

Title (en)

Glass antenna mounted into the window cutout of a metallic motorcar body

Title (de)

In die Fensteröffnung einer metallischen Kraftfahrzeugkarosserie einzusetzende Antennenscheibe

Title (fr)

Antenne de vitre montée dans l'ouverture d'une carrosserie métallique d'un véhicule automobile

Publication

EP 0557794 B1 19970611 (DE)

Application

EP 93102034 A 19930210

Priority

DE 4205851 A 19920226

Abstract (en)

[origin: US5406295A] A window antenna for a motor vehicle body opening in which the antenna is used for mobile radio in a double-band operation with bands have a long wavelength L and a short wavelength K. Two monopoles L/4 and K/4 are electrically connected by a foot portion to which the core of the coaxial feeder cable is adjoined. Two radials corresponding in dimensions to the monopoles can extend along at least one edge of the pane and parallel to the frame member. The radials are connected to the shielding. The spacing of the radials from the frame, the width of the radials and their lengths are selected so that the radiation characteristics are optimized and standing surface waves on the shielding of the cable is avoided.

IPC 1-7

H01Q 1/12

IPC 8 full level

B60R 11/02 (2006.01); **H01Q 1/12** (2006.01); **H01Q 1/22** (2006.01); **H01Q 1/32** (2006.01); **H01Q 5/371** (2015.01); **H01Q 5/378** (2015.01); **H01Q 9/30** (2006.01)

CPC (source: EP KR US)

H01Q 1/1271 (2013.01 - EP US); **H01Q 1/22** (2013.01 - KR); **H01Q 5/371** (2015.01 - EP US); **H01Q 5/378** (2015.01 - EP US); **H01Q 9/42** (2013.01 - EP US)

Cited by

EP1564837A3; DE20219770U1; AU728002B2; EP0866515A3; US6933899B2; US7106262B2; WO0221637A1; WO2004082072A1; EP1416579B1

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