

Title (en)

MICROWAVE COMPONENT AND ASSOCIATED MANUFACTURING PROCESS

Title (de)

MIKROWELLEN-BAUELEMENT UND ZUGEHÖRIGES HERSTELLUNGSVERFAHREN

Title (fr)

COMPOSANT MICRO-ONDES ET PROCÉDÉ DE FABRICATION ASSOCIÉ

Publication

EP 3721501 B1 20231101 (FR)

Application

EP 18811277 A 20181205

Priority

- FR 1761661 A 20171205
- EP 2018083625 W 20181205

Abstract (en)

[origin: WO2019110651A1] This microwave component (10) comprises a waveguide (12) comprising an upper layer, a lower layer, and a central layer (18) intermediate between the upper layer and the lower layer, said layers defining a zone (19) of propagation of an electromagnetic wave, the propagation zone (19) extending along a propagation axis, and comprising a cavity (32) bounded by the upper layer, the lower layer, and, laterally, by two opposite lateral edges (36) of the central layer (18). The waveguide (12) comprises at least one dielectric strip (28) placed in the propagation zone (19), the dielectric strip (28) being defined in one of the upper layer and the lower layer or being placed in the cavity (32) away from the lateral edges (36) of the cavity (32).

IPC 8 full level

H01P 3/12 (2006.01); **H01P 1/208** (2006.01); **H01P 3/123** (2006.01); **H01P 11/00** (2006.01)

CPC (source: EP US)

H01P 3/121 (2013.01 - EP US); **H01P 3/122** (2013.01 - EP US); **H01P 11/002** (2013.01 - US); **H01P 1/2088** (2013.01 - EP); **H01P 3/123** (2013.01 - EP); **H01P 11/002** (2013.01 - EP)

Citation (examination)

- US 5528208 A 19960618 - KOBAYASHI HIDEKI [JP]
- EP 0299616 A2 19890118 - GEN ELECTRIC CO PLC [GB]
- US 4970522 A 19901113 - NIMAN MURRAY J [GB]

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

FR 3074612 A1 20190607; **FR 3074612 B1 20200911**; EP 3721501 A1 20201014; EP 3721501 B1 20231101; ES 2970492 T3 20240529; US 11380972 B2 20220705; US 2021151846 A1 20210520; WO 2019110651 A1 20190613

DOCDB simple family (application)

FR 1761661 A 20171205; EP 18811277 A 20181205; EP 2018083625 W 20181205; ES 18811277 T 20181205; US 201816768917 A 20181205