

Title (en)

COUPLING DEVICE BETWEEN TWO MICROWAVE WAVE GUIDES

Publication

**EP 0088664 B1 19870408 (FR)**

Application

**EP 83400364 A 19830222**

Priority

FR 8203732 A 19820305

Abstract (en)

[origin: CA1194946A] . A pivoting joint connects two rectangular waveguides, connecting transmission-reception equipment on board a satellite to an antenna, which is only opened out when the satellite has been placed in orbit. These waveguides comprise a fixed section and a moving section, pivoting about the longitudinal axis common to the two sections. They issue or open out in facing manner on two parallel planar faces separated by a nonzero distance, but which is very small compared with the wavelength. One of these faces has a quarter wave trap ensuring the radio seal of the joint. An abutment defines the position in which the two guides are in an extension of one another. When the satellite reaches orbit, antenna is opened out and the joint pivots to this position.

IPC 1-7

**H01P 1/04**; **H01Q 1/08**

IPC 8 full level

**H01P 1/04** (2006.01); **H01P 1/06** (2006.01); **H01Q 1/08** (2006.01)

CPC (source: EP US)

**H01P 1/042** (2013.01 - EP US); **H01P 1/064** (2013.01 - EP US); **H01Q 1/08** (2013.01 - EP US); **Y10S 343/02** (2013.01 - EP US)

Citation (examination)

Circuits pour ondes guidées" Boudouries et Chenivier, édition Dunod, (1975), page 132

Designated contracting state (EPC)

DE GB IT SE

DOCDB simple family (publication)

**EP 0088664 A1 19830914**; **EP 0088664 B1 19870408**; CA 1194946 A 19851008; DE 3370903 D1 19870514; FR 2522883 A1 19830909; FR 2522883 B1 19840420; JP H0254681 B2 19901122; JP S58166801 A 19831003; US 4625188 A 19861125

DOCDB simple family (application)

**EP 83400364 A 19830222**; CA 422671 A 19830302; DE 3370903 T 19830222; FR 8203732 A 19820305; JP 3569283 A 19830304; US 74466385 A 19850614