

Title (en)

RADIATING DEVICES PRODUCING CIRCULARLY POLARIZED MICROWAVES AND THEIR USE IN THE FIELD OF MICROWAVE APPLICATORS

Publication

EP 0022282 B1 19830720 (FR)

Application

EP 80200527 A 19800609

Priority

FR 7915219 A 19790611

Abstract (en)

[origin: EP0022282A1] A radiation device, operating in the range of microwaves or hyperfrequencies, providing circularly polarized waves, comprising a wave guide (5) and antennas carried by such guide, which combine the use of slots and spirals. This device may be part of a set of similar devices. It allows to provide levels of radiation power equal from one antenna to another (4), or, on the contrary, different from one antenna to another, according to the needs. Its utilization in an industrial applicator makes possible the microwave treatment of products causing strong reflexions, either because the loss factor thereof is insufficient, or because they are contained in open metal containers (3), or because they contain themselves metal portions, or because they present heterogeneities or anisotropies.

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IPC 8 full level

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