

Title (en)

METHOD OF ORTHOGONAL-MODE JUNCTION COUPLING WITH A MEDIUM TO BROAD OPERATING BANDWIDTH, AND COUPLER EMPLOYING SAID METHOD

Title (de)

VERFAHREN ZUR ORTHOGONALMODUS-VERBINDUNGSKOPPLUNG MIT MITTLERER BIS BREITER BETRIEBSBANDBREITE UND DAS VERFAHREN VERWENDENDER KOPPLER

Title (fr)

PROCÉDÉ DE COUPLAGE À BANDE DE FONCTIONNEMENT MOYENNE À LARGE DE JONCTION À MODE ORTHOGONAL ET COUPLEUR METTANT EN OEUVRE LEDIT PROCÉDÉ

Publication

EP 2092595 A1 20090826 (FR)

Application

EP 07821500 A 20071018

Priority

- EP 2007061135 W 20071018
- FR 0609334 A 20061024

Abstract (en)

[origin: FR2907600A1] The coupler has a conducting rod (5) projecting from a wave guide (1) and extending between a short circuit (3) of a wave guide (1) and conducting structure (6) acting as a radiant dipole with wavelength of $\lambda/2$ exited at central point of the dipole by the rod. The structure has C or U shaped blades (7) extending symmetrically on both sides of a symmetrical plane of the wave guide. Each blade has a branch (8) integrated to the waveguide and extends above the top of the rod. An independent claim is also included for a method for coaxial coupling of wide or average ortho-mode junction band of a wave guide.

IPC 8 full level

H01P 5/08 (2006.01); **H01P 5/103** (2006.01)

CPC (source: EP US)

H01P 5/085 (2013.01 - EP US); **H01P 5/103** (2013.01 - EP US)

Citation (search report)

See references of WO 2008049778A1

Citation (examination)

- US 3778838 A 19731211 - CLAVIN A
- US 3065752 A 19621127 - FRITZ POTZL
- US 3594806 A 19710720 - BLACK WOODROW W, et al
- US 2635189 A 19530414 - ATTA LESTER C VAN
- US 2433368 A 19471230 - JOHNSON MONTGOMERY H, et al

Cited by

DE102016001370A1

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DOCDB simple family (publication)

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DOCDB simple family (application)

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