

Title (en)

RADOME WALL FOR COMMUNICATION APPLICATIONS

Title (de)

RADOMWANDUNG FÜR KOMMUNIKATIONSANWENDUNGEN

Title (fr)

PAROI DE RADÔME POUR DES APPLICATIONS DE COMMUNICATION

Publication

EP 3533108 A1 20190904 (DE)

Application

EP 17793900 A 20171024

Priority

- DE 102016221143 A 20161027
- EP 2017077050 W 20171024

Abstract (en)

[origin: WO2018077823A1] The invention relates to a radome wall (1) for communication, in particular data transmission, in the frequency band of from 17 to 31 GHz, in particular for use in commercial aircraft, and also to a radome with a corresponding radome wall (1). The radome wall (1) according to the invention for communication in the frequency band of from 17 to 31 GHz for use in commercial aircraft comprises a multilayer structure with an alternating arrangement of force-absorbing fixed covering layers (11, 12, 13, 12', 11') and shear-resistant core layers (21, 22, 22', 21'), wherein the radome wall (1) comprises at least four covering layers (11, 12, 13, 12', 11'), two (11, 11') of which form the outer sides of the radome wall (1), and wherein the covering layers (11, 12, 13, 12', 11') and the core layers (21, 22, 22', 21') are composed of dielectric materials. The invention further relates to a radome for use in commercial aircraft, the wall of said radome being designed in a manner according to the invention.

IPC 8 full level

H01Q 1/42 (2006.01); **H01Q 1/28** (2006.01)

CPC (source: EP US)

H01Q 1/28 (2013.01 - US); **H01Q 1/422** (2013.01 - EP US); **H01Q 1/28** (2013.01 - EP)

Citation (search report)

See references of WO 2018077823A1

Cited by

DE102022127708A1; WO2024083680A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2018077823 A1 20180503; BR 112019008319 A2 20190716; CA 3040797 A1 20180503; CN 109891669 A 20190614; CN 109891669 B 20210827; DE 102016221143 A1 20180503; DE 102016221143 B4 20180509; EP 3533108 A1 20190904; EP 3533108 B1 20220309; EP 4009440 A1 20220608; EP 4009440 B1 20230913; ES 2909836 T3 20220510; ES 2961726 T3 20240313; US 11095025 B2 20210817; US 2020058991 A1 20200220

DOCDB simple family (application)

EP 2017077050 W 20171024; BR 112019008319 A 20171024; CA 3040797 A 20171024; CN 201780066828 A 20171024; DE 102016221143 A 20161027; EP 17793900 A 20171024; EP 22153819 A 20171024; ES 17793900 T 20171024; ES 22153819 T 20171024; US 201716344819 A 20171024