

Title (en)

DIODE PHASE SHIFTER FOR MICROWAVES AND ELECTRONIC SCANNING ANTENNA COMPRISING SAME

Publication

**EP 0013222 B1 19810812 (FR)**

Application

**EP 79401032 A 19791218**

Priority

FR 7836247 A 19781222

Abstract (en)

[origin: US4305052A] A four-state phase shifter for UHF waves comprises two O- pi phase-shifting elements of planar structure on a common substrate, these phase-shifting elements including a symmetrical and an asymmetrical transmission line which can be selectively coupled in one of two ways by the alternate blocking and unblocking of respective diodes for a relative phase reversal. The two phase-shifting elements are linked by two further transmission lines of different propagation constants which can be selectively activated, again with the aid of diodes, and which may be disposed on opposite faces of the substrate or may form part of a coplanar conductor array on the same substrate face.

IPC 1-7

**H01P 1/185**

IPC 8 full level

**H01P 1/185** (2006.01); **H01Q 3/38** (2006.01)

CPC (source: EP US)

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Cited by

EP0089483A1; EP0335788A1; FR2629641A1; US4967172A

Designated contracting state (EPC)

CH DE GB IT NL SE

DOCDB simple family (publication)

**EP 0013222 A1 19800709; EP 0013222 B1 19810812**; DE 2960650 D1 19811112; FR 2445036 A1 19800718; FR 2445036 B1 19820416; JP S5590102 A 19800708; JP S6239561 B2 19870824; US 4305052 A 19811208

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