

## Title (en)

ULTRA BROAD BAND DUAL POLARIZED RADIATING ELEMENT FOR A BASE STATION ANTENNA

## Title (de)

SEHR BREITBANDIGES DUALPOLARISIERTES STRAHLENDES ELEMENT FÜR EINE BASISSTATIONSANTENNE

## Title (fr)

ÉLÉMENT RAYONNANT À DOUBLE POLARISATION ET BANDE ULTRA LARGE POUR ANTENNE DE STATION DE BASE

## Publication

**EP 3813192 A1 20210428 (EN)**

## Application

**EP 20194951 A 20160412**

## Priority

- EP 20194951 A 20160412
- EP 16164812 A 20160412

## Abstract (en)

The invention refers to a radiating element for a base station antenna, the radiating element comprising: a support structure, at least a pair of dipole arms in a first layer of the support structure, and at least two parasitic arms in a second layer of the support structure, wherein the distance between the first and the second layer is between 0.0004 and 0.1, preferably between 0.002 and 0.02, of the minimum wavelength of the operating frequency band of the radiating element, wherein the area of the parasitic arms in a projection perpendicular from the second to the first layer cover at least 60% of the areas of the at least one pair of dipole arms.

## IPC 8 full level

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## CPC (source: EP)

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## Citation (applicant)

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## Citation (search report)

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- [Y] HE YEJUN ET AL: "A Novel Dual-Band, Dual-Polarized, Miniaturized and Low-Profile Base Station Antenna", IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, IEEE SERVICE CENTER, PISCATAWAY, NJ, US, vol. 63, no. 12, 1 December 2015 (2015-12-01), pages 5399 - 5408, XP011592404, ISSN: 0018-926X, [retrieved on 20151125], DOI: 10.1109/TAP.2015.2481488

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## Designated contracting state (EPC)

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## DOCDB simple family (application)

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