

Title (en)

CAVITY ANTENNA THAT IS EXCITED WITH ONE OR MORE DIPOLES

Title (de)

RESONATORANTENNE, DIE MIT EINEM ODER MEHREREN DIPOLEN ERREGT WIRD

Title (fr)

ANTENNE CAVITE EXCITEE PAR UN OU PLUSIEURS DIPOLES

Publication

EP 1879256 A1 20080116 (EN)

Application

EP 05743933 A 20050425

Priority

ES 2005070051 W 20050425

Abstract (en)

Cavity antenna excited with one or several dipoles in a single piece, which has on the element that excites the cavity a metallic plate connected to earth and which allows the input impedance of the antenna to be adjusted as well as the reflections in the radome, by means of the adjustment of the distance with respect to the back wall of the cavity, avoiding through the connection to earth that the antenna becomes charged electrostatically. The cavity assembly and the metallic plate allow a broader bandwidth, moreover a simpler control is achieved in the adjustment of the level of crosspolar polarization, as well as of the decoupling between dipoles by modification in the shape of the metallic plate. The grouping of the antennas in an array is possible in an immediate manner with no need to alter the size or shape of the cavities or of the dipoles which excite said cavities.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

See references of WO 2006114455A1

Cited by

EP3327865A1; US7688265B2; US10553962B2; US7948441B2; WO2016090463A1; WO2017185184A1

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