

Title (en)

CONTACT ELEMENT FOR DIRECTLY ELECTRICALLY CONTACTING CIRCUIT BOARDS

Title (de)

KONTAKTELEMENT ZUR ELEKTRISCHEN DIREKTKONTAKTIERUNG VON LEITERPLATTEN

Title (fr)

ÉLÉMENT DE CONTACT PERMETTANT LA MISE EN CONTACT ÉLECTRIQUE DIRECT DE CARTES DE CIRCUITS IMPRIMÉS

Publication

**EP 2702640 B1 20160615 (DE)**

Application

**EP 12708315 A 20120309**

Priority

- DE 102011017787 A 20110429
- EP 2012054076 W 20120309

Abstract (en)

[origin: WO2012146432A1] The invention relates to a contact element (1) for directly electrically contacting a contact surface (2) on a circuit board (3), wherein according to the invention a front plug section (5) is formed by a sheet metal part having two multilayer side edges (8) opposite each other and comprising a middle section (10) between said side edges, which has fewer layers, in particular a single layer, wherein the outside edges (9) of the two side edges (8) run parallel to each other and are each folded at least once, and wherein at least one of the two outer edges (9) comprises a protruding contact spring (11) for directly electrically contacting a contact surface (2).

IPC 8 full level

**H01R 12/72** (2011.01); **H01R 12/50** (2011.01); **H01R 13/642** (2006.01); **H01R 24/60** (2011.01); **H01R 43/16** (2006.01)

CPC (source: EP KR US)

**H01R 12/50** (2013.01 - US); **H01R 12/714** (2013.01 - EP US); **H01R 12/721** (2013.01 - EP US); **H01R 13/26** (2013.01 - KR); **H01R 24/60** (2013.01 - US); **H01R 43/16** (2013.01 - EP KR US); **H01R 13/642** (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 102011017787 A1 20121031**; BR 112013027178 A2 20170117; CN 103493303 A 20140101; CN 103493303 B 20160824; EP 2702640 A1 20140305; EP 2702640 B1 20160615; JP 2014515166 A 20140626; JP 5683747 B2 20150311; KR 101516670 B1 20150504; KR 20140002754 A 20140108; TW 201251210 A 20121216; TW I591900 B 20170711; US 2014302725 A1 20141009; US 9312615 B2 20160412; WO 2012146432 A1 20121101

DOCDB simple family (application)

**DE 102011017787 A 20110429**; BR 112013027178 A 20120309; CN 201280020652 A 20120309; EP 12708315 A 20120309; EP 2012054076 W 20120309; JP 2014506803 A 20120309; KR 20137026416 A 20120309; TW 101115035 A 20120427; US 201214114731 A 20120309