

Title (en)

ACTIVE ANTENNA WITH RADIATING ELEMENTS MOUNTED ON A CONICAL SURFACE

Title (de)

AKTIVE ANTENNE MIT AUF EINER KONISCHEN OBERFLÄCHE MONTIERTEN STRAHLUNGSELEMENTEN

Title (fr)

ANTENNE ACTIVE DONT LES ÉLÉMENTS RAYONNANTS SONT MONTÉS SUR UNE SURFACE CONIQUE

Publication

EP 4293823 A1 20231220 (FR)

Application

EP 23178638 A 20230612

Priority

FR 2205722 A 20220614

Abstract (fr)

Antenne active (300) comportant une pluralité d'éléments rayonnants (ER_{ij}), caractérisée en ce que les éléments rayonnants (ER_{ij}) sont disposés sur une surface de support (S') non plane qui est inscrite à l'intérieur d'un cône (S), un élément rayonnant étant positionné en un point (CR_{ij}) de la surface de support (S') de manière à ce qu'une direction normale (V_{ij}) audit élément rayonnant (ER_{ij}) forme un angle d'inclinaison par rapport à un axe (A) du cône.

IPC 8 full level

H01Q 1/28 (2006.01); **H01Q 1/38** (2006.01); **H01Q 3/26** (2006.01); **H01Q 21/00** (2006.01)

CPC (source: EP)

H01Q 1/281 (2013.01); **H01Q 1/38** (2013.01); **H01Q 3/26** (2013.01); **H01Q 21/00** (2013.01)

Citation (applicant)

- EP 0512487 B1 19960724 - ALCATEL ESPACE [FR]
- DE 2650603 A1 19780511 - SIEMENS AG
- JAECK V ET AL.: "Design and manufacturing of conformal antenna array on a conical surface at 5.2 GHz", 2017 EUROPEAN RADAR CONFERENCE (EURAD), EUROPEAN MICROWAVE ASSOCIATION, 11 October 2017 (2017-10-11), pages 359 - 362
- YUNXIANG ZHANG ET AL.: "Full-polarisation three-dimensional pattern synthesis for conformal conical arrays with dynamic range ratio constraint by using the initialisations based on equivalence theorem", IET MICROWAVES, ANTENNAS, vol. 9, 1 December 2015 (2015-12-01), XP006054705, ISSN: 1751-8725, DOI: 10.1049/iet-map.2015.0273

Citation (search report)

- [A] EP 0512487 B1 19960724 - ALCATEL ESPACE [FR]
- [A] DE 2650603 A1 19780511 - SIEMENS AG
- [X] WO 2018036009 A1 20180301 - AXILSPOT COMMUNICATION CO LTD [CN]
- [A] JAECK V ET AL.: "Design and manufacturing of conformal antenna array on a conical surface at 5.2 GHz", 2017 EUROPEAN RADAR CONFERENCE (EURAD), EUROPEAN MICROWAVE ASSOCIATION, 11 October 2017 (2017-10-11), pages 359 - 362, XP033292855, DOI: 10.23919/EURAD.2017.8249221
- [A] YUNXIANG ZHANG ET AL.: "Full-polarisation three-dimensional pattern synthesis for conformal conical arrays with dynamic range ratio constraint by using the initialisations based on equivalence theorem", IET MICROWAVES, ANTENNAS & PROPAGATION, THE INSTITUTION OF ENGINEERING AND TECHNOLOGY, UNITED KINGDOM, vol. 9, no. 15, 1 December 2015 (2015-12-01), pages 1659 - 1666, XP006106536, ISSN: 1751-8725, DOI: 10.1049/IET-MAP.2015.0273

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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

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