

Title (en)

BROADBAND LOW-PROFILE DUAL-LINEARLY POLARIZED ANTENNA FOR A ONELTE TWO-IN-ONE PLATFORM

Title (de)

BREITBANDIGE FLACHE DUALLINEAR POLARISIERTE ANTENNE FÜR EINE ONELTE-ZWEI-IN-EINS-PLATTFORM

Title (fr)

ANTENNE À DOUBLE POLARISATION LINÉAIRE EXTRAPLATE À LARGE BANDE POUR PLATEFORME DEUX EN UN ONELTE

Publication

EP 3454414 A1 20190313 (EN)

Application

EP 18193154 A 20180907

Priority

- CN 201710804959 A 20170908
- US 201816123938 A 20180906

Abstract (en)

A broadband low-profile dual-linearly polarized antenna for a OneLTE two-in-one platform and an antenna array device formed therefrom are provided that can realize low-profile and ultra-broadband and have such advantages as simple structure, neat appearance, easy engineering implementation, and suitability for mass production. The broadband low-profile dual-linearly polarized antenna can include (1) a radiating portion that can include a dielectric substrate, printed folded dipoles spaced apart on an upper surface of the dielectric substrate, first coupled parasitic elements on a lower surface of the dielectric substrate, and second coupled parasitic elements on the upper surface of the dielectric substrate and (2) a feed balun for feeding the radiating portion, wherein each of the printed folded dipoles can include a corresponding one of the first coupled parasitic elements and a corresponding one of the second coupled parasitic elements.

IPC 8 full level

H01Q 1/24 (2006.01); **H01Q 1/38** (2006.01); **H01Q 5/385** (2015.01); **H01Q 9/06** (2006.01); **H01Q 9/26** (2006.01); **H01Q 21/26** (2006.01)

CPC (source: EP)

H01Q 1/246 (2013.01); **H01Q 1/38** (2013.01); **H01Q 5/385** (2015.01); **H01Q 9/26** (2013.01); **H01Q 21/26** (2013.01)

Citation (applicant)

US 3740754 A 19730619 - EPIS J

Citation (search report)

- [Y] WO 2016133244 A1 20160825 - GAMMANU CO LTD [KR] & US 2018040956 A1 20180208 - LEE SU WON [KR], et al
- [Y] CN 202004160 U 20111005 - GUANGZHOU SUNRISE COMM EQUIPMENT CO LTD
- [A] WO 2017003374 A1 20170105 - MATSING PTE LTD [SG]
- [A] CN 102104203 B 20140611 - MOBILE ANTENNA TECH SHENZHEN
- [A] US 2011043424 A1 20110224 - LEE JAE DOO [KR], et al

Cited by

CN114374092A; CN112952378A; CN110380196A; CN111600116A; CN112993557A; EP3968458A4

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 3454414 A1 20190313; EP 3454414 B1 20200527

DOCDB simple family (application)

EP 18193154 A 20180907