

Title (en)  
Frequency selective surface devices

Title (de)  
Frequenzselektive Oberflächenanordnung

Title (fr)  
Dispositifs à surface sélective en fréquence

Publication  
**EP 0711001 B1 20011212 (EN)**

Application  
**EP 95306717 A 19950922**

Priority  
GB 9422278 A 19941104

Abstract (en)  
[origin: EP0711001A2] A frequency selective surface device separates or combines two channels by using two or three spaced layers of resonant elements such as loops 14 which are coupled and which have interactive effects between the layers such that the relatively broad transmission and reflection bands characteristic of the resonant elements are modified by reinforcement of multiple reflections between the layers in the manner of a Fabry-Perot etalon in order to increase the sharpness of the transition of the transmission and reflection bands and thereby to permit combination or separation of closely spaced channels. <IMAGE>

IPC 1-7  
**H01Q 15/00**

IPC 8 full level  
**H01Q 15/00** (2006.01)

CPC (source: EP)  
**H01Q 15/0026** (2013.01); **H01Q 15/0033** (2013.01)

Citation (examination)  
• CAHILL ET AL: "Frequency selective surfaces for millimetre and submillimetre wave quasi optical demultiplexing", INTERNATIONAL JOURNAL OF INFRARED AND MILLIMETER WAVES, vol. 14, no. 9, September 1993 (1993-09-01), NEW YORK US, pages 1769 - 1700  
• WANNIER ET AL: "Quasioptical band-rejection filter at 100 Ghz", REVIEW OF SCIENTIFIC INSTRUMENTS, vol. 47, no. 1, January 1976 (1976-01-01), pages 56 - 58

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CN102760964A; CN109560374A; FR2763177A1; CN107852813A; EP3329750A4; WO2021197277A1

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