structure for printed circuit boards having high long term stability with very precise measurements. Said aim is achieved by means of a plug-in connector structure with the following characteristics: an insulation plate firmly arranged on the at least one side of a metal layer; at least one flat contact element with two end sections, the first end section being designed as a securing section, and being connected to the metallic layer by means of an electrically conductive connecting material. The second end section is designed as a rigid contact tongue which protrudes over the edge of the insulation plate. The counter-piece is a plug-in device connected to a cable provided for plugging into the contact tongue, said plug-in device being provided with at least two elastic spring tongues which are curved on the end sections thereof such that the convex sides are arranged directly opposite and are in contact with the rigid contact tongue on both sides, due the mechanical stress when the connector is in the plugged-in state The two spring tongues have the same load deflection curve. The connector is also provided with a mechanical guide system enabling the incurved spring tongues to slide in a centered manner on the contact tongue.

IPC 8 full level

H01R 12/57 (2011.01); **H01R 12/75** (2011.01); **H01R 13/11** (2006.01)

CPC (source: EP)

H01R 12/57 (2013.01); **H01R 12/7023** (2013.01); **H01R 13/112** (2013.01); H01R 43/26 (2013.01); H01R 2201/20 (2013.01)

Citation (search report)

See references of WO 2016180394A1

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)

WO 2016180394 A1 20161117; EP 3295523 A1 20180321; EP 3295523 B1 20201007; ES 2839884 T3 20210706

DOCDB simple family (application)

DE 2016000200 W 20160510; EP 16751461 A 20160510; ES 16751461 T 20160510