

Title (en)  
Planar monopole antennas

Title (de)  
Planare Monopolantennen

Title (fr)  
Antennes monopoles planaires

Publication  
**EP 1717902 B1 20090304 (EN)**

Application  
**EP 06007137 A 20060404**

Priority  
CN 200510067238 A 20050420

Abstract (en)  
[origin: EP1717902A1] Planar monopole antennas. A planar monopole antenna for communicating radio signals within a specific frequency range includes a substrate, a ground, a first sleeve, a second sleeve and a radiator. The radiator and the ground are formed on the substrate. The first and second sleeves project from a side of the ground in a first direction, wherein the first sleeve has a first length, and the second sleeve has a second length in the first direction. The side of the ground defines a third length. The radiator has a fourth length in the first direction, substantially equal to the sum of the first, second, and third lengths.

IPC 8 full level  
**H01Q 9/36** (2006.01); **H01Q 1/38** (2006.01); **H01Q 5/00** (2006.01); **H01Q 9/40** (2006.01)

CPC (source: EP)  
**H01Q 1/38** (2013.01); **H01Q 1/48** (2013.01); **H01Q 9/36** (2013.01); **H01Q 9/40** (2013.01)

Cited by  
EP2683030A1; EP2673840A4; EP2096708A1; FR2928037A1; EP3688836A4; US11515631B2; WO2019066713A1; WO2015185267A1; US9252486B2; US9595758B2

Designated contracting state (EPC)  
DE ES GB IT

DOCDB simple family (publication)  
**EP 1717902 A1 20061102; EP 1717902 B1 20090304**; CN 1855625 A 20061101; DE 602006005413 D1 20090416

DOCDB simple family (application)  
**EP 06007137 A 20060404**; CN 200510067238 A 20050420; DE 602006005413 T 20060404