

Title (en)

Arrangement of several antennas in a glass window to get antenna diversity.

Title (de)

Mehrantennenanordnung für Antennendiversity in einer Fensterscheibe.

Title (fr)

Arrangement de plusieurs antennes de vitres pour obtenir diversité d'antennes.

Publication

**EP 0297328 B1 19950503 (DE)**

Application

**EP 88109330 A 19880611**

Priority

DE 3719692 A 19870612

Abstract (en)

[origin: EP0297328A2] In a multiple antenna arrangement having a plurality of antennas for antenna diversity, for reception preferably in the metric waveband (VHF), e.g. for a motor vehicle, having a heating panel arranged in the region of a window, e.g. a car rear window, with conductor parts arranged on the end for supplying the heating current, and with conductor parts to be heated arranged between them, at least three diversity antennas are provided and at least two of the diversity antennas have such conductor parts (4a, 4b, 4c, 4d) arranged on the end, and conductor parts (2a, 2b) to be heated arranged between them, and a terminal pair. In this arrangement, each terminal pair has an earth connection point (14a, 14b) and a conductor part connection point (5a, 5b) and the conductor part connection points of the diversity antennas are arranged such that, in RF terms, they are largely decoupled from one another. Elements (6a-d) blocking RF power are provided in the heating current supply lines, and at least one antenna conductor connection point is provided as a part of a further antenna in the part of the surface of the window which is not covered with conductors, together with a connection terminal pair, formed by an earth connection (52, 14c, 14d) and the antenna conductor connection point (5c, 5d), and the antenna conductor with the connection terminal pair is arranged such that each diversity antenna is largely decoupled from the others in RF terms. <IMAGE>

IPC 1-7

**H01Q 1/12**; **H04B 7/08**

IPC 8 full level

**H01Q 1/12** (2006.01); **H04B 7/08** (2006.01)

CPC (source: EP)

**H01Q 1/1278** (2013.01)

Cited by

CN107882492A; FR2660117A1; EP0851528A3; EP0392969A1; US5959587A; EP0560677A1; EP0382895A1; CN1127776C; EP0418047A3; US6400334B1; WO9914818A1; WO2007009831A1; WO9511530A1

Designated contracting state (EPC)

DE FR GB IT SE

DOCDB simple family (publication)

**EP 0297328 A2 19890104**; **EP 0297328 A3 19910116**; **EP 0297328 B1 19950503**; DE 3719692 A1 19881222; DE 3719692 C2 19910919; DE 3853699 D1 19950608

DOCDB simple family (application)

**EP 88109330 A 19880611**; DE 3719692 A 19870612; DE 3853699 T 19880611