

Title (en)

IMPEDANCE-TUNED TERMINAL CONTACT ARRANGEMENT AND CONNECTORS INCORPORATING SAME

Title (de)

IMPEDANZANGEPASSTE KONTAKTANORDNUNG UND VERBINDER

Title (fr)

AGENCEMENT DE CONTACTS ACCORDES PAR IMPEDANCE ET CONNECTEURS INCORPORANT CET AGENCEMENT

Publication

EP 1459414 B1 20081217 (EN)

Application

EP 03774494 A 20030925

Priority

- US 0330106 W 20030925
- US 41333002 P 20020925

Abstract (en)

[origin: WO2004030158A2] A terminal contact arrangement for a connector promotes reduction in deviation of the impedance of the connector when mated to an opposing connector and energized. The connector has an insulative housing with a plurality of terminal-receiving passages disposed in it. Conductive terminals are supported in some, but not all of the passages. The terminal contain distinct terminal sets that include a pair of differential signal terminals and at least two associated ground reference terminals. The two associated ground reference terminals are interconnected together so that electrically, they act as a single ground terminal having a width equal to the sum of the widths of the two connected ground reference terminals. The ground reference terminals of the sets are disposed in a single row of terminals, while the differential signal terminals of the same terminal set are disposed in another row of terminals spaced apart from the row of ground reference terminals. The differential signal terminals are separated from each other within their terminal row by an empty passage so that the two differential signal terminals of each terminal set are spaced farther apart from each other than they are spaced apart from their associated ground reference terminals.

IPC 8 full level

H01R 24/00 (2006.01); **H01R 12/16** (2006.01); **H01R 12/71** (2011.01); **H01R 13/6474** (2011.01)

CPC (source: EP)

H01R 13/6471 (2013.01); **H01R 13/6477** (2013.01); **H01R 12/716** (2013.01); **H01R 12/724** (2013.01)

Designated contracting state (EPC)

DE FR GB IT SE

DOCDB simple family (publication)

WO 2004030158 A2 20040408; **WO 2004030158 A3 20040610**; **WO 2004030158 B1 20040715**; AU 2003282873 A1 20040419; AU 2003282873 A8 20040419; CN 100474708 C 20090401; CN 1742411 A 20060301; DE 60325325 D1 20090129; EP 1459414 A2 20040922; EP 1459414 B1 20081217; JP 2006500749 A 20060105; JP 4068618 B2 20080326

DOCDB simple family (application)

US 0330106 W 20030925; AU 2003282873 A 20030925; CN 03824794 A 20030925; DE 60325325 T 20030925; EP 03774494 A 20030925; JP 2004539864 A 20030925