

Title (en)

Multilevel and space-filling round-planes for miniature and multiband antennas

Title (de)

Raumfüllende runde Flächen mit mehreren Ebenen für Miniatur- und Mehrbandantennen

Title (fr)

Aléseuse à plusieurs niveaux et compacte pour antennes miniatures et multibandes

Publication

**EP 1837950 A2 20070926 (EN)**

Application

**EP 07107431 A 20010913**

Priority

EP 01983481 A 20010913

Abstract (en)

An antenna system includes one or more conductive elements acting as radiating elements, and a multilevel or space-filling ground-plane, wherein said ground-plane has a particular geometry which affects the operating characteristics of the antenna. The return loss, bandwidth, gain, radiation efficiency, and frequency performance can be controlled through multilevel and space-filling ground-plane design. Also, said ground-plane can be reduced compared to those of antennas with solid ground-planes.

IPC 8 full level

**H01Q 1/36** (2006.01); **H01Q 1/38** (2006.01); **H01Q 1/48** (2006.01); **H01Q 5/00** (2006.01); **H01Q 5/30** (2015.01); **H01Q 9/04** (2006.01)

CPC (source: EP)

**H01Q 1/36** (2013.01); **H01Q 1/38** (2013.01); **H01Q 1/48** (2013.01); **H01Q 5/30** (2015.01); **H01Q 9/0407** (2013.01)

Cited by

RU2486644C1; US7932863B2; US7872605B2; US8111199B2; US8593360B2; EP2884580A1; WO2015086420A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

**EP 1837950 A2 20070926; EP 1837950 A3 20071017**

DOCDB simple family (application)

**EP 07107431 A 20010913**