

Title (en)  
COUPLING IRIS

Publication  
**EP 0395888 A3 19910925 (DE)**

Application  
**EP 90106107 A 19900330**

Priority  
DE 3914246 A 19890429

Abstract (en)  
[origin: EP0395888A2] 1. Coupling aperture 2.1 It is intended to specify a coupling aperture in which the coupling openings are arranged such that desired couplings are effected while very heavily parasitic couplings are reduced as much as possible. 2.2 This object is achieved in that coupling openings (K1, K2) are arranged in the coupling aperture (KB) such that couplings take place via said openings for two mutually independent wave modes and such that coupling of the two wave modes takes place via at least one of the coupling openings and a coupling of equal magnitude, but in the opposite sense, likewise takes place via at least one of the other coupling openings, so that these two couplings in opposite senses cancel one another out. <IMAGE>

IPC 1-7  
**H01P 1/208**; **H01P 1/16**

IPC 8 full level  
**H01P 1/16** (2006.01); **H01P 1/208** (2006.01)

CPC (source: EP)  
**H01P 1/16** (2013.01); **H01P 1/2082** (2013.01)

Citation (search report)

- [A] US 4742317 A 19880503 - THAL JR HERBERT L [US]
- [A] US 3715688 A 19730206 - WOODWARD O
- [A] US 3230481 A 19660118 - LEWIS DAVID J
- [A] IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, Band 32, Nr. 11, November 1984, Seiten 1449-1454, New York, US; W.-C. TANG et al.: "A true elliptic-function filter using triple-mode degenerate cavities"
- [A] PATENT ABSTRACTS OF JAPAN, Band 3, Nr. 121 (E-143), 11. Oktober 1979; & JP-A-54 99 547 (MITSUBISHI DENKI K.K.) 06-08-1979
- [AD] IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, Band 35, Nr. 12, Dezember 1987, Seiten 1143-1149, New York, US; R. BONETTI et al.: "Application of dual TM modes to triple- and quadruple-mode filters"
- [XP] IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, Band 37, Nr. 12, Dezember 1989, Seiten 2011-2019, New York, US; U. ROSENBERG et al.: "Filter design using in-line triple-mode cavities and novel iris couplings"

Cited by  
EP1187248A3

Designated contracting state (EPC)  
DE FR GB IT NL

DOCDB simple family (publication)  
**EP 0395888 A2 19901107**; **EP 0395888 A3 19910925**; **EP 0395888 B1 19950301**; DE 59008563 D1 19950406

DOCDB simple family (application)  
**EP 90106107 A 19900330**; DE 59008563 T 19900330