

Title (en)
HORN FOR KA DUAL-BAND SATELLITE ANTENNA WITH CIRCULAR POLARISATION

Title (de)
HORN FÜR EINE ZIRKULAR POLARISIERTE DUALE KA-BAND-SATELLITENANTENNE

Title (fr)
CORNET POUR ANTENNE SATELLITE BI-BANDE KA A POLARISATION CIRCULAIRE

Publication
EP 3843202 B1 20230920 (FR)

Application
EP 20216598 A 20201222

Priority
FR 1915417 A 20191226

Abstract (en)
[origin: US2021203076A1] An antenna horn includes a waveguide having an open end and an end allowing access to transmitted signals, the widest opposite walls constituting a first pair of walls, two first ridges inside the waveguide, in the middle and over the whole length of the walls of the first pair of walls, a flat central wall connecting the walls of the second pair of walls at their midpoints at the level of the accesses, stopping in the direction of the open end so as to polarize signals transmitted by the two accesses according to orthogonal circular polarizations, and forming two ridges in the middle of the walls of the second pair of walls from the side of the open end, and with an antenna, an item of radio communication equipment and a method using the horn.

IPC 8 full level
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CPC (source: EP IL US)
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H01Q 13/025 (2013.01 - US); **H01Q 13/0258** (2013.01 - EP US); **H01Q 13/0275** (2013.01 - EP US); **H01Q 21/064** (2013.01 - EP US)

Citation (examination)
• US 9640847 B2 20170502 - JENSEN ANDERS [US], et al
• KR 101117648 B1 20120320 - UNIV HONGIK IND ACAD COOP FDN [KR]

Designated contracting state (EPC)
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DOCDB simple family (publication)
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IL 279708 A 20210630; IL 279708 B1 20231101; IL 279708 B2 20240301; US 11437727 B2 20220906; US 2021203076 A1 20210701

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