

Title (en)

FOUR-PORT NETWORK FOR A MONOPULSE-TRACKING MICROWAVE ANTENNA

Publication

**EP 0128970 B1 19900307 (DE)**

Application

**EP 83105973 A 19830618**

Priority

EP 83105973 A 19830618

Abstract (en)

[origin: US4630059A] A four-port network which is connected to a microwave antenna feed horn for separating four signal paths associated, in pairs, with two polarizations and two frequency bands, and with the network also being utilized for the derivation of antenna tracking signals according to the monopulse principle. A conductor is disposed along the longitudinal axis of the waveguide connecting the antenna feed horn with the four-port network, with this conductor extending, on the one hand, to the region of the antenna feed horn throat and, on the other hand, into the four-port network so as to couple in signals of a higher order mode for the derivation of the antenna deviation signals.

IPC 1-7

**H01P 1/16; H01Q 25/04**

IPC 8 full level

**H01P 5/16** (2006.01); **H01P 1/16** (2006.01); **H01P 1/213** (2006.01); **H01P 5/12** (2006.01); **H01Q 13/02** (2006.01); **H01Q 25/04** (2006.01)

CPC (source: EP US)

**H01P 1/16** (2013.01 - EP US); **H01Q 25/04** (2013.01 - EP US)

Cited by

DE102013011651A1; EP0443526A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

**EP 0128970 A1 19841227; EP 0128970 B1 19900307**; BR 8402898 A 19850521; CA 1221163 A 19870428; DE 3381303 D1 19900412; JP H0441521 B2 19920708; JP S6014502 A 19850125; US 4630059 A 19861216

DOCDB simple family (application)

**EP 83105973 A 19830618**; BR 8402898 A 19840614; CA 456750 A 19840615; DE 3381303 T 19830618; JP 12391484 A 19840618; US 62049184 A 19840614