

Title (en)

WIDE BAND ANTENNA HAVING UNITARY RADIATOR/GROUND PLANE

Title (de)

BREITBANDIGE ANTENNE MIT EINER STRAHLER/GRUNDFLÄCHENEINHEIT

Title (fr)

ANTENNE A LARGE BANDE POSSEDANT UN ENSEMBLE ELEMENT RAYONNANT/PLAN DE SOL

Publication

**EP 1149431 A1 20011031 (EN)**

Application

**EP 99965829 A 19991117**

Priority

- US 9927296 W 19991117
- US 19378198 A 19981117
- US 44152999 A 19991116

Abstract (en)

[origin: WO0030211A1] An antenna is formed from a single sheet of generally planar metal that is cut to provide four geometric antenna shapes that comprise a ground plane element (15), a two-section shorting element that is defined by two generally parallel fold lines (16, 17), a radiating element (14), and an arm (18) that has one end fixed to a generally central portion of the radiating element and has a free end that extends toward a fold line. Folding the metal sheet on the two fold lines positions the radiating element above the ground plane element. A transmit/receive coaxial cable (30) is aligned with a gap (115) that is formed between the two sections of the shorting element. The cable's outer metal sheath (32) is connected to a metal tab (48), and the metal tab is secured to a surface of the ground plane element. The cable's center conductor (31) is secured to a surface of the radiating element. A radome and its mounting tab complete the antenna assembly.

IPC 1-7

**H01Q 9/04**; **H01Q 1/38**

IPC 8 full level

**H01P 11/00** (2006.01); **H01Q 1/00** (2006.01); **H01Q 9/04** (2006.01); **H01Q 13/08** (2006.01)

CPC (source: EP)

**H01Q 9/0421** (2013.01); **H01Q 9/0471** (2013.01)

Designated contracting state (EPC)

DE FI FR GB SE

DOCDB simple family (publication)

**WO 0030211 A1 20000525**; **WO 0030211 A8 20010208**; BR 9915453 A 20011016; CN 1331853 A 20020116; EP 1149431 A1 20011031; EP 1149431 A4 20040721; JP 2002530908 A 20020917

DOCDB simple family (application)

**US 9927296 W 19991117**; BR 9915453 A 19991117; CN 99814745 A 19991117; EP 99965829 A 19991117; JP 2000583118 A 19991117