

Title (en)  
Dielectric resonator antenna

Title (de)  
Dielektrische Resonatorantenne

Title (fr)  
Antenne diélectrique à résonateur

Publication  
**EP 0982799 B1 20040526 (DE)**

Application  
**EP 99202591 A 19990809**

Priority  
DE 19837266 A 19980817

Abstract (en)  
[origin: KR20000017328A] PURPOSE: A dielectric resonance antenna is provided to improve an impedance matching with the transmission lines. CONSTITUTION: The dielectric resonance antenna has a hexagonal shape and comprises a symmetric plane; a conductive layer disposed on the symmetric plane; and an electrical contact disposed on the symmetric plane and insulated from the conductive layer. The conductive layer and the electrical contact are connected to a transmission line(9, 10, 11) such that signals are transmitted or received. A metal layer(6) can be provided at a side wall normal to the symmetric plane such that it is connected with the electrical contact. The antenna is soldered by lead on a power printed circuit board(8). Thus, the antenna is impedance-matched with the transmission lines.

IPC 1-7  
**H01Q 9/04**; **H01Q 1/24**; **H01Q 13/24**

IPC 8 full level  
**H01P 7/10** (2006.01); **H01P 5/08** (2006.01); **H01Q 1/24** (2006.01); **H01Q 1/38** (2006.01); **H01Q 5/10** (2015.01); **H01Q 9/04** (2006.01); **H01Q 13/00** (2006.01); **H01Q 13/24** (2006.01)

CPC (source: EP KR US)  
**H01Q 1/242** (2013.01 - EP US); **H01Q 1/38** (2013.01 - KR); **H01Q 5/10** (2015.01 - KR); **H01Q 9/0485** (2013.01 - EP US); **H01Q 13/24** (2013.01 - KR)

Cited by  
CN100418267C; CN102723596A; CN112928478A; CN102738579A; EP1018780A1; EP1014489A3; US7161535B2; US6323808B1; US7995001B2; US7183975B2; WO2004017461A1; WO2004075343A1

Designated contracting state (EPC)  
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**DE 19837266 A 19980817**; DE 59909570 T 19990809; EP 99202591 A 19990809; JP 23002899 A 19990816; KR 19990033642 A 19990816; TW 88111278 A 19990702; US 36954099 A 19990806