

Title (en)
FLUSH MOUNT ANTENNA

Publication
EP 0402005 A3 19910515 (EN)

Application
EP 90305620 A 19900523

Priority
US 36440489 A 19890609

Abstract (en)
[origin: EP0402005A2] 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 9/04; H01Q 1/28

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)

Citation (search report)
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• [A] US 4415900 A 19831115 - KALOI CYRIL M [US]
• [A] US 2822542 A 19580204 - BUTTERFIELD FRANK E
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EP3886253A1; CN103606732A; DE10322803A1; US10297919B2; WO2016053395A1

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