

Title (en)  
Faraday rotation device.

Title (de)  
Faraday-Dreheinrichtung.

Title (fr)  
Dispositif de rotation Faraday.

Publication  
**EP 0386889 A1 19900912 (EN)**

Application  
**EP 90301474 A 19900212**

Priority  
GB 8905401 A 19890309

Abstract (en)  
A Faraday rotation device for use in microwave apparatus includes a ferrite member 1 which is of polygonal transverse section over a substantial part of its length, the transverse section preferably being substantially square or rectangular. The member includes tapered sections 2 and 3 which are pyramidal in shape. This configuration provides good performance and facilitates manufacture.

IPC 1-7  
**H01P 1/175**

IPC 8 full level  
**H01P 1/175** (2006.01)

CPC (source: EP)  
**H01P 1/175** (2013.01)

Citation (search report)

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- [A] FR 1284359 A 19620209 - PHILIPS NV
- [Y] PATENT ABSTRACTS OF JAPAN, vol. 2, no. 106, 31st August 1978, page 5659 E 78; & JP-A-53 72 439 (TOKYO SHIBAURA DENKI K.K.) 27-06-1978
- [Y] IRE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, vol. MTT-3, no. 4, April 1955, pages 27-31; C. STEWART: "Some applications and characteristics of ferrite at wavelengths of 0.87 Cm and 1.9 Cms"
- [Y] IRE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, vol. MTT-4, no. 10, October 1956, pages 210-213; E.A. OHM: "A broad-band microwave circulator"
- [X] 1971 EUROPEAN MICROWAVE CONFERENCE - PROCEEDINGS, Stockholm, 23rd - 28th August 1971, vol. 2, pages B14/4:1-B14/4:4, IEEE, New York, US; L.R. WHICKER: "A comparison of two classes of ferrite phasers for use in phased arrays"
- [A] TELECOMMUNICATIONS AND RADIO ENGINEERING, vol. 18, no. 3, March 1964, pages 78-82; V.I. VOL'MAN: "Principle of operation and design of waveguide Y-circulators"

Designated contracting state (EPC)  
AT BE CH DE DK ES FR GR IT LI LU NL SE

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**EP 0386889 A1 19900912**; GB 2229043 A 19900912; GB 8905401 D0 19890419

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