

Title (en)
Filter connector with high frequency shield

Title (de)
Filtersteckverbinder mit Hochfrequenzabschirmung

Title (fr)
Connecteur de filtre avec écran haute fréquence

Publication
EP 1950849 A2 20080730 (EN)

Application
EP 07021702 A 20071108

Priority
US 86011706 P 20061120

Abstract (en)
A shield is provided that blocks high frequency EMI (electromagnetic interference) from reaching circuitry that is connected to pins of a filter connector. The filter connector includes a plurality of pins (12) that extend through holes (28) in first boards (26), with each pin joined by a solder joint (90) to a signal trace (32, 60) that surrounds the pin hole. Filter components such as capacitors (40), each have one terminal (44) joined to a signal trace and another terminal (42) joined to a ground trace (30), with a gap (62) between the traces. Second boards (75) are provided that each lies facewise adjacent to a first board and that each carries a shield trace (72) that covers the gap between signal and ground traces. The pin-receiving hole in each second board has a circular portion and has a notch (100) therein through which a solder dispenser (102) can fit to dispense solder directly into the space between and on the pin and the signal traces.

IPC 8 full level
H01R 13/658 (2011.01); **H01R 13/719** (2011.01)

CPC (source: EP KR)
H01R 13/648 (2013.01 - KR); **H01R 13/6585** (2013.01 - EP); **H01R 13/6658** (2013.01 - EP); **H01R 13/7195** (2013.01 - EP);
H01R 13/6466 (2013.01 - EP)

Citation (applicant)
• US 6896552 B2 20050524 - KOSMALA MICHAEL LAWRENCE [US]
• FR 2670054 A1 19920605 - RADIAL SA [FR]

Cited by
EP2405538A1; FR2962601A1; US8598963B2

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 MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
EP 1950849 A2 20080730; **EP 1950849 A3 20080813**; IL 187101 A0 20080209; JP 2008135389 A 20080612; JP 4740220 B2 20110803;
KR 100962631 B1 20100611; KR 20080045624 A 20080523

DOCDB simple family (application)
EP 07021702 A 20071108; IL 18710107 A 20071101; JP 2007299189 A 20071119; KR 20070117150 A 20071116