

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 5/08 (2006.01); **H01P 7/10** (2006.01); **H01Q 1/24** (2006.01); **H01Q 1/38** (2006.01); **H01Q 5/01** (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; CN102738579A; CN112928478A; EP1018780A1; EP1014489A3; US7161535B2; US7995001B2; US7183975B2; US6323808B1; WO2004017461A1; WO2004075343A1

Designated contracting state (EPC)
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