

Title (en)
MICROWAVE FIN-LINE SWITCH AND LIMITER

Publication
EP 0154583 B1 19881109 (FR)

Application
EP 85400294 A 19850219

Priority
FR 8402853 A 19840224

Abstract (en)
[origin: US4642584A] A slot-line for a microwave device in which is mounted at least one diode connected in parallel between two metallic strips of the slot. At high frequencies (18 to 200 GHz), the inductance L of the diode connections presents a not-negligible impedance which makes it difficult to use the diode. The device in accordance with the invention comprises a slot-line reentrant circuit which provides compensation for the diode inductance and is constituted by a metallic section which is coplanar with the line and connected in series with the diode. The compensating section is short-circuited or open-circuited with respect to the metallic strip in which it is reentrant. The electrical length of the compensating section is adjustable by means of wire, conductive varnish or metal pads.

IPC 1-7
H01P 1/15

IPC 8 full level
H01P 1/15 (2006.01)

CPC (source: EP US)
H01P 1/15 (2013.01 - EP US)

Cited by
GB2202683B; US7507825B2; US8039626B2; US7544801B2

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EP 0154583 A1 19850911; EP 0154583 B1 19881109; DE 3566197 D1 19881215; FR 2560442 A1 19850830; FR 2560442 B1 19870807; US 4642584 A 19870210

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