

Title (en)

TERMINAL DEVICE ANTENNA APPARATUS AND IMPLEMENTATION METHOD

Title (de)

ANTENNENVORRICHTUNG UND -VERFAHREN

Title (fr)

APPAREIL ANTENNE DE DISPOSITIF TERMINAL ET PROCÉDÉ DE MISE EN ?UVRE

Publication

EP 3799206 A4 20210804 (EN)

Application

EP 19806600 A 20190522

Priority

- CN 201810502731 A 20180523
- CN 2019087992 W 20190522

Abstract (en)

[origin: EP3799206A1] Provided are a terminal device antenna apparatus and an implementation method therefor, relating to the field of antennas. The method comprises: dividing off, on a metal ground of a terminal device main board, a fully enclosed non-metallic area configured to balance the electric current of the metal ground; disposing an antenna topology unit in the divided off fully enclosed non-metallic area; and the antenna topology unit generating an operating electric current by using a radio frequency signal provided by the terminal device main board, and coupling the operating electric current to the metal ground, so as to realize wideband impedance matching by means of local resonance multistage echo differential suppression.

IPC 8 full level

H01Q 1/48 (2006.01); **H01Q 1/24** (2006.01); **H01Q 1/36** (2006.01); **H01Q 5/314** (2015.01); **H01Q 5/328** (2015.01)

CPC (source: CN EP)

H01Q 1/243 (2013.01 - CN EP); **H01Q 1/36** (2013.01 - CN EP); **H01Q 1/48** (2013.01 - CN EP); **H01Q 5/314** (2015.01 - EP); **H01Q 5/328** (2015.01 - EP)

Citation (search report)

- [X1] US 2011210898 A1 20110901 - CHOI HYENG-CHEUL [KR], et al
- [X1] US 2012313834 A1 20121213 - EOM SANG-JIN [KR], et al
- [X1] US 2014071005 A1 20140313 - WANG CHUAN-CHUN [TW]
- [X1] CN 107425278 A 20171201 - UNIV SOUTH CHINA TECH

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 3799206 A1 20210331; **EP 3799206 A4 20210804**; CN 110534874 A 20191203; CN 110534874 B 20220225; WO 2019223727 A1 20191128

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