

Title (en)
Flush mount antenna.

Title (de)
Bündig montierte Antenne.

Title (fr)
Antenne à montage affleurant.

Publication
EP 0402005 A2 19901212 (EN)

Application
EP 90305620 A 19900523

Priority
US 36440489 A 19890609

Abstract (en)
An antenna (10) capable of being mounted flush with variously shaped surfaces comprises a dielectric filled radiating cavity (26) with two opposing tapered walls. The radiating cavity is excited by a microstrip horn (16) mounted on a dielectric board (14) below a second cavity (54) containing an absorber (52). The radiating cavity (26) is defined between a taper wall (50) of a metal top member (20) and an opposing taper wall (32) of a metal base member (12). A dielectric slab (18) fills the radiating cavity, and the top taper wall (50) acts as an extension of the microstrip horn (16). The upper surfaces of the base member (12), top member (20), and dielectric slab (18) conform to the surface in which the antenna (10) is mounted.

IPC 1-7
H01Q 1/28; **H01Q 9/04**

IPC 8 full level
H01Q 1/28 (2006.01); **H01Q 1/36** (2006.01); **H01Q 9/04** (2006.01); **H01Q 13/02** (2006.01)

CPC (source: EP)
H01Q 1/286 (2013.01); **H01Q 9/0485** (2013.01)

Cited by
EP3886253A1; CN103606732A; DE10322803A1; US10297919B2; WO2016053395A1

Designated contracting state (EPC)
BE DE FR GB IT NL

DOCDB simple family (publication)
EP 0402005 A2 19901212; **EP 0402005 A3 19910515**; **EP 0402005 B1 19951213**; DE 69024103 D1 19960125; DE 69024103 T2 19960829; IL 94458 A0 19910310; JP 3045522 B2 20000529; JP H0326101 A 19910204

DOCDB simple family (application)
EP 90305620 A 19900523; DE 69024103 T 19900523; IL 9445890 A 19900521; JP 14970690 A 19900607