

Title (en)

TUNABLE MICROWAVE FILTER WITH TM010 MODE DIELECTRIC RESONATORS

Publication

EP 0114140 B1 19890308 (FR)

Application

EP 84400077 A 19840113

Priority

FR 8300755 A 19830119

Abstract (en)

[origin: US4578655A] A filter comprising a metal case having a metal base and a lid forming a guide of any section but under cut-off, that is to say which does not allow guided propagation. Cylindrical dielectric resonators are in contact with the metal securing base and the resonators resonate then in the TM010 mode. For frequency tuning of the filter, the distance between the bottom of the lid and the ends of the dielectric resonators supported by the base is variable. The invention applies more especially to tuneable band-pass filters.

IPC 1-7

H01P 1/219; **H01P 7/10**

IPC 8 full level

H01P 1/219 (2006.01); **H01P 7/10** (2006.01)

CPC (source: EP US)

H01P 1/219 (2013.01 - EP US); **H01P 7/10** (2013.01 - EP US)

Citation (examination)

1978 IEEE MTT-S INTERNATIONAL MICROWAVE SYMPOSIUM DIGEST, Ottawa, 27-29 juin 1978, pages 233-235, New York, US, Y. KOBAYASHI et al.: "Bandpass filters using TM010 dielectric rod resonators"

Cited by

EP0821431A3; EP0205151A1; FR2583597A1; EP0452293A1; TR25792A; EP0452211A1; FR2661042A1; GB2188788A; US4760361A; GB2188788B; WO9534192A1

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