

Title (en)
TELECOMMUNICATIONS DEVICE

Title (de)
TELEKOMMUNIKATIONSVORRICHTUNG

Title (fr)
DISPOSITIF DE TÉLÉCOMMUNICATIONS

Publication
EP 3577719 B1 20220406 (EN)

Application
EP 18707149 A 20180202

Priority
• IT 201700011691 A 20170202
• IB 2018050674 W 20180202

Abstract (en)
[origin: WO2018142344A1] There is provided a telecommunications device (1) adapted to transmit and receive electromagnetic signals and comprising a reflector (2) receiving input and output electromagnetic signals, a feed (3) arranged in the proximity of the operating surface (20) and comprising a first hollow, cylindrical acquisition portion (30) and a second acquisition portion (31) coaxial with respect to the first portion (30) and adapted to send and receive signals at different frequencies, a support (4) constrained to a support structure (5) and connected to at least one electrical apparatus (6), wherein the reflector (2) is constrained to the support (4) and adapted to direct the input signals towards the feed (3), wherein the support (4) comprises a controller (40) operatively connected to the feed (3) and adapted to transmit the signals at different frequencies, at least a first connector (41) and a second connector (42) operatively connected to the controller (40) and the electrical apparatus (6) and adapted to transmit low-frequency signals coming from the second portion (31) and high- frequency signals coming from the first portion (30), respectively, and wherein the second portion (31) comprises at least one guide (31 a) in the shape of a truncated cone oriented so as to be converging and comprising a short-circuited portion (33) at the smaller base, the guide (31a) includes a plurality of slots (32) arranged along the guide (31a), extending axially and connected to waveguides (34), and wherein the low-frequency electromagnetic signals define frequencies ranging from 10 to 40 GHz, and the high-frequency electromagnetic signals are E-band signals and define frequencies ranging from 60 to 90 GHz.

IPC 8 full level
H01Q 5/47 (2015.01); **H01Q 13/02** (2006.01); **H01Q 19/13** (2006.01)

CPC (source: EP)
H01Q 5/47 (2015.01); **H01Q 13/0258** (2013.01); **H01Q 19/132** (2013.01)

Citation (examination)
US 2013207742 A1 20130815 - MONTE THOMAS D [US]

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

DOCDB simple family (publication)
WO 2018142344 A1 20180809; EP 3577719 A1 20191211; EP 3577719 B1 20220406

DOCDB simple family (application)
IB 2018050674 W 20180202; EP 18707149 A 20180202