

Title (en)

DIRECT CONTACTING DEVICE FOR FASTENING A CONDUCTOR ON A CIRCUIT BOARD AND PLACING THE CONDUCTOR IN ELECTRICAL CONTACT WITH THE CIRCUIT BOARD

Title (de)

DIREKTKONTAKTIERUNGSVORRICHTUNG ZUM FIXIEREN UND ELEKTRISCHEN KONTAKTIEREN EINES LEITERS AUF EINER LEITERPLATTE

Title (fr)

DISPOSITIF DE MISE EN CONTACT DIRECT DESTINÉ À FIXER UN CONDUCTEUR SUR UNE CARTE DE CIRCUIT IMPRIMÉ ET À PLACER LE CONDUCTEUR EN CONTACT ÉLECTRIQUE AVEC LA CARTE DE CIRCUIT IMPRIMÉ

Publication

EP 4038694 A1 20220810 (DE)

Application

EP 20800000 A 20201001

Priority

- DE 102019126564 A 20191002
- DE 2020200083 W 20201001

Abstract (en)

[origin: WO2021052544A1] The invention relates to a direct contacting device (101, 201) for fastening a conductor (113) on a circuit board (106) and placing the conductor in electrical contact with the circuit board. The circuit board has an opening (109, 209), which extends completely through the circuit board, and a contacting surface, which is associated with said opening. The direct contacting device comprises a conductor receptacle (103, 203), a first spring barb (107, 207) and a spacer (105, 211). The spacer connects the conductor receptacle (103, 203) and the first spring barb (107, 207) at a distance in accordance with the thickness of the circuit board (106) at the opening (109, 209). While being pushed into the opening (109, 209), the first spring barb (107, 207) compresses into a push-in position with a first extent, and after being pushed through the opening (109, 209), the first spring barb rebounds into a fastening position with a second, larger extent, such that the spacer (105, 211) is arranged in the opening and the conductor inserted into the conductor receptacle is clamped against the circuit board and is placed in electrical contact with the contacting surface.

IPC 8 full level

H01R 4/48 (2006.01); **H01R 12/53** (2011.01); **H01R 12/58** (2011.01)

CPC (source: EP)

H01R 4/48 (2013.01); **H01R 12/53** (2013.01); **H01R 12/58** (2013.01)

Citation (search report)

See references of WO 2021052544A1

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 2021052544 A1 20210325; DE 102019126564 A1 20210325; DE 112020004737 A5 20220630; EP 4038694 A1 20220810

DOCDB simple family (application)

DE 2020200083 W 20201001; DE 102019126564 A 20191002; DE 112020004737 T 20201001; EP 20800000 A 20201001