

Title (en)

Mode filter for the connection of two electromagnetic waveguides

Title (de)

Modenfilter zur Verbindung von zwei elektromagnetischen Hohlleitern

Title (fr)

Filtre à modes pour la connection de deux guides d'ondes électromagnétiques

Publication

EP 0902496 A3 20000426 (DE)

Application

EP 98402039 A 19980811

Priority

DE 19739589 A 19970910

Abstract (en)

[origin: EP0902496A2] The mode filter is used to connect a pair of waveguides of different diameters and consists of a tapered tube (4) with openings at each end that have flanged inserts (5,6) to suit the waveguides. Flat blade elements (14,15) are located in slots on opposite sides and minimize unwanted electromagnetic wave effects. These are spaced a specific distance and are produced of an electrically conducting metal.

IPC 1-7

H01P 5/08

IPC 8 full level

H01P 5/08 (2006.01)

CPC (source: EP US)

H01P 5/082 (2013.01 - EP US)

Citation (search report)

- [A] US 3758882 A 19730911 - MORZ G
- [A] US 3818383 A 19740618 - WILLIS F
- [A] PATENT ABSTRACTS OF JAPAN vol. 9, no. 284 (E - 357)<2007> 12 November 1985 (1985-11-12)
- [A] HUANG J ET AL: "FREQUENCY-DOMAIN TLM ANALYSIS OF THE TRANSITION FROM RECTANGULAR TO CIRCULAR WAVEGUIDES", IEEE MTT-S INTERNATIONAL MICROWAVE SYMPOSIUM DIGEST,US,NEW YORK, IEEE, 1994, pages 705 - 708, XP000516648, ISBN: 0-7803-1779-3

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DE 19739589 A1 19990311; AU 739585 B2 20011018; AU 8198098 A 19990325; BR 9803406 A 19991103; DE 59813133 D1 20051201; EP 0902496 A2 19990317; EP 0902496 A3 20000426; EP 0902496 B1 20051026; US 6130586 A 20001010

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