

Title (en)

FREQUENCY MULTIBAND ANTENNA WITH PHOTONIC BANDGAP MATERIAL

Title (de)

MULTI-FREQUENZBANDANTENNE MIT PHOTONISCHEM BANDLÜCKENMATERIAL

Title (fr)

ANTENNE A MATERIAU BIP MULTI-BANDES DE FREQUENCES

Publication

**EP 1554776 A1 20050720 (FR)**

Application

**EP 03778446 A 20031023**

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Abstract (en)

[origin: WO2004040695A1] The invention concerns a frequency multiband antenna comprising: a photonic bandgap material (142) having at least one band gap, one single periodicity defect (156) of the bandgap material so as to produce several narrow bandwidths within said at least one band gap of said bandgap material, and an excitation device (160, 162) capable of transmitting and/or receiving electromagnetic waves within the narrow bandwidths.

IPC 1-7

**H01Q 5/00**; **H01Q 15/00**; **H01Q 19/17**; **H01Q 25/00**

IPC 8 full level

**H01Q 5/00** (2015.01); **H01Q 5/10** (2015.01); **H01Q 5/35** (2015.01); **H01Q 5/40** (2015.01); **H01Q 15/00** (2006.01); **H01Q 19/17** (2006.01); **H01Q 25/00** (2006.01)

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Citation (search report)

See references of WO 2004040695A1

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