

Title (en)
RIDGED WAVEGUIDE WITH A FLUID-TIGHT WINDOW

Publication
EP 0189712 B1 19890802 (FR)

Application
EP 85402616 A 19851224

Priority
FR 8419997 A 19841228

Abstract (en)
[origin: US4720693A] A thin waveguide window having a broad band of operating frequencies is composed of a metallic frame provided with an opening and a leak-tight closure plate of dielectric material. The frame permits a reduction in dimensions of the plate, with the result that any spurious frequencies introduced by the plate are rejected from the operating frequency band. By giving the plate an oblong shape, it is possible to balance its inductive components by means of its capacitive components at the mid-band frequency. A matching transformer formed by the ridges which are more closely spaced in the vicinity of the window than in the remainder of the waveguide permits matching throughout the frequency band.

IPC 1-7
H01P 1/08

IPC 8 full level
H01J 23/40 (2006.01); **H01J 23/36** (2006.01); **H01P 1/08** (2006.01); **H01P 3/123** (2006.01)

CPC (source: EP US)
H01P 1/08 (2013.01 - EP US)

Cited by
FR2746546A1; EP0432047A1; FR2655771A1

Designated contracting state (EPC)
DE GB IT

DOCDB simple family (publication)
EP 0189712 A1 19860806; EP 0189712 B1 19890802; DE 3572090 D1 19890907; FR 2575604 A1 19860704; FR 2575604 B1 19870130; JP S61158202 A 19860717; US 4720693 A 19880119

DOCDB simple family (application)
EP 85402616 A 19851224; DE 3572090 T 19851224; FR 8419997 A 19841228; JP 29335085 A 19851227; US 81514185 A 19851230