

Title (en)

AN ELECTRICAL DEVICE COMPRISING A COPLANAR WAVEGUIDE WITH BURIED BRIDGES AND APERTURES

Title (de)

ELEKTRISCHE VORRICHTUNG MIT KOPLANAREM WELLENLEITER MIT VERGRABENEN BRÜCKEN UND ÖFFNUNGEN

Title (fr)

DISPOSITIF ÉLECTRIQUE COMPRENANT UN GUIDE D'ONDES COPLANAIRE AYANT DES PONTS ET DES OUVERTURES ENTERRÉS

Publication

EP 4037094 B1 20230913 (EN)

Application

EP 21305103 A 20210127

Priority

EP 21305103 A 20210127

Abstract (en)

[origin: EP4037094A1] An electrical device comprising a coplanar waveguide above a substrate (200) including a signal line (101) surrounded on one side by a first portion (103A) of ground plane and on another side by a second portion (103B) of ground plane, wherein the device further comprises at least one buried conductive bridge (120) forming an electrical connection between the first portion of the ground plane and to the second portion of the ground plane, the buried bridge being perpendicular with the signal line, arranged below the signal line, and being electrically insulated from the signal line by an insulating layer (140), and wherein the signal line comprises an aperture (110) above and at the level of the buried bridge arranged so that two portions (111A, 111B) of signal line remain on each side of the aperture.

IPC 8 full level

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