

Title (en)  
Broad-band wave absorber.

Title (de)  
Breitbandiger Wellenabsorber.

Title (fr)  
Absorbeur d'ondes à large bande.

Publication  
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Application  
**EP 91300505 A 19910123**

Priority  

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- JP 15069090 A 19900608
- JP 16240390 A 19900620

Abstract (en)  
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>

IPC 1-7  
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IPC 8 full level  
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Cited by  
GB2396969A; AU767300B2; EP0724309A1; CN107809006A; EP0694987A1; US5617096A; US6608811B1; WO9600992A1; WO03032438A1; WO0041270A1

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