Title (en)

MULTI-BAND ANTENNA AND COMMUNICATION TERMINAL

Title (de)

MEHRBANDANTENNE UND KOMMUNIKATIONSENDGERÄT

Title (fr)

ANTENNE MULTIBANDE ET TERMINAL DE COMMUNICATION

Publication

EP 3188313 A4 20170906 (EN)

Application

EP 14902346 A 20140925

Priority

CN 2014087420 W 20140925

Abstract (en)

[origin: EP3188313A1] Embodiments of the present invention provide a multiband antenna, including a feed point, a ground point, a high-frequency radiator working at a high frequency band, and a low-frequency radiator working at a low frequency band. One end of the high-frequency radiator is electrically connected to the feed point, the other end of the high-frequency radiator is electrically connected to the ground point, and an electrical length between the two ends of the high-frequency radiator is half of a wavelength of the high frequency band; the high-frequency radiator is connected, in a first position, to the low-frequency radiator, and a length from the first position to the feed point is less than a length from the first position to the ground point.

IPC 8 full level

H01Q 9/04 (2006.01); **H01Q 5/364** (2015.01); **H01Q 9/42** (2006.01); H01Q 1/24 (2006.01)

CPC (source: EP)

H01Q 5/364 (2015.01); **H01Q 9/0442** (2013.01); **H01Q 9/42** (2013.01); H01Q 1/243 (2013.01)

Citation (search report)

- [XI] US 2011128200 A1 20110602 - HOSSAIN MD GOLAM SORWAR [JP], et al
- [XI] US 2008111745 A1 20080515 - TAKADA YOSHINAO [JP], et al
- [XI] US 2007249313 A1 20071025 - OSHIYAMA TADASHI [JP], et al
- [XI] US 2006152419 A1 20060713 - SATO KOICHI [JP], et al
- See references of WO 2016045046A1

Cited by

EP3893329A1; EP4235964A3; WO2021204491A1

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 3188313 A1 20170705; **EP 3188313 A4 20170906**; **EP 3188313 B1 20181121**; CN 105917527 A 20160831; CN 105917527 B 20190510; JP 2017532886 A 20171102; WO 2016045046 A1 20160331

DOCDB simple family (application)

EP 14902346 A 20140925; CN 2014087420 W 20140925; CN 201480060755 A 20140925; JP 2017516294 A 20140925