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(54) **Mounting of an antenna on a vehicle roof with maintained high voltage protection**

(57) A system for vehicles is provided, comprising a first unit arranged on the outside of the vehicle and a second unit arranged on the inside of the vehicle, and communication means to provide a communication contact between said first and second units. The communi-

cation means further provides a galvanic separation between the first and second units. Thanks to this separation, a reliable high-voltage protection is achieved without distorting the communication signals. The invention is particularly useful for internet solutions for trains.

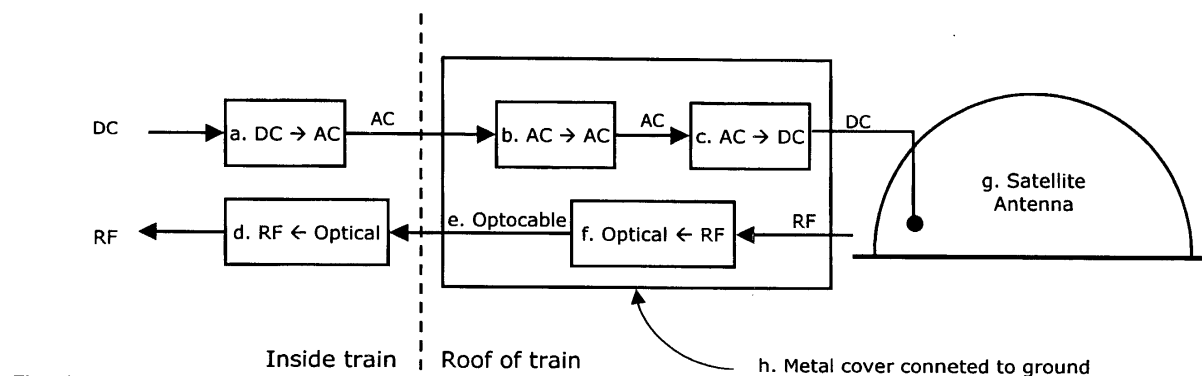


Fig. 1



European Patent  
Office

# EUROPEAN SEARCH REPORT

Application Number  
EP 03 02 4670

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	PATENT ABSTRACTS OF JAPAN vol. 0070, no. 08 (E-152), 13 January 1983 (1983-01-13) & JP 57 166750 A (SUMITOMO DENKI KOGYO KK), 14 October 1982 (1982-10-14) * abstract *	1-4,7,8	H01Q1/32 H01Q1/52
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P,X	----- US 6 577 419 B1 (HALL & AL.) 10 June 2003 (2003-06-10)  * the whole document *	1,2,4,5, 8,10-13, 15	
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The present search report has been drawn up for all claims			
Place of search <b>The Hague</b>		Date of completion of the search <b>30 March 2004</b>	Examiner <b>Wattiaux, V</b>
<p><b>CATEGORY OF CITED DOCUMENTS</b></p> <p>X : particularly relevant if taken alone  Y : particularly relevant if combined with another document of the same category  A : technological background  O : non-written disclosure  P : intermediate document</p> <p>T : theory or principle underlying the invention  E : earlier patent document, but published on, or after the filing date  D : document cited in the application  L : document cited for other reasons  &amp; : member of the same patent family, corresponding document</p>			

EPO FORM 1503 03.92 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT  
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EP 03 02 4670

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
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