

Title (en)

CAVITY RADIATING ELEMENT AND RADIATING NETWORK COMPRISING AT LEAST TWO RADIATING ELEMENTS

Title (de)

STRAHLUNGSELEMENT IN EINEM HOHLRAUM, UND STRAHLUNGSNETZ, DAS MINDESTENS ZWEI STRAHLUNGSELEMENTE UMFASST

Title (fr)

ÉLÉMENT RAYONNANT EN CAVITÉ ET RÉSEAU RAYONNANT COMPORTANT AU MOINS DEUX ÉLÉMENTS RAYONNANTS

Publication

EP 3306746 B1 20230405 (FR)

Application

EP 17194500 A 20171003

Priority

FR 1601432 A 20161004

Abstract (en)

[origin: CA2981333A1] The radiating element (10) includes a cavity (11) that is axially symmetric about an axis Z, a metal central core (12) that extends axially at the center of the cavity and N different successive metal elliptical planar elements (131, 132, ..., 13N) that are stacked on top of one another parallelly to the lower wall (15) of the cavity, the central core including a lower end that is fastened to the lower metal wall of the cavity and an upper end (16) that is free, each elliptical metal planar element being centered in the cavity and secured to the central core, the N elliptical planar elements being regularly spaced and having dimensions that decrease monotonically between the lower end and the upper end of the central core, where N is an integer higher than 2.

IPC 8 full level

H01Q 9/04 (2006.01); **H01Q 21/06** (2006.01)

CPC (source: EP US)

H01Q 9/0414 (2013.01 - EP US); **H01Q 19/17** (2013.01 - US); **H01Q 21/06** (2013.01 - US); **H01Q 21/061** (2013.01 - US);
H01Q 21/065 (2013.01 - EP US)

Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

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