

Title (en)
Flat, three-dimensional antenna

Title (de)
Flache dreidimensionale Antenne

Title (fr)
Antenne plane tridimensionnelle

Publication
EP 0795926 B1 20021211 (DE)

Application
EP 97102472 A 19970215

Priority
CH 66796 A 19960313

Abstract (en)
[origin: EP0795926A2] The antenna is built up in three planes with a baseplate (1) defining one plane as the wall of a metal box or the metallisation on a circuit board. The slot distributor in another plane is a U-shaped metallic strip with a quarter wavelength centre portion (2) and two limbs (3,4), each of one-eighth of a wavelength long and short circuited (5,6) to the baseplate. The resonant structure in the third plane comprises two symmetrical plates (9,10) separated by a gap (11). The feeder is a strip line (7) joined by a leg (8) to a coaxial connection under the baseplate, or to a microstrip line on a circuit board.

IPC 1-7
H01Q 13/10; **H01Q 1/22**; **H04B 7/08**; **H01Q 9/04**

IPC 8 full level
H01Q 1/22 (2006.01); **H01Q 5/00** (2006.01); **H01Q 5/371** (2015.01); **H01Q 9/04** (2006.01); **H01Q 13/08** (2006.01); **H01Q 13/10** (2006.01); **H04B 7/04** (2006.01)

CPC (source: EP US)
H01Q 1/2258 (2013.01 - EP US); **H01Q 5/371** (2015.01 - EP US); **H01Q 9/0421** (2013.01 - EP US); **H01Q 13/10** (2013.01 - EP US)

Cited by
DE19984046B3; FR2825837A1; FR2822593A1; EP2600466A1; EP1760833A4; EP1018779A3; EP0924797A1; FR2772517A1; US6133879A; EP1075043A1; FR2797352A1; SG109428A1; EP0923156A1; FR2772518A1; US6133880A; AU743872B2; GB2363911A; GB2363911B; DE19983824B4; DE19983824B8; CN108539395A; US6930642B2; US6304220B1; US8638266B2; US8890766B2; WO02101874A1; WO2010010529A3; WO0036700A1; WO0057511A1; WO2007092626A3; WO0118910A1; US6343208B1; US6806831B2; US7511669B2; EP0825673B1; US7403162B2; US7423597B2; US7394433B2; US7423599B2; US7800547B2; US7825864B2; US7872608B2; US7495621B2

Designated contracting state (EPC)
CH DE FR GB IT LI NL SE

DOCDB simple family (publication)
EP 0795926 A2 19970917; **EP 0795926 A3 19990107**; **EP 0795926 B1 20021211**; DE 59708915 D1 20030123; JP H1056320 A 19980224; US 5943020 A 19990824

DOCDB simple family (application)
EP 97102472 A 19970215; DE 59708915 T 19970215; JP 8546497 A 19970228; US 81593997 A 19970313