

Title (en)
BROADBAND POLARISATION FILTER

Publication
EP 0147693 B1 19920513 (DE)

Application
EP 84114869 A 19841206

Priority
DE 3345689 A 19831216

Abstract (en)
[origin: EP0147693A2] This broadband polarisation filter is used for the separation of orthogonal, linear-polarised electromagnetic waves. A waveguide section 4, on the input side, of rectangular or square cross-section, has two coupling windows 11, located on opposite sides from each other. Rectangular waveguide arms 2, 3 branch out from these coupling windows 11 and open into a common broadband fork 8 after passing through curves 5, 7. In order to provide a particularly compact spatial design, the lateral waveguide arms 2, 3 are allowed to diverge at an acute angle α , and, after being guided parallel to one another and then passing through an S-shaped E-plane curve 7 in the broadband fork 8, are led together and the waveguide arm 9, flowing out of the input-side waveguide section 4 is displaced in parallel before the broadband fork 8, by means of an S-shaped E-plane curve 10, with respect to the major direction and the plane of the lateral waveguide sections 2, 3.

IPC 1-7
H01P 1/161

IPC 8 full level
H01P 1/161 (2006.01)

CPC (source: EP)
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Cited by
EP0419892A3; EP0196065A1; US4700154A

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