

Title (en)

Device for coupling a rectangular waveguide to a feed network for a planar antenna

Title (de)

Anordnung zum Ankoppeln eines Rechteckhohlleiters an ein Speisennetzwerk einer planaren Antenne

Title (fr)

Dispositif de couplage d'un guide d'ondes à un réseau d'alimentation pour une antenne plane

Publication

EP 0886337 A3 19991110 (DE)

Application

EP 98103073 A 19980221

Priority

DE 19725492 A 19970617

Abstract (en)

[origin: DE19725492C1] The arrangement includes a feeder network (2) and a planar line structure (5) of an antenna which are applied on different sides of a two layered substrate (3,4) with an earth surface (6) between both substrate layers. The square hollow conductor (1) is a hollow conductor elbow which is overlapped with a microstripline (2). A first hollow conductor section (7) is provided in the substrate plane and a second hollow conductor section (8) is provided orthogonally to the substrate plane. The hollow conductor does not have a wall in the substrate plane and the walls which are orthogonal on the substrate are contacted with the earth surface. A bridge (9) is provided in the hollow conductor and has a first section (10) in the first hollow conductor section contacting the microstripline. A second section of the bridge is provided in the second hollow conductor section.

IPC 1-7

H01Q 21/00

IPC 8 full level

H01P 5/107 (2006.01); **H01Q 21/00** (2006.01)

CPC (source: EP)

H01P 5/107 (2013.01); **H01Q 21/0075** (2013.01); **H01Q 21/0087** (2013.01)

Citation (search report)

- [A] EP 0074613 A1 19830323 - NEC CORP [JP]
- [A] PATENT ABSTRACTS OF JAPAN vol. 4, no. 87 (E - 016) 21 June 1980 (1980-06-21)
- [A] PATENT ABSTRACTS OF JAPAN vol. 18, no. 45 (P - 1681) 24 January 1994 (1994-01-24)

Cited by

WO2008076029A1

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

DE 19725492 C1 19980820; DE 59811447 D1 20040701; EP 0886337 A2 19981223; EP 0886337 A3 19991110; EP 0886337 B1 20040526

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