

Title (en)
BROADBAND DUAL-POLARIZATION FOUR-LEAF CLOVER PLANAR AERIAL

Title (de)
DOPPELPOLARISIERTE BREITBANDFLACHANTENNE IN FORM EINES VIERBLÄTTRIGEN KLEEBLATTS

Title (fr)
ANTENNE PLANAIRE À TRÈFLE À QUATRE FEUILLES À DOUBLE POLARISATION LARGE BANDE

Publication
EP 3012910 A4 20160629 (EN)

Application
EP 14813693 A 20140620

Priority
• CN 201310247277 A 20130620
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Abstract (en)
[origin: EP3012910A1] A broadband dual-polarization four-leaf clover planar antenna which is applied to the 2G/3G/LTE (4G) systems is described; the antenna includes an antenna radiating unit, a reflecting plate and two feeders. The antenna radiating unit is fixed directly above the reflecting plate via an insulated support structure, and includes a +45° polarized four-leaf clover oscillator and a -45° polarized four-leaf clover oscillator; the four-leaf clover oscillator includes a radiating arm and a microstrip line; the radiating arm being in a four-leaf clover shape is etched on a dielectric substrate, and the microstrip line being used for feeding the radiating arm is also etched on the dielectric substrate. The two feeders are respectively connected with the microstrip lines of the +45°/-45° polarized four-leaf clover oscillators.

IPC 8 full level
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CPC (source: EP)
H01Q 1/246 (2013.01); **H01Q 9/285** (2013.01); **H01Q 19/108** (2013.01); **H01Q 21/26** (2013.01)

Citation (search report)
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• [I] US 7084830 B1 20060801 - SUH SEONG-YOUP [US]
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• [A] SEONG-YOUP SUH ET AL: "A novel low-profile, dual-polarization, multi-band base-station antenna element ~ the fourpoint antenna", 2004 IEEE 60TH VEHICULAR TECHNOLOGY CONFERENCE. VTC2004-FALL (IEEE CAT. NO.04CH37575) IEEE PISCATAWAY, NJ, USA, IEEE, vol. 1, 26 September 2004 (2004-09-26), pages 225 - 229, XP010786654, ISBN: 978-0-7803-8521-4, DOI: 10.1109/VETECF.2004.1399972
• See references of WO 2014202019A1

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