

Title (en)

MULTILAYER PILLBOX ANTENNA HAVING PARALLEL PLANES, AND CORRESPONDING ANTENNA SYSTEM

Title (de)

MEHRSCICHTIGE PILLBOX-ANTENNE MIT PARALLELEN EBENEN UND ENTSPRECHENDES ANTENNENSYSTEM

Title (fr)

ANTENNE MULTICOUCHE A PLANS PARALLELES, DE TYPE PILLBOX, ET SYSTEME D'ANTENNE CORRESPONDANT

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Application

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Abstract (en)

[origin: WO2010112443A1] The invention relates to a multilayer antenna (30) including a power supply portion generating a wave, a radiating portion, and a guide portion that makes it possible to guide the wave from the power supply portion to the radiating portion. The guide portion includes: at least two stacked guide layers having parallel planes and, for each pair of adjacent layers, means for transitioning between the adjacent layers, including a reflector (R1) engaging with a slot-coupling means. For at least one pair of adjacent layers, for which the guide portion includes a non-planar reflector, the slot-coupling means includes a plurality of slots (10). Each slot includes a main body that is elongate along at least one axis. The slots are placed on at least one row and together form a pattern that extends along the reflector and has a shape that is dependent on the shape of the reflector.

IPC 8 full level

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