

Title (en)  
RESONANT ANTENNA

Title (de)  
RESONANZANTENNE

Title (fr)  
ANTENNE ACCORDEE

Publication  
**EP 0965152 B1 20020904 (DE)**

Application  
**EP 98912379 A 19980224**

Priority  
• DE 19707535 A 19970225  
• EP 9801040 W 19980224

Abstract (en)  
[origin: US6304219B1] An antenna for receiving and transmitting electromagnetic microwaves having  $\lambda$  wavelengths consisting of a substrate layer (10) made of a low dielectric material which bears on one side a conductive ground plane (1) and whose opposite side is conductively structured as micro-strip circuits. The conductive structure (S) has an elongate conductor section (3, 3a, 3b, R, Ra, Rb) which acts as a resonator and whose length (LR) is shorter than  $\lambda/4$ . One end of said conductor section is conductively connected to the ground plane (8, 1) and its other end is conductively connected to at least another conductor section (2, 2a, 2b, 4, 42a, 42b, 46a, 46b, K) used as an end capacitor to adjust resonance conditions. The conductor section (3, 3a, 3b, R, Ra, Rb) which acts as a resonator is connected to the inner conductor of a coaxial optical fiber and the outer conductor or the coaxial optical fiber is connected to the ground plane (1).

IPC 1-7  
**H01Q 9/04**

IPC 8 full level  
**H01Q 1/24** (2006.01); **H01Q 1/38** (2006.01); **H01Q 1/40** (2006.01); **H01Q 5/10** (2015.01); **H01Q 9/04** (2006.01); **H01Q 9/30** (2006.01); **H01Q 13/08** (2006.01)

CPC (source: EP KR US)  
**H01Q 1/24** (2013.01 - EP US); **H01Q 1/38** (2013.01 - EP US); **H01Q 1/40** (2013.01 - EP US); **H01Q 9/04** (2013.01 - KR); **H01Q 13/08** (2013.01 - EP US)

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AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

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**US 6304219 B1 20011016**; AT E223621 T1 20020915; AU 6724398 A 19980918; CA 2282611 A1 19980903; CA 2282611 C 20051115; DE 19707535 A1 19980827; DE 19880222 D2 20000615; DE 59805415 D1 20021010; EP 0965152 A1 19991222; EP 0965152 B1 20020904; IL 131558 A0 20010128; JP 2001513283 A 20010828; KR 20000075673 A 20001226; WO 9838694 A1 19980903

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