

Title (en)

MAGNETIC DIPOLE AND SHIELDED SPIRAL SHEET ANTENNAS STRUCTURES AND METHODS

Title (de)

MAGNETDIPOL- UND ABGESCHIRMTE SPIRALFLÄCHENANTENNENSTRUKTUREN UND -VERFAHREN

Title (fr)

PROCEDES ET STRUCTURES D'ANTENNES DIPOLES MAGNETIQUES ET D'ANTENNES BLINDEES EN FEUILLE EN SPIRALE

Publication

EP 1371111 A1 20031217 (EN)

Application

EP 02724937 A 20020211

Priority

- US 0204228 W 20020211
- US 78172001 A 20010212
- US 78177901 A 20010212
- US 78178001 A 20010212
- US 78172301 A 20010212

Abstract (en)

[origin: WO02065583A1] The spiral sheet antenna (10) allows a small efficient antenna structure that is much smaller than the electromagnetic wavelength. It achieves the small size by introducing a high effective dielectric constant through geometry rather than through a special high dielectric constant material. It typically includes a rectangular cylinder-like shape, with a seam. The edges of the seam can overlap to make a high capacitance, or they can make a high capacitance by simply having the edges of the seam very close to each other. The highcapacitance serves the same role as a high dielectric constant material in a conventional compact antenna.

IPC 1-7

H01Q 9/04; **H01Q 5/00**; **H01Q 1/24**

IPC 8 full level

H01Q 1/24 (2006.01); **H01Q 5/00** (2006.01); **H01Q 9/04** (2006.01); **H01Q 13/12** (2006.01); **H01Q 13/22** (2006.01)

CPC (source: EP KR)

H01Q 1/243 (2013.01 - EP); **H01Q 9/0442** (2013.01 - EP); **H01Q 11/08** (2013.01 - KR); **H01Q 13/12** (2013.01 - EP); **H01Q 13/22** (2013.01 - EP)

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)

WO 02065583 A1 20020822; AT E412259 T1 20081115; DE 60229503 D1 20081204; EP 1371111 A1 20031217; EP 1371111 A4 20050713; EP 1371111 B1 20081022; KR 100945124 B1 20100302; KR 20030084925 A 20031101; KR 20080064907 A 20080709; KR 20090016491 A 20090213; KR 20100037168 A 20100408

DOCDB simple family (application)

US 0204228 W 20020211; AT 02724937 T 20020211; DE 60229503 T 20020211; EP 02724937 A 20020211; KR 20037010598 A 20030812; KR 20087014585 A 20080616; KR 20087031485 A 20081224; KR 20107004863 A 20020211