

Title (en)

Electromagnetic wave reflector and associated manufacturing method

Title (de)

Reflektor elektromagnetischer Wellen und Verfahren zu seiner Herstellung

Title (fr)

Réfecteur d'ondes électromagnétiques et son procédé de fabrication

Publication

EP 1143561 B1 20041229 (FR)

Application

EP 01201226 A 19991012

Priority

- EP 99947544 A 19991012
- FR 9813007 A 19981016

Abstract (en)

[origin: EP1143561A1] The embedded wires are arranged parallel or in the form of a grid, and are embedded in thermoplastic material. The structure acts as the reflector for a microwave antenna and focuses received signals onto a feed element. The aerial is constructed from electrically conducting wires (1) situated at a distance from each other, and embedded in the surface of a sheet of thermoplastic material. The wires may be parallel, or may form a grid, and the sheet of material forming the aerial may be concave. The wires lie nearer to one surface of the plastic than the other and have a separation between 0.003 mm and 1.5 cm, whilst the diameter of the wires lies in the range 0.005 - 5mm. The thickness of the plastic is between 0.5 mm and 1 cm and may be coloured or transparent.

IPC 1-7

H01Q 15/14; **H01Q 15/16**; **H01Q 15/22**; **B29C 45/14**

IPC 8 full level

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CPC (source: EP US)

H01Q 15/141 (2013.01 - EP US); **H01Q 15/142** (2013.01 - EP US); **H01Q 15/22** (2013.01 - EP US)

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DOCDB simple family (publication)

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