

Title (en)  
Improved resonator filter and design method therefor

Title (de)  
Verbessertes Resonatorfilter und Entwurfsverfahren dafür

Title (fr)  
Filtre résonateur amélioré et sa méthode de conception

Publication  
**EP 1094540 A1 20010425 (EN)**

Application  
**EP 99308220 A 19991018**

Priority  
EP 99308220 A 19991018

Abstract (en)  
A dual mode dielectric resonator 10 comprises a plurality of dielectrics 12, 14, 16, 18, of known modes and quality factors, their intermode coupling also being known, and a conducting enclosure 20 of known Qd and Qc. The modes and quality factors are calculated by deriving a mode chart for the resonator including the eigenvalues. The filter does not require an iris. <IMAGE>

IPC 1-7  
**H01P 1/208**; **H01P 7/10**

IPC 8 full level  
**H01P 1/208** (2006.01); **H01P 7/10** (2006.01)

CPC (source: EP)  
**H01P 1/2084** (2013.01); **H01P 7/105** (2013.01)

Citation (search report)

- [A] D. KAJFEZ ET AL.: "TUBULAR DIELECTRIC WAVEGUIDES AND RESONATORS", 1988 IEEE SOUTHEASTCON-CONFERENCE PROCEEDINGS, 11 April 1988 (1988-04-11) - 13 April 1988 (1988-04-13), KNOXVILLE (US), pages 566 - 570, XP002133233
- [A] ZHONG-MIN ET AL: "TRIPLE-MODE DIELECTRIC RESONATOR LOADED CAVITY1", MTT-S INTERNATIONAL MICROWAVE SYMPOSIUM DIGEST,US,NEW YORK, IEEE, vol. -, 10 June 1991 (1991-06-10) - 14 June 1991 (1991-06-14), BOSTON (US), pages 687 - 690, XP000260445

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