

Title (en)

Ultra-high frequency and high-temperature antenna, especially for a spacecraft.

Title (de)

Antenne für ultrahohe Frequenz und für hohe Temperatur, insbesondere für ein Raumfahrzeug.

Title (fr)

Antenne hyperfréquence pouvant fonctionner à température élevée, notamment pour avion spatial.

Publication

EP 0379434 B1 19940706 (FR)

Application

EP 90400140 A 19900118

Priority

FR 8900627 A 19890119

Abstract (en)

[origin: EP0379434A1] The antenna comprises at least one waveguide (20) which opens to the outside through an aperture (12) in a panel (10) of the covering and which includes a tubular portion (22) formed in one piece with the panel, projecting relative to the latter on the inside and connecting with the remainder of the panel around the aperture, the panel with the integrated waveguide being made of a thermostructural refractory composite material, such as carbon/carbon or carbon/ceramic, capable of ensuring propagation of the ultra high frequency waves and constituting an element of a structure which can be taken to high temperature. The waveguide (20) is filled with a refractory dielectric material (26) such as an alumina/alumina type composite material. <IMAGE>

IPC 1-7

H01Q 13/18; **H01Q 21/06**; **H01Q 1/40**

IPC 8 full level

H01Q 1/28 (2006.01); **H01Q 1/40** (2006.01); **H01Q 13/02** (2006.01); **H01Q 13/18** (2006.01); **H01Q 21/06** (2006.01)

CPC (source: EP US)

H01Q 1/286 (2013.01 - EP); **H01Q 1/40** (2013.01 - EP US); **H01Q 13/06** (2013.01 - EP); **H01Q 13/18** (2013.01 - US); **H01Q 21/064** (2013.01 - EP US)

Designated contracting state (EPC)

BE CH DE ES GB IT LI SE

DOCDB simple family (publication)

EP 0379434 A1 19900725; **EP 0379434 B1 19940706**; CA 2007700 A1 19900719; CA 2007700 C 19990601; DE 69010344 D1 19940811; DE 69010344 T2 19950223; ES 2057458 T3 19941016; FR 2641903 A1 19900720; FR 2641903 B1 19920103; JP 2886587 B2 19990426; JP H02228802 A 19900911; US 5231409 A 19930727

DOCDB simple family (application)

EP 90400140 A 19900118; CA 2007700 A 19900112; DE 69010344 T 19900118; ES 90400140 T 19900118; FR 8900627 A 19890119; JP 726190 A 19900118; US 46498390 A 19900116