

Title (en)
FLAT-PLATE MONOPOLE ANTENNAE

Title (de)
FLACHE MONOPOLANTENNE

Title (fr)
ANTENNE UNIPOLAIRE PLATE

Publication
EP 1188200 B1 20030305 (EN)

Application
EP 00938358 A 20000602

Priority
• CA 0000635 W 20000602
• US 13751099 P 19990602

Abstract (en)
[origin: WO0076023A1] A monopole antenna includes a conductive ground plane, a conductive radiating plate, an antennae interface terminal, and a resonant network for defining operating characteristics of the antennae. The conductive radiating plate is spaced apart from the ground plane and, together with the ground plane, defines a cavity therebetween. The antennae interface terminal is in communication with the cavity and is electrically isolated from the ground plane and the radiating plate. The resonant network includes an inductive element electrically coupled between the interface terminal and the radiating plate. Preferably, the inductive element is disposed within the cavity and comprises a first air-core coiled wire inductor electrically coupled between the radiating plate and the interface terminal, and a second air-core coiled wire inductor electrically coupled between the interface terminal and the ground plane. Also, preferably each inductor has a number of wire turns, and the resonant network provides the antenna with a resonant frequency determined in accordance with the number of wire turns.

IPC 1-7
H01Q 1/24

IPC 8 full level
H01Q 13/08 (2006.01); **H01Q 1/24** (2006.01); **H01Q 9/36** (2006.01); **H01Q 9/38** (2006.01)

CPC (source: EP KR)
H01Q 1/243 (2013.01 - EP); **H01Q 9/30** (2013.01 - KR); **H01Q 9/36** (2013.01 - EP); **H01Q 9/38** (2013.01 - EP)

Cited by
CN110495052A

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 0076023 A1 20001214; AT E233959 T1 20030315; AU 5377300 A 20001228; CA 2373768 A1 20001214; DE 60001571 D1 20030410; DE 60001571 T2 20030925; EP 1188200 A1 20020320; EP 1188200 B1 20030305; JP 2003501926 A 20030114; KR 20020015694 A 20020228

DOCDB simple family (application)
CA 0000635 W 20000602; AT 00938358 T 20000602; AU 5377300 A 20000602; CA 2373768 A 20000602; DE 60001571 T 20000602; EP 00938358 A 20000602; JP 2001502194 A 20000602; KR 20017015540 A 20011203