

Title (en)

Antenna for receiving meter waves,built in a window glass together with a heating of a motor vehicle.

Title (de)

Antenne für den Empfang von Meterwellen,eingebaut zusammen mit einer Scheibenheizung in einer Kraftfahrzeugscheibe.

Title (fr)

Antenne pour la réception des ondes métriques installée ensemble avec un chauffage de pare-brise de véhicule.

Publication

EP 0346591 B1 19940302 (DE)

Application

EP 89106953 A 19890419

Priority

DE 3820229 A 19880614

Abstract (en)

[origin: EP0346591A1] The invention relates to an antenna for receiving metric waves in motor vehicle windows, having a metallic frame (21) in the form of an essentially vertical unipole (1) in the region of the vertical centre of the window. The window contains a window heater having essentially horizontal wire-shaped heat conductors (2). The unipole consists of two superjacenty arranged regions (40, 41) which are directly adjacent and are electrically connected, the first region (40) being arranged in the region of the heating field and the second region (41) being arranged in the region outside the heating field. The unipole (1) is formed in each of the two superjacenty arranged regions from one or more, virtually mutually parallel, essentially vertical antenna wires (11, 12) and is arranged essentially in the region of the centre of the window. The vertical antenna wires (11) cross the heat conductor (2) in the first region (40) and are electrically connected (35) to these. In the second region (41), the vertical wires (12) are electrically connected with a low resistance at their one end in each case to the heat conductor (38) located at the edge of the heating field, and at their other end with low resistance to a common connection point (8) by means of a joining antenna wire (10). From there, one antenna wire (22) runs essentially parallel to the frame edges to the decoupling point (23) in the vicinity of the frame (21). A continuing circuit (16) is present there, to the output of which the antenna line is connected. <IMAGE>

IPC 1-7

H01Q 1/12

IPC 8 full level

H01Q 1/12 (2006.01)

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Cited by

EP0418047A3; EP0446684A1; GB2232331A; GB2232331B; DE4323239A1; DE4323239C2; DE19527304C1; EP0396033A3; DE10114769B4; US6888508B2; US6603435B2; WO9610275A1

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