

Title (en)

WIDEBAND PRIMARY MICROWAVE HORN RADIATOR AND ANTENNA USING SUCH A PRIMARY RADIATOR

Publication

EP 0117803 B1 19880921 (FR)

Application

EP 84400295 A 19840214

Priority

FR 8302836 A 19830222

Abstract (en)

[origin: US4667205A] A wide-band microwave antenna capable of radiating over a wide angular field is fed by a rectangular wave guide and includes a first sectoral horn coupled to the rectangular wave guide. The first sectoral horn is sectoral in the H plane. Coupled to the first sectoral horn is a second sectoral horn which is sectoral in the E plane. The second sectoral horn has a partial-cylindrical-shape with circular-shaped outer edges. The second sectoral horn has a top plate and a bottom plate. A plurality of equally spaced power distributors are radially disposed in the second sectoral horn and extend from the top plate to the bottom plate through the entire length of the second sectoral horn. These power distributors thus form a plurality of elementary radiation sources.

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IPC 8 full level

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CPC (source: EP US)

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