

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)

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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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