

Title (en)

high-frequency coupler for connecting a coaxial plug to a high-frequency transmission line on a printed circuit board

Title (de)

hf-kuppler zum verbinden eines koaxialsteckers mit einer hf-übertragungsleitung auf einer leiterplatte

Title (fr)

coupleur hf destiné à connecter une fiche coaxiale à une ligne de transmission hf sur une plaquette

Publication

EP 1645018 A1 20060412 (DE)

Application

EP 04763118 A 20040707

Priority

- EP 2004007438 W 20040707
- DE 20310786 U 20030714

Abstract (en)

[origin: US7318728B2] A high-frequency coupler connects a coaxial plug to a high-frequency transmission line on a printed circuit board. The coupler comprises a first pair of spring lamellae, for electrically contacting a middle conductor of the coaxial plug, and having a second pair of spring lamellae, for electrically contacting an outer conductor of the coaxial plug. A spring lamella of the first pair has, at an end facing away from coaxial plug, a contact surface that electrically connects the coupler to the transmission line on the printed circuit board and is mechanically connected to the printed circuit board. One spring lamella of the second pair has, at an end facing away from the coaxial plug, a contact surface that electrically connects the coupler to a printed circuit board ground contact and is mechanically connected to the printed circuit board.

IPC 1-7

H01R 13/646; **H01R 12/20**

IPC 8 full level

H01R 13/646 (2011.01)

CPC (source: EP US)

H01R 24/50 (2013.01 - EP US); **H01R 2103/00** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

US 2006166521 A1 20060727; **US 7318728 B2 20080115**; AT E346402 T1 20061215; BR PI0412070 A 20060905; CA 2532171 A1 20050120; CA 2532171 C 20120918; CN 100444475 C 20081217; CN 1823452 A 20060823; DE 20310786 U1 20031009; DE 502004002110 D1 20070104; DK 1645018 T3 20070122; EP 1645018 A1 20060412; EP 1645018 B1 20061122; ES 2274481 T3 20070516; JP 2009514143 A 20090402; JP 4767846 B2 20110907; WO 2005006501 A1 20050120; ZA 200510222 B 20070228

DOCDB simple family (application)

US 56453004 A 20040707; AT 04763118 T 20040707; BR PI0412070 A 20040707; CA 2532171 A 20040707; CN 200480019923 A 20040707; DE 20310786 U 20030714; DE 502004002110 T 20040707; DK 04763118 T 20040707; EP 04763118 A 20040707; EP 2004007438 W 20040707; ES 04763118 T 20040707; JP 2006519827 A 20040707; ZA 200510222 A 20051215