

Title (en)  
POLARIZATION SEPARATING FILTER

Title (de)  
POLARISATIONSWEICHE

Title (fr)  
AIGUILLAGE DE POLARISATION

Publication  
**EP 1183752 A1 20020306 (DE)**

Application  
**EP 00922816 A 20000512**

Priority  
• DE 19922709 A 19990518  
• IB 0000633 W 20000512

Abstract (en)  
[origin: WO0070705A1] The invention relates to a polarization separating filter which can be integrated in a planar hollow conductor circuit and which is comprised of a central hollow conductor (1) in which two waves that are polarized in an orthogonally linear manner are capable of being propagated. One end of the central hollow conductor (1) is terminated by a short-circuit wall (2), and two hollow conductors (3, 4) are, in the vicinity of the short-circuit wall (2), coupled to two opposing walls of the central hollow conductor (1) in an at least approximately identical cross-sectional plane that extends perpendicular to the longitudinal axis of the hollow conductor. The hollow conductors (3, 4) coupled on the faces thereof to the central hollow conductor (1) are turned with regard to their cross-sections in such a manner that the fields therein are oriented orthogonally in relation to one another.

IPC 1-7  
**H01P 1/161**

IPC 8 full level  
**H01P 1/161** (2006.01)

CPC (source: EP US)  
**H01P 1/161** (2013.01 - EP US)

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**WO 0070705 A1 20001123**; AU 4309400 A 20001205; DE 19922709 A1 20001221; DE 50005144 D1 20040304; EP 1183752 A1 20020306; EP 1183752 B1 20040128; NO 20015644 D0 20011119; NO 20015644 L 20020111; US 6768395 B1 20040727

DOCDB simple family (application)  
**IB 0000633 W 20000512**; AU 4309400 A 20000512; DE 19922709 A 19990518; DE 50005144 T 20000512; EP 00922816 A 20000512; NO 20015644 A 20011119; US 97941102 A 20020221