

Title (en)  
MULTIPLE BAND ANTENNA DEVICE

Title (de)  
MEHRBANDANTENNENSYSTEM

Title (fr)  
DISPOSITIF ANTENNE A BANDE MULTIPLE

Publication  
**EP 1129503 A1 20010905 (EN)**

Application  
**EP 99947054 A 19990423**

Priority  
• SE 9900658 W 19990423  
• SE 9801447 A 19980424

Abstract (en)  
[origin: WO9956345A1] A multiple band antenna device (1) comprises a plate element (2), on which two antenna elements (3, 4) intended for transmitting and receiving are formed. They have a common feeding point (5) and are at least partially shaped into acute angles in zigzag, mutually facing acute angles (3.1, 3.2, ..., 4.1, 4.2, ...) in the two antenna elements (3, 4) within an arbitrary interval, which comprises at least one such acute angle (3.1, 3.2, ..., 4.1, 4.2, ...) in each antenna element (3, 4), being displaced in relation to each other and having different ascent. Moreover, the antenna elements (3, 4) are so tuned that the first element (3) has a first resonance maximum at a first frequency (f1) and the second antenna element (4) has a first resonance maximum at a second frequency (f2), which is at least twice as high as said first frequency (f1), the first antenna element (3) having a second resonance maximum at a third frequency (f3), which is lower than said second frequency (f2).

IPC 1-7  
**H01Q 1/36**

IPC 8 full level  
**H01Q 1/24** (2006.01); **H01Q 1/38** (2006.01); **H01Q 5/00** (2006.01)

CPC (source: EP)  
**H01Q 1/243** (2013.01); **H01Q 1/38** (2013.01); **H01Q 5/371** (2015.01)

Citation (search report)  
See references of WO 9956345A1

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 9956345 A1 19991104**; AU 4300299 A 19991116; EP 1129503 A1 20010905; SE 513055 C2 20000626; SE 9801447 D0 19980424; SE 9801447 L 19991025

DOCDB simple family (application)  
**SE 9900658 W 19990423**; AU 4300299 A 19990423; EP 99947054 A 19990423; SE 9801447 A 19980424