

Title (en)

WIRELESS COMMUNICATION DEVICE WITH LEAKY-WAVE PHASED ARRAY ANTENNA

Title (de)

DRAHTLOSKOMMUNIKATIONSVORRICHTUNG MIT PHASENGESTEUERTER LECKWELLENANTENNENGROUPE

Title (fr)

DISPOSITIF DE COMMUNICATION SANS FIL À ANTENNE RÉSEAU À COMMANDE DE PHASE ET À ONDES DE FUITE

Publication

EP 3378125 A4 20181205 (EN)

Application

EP 16885216 A 20161005

Priority

- RU 2016100229 A 20160111
- KR 20160085454 A 20160706
- KR 2016011104 W 20161005

Abstract (en)

[origin: RU2622483C1] FIELD: radio engineering, communication.SUBSTANCE: apparatus for wireless communication, comprising: millimeter wave antenna module comprising at least two antenna elements, the housing including a conductive structure with an aperture to align the antenna module with the outside. And antenna module of millimeter wave isolated from the body space, an electromagnetic field is radiated into space through a conductive housing structure.EFFECT: increased productivity and sustainability of millimeter wave antennas for mobile devices with a metal frame by precisely the formation of waveguide grating agents in PCB and flexible combination of these agents with non-resonant waveguide radiating apertures mobile device.14 cl, 19 dwg, 3 tbl

IPC 8 full level

H01Q 13/20 (2006.01); **H01Q 1/24** (2006.01); **H01Q 3/24** (2006.01); **H01Q 3/26** (2006.01); **H01Q 13/22** (2006.01); **H01Q 13/28** (2006.01); **H01Q 15/10** (2006.01); **H01Q 19/06** (2006.01); **H01Q 21/06** (2006.01)

CPC (source: EP KR RU US)

H01Q 1/243 (2013.01 - EP KR US); **H01Q 3/24** (2013.01 - EP); **H01Q 3/26** (2013.01 - EP); **H01Q 13/20** (2013.01 - KR); **H01Q 13/22** (2013.01 - EP); **H01Q 13/28** (2013.01 - EP); **H01Q 15/10** (2013.01 - KR); **H01Q 19/06** (2013.01 - EP); **H01Q 21/00** (2013.01 - RU); **H01Q 21/068** (2013.01 - KR)

Citation (search report)

- [A] US 2013222613 A1 20130829 - YEHEZKELY ALON [IL], et al
- See references of WO 2017122905A1

Cited by

EP3861709A4; US10886977B2; WO2020096361A1; US11942690B2

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)

CN 108463922 A 20180828; CN 108463922 B 20200911; EP 3378125 A1 20180926; EP 3378125 A4 20181205; EP 3378125 B1 20191204; KR 102505800 B1 20230306; KR 20170083949 A 20170719; RU 2622483 C1 20170615

DOCDB simple family (application)

CN 201680078493 A 20161005; EP 16885216 A 20161005; KR 20160085454 A 20160706; RU 2016100229 A 20160111