

Title (en)

PHASE SHIFTER TUNABLE VIA APERTURES IN THE GROUND PLANE OF THE WAVE GUIDE

Title (de)

ÜBER ÖFFNUNGEN IN DER MASSEFLÄCHE DES WELLENLEITERS ABSTIMMBARER PHASENSCHIEBER

Title (fr)

DEPHASEUR ACCORDE A OUVERTURE

Publication

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Application

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Priority

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- EP 0201428 W 20020212
- EP 01301238 A 20010214

Abstract (en)

[origin: EP1235296A1] A phase shifting element adapted to introduce a variable phase shift to an electromagnetic wave includes a transmission line segment (10), such as a microstrip line segment (1) or a segment of a waveguide, above a ground plane (or waveguide wall) (2). The ground plane or wall (2) includes at least one aperture (3) positioned below the microstrip line or waveguide segment (1). An electrically conductive tuning plate (4) is provided adjacent the ground plane or wall (2) and is movable, toward or away from the ground plane or wall. Movement of the tuning plate (4) provides adjustment of the phase shift introduced to an electromagnetic wave propagated through the waveguide segment. <IMAGE> <IMAGE>

IPC 1-7

H01P 1/18; **H01Q 3/26**

IPC 8 full level

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Cited by

US9860075B1; US9948355B2; US10069535B2; US10148016B2; US10755542B2; US9628854B2; US9917341B2; US9954287B2; US10139820B2; US10679767B2; US10916969B2; US9722318B2; US10090606B2; US10326689B2; US10341142B2; US10340600B2; US10389029B2; US10777873B2; US9608740B2; US9699785B2; US9788326B2; US9836957B2; US9906269B2; US10063280B2; US10194437B2; US10291311B2; US9627768B2; US9742462B2; US9831912B2; US9954286B2; US9997819B2; US10135145B2; US10168695B2; US10359749B2; US10411356B2; US9705610B2; US9820146B2; US9853342B2; US9876587B2; US9913139B2; US9947982B2; US10051629B2; US10225025B2; US10355367B2; US9755697B2; US9768833B2; US9794003B2; US9871282B2; US9876584B2; US9999038B2; US10009065B2; US10020587B2; US10291334B2; US9680670B2; US9712350B2; US9847566B2; US9866276B2; US9876605B1; US10136434B2; US10243784B2; US10312567B2; US10498044B2; US11032819B2; US9615269B2; US9866309B2; US9887447B2; US9935703B2; US9973416B2; US9973940B1; US9998932B2; US10050697B2; US10264586B2; US10326494B2; US10446936B2; US9893795B1; US9912027B2; US9948354B2; US10374316B2; US10530505B2; US10665942B2; US10819035B2; US9640850B2; US9653770B2; US9661505B2; US9674711B2; US9912033B2; US10009067B2; US10033107B2; US10069185B2; US10142086B2; US10320586B2; US10361489B2; US10784670B2; US9628116B2; US9762289B2; US9929755B2; US9930668B2; US10051483B2; US10051630B2; US10091787B2; US10224634B2; US10340601B2; US10340603B2; US10547348B2; US10601494B2; US9729197B2; US9769020B2; US9793951B2; US9806818B2; US9871558B2; US9927517B1; US9948333B2; US9960808B2; US10033108B2; US10243270B2; US10637149B2; US10694379B2; US10811767B2; US9654173B2; US9692101B2; US9876570B2; US9876264B2; US9876571B2; US9882257B2; US9912381B2; US9912382B2; US9967002B2; US10020844B2; US10074890B2; US10096881B2; US10135146B2; US10154493B2; US10178445B2; US10650940B2; US9685992B2; US9742521B2; US9749083B2; US9871283B2; US9882277B2; US9912419B1; US9967173B2; US10074886B2; US10079661B2; US10135147B2; US10144036B2; US10535928B2; US10727599B2; US10938108B2; US9667317B2; US9705571B2; US9735833B2; US9769128B2; US9780834B2; US9793955B2; US9800327B2; US9838078B2; US9911020B1; US10090594B2; US10103422B2; US10205655B2; US10224981B2; US10298293B2; US10340573B2; US10340983B2; US10382976B2; US10396887B2; US10439675B2; US10797781B2; US10812174B2; US9608692B2; US9787412B2; US9838896B1; US9847850B2; US9865911B2; US9882657B2; US9904535B2; US9973299B2; US9991580B2; US9998870B1; US10009063B2; US10009901B2; US10027398B2; US10027397B2; US10044409B2; US10090601B2; US10103801B2; US10142010B2; US10225842B2; US10305190B2; US10348391B2; US10349418B2; US10389037B2; US10770800B2

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