

Title (en)  
Polarisation branch for two different frequency bands

Title (de)  
Polarisationsweiche für zwei unterschiedliche Frequenzbänder

Title (fr)  
Aiguillage de polarisation pour deux bandes de fréquence différentes

Publication  
**EP 0898323 A3 20000405 (DE)**

Application  
**EP 98401839 A 19980720**

Priority  
DE 19735547 A 19970816

Abstract (en)  
[origin: EP0898323A2] The polarisation device has a hollow waveguide section supplied with two linearly polarised waves for two different frequency bands, coupled to two rectangular waveguides for each frequency band. The waveguides are offset from one another in the axial direction of the hollow waveguide section. The rectangular waveguide for the higher frequency band is divided into two flat rectangular arms (18, 19, 24, 25) joined to the hollow waveguide section at diametrically opposing points.

IPC 1-7  
**H01P 1/213**

IPC 8 full level  
**H01P 1/213** (2006.01)

CPC (source: EP US)  
**H01P 1/2131** (2013.01 - EP US)

Citation (search report)

- [AD] EP 0096461 A2 19831221 - ANDREW CORP [US]
- [A] US 4956622 A 19900911 - DE RONDE FRANS C [GB]
- [A] BOIFOT A M: "CLASSIFICATION OF ORTHO-MODE TRANSDUCERS", EUROPEAN TRANSACTIONS ON TELECOMMUNICATIONS AND RELATED TECHNOLOGIES, IT, AEI, MILANO, vol. 2, no. 5, pages 35-42, XP000266379, ISSN: 1120-3862
- [A] DAS B N ET AL: "A RIGOROUS VARIATIONAL FORMULATION OF AN H PLANE SLOT-COUPLED TEE JUNCTION", IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, US, IEEE INC. NEW YORK, vol. 38, no. 1, pages 93-95, XP000142212, ISSN: 0018-9480
- [A] MA Z ET AL: "EFFICIENT CHARACTERIZATION OF COMPLEX H-PLANE WAVEGUIDE PI-JUNCTION AND CROSS-JUNCTIONS", IEICE TRANSACTIONS ON ELECTRONICS, JP, INSTITUTE OF ELECTRONICS INFORMATION AND COMM. ENG. TOKYO, vol. E79-C, no. 3, pages 444-452, XP000594520, ISSN: 0916-8524

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**DE 19735547 A1 19990218**; AU 742126 B2 20011220; AU 7989798 A 19990225; BR 9803749 A 19991221; EP 0898323 A2 19990224;  
EP 0898323 A3 20000405; US 6150899 A 20001121

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**DE 19735547 A 19970816**; AU 7989798 A 19980812; BR 9803749 A 19980814; EP 98401839 A 19980720; US 12996298 A 19980806