

Title (en)
DIELECTRIC ANTENNA

Title (de)
DIELEKTRISCHE ANTENNE

Title (fr)
ANTENNE DIÉLECTRIQUE

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Application
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Abstract (en)
[origin: WO2009100891A1] The invention relates to a dielectric antenna having an electromagnetic supply element (2) and having a lens (3) made of a dielectric material, wherein the supply element (2) emits electromagnetic radiation (4) and applies electromagnetic radiation (4) to the lens (3) in a supply region (5), wherein the lens (3) passes on the electromagnetic radiation (4) and irradiates it with a transmission region. The object of the present invention is to configure such dielectric antennas such that the disadvantages of dielectric antennas known from the prior art are avoided - at least partially. The object shown is initially and substantially achieved according to the invention in that the lens (3) is formed ellipsoidal, at least in the transmission region, and that the lens (3) is disposed relative to the supply element (2) such that the electromagnetic radiation (4) emitted by the lens (3) has a substantially plane phase front (8) in the main irradiation direction (7).

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