

Title (en)
VEHICLE WINDSHIELD ANTENNA

Publication
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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>

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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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- [A] FR 2400805 A1 19790316 - BSH ELECTRONICS MANCHESTER LTD [GB]
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