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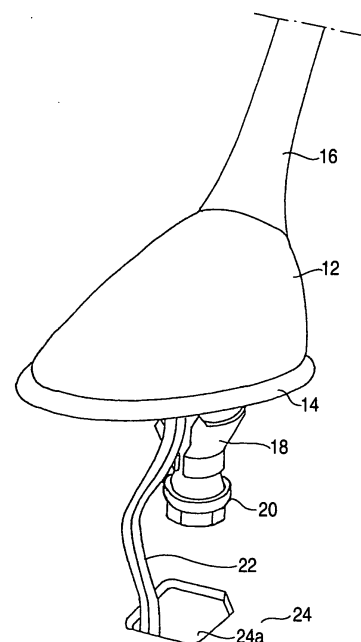
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(54) **Antenna mounting structure**

(57) A structure for mounting an antenna device on a first side of a panel body is disclosed. A first fixation member includes a first end having a first width, a second end, and a slit connecting the first end and the second end. A protrusion is protruded from the antenna device and fitted into the first end of the first fixation member. A second fixation member is fitted into the second end of the first fixation member while being coupled with the protrusion in a screwing manner. A wedge member is provided on the protrusion and formed with a cutout portion. The wedge member is configured to be fitted into the slit when the protrusion and the second fixation member are in a first screwing position, and configured to expand the slit when the protrusion and the second fixation member are in a second screwing position where the protrusion and the second fixation member are closed to each other than the first screwing position. A cable is extending from the antenna device and led to a second side of the panel body while passing through the cutout portion of the wedge member and an aperture formed in the panel body.

**FIG. 1**



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# EUROPEAN SEARCH REPORT

Application Number  
EP 05 02 2890

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	US 2 392 491 A (MORAN TERENCE J) 8 January 1946 (1946-01-08) * left-hand column, line 30 - right-hand column, line 55 *	1,3	H01Q1/12 H01Q1/32
A	* figures 1,11 *	2,4-7	
A	----- DE 20 2004 007160 U1 (WILHELM SIHN JR. GMBH & CO. KG) 15 July 2004 (2004-07-15) * paragraphs [0035] - [0041] * * figures 2,9 *	1-7	
A	----- US 2003/231140 A1 (HAUSSLER BRADLEY S ET AL) 18 December 2003 (2003-12-18) * paragraphs [0023] - [0028] * * figures 3-5 *	1-7	
X	----- US 2003/068198 A1 (KOZLOVSKI A. DAVID) 10 April 2003 (2003-04-10) * paragraphs [0046] - [0051] *	1,3	
A	* figures 9-14 *	2,4-7	
A	----- DE 102 10 593 A1 (WILHELM SIHN JR. KG) 25 September 2003 (2003-09-25) * column 3, line 45 - column 4, line 19 * * figure 2 *	1-7	TECHNICAL FIELDS SEARCHED (IPC) H01Q
The present search report has been drawn up for all claims			
Place of search <b>Munich</b>		Date of completion of the search <b>20 March 2006</b>	Examiner <b>Kruck, P</b>
CATEGORY OF CITED DOCUMENTS 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		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 ----- & : member of the same patent family, corresponding document	

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### CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- ☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

### LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

- ☒ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- ☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- ☐ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:



The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-3

through-wall mounting structure with fastening mechanism  
comprising a cutout portion to allow the passage of a cable  
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2. claims: 4-7

through-wall mounting structure comprising fixation means  
including claws and guiding means offering improved fixation  
reliability and ease during installation  
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**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

EP 05 02 2890

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
The members are as contained in the European Patent Office EDP file on  
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

20-03-2006

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