

Title (en)
Microwave triplate module.

Title (de)
Mikrowellenmodul des Streifenleitungstyps.

Title (fr)
Module hyperfréquence triplaque.

Publication
EP 0465994 A1 19920115 (FR)

Application
EP 91110948 A 19910702

Priority
FR 9008491 A 19900704

Abstract (en)
[origin: JPH04233802A] PURPOSE: To change a plane and to distribute energy to a prescribed number of channels without using a mechanical link with respect to radio wave propagation in a stripe line mode. CONSTITUTION: First and second lines 10 and 11 placed on a first plane and a coupling aperture 17 which is placed on a second plane so that transmission is possible between two lines 10 and 11 are provided. The center part of this module consists of a pair of cavities 12 and 13 formed in two conductive blocks, for example, metallic blocks 14 and 15 respectively, and one of cavities 12 and 13 is placed on the other, and they are separated by a plane conductive part, for example, a metallic disk. The plane conductive part 16 has a periphery which constitutes a coupling slot to send a radio energy from one cavity to the other at the time when it is engaged with a pair of rims belonging to cavities 12 and 13. Therefore, transmission of the energy follows the geometrical forms of cavities 12 and 13 and the coupling slot 17.

Abstract (fr)
La présente invention se rapporte à un module hyperfréquence triplaque, comportant : au moins une première ligne (10) située dans un premier plan ; au moins une seconde ligne (11) ; au moins une ouverture de couplage (17) située dans un second plan de manière à permettre une transmission entre ces deux lignes (10, 11). Application notamment aux domaine spatial. <IMAGE>

IPC 1-7
H01P 5/18

IPC 8 full level
H01P 5/08 (2006.01); **H01P 5/02** (2006.01); **H01P 5/12** (2006.01); **H01P 5/18** (2006.01); **H01P 5/22** (2006.01); **H01P 7/08** (2006.01)

CPC (source: EP US)
H01P 5/187 (2013.01 - EP US)

Citation (search report)
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• [A] WO 8700350 A1 19870115 - FORD AEROSPACE & COMMUNICATION [US]
• [A] EP 0180011 A1 19860507 - GTE TELECOM SPA [IT]
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• [A] IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, vol. 34, no. 12, décembre 1986, pages 1457-1463, New York, US; E. YAMASHITA et al.: "Analysis method for generalized suspended striplines"

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EP0671777A1; US5471181A

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