

Title (en)  
Window antenna system with an antenna signal amplifier.

Title (de)  
Scheibenantennensystem mit Antennenverstärker.

Title (fr)  
Antenne de fenêtre avec amplificateur d'antenne.

Publication  
**EP 0392969 B1 19931222 (DE)**

Application  
**EP 90710007 A 19900321**

Priority  
DE 3911178 A 19890406

Abstract (en)  
[origin: EP0392969A1] A system having at least two antennas for frequencies up to the UHF band in a non-conductive surface which is installed in a metallic body, having antenna conductors, fitted on or in the non-conducting surface, with antenna conductor terminals and antenna four-pole networks, each having a first input and output terminal. The antenna four-pole networks (5a, 5b) are fitted in the metallic vehicle body (2) on, in or in the vicinity of the non-conductive surface (1, 12) and the antenna conductor terminal (4a, 4b) of an antenna conductor (3a, 3b) is connected in as short a manner as possible in each case to the first input terminal (6a, 6b) of the associated antenna four-pole network (5a, 5b) and in each case the second input terminal (7a, 7b) of the antenna four-pole network (5a, 5b) is connected in as short a manner as possible to the second output terminal (9a, 9b) of the respective antenna four-pole network (5a, 5b). In addition, at least one radio-frequency output line (10) is present, which is fitted on or in the non-conductive surface (1). This radio-frequency output line (10) is connected to the first and to the second output terminal (8a and 9a) of one of the antenna four-pole networks (5a). In addition, on the non-conductive surface (1) there is a junction point (11) for the output signals of the antenna four-pole networks (5a, 5b) from which these output signals, or signals derived therefrom, are guided in a single cable strand (14) to the conductive body (2) having the ground point (15).

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 US)  
**H01Q 1/1271** (2013.01 - EP US)

Cited by  
EP1225653A3; EP1617505A1; EP0608554A1; EP0800228A1; EP0559196A1; US5334989A; EP0766338A1; US5867128A; CN1127776C

Designated contracting state (EPC)  
DE ES FR GB IT SE

DOCDB simple family (publication)  
**EP 0392969 A1 19901017**; **EP 0392969 B1 19931222**; DE 3911178 A1 19901011; DE 3911178 C2 19920213; DE 59003925 D1 19940203; ES 2048475 T3 19940316; US 5049892 A 19910917

DOCDB simple family (application)  
**EP 90710007 A 19900321**; DE 3911178 A 19890406; DE 59003925 T 19900321; ES 90710007 T 19900321; US 50597590 A 19900406