

Title (en)

NON-RECIPROCAL CIRCUIT ELEMENT FOR MICROWAVE

Title (de)

NICHT-REZIPROKES SCHALTUNGSELEMENT FÜR MIKROWELLEN

Title (fr)

ELEMENT DE CIRCUIT NON RECIPROQUE POUR MICRO-ONDES

Publication

**EP 0707353 B1 20011024 (EN)**

Application

**EP 94927809 A 19940929**

Priority

- JP 9101194 A 19940428
- JP 9401623 W 19940929

Abstract (en)

[origin: WO9530252A1] A non-reciprocal circuit element for microwaves which is reduced in size and loss without causing any conductor loss in the center electrodes resulting from the miniaturization. The non-reciprocal circuit element is provided with the center electrodes which are perpendicular to each other and insulated from each other, and a magnetic or dielectric material for microwaves at the intersection parts of the center electrodes. Each center electrode comprises a plurality of conductors (55, 56 and 57) which are stacked on one another by interposing a magnetic or dielectric material for microwaves between conductors.

IPC 1-7

**H01P 1/383**; **H01P 11/00**

IPC 8 full level

**H01P 1/36** (2006.01); **H01P 1/383** (2006.01); **H01P 1/387** (2006.01)

CPC (source: EP KR)

**H01P 1/383** (2013.01 - EP KR); **H01P 1/387** (2013.01 - EP); **H01P 3/18** (2013.01 - KR)

Cited by

US5745015A; EP0858122A3

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**WO 9530252 A1 19951109**; CN 1038543 C 19980527; CN 1120375 A 19960410; DE 69428793 D1 20011129; DE 69428793 T2 20020523; EP 0707353 A1 19960417; EP 0707353 A4 19960904; EP 0707353 B1 20011024; JP 3178239 B2 20010618; JP H07297607 A 19951110; KR 100310729 B1 20011018; KR 960701491 A 19960224

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**JP 9401623 W 19940929**; CN 94191665 A 19940929; DE 69428793 T 19940929; EP 94927809 A 19940929; JP 9101194 A 19940428; KR 19950704076 A 19950923; KR 19997003647 A 19990426