Title (en)
FLAT ANTENNA.
Title (de)
Flächenantenne.
Title (fr)
ANTENNE PLATE.
Publication
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Application
EP 91921023 A 19910613
Priority

- SU 9100117 W 19910613
- SU 4857338 A 19900619

Abstract (en)
[origin: WO9120108A1] A flat antenna has a multilayer structure consisting of a screening layer (1) of an electroconductive material, a layer (2) with a strip-type power supply and a radiation layer (4) consisting of a plate with slot-type radiators $(5,6)$ electro-magnetically connected to the corresponding strips (3) of the power supply circuit, all the layers being mutually separated by means of dielectric spacers (7,8). The antenna contains a grid (9) of three-dimensional cells (10) and carries a layer (11) partially transparent to the frequency band of the received waves. The surface of the grid (9) is made of an electroconductive material and the grid (9) is located on the plate with the radiation layer so as to form, by means of each of its cells (10), a three-dimensional resonator in which is located at least one slot-type radiator (5 or 6 ). The length and the width of each cell (10) exceed the average wave length $(\$ g(I))$, and its height differs from half the average wave length (\$g(I)) by a value of approximately $0.02-0.07$ of the wave length $(\$ g(1))$. The antenna comprises also an adapter (14) connected to the screening layer (1) and to the strips (3) of the power supply.

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IPC 8 full level
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