

Title (en)

RADIO ANTENNA ARRANGEMENT LOCATED NEXT TO VEHICLE WINDOW PANES

Title (de)

FUNKANTENNENANORDNUNG IN DER NÄHE VON FAHRZEUG-FENSTERSCHEIBEN

Title (fr)

ANTENNE RADIO SITUEE A PROXIMITE DES VITRES D'UN VEHICULE

Publication

EP 0594809 B1 19970709 (DE)

Application

EP 93908820 A 19930427

Priority

- DE 4216377 A 19920518
- DE 9300369 W 19930427

Abstract (en)

[origin: WO9323890A1] An antenna arrangement for motor vehicles has an outer radio antenna (1) and a window pane (2) mounted in the metallic car body (3). The outer radio antenna (1) is arranged next to the window pane opening, on the car body (3) or on the window pane (2) itself. An optically transparent two-dimensional structure (4) made of a conductive material is mounted on the window pane, next to the outer radio antenna (1). This structure (4) is substantially opaque to electromagnetic radiation propagating through the window pane opening, as far as radio waves in the radio broadcasting frequency domain are concerned, and is connected with low impedance to the metallic car body (3) in the radio broadcasting frequency domain. Its dimensions are selected so that the inside of the vehicle is sufficiently shielded from the electromagnetic radiation generated by the outer antenna.

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H01Q 1/32; **H01Q 1/12**

IPC 8 full level

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CPC (source: EP US)

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WO 9323890 A1 19931125; DE 4216377 A1 19931125; DE 59306872 D1 19970814; EP 0594809 A1 19940504; EP 0594809 B1 19970709; ES 2105245 T3 19971016; JP 3342487 B2 20021111; JP H07500466 A 19950112; US 5589839 A 19961231

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