

Title (en)

Compact printed antenna with little radiation in elevation

Title (de)

Kompakt gedruckte Antenne mit geringer Strahlung in Elevationsrichtung

Title (fr)

Antenne imprimée compacte pour rayonnement à faible élévation

Publication

EP 0805512 B1 20021106 (FR)

Application

EP 97460016 A 19970417

Priority

FR 9605383 A 19960424

Abstract (en)

[origin: EP0805512A1] The antenna has a conductive deposit (30) on one face of a dielectric sheet. The other face is covered by an earth plane. Four radial slots (31-34) are spaced at 90 degrees intervals around the circumference of the sheet to determine resonant frequency of a selected higher mode. The fundamental mode gives a radiation pattern with a maximum at right angles to the plane of the element. In the higher (TM₂₁, TM₀₁) mode, the current flow at right angles to the slots. The lengths (L_o) and widths (L_a) of the slots are preferably computed by finite element analysis software.

IPC 1-7

H01Q 9/04

IPC 8 full level

H01Q 9/04 (2006.01)

CPC (source: EP US)

H01Q 9/0407 (2013.01 - EP US)

Cited by

FR2912266A1; US6480170B1; WO9953568A1

Designated contracting state (EPC)

DE GB

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EP 0805512 A1 19971105; EP 0805512 B1 20021106; CA 2203359 A1 19971024; DE 69716807 D1 20021212; DE 69716807 T2 20030710; FR 2748162 A1 19971031; FR 2748162 B1 19980724; US 5966096 A 19991012

DOCDB simple family (application)

EP 97460016 A 19970417; CA 2203359 A 19970422; DE 69716807 T 19970417; FR 9605383 A 19960424; US 83925297 A 19970417