

Title (en)

BASIC ANTENNA, AND CORRESPONDING ONE- OR TWO-DIMENSIONAL ARRAY ANTENNA

Title (de)

BASISANTENNE UND ENTSPRECHENDE EIN-ODER ZWEIDIMENSIONALE GRUPPENANTENNE

Title (fr)

ANTENNE ÉLÉMENTAIRE ET ANTENNE RÉSEAU MONO OU BIDIMENSIONNELLE CORRESPONDANTE

Publication

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Application

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Abstract (en)

[origin: WO2013092928A1] The invention relates to a basic antenna (2) for forming a radiating element of an array antenna, including, vertically adjacent to one another: a planar reflector (4); a probe (6); and an EBG assembly (8) that is, by default, in the form of a cavity (16). The basic antenna (2) includes a wall enclosure (10) capable of reflecting the electromagnetic waves at one or more operating frequencies of the basic antenna (2), said wall enclosure (10) being an extension of the planar reflector (4) in the orthogonal direction, and simultaneously surrounding only the probe (6), the cavity (16), and the structure (14). The one- or two-dimensional array antenna includes a plurality of compactly-arranged contiguous basic antennas (2).

IPC 8 full level

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