

Title (en)  
NON-RECIPROCAL CIRCUIT ELEMENT

Title (de)  
NICHT-REZIPROKES SCHALTUNGSELEMENT

Title (fr)  
ELEMENT DE CIRCUIT NON RECIPROQUE

Publication  
**EP 0664573 B1 20010926 (EN)**

Application  
**EP 94919825 A 19940629**

Priority  
• JP 9401059 W 19940629  
• JP 16173693 A 19930630

Abstract (en)  
[origin: WO9501659A1] This element can be miniaturized irrespective of the value of the matched capacitance. A circulator (1) is provided with a multilayered board (3) for forming a central electrode (16a) and matching capacitance. The multilayered board (3) is produced by laminating a plurality of dielectric sheets on which the central electrode or the matching capacitance electrode is formed, and burning them integrally. The matching capacitor is structured by connecting in parallel the capacitors formed by laminating many numbers of dielectric sheet pinched by a pair of capacitor electrodes. On the upper surface of the multilayered board (3), there are formed in positions facing the central electrode (16a) a first recess (26) for receiving ferrite (4), and a second recess (25) for receiving a permanent magnet (5). In these recesses, the ferrite (4) and the permanent magnet (5) are installed, respectively.

IPC 1-7  
**H01P 1/383**; **H01P 11/00**

IPC 8 full level  
**H01P 1/387** (2006.01)

CPC (source: EP KR)  
**H01P 1/387** (2013.01 - EP KR); **H01P 3/18** (2013.01 - KR)

Cited by  
EP1139486A1; EP0843375A1; US5926073A; EP0776060A1; US5745015A; US6731183B2

Designated contracting state (EPC)  
DE FR GB SE

DOCDB simple family (publication)  
**WO 9501659 A1 19950112**; CN 1041256 C 19981216; CN 1111075 A 19951101; DE 69428421 D1 20011031; DE 69428421 T2 20020523; EP 0664573 A1 19950726; EP 0664573 A4 19961120; EP 0664573 B1 20010926; FI 114584 B 20041115; FI 950884 A0 19950227; FI 950884 A 19950227; KR 0174636 B1 19990401; KR 950703213 A 19950823; NO 311391 B1 20011119; NO 950729 D0 19950227; NO 950729 L 19950227

DOCDB simple family (application)  
**JP 9401059 W 19940629**; CN 94190413 A 19940629; DE 69428421 T 19940629; EP 94919825 A 19940629; FI 950884 A 19950227; KR 19950700468 A 19950208; NO 950729 A 19950227