

Title (en)

ANTENNA ARRANGEMENT IN THE REAR WINDOW OF A CAR

Publication

**EP 0155647 B1 19920115 (DE)**

Application

**EP 85102985 A 19850315**

Priority

DE 3410415 A 19840321

Abstract (en)

[origin: US4791426A] An active antenna for the reception of long-, medium-, short-and ultra-short wave broadcasts is arranged in a rear window of a motor vehicle equipped with a boundary conductor enclosing an array of heating elements. The reception of long-, medium- and short-wave signals is made by means of an elongated flat antenna element which is arranged in the window on a free area above or below the heating elements, and the reception of the ultra-short wave signals is effected by the array of heating elements. An antenna amplifier includes a linear amplifying stage connected to the flat antenna element, an amplifying branch circuit connected to the array of heating elements and a common ground terminal connected to the boundary conductor. A frequency separator has two inputs connected, respectively, to the output of the amplifying stage and of the branch circuit, and an output connected via an antenna cable to a conventional radio receiver.

IPC 1-7

**H01Q 1/12**; **H01Q 23/00**

IPC 8 full level

**H01Q 1/12** (2006.01); **H01Q 23/00** (2006.01)

CPC (source: EP US)

**H01Q 1/1278** (2013.01 - EP US); **H01Q 23/00** (2013.01 - EP US)

Citation (examination)

- Nachrichten technische Zeitschrift, 1970, Heft 4, S. 179-180
- Internationale Elektronische Rundschau, 1969, Nr 6, S 141-144

Cited by

EP0297328A3; US4914446A; EP0270961A3; FR2601194A1; US4849766A; EP0629018A3; EP0353515A1; US5083134A; EP0297813A3; US7212167B2; US6593889B1; WO0033415A1; WO9511530A1; EP1246294B1; KR100864595B1; EP0332898B1; EP3065992B1

Designated contracting state (EPC)

DE FR GB IT NL SE

DOCDB simple family (publication)

**EP 0155647 A2 19850925**; **EP 0155647 A3 19870204**; **EP 0155647 B1 19920115**; DE 3410415 A1 19850926; DE 3585165 D1 19920227; US 4791426 A 19881213

DOCDB simple family (application)

**EP 85102985 A 19850315**; DE 3410415 A 19840321; DE 3585165 T 19850315; US 71564485 A 19850321