

Title (en)

WIRELESS TRANSCEIVING APPARATUS, ANTENNA UNIT AND BASE STATION

Title (de)

DRAHTLOSE SENDE-/EMPFANGSVORRICHTUNG, ANTENNENEINHEIT UND BASISSTATION

Title (fr)

APPAREIL D'ÉMISSION-RÉCEPTION SANS FIL, UNITÉ D'ANTENNE ET STATION DE BASE

Publication

**EP 3487000 A4 20190717 (EN)**

Application

**EP 16910054 A 20160727**

Priority

CN 2016091955 W 20160727

Abstract (en)

[origin: EP3487000A1] The present invention discloses a radio transceiver apparatus, an antenna element, and a base station, and belongs to the communications field. The radio transceiver module includes a metal carrier and at least one antenna element that is disposed at an edge of the metal carrier. Each antenna element includes a feeding structure and a radiation patch. Both the feeding structure and the radiation patch are non-centrosymmetric structures. Power is fed to the radiation patch by using the feeding structure, and the radiation patch is grounded. The present invention resolves a problem that an antenna pattern roundness of the antenna element is relatively poor when the antenna element is not disposed in a central location of the metal carrier. Embodiments of the present invention are applicable to information transmission and reception of the radio transceiver apparatus.

IPC 8 full level

**H01Q 1/24** (2006.01); **H01Q 1/52** (2006.01); **H01Q 9/04** (2006.01); **H01Q 21/00** (2006.01); **H01Q 21/20** (2006.01)

CPC (source: CN EP)

**H01Q 1/246** (2013.01 - CN); **H01Q 1/528** (2013.01 - CN EP); **H01Q 9/0421** (2013.01 - CN EP); **H01Q 9/0457** (2013.01 - CN EP); **H01Q 21/205** (2013.01 - CN EP)

Citation (search report)

- [XAI] US 2006227052 A1 20061012 - TAVASSOLI HOZOURI BEHZAD [US]
- [X] US 2010295736 A1 20101125 - SU SAOU-WEN [TW]
- [E] EP 3346551 A1 20180711 - HUAWEI TECH CO LTD [CN]
- See references of WO 2018018473A1

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)

**EP 3487000 A1 20190522**; **EP 3487000 A4 20190717**; **EP 3487000 B1 20230301**; CA 3031996 A1 20180201; CA 3031996 C 20210601; CN 109478713 A 20190315; CN 109478713 B 20201009; CN 112397897 A 20210223; CN 112397897 B 20211130; MX 2019001191 A 20191002; WO 2018018473 A1 20180201

DOCDB simple family (application)

**EP 16910054 A 20160727**; CA 3031996 A 20160727; CN 2016091955 W 20160727; CN 201680087719 A 20160727; CN 202010981211 A 20160727; MX 2019001191 A 20160727