

Title (en)
PLUG-IN CONNECTION FOR ELECTRICALLY CONTACTING A PRINTED CIRCUIT BOARD

Title (de)
STECK-VERBINDUNG ZUR ELEKTRISCHEN KONTAKTIERUNG EINER LEITERPLATTE

Title (fr)
PRISE COMPLÈTE MÂLE ET FEMELLE PERMETTANT DE METTRE EN CONTACTE DE MANIÈRE ÉLECTRIQUE UNE CARTE DE CIRCUIT IMPRIMÉ

Publication
EP 3465825 B1 20210407 (DE)

Application
EP 17724053 A 20170518

Priority
• DE 102016110050 A 20160531
• EP 2017061922 W 20170518

Abstract (en)
[origin: WO2017207285A2] The invention relates to a plug-in connection for electrically contacting a printed circuit board provided in the interior of a field device. According to the invention, the plug-in connection comprises a plug-in termination located on the printed circuit board and having at least one land and a first guide arrangement. As a counterpart, the plug-in connection has a clamp connector comprising: a second guide arrangement designed to complement the first guide arrangement; and at least one clamp device which can be used to clamp at least one termination of at least one electrical cable to the at least one land. The construction according to the invention guarantees the electrical contacting of the cable and the clamp connector is also prevented from slipping out by being simultaneously clamped to the land. A simply and reliably contactable plug-in connection for a printed circuit board is thus provided and said circuit board can be used as a module in a plurality of different types of field device as a result of the plug-in connection according to the invention.

IPC 8 full level
H01R 12/75 (2011.01); **H01R 4/34** (2006.01); **H01R 12/51** (2011.01); **H01R 12/72** (2011.01); **H01R 4/44** (2006.01); **H01R 9/24** (2006.01); **H01R 12/57** (2011.01)

CPC (source: EP US)
H01R 4/34 (2013.01 - EP US); **H01R 4/44** (2013.01 - US); **H01R 9/2491** (2013.01 - US); **H01R 12/515** (2013.01 - EP US); **H01R 12/725** (2013.01 - EP US); **H01R 12/75** (2013.01 - EP US); **H01R 4/44** (2013.01 - EP); **H01R 9/2491** (2013.01 - EP); **H01R 11/05** (2013.01 - EP US); **H01R 12/57** (2013.01 - EP US); **H01R 2201/20** (2013.01 - EP US)

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

DOCDB simple family (publication)
DE 102016110050 A1 20171130; **DE 102016110050 B4 20200123**; CN 109643857 A 20190416; EP 3465825 A2 20190410; EP 3465825 B1 20210407; US 10707588 B2 20200707; US 2019386404 A1 20191219; WO 2017207285 A2 20171207; WO 2017207285 A3 20190221

DOCDB simple family (application)
DE 102016110050 A 20160531; CN 201780032956 A 20170518; EP 17724053 A 20170518; EP 2017061922 W 20170518; US 201716305281 A 20170518