

Title (en)

Radio antenna array and patch antenna on a motor vehicle window

Title (de)

Funkantennen-Anordnung und Patchantenne auf der Fensterscheibe eines Kraftfahrzeugs

Title (fr)

Arrangement d'antenne radio et antenne patch sur la glace d'une fenêtre d'automobile

Publication

EP 0837521 B1 20020508 (DE)

Application

EP 97117080 A 19971002

Priority

DE 19642747 A 19961016

Abstract (en)

[origin: EP0837521A2] The radio antenna arrangement includes a base plate (4) attached to the outside of the vehicle near the upper edge of the pane of an inclined windscreen (1) in a vehicle chassis. An emitter (3) is fastened to the base plate and extends from the plate. The arrangement also has an emitter connection point (2) between the emitter and the base plate. The base plate is conductive at least in parts and acts as an electric counterweight of the emitter. A thin antenna conductor (5) is connected to the emitter connection point. The antenna conductor is fed to the upper edge of a vehicle windscreen. The conductor is bent and is fed to the inner surface of the windscreen through an adhesive track (6) into the vehicle. As well as the emitter a patch antenna is fastened to the base plate. The patch antenna signal is fed from the antenna connection point either itself or via the thin antenna conductor (9) which runs from the windscreen to the upper edge then bends and is fed into the interior of the vehicle.

IPC 1-7

H01Q 1/32; **H01Q 1/12**; **H01Q 21/30**

IPC 8 full level

H01Q 1/12 (2006.01); **H01Q 1/32** (2006.01); **H01Q 21/30** (2006.01)

CPC (source: EP US)

H01Q 1/1271 (2013.01 - EP US); **H01Q 1/3275** (2013.01 - EP US); **H01Q 21/30** (2013.01 - EP US)

Cited by

DE10114012B4; EP2320520A1; DE10304911B4; US8564495B2; US7193572B2; WO2008110953A1

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