

Title (en)
BROAD-BAND WAVE ABSORBER

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Application
EP 91300505 A 19910123

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Abstract (en)
[origin: EP0439337A2] The present invention relates to a broad-band wave absorber wherein plates (3) formed of a ferrite magnetic material are placed at an optimal spacing and are aligned in a lattice form in longitudinal and lateral directions on a conductive plate (2). A magnetic substance of a specific thickness t_m is formed into cylindrical blocks of a height d (where $d \geq t_m$) wherein an end surface thereof is polygonal, and the cylindrical blocks are provided with a radio-wave reflecting surface aligned in such a manner that this surface is perpendicular to the axial direction of the blocks, and the end surface of the blocks is approximately perpendicular to a direction from which radio waves are incident. The ferrite magnetic substance could also be formed into rectangular prisms of thickness $2t_m$, height d , and length in the longitudinal direction thereof L , with the prisms aligned at a spacing b on a radio-wave reflecting surface, the direction of the height dimension of the prisms being approximately parallel to a radio-wave incidence direction, and the surfaces thereof of the dimensions $2t_m$ and L being perpendicular to the radio-wave incidence direction, forming a plane parallel to a magnetic field direction of incident radio waves and the dimension L , wherein the following relationships hold: $L \geq d \geq 2t_m$ $20t_m \geq b \geq 2t_m$ <IMAGE>

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H01Q 17/008 (2013.01)

Citation (search report)
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