

Title (en)

BROAD-BAND, HIGH-POWER NON-RECIPROCAL MICROWAVE DEVICE, AND APPLICATION THEREOF

Publication

EP 0082752 B1 19850807 (FR)

Application

EP 82402239 A 19821207

Priority

FR 8123736 A 19811218

Abstract (en)

[origin: EP0082752A1] 1. Non-reciprocal, wide frequency band, high power level microwave device comprising at least one member of ferrimagnetic material and means for applying a magnetic polarization field whereby the material is saturated, characterized in that the material is a monocrystal and in that the monocrystal is oriented along a crystallographic axis determined in such a manner that the variation of the anisotropy field as a function of the temperature compensates for the variations of the saturation magnetization and of the applied magnetic field as a function of the temperature, thus permitting to maintain stable as a function of the temperature the resonance line width of the monocrystal and the minimum frequency of said band.

IPC 1-7

H01P 1/387

IPC 8 full level

H01P 1/387 (2006.01)

CPC (source: EP)

H01P 1/387 (2013.01)

Designated contracting state (EPC)

DE GB IT NL

DOCDB simple family (publication)

EP 0082752 A1 19830629; EP 0082752 B1 19850807; DE 3265292 D1 19850912; FR 2518823 A1 19830624; FR 2518823 B1 19841130; JP S58111405 A 19830702

DOCDB simple family (application)

EP 82402239 A 19821207; DE 3265292 T 19821207; FR 8123736 A 19811218; JP 22113082 A 19821218