Title (en)

VEHICLE WINDSHIELD ANTENNA

Publication

EP 0166387 A3 19870513 (DE)

Application

EP 85107664 A 19850621

Priority

DE 3423205 A 19840622

Abstract (en)

[origin: EP0166387A2] The invention relates to a transmitting and/or receiving antenna in the rear window of a motor vehicle, consisting of the heating panel and a coil which is constructed with the aid of two parallel wires as a bifilar winding and via which the DC heater current is supplied. To provide good reception and transmission characteristics with such an antenna within the useful reception band, and to minimise the cost of filtering out the low-frequency interference in the heater circuit for reception, the coil, which is constructed as a bifilar winding, is designed as the primary winding of a transformer. With the aid of a secondary winding which is isolated from the primary winding in terms of direct electrical connection, but is magnetically coupled thereto, to which secondary winding an antenna network containing the antenna connection point is connected, by selecting a suitable transformation ratio for the transformer, optimum antenna characteristics can be achieved. The advantages provided by the invention consist in particular of better reception which can even be achieved in a wide low-frequency band as well, and of a reduction in interference which is coupled into the receiver system via the DC supply, and of a simple capability to extend the arrangement for other transmission and/or reception frequency bands. <IMAGE>

IPC 1-7

H01Q 1/12; H01Q 1/32

IPC 8 full level

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

CPC (source: EP)

H01Q 1/1278 (2013.01)

Citation (search report)

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DE FR GB IT

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EP 0166387 A2 19860102; **EP 0166387 A3 19870513**; **EP 0166387 B1 19910116**; DE 3423205 A1 19860102; DE 3423205 C2 19871105; DE 3581321 D1 19910221

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