Title (en)
PLUG-IN CONNECTOR FOR PRINTED CIRCUIT BOARDS

Title (de)
STECKVERBINDER FÜR LEITERPLATTEN

Title (fr)
CONNECTEUR ENFICHABLE POUR CARTES DE CIRCUITS IMPRIMES

Publication
EP 1807906 A1 20070718 (DE)

Application
EP 05799678 A 20051031

Priority
• EP 2005011637 W 20051031
• DE 102004054535 A 20041105

Abstract (en)
[origin: US7722404B2] The invention relates to a plug-in connector for printed circuit boards, comprising a plurality of contact elements, whereby said contact elements have two connecting faces each. The one connecting face is configured as an insulation displacement contact for connecting cores and the other connecting face is configured as a tuning fork contact for contacting contact surfaces on a printed circuit board. The insulation displacement contacts of the contact elements can be inserted into a plastic housing. The insulation displacement contact and the tuning fork contact are arranged in a rotational manner in relation to each other and the contact element is supported on the plastic housing by at least one edge, such that the contact elements are captivated in the plastic housing when connecting forces act upon the insulation displacement contacts. The plastic housing is embodied as a single piece and the part receiving the tuning fork contact is at least partially elastic.

IPC 8 full level
H01R 4/24 (2006.01); **H01R 12/18** (2006.01); **H01R 12/55** (2011.01); **H01R 13/422** (2006.01)

CPC (source: EP KR US)
H01R 12/515 (2013.01 - EP US); **H01R 12/55** (2013.01 - KR); **H01R 13/422** (2013.01 - EP US); H01R 4/2429 (2013.01 - EP US); H01R 13/112 (2013.01 - EP US); H01R 13/50 (2013.01 - EP US)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
US 2009130890 A1 20090521; **US 7722404 B2 20100525**; AT E415724 T1 20081215; CN 100517873 C 20090722; CN 101053124 A 20071010; CY 1110270 T1 20150114; DE 102004054535 B3 20060330; DE 502005006100 D1 20090108; DK 1807906 T3 20090216; EP 1807906 A1 20070718; EP 1807906 B1 20081126; ES 2317318 T3 20090416; HK 1109504 A1 20080606; HR P20090016 T3 20090228; IL 182961 A0 20070819; KR 101105613 B1 20120125; KR 20070068443 A 20070629; NO 20072500 L 20070515; PL 1807906 T3 20090430; PT 1807906 E 20090121; RS 50721 B 20100831; RU 2007120762 A 20081210; RU 2345456 C1 20090127; SI 1807906 T1 20090430; UA 89387 C2 20100125; WO 2006048220 A1 20060511

DOCDB simple family (application)
US 71812005 A 20051031; AT 05799678 T 20051031; CN 200580037673 A 20051031; CY 091100227 T 20090226; DE 102004054535 A 20041105; DE 502005006100 T 20051031; DK 05799678 T 20051031; EP 05799678 A 20051031; EP 2005011637 W 20051031; ES 05799678 T 20051031; HK 08103483 A 20080328; HR P20090016 T 20090113; IL 18296107 A 20070503; KR 20077010080 A 20051031; NO 20072500 A 20070515; PL 05799678 T 20051031; PT 05799678 T 20051031; RS P20090005 A 20051031; RU 2007120762 A 20051031; SI 200530553 T 20051031; UA A200704754 A 20051031