

Title (en)
MICROWAVE POLARISATION FILTER

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Application
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Abstract (en)
[origin: EP0280151A1] The invention relates to a broadband, compact polarisation filter with a symmetrical five-arm double branch (1) for a round or square waveguide (2) to branch into two pairs of in each case mutually opposite rectangular waveguides (3, 4, 5, 6). The first pair (3, 4) is supplied from an inherently symmetrical waveguide fork (7) which is formed by a first rectangular waveguide series branch (8) and two straight rectangular waveguide arms (9, 10), connected thereto via E-bends (22, 23). The second pair is likewise supplied from an inherently symmetrical waveguide fork (11) which is constructed from a second rectangular waveguide series branch (12) and two rectangular waveguide arms (14, 15) which are connected thereto via E-bends (22, 23) and are each angled over their narrow side with an H-bend (13). The polarisation filter according to the invention can be used, in particular, for supplying parabolic and shell-type antennas. <IMAGE>

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