

Title (en)
FEED COMPONENT FOR A MICROWAVE ANTENNA

Title (de)
SPEISEANORDNUNG FÜR EINE MIKROWELLENANTENNE

Title (fr)
ENSEMBLE D'ALIMENTATION D'ANTENNE À MICRO-ONDES

Publication
EP 2615691 B1 20180110 (EN)

Application
EP 10856888 A 20101111

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• CN 201010273991 A 20100907
• CN 2010078647 W 20101111

Abstract (en)
[origin: EP2615691A1] A feed component for a microwave antenna with ultra-high performance includes a sub-reflector, a dielectric head, a waveguide and a base. The feed component is rotatably symmetrical, one end of the waveguide being inserted into the base, while the other end thereof being capable of receiving a first end of the dielectric head, the sub-reflector being provided on a second end of the dielectric head based on the shape of the second end. The portion inserted into the waveguide, of the dielectric head, includes at least one cylinder; a side portion of the dielectric head exposed outside of the waveguide includes several cylindrical surfaces of different diameter; and an inclined cone surface is provided centrally on an end surface of the second end of the dielectric head and is recessed towards the first end of the dielectric head; a circular plane is defined on the periphery of the inclined cone surface; and at least one perturbation construction is provided on the inclined cone surface. The microwave antenna with ultra-high performance and feed component thereof has good electrical performance, simple and compact physical structure and low manufacture cost.

IPC 8 full level
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CPC (source: EP)
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Cited by
JP2015179977A; WO2015023431A1; US9831563B2; US10566700B2

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