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(54) **Safety device for automatically checking the weight of the load present on one or more lifting groups of an elevator, of a platform, of a lift or of other similar apparatuses**

(57) The present finding concerns a safety device for automatically checking the weight present on one or more lifting groups of an elevator, of a platform, of a lift or of other similar apparatuses. Such a device is of the type in which the mobile platform or the cabin (1), able to slide on the column (2), consists of a board (3) on which the load rests and a motorisation group (4), formed from a welded structure (5), which supports the motor group, consisting of a geared motor (6) or another work device, which takes care of moving the aforementioned platform on the aforementioned column. Such a safety device is characterised in that it foresees that the two components of the platform (1), i.e. the board (3) on which the load is rested and the motorisation group (4) consist of two distinct and separate work groups, between which an intermediate element (8) is inserted that, as well as acting as connection means between the aforementioned groups, to allow the entire platform to be moved vertically, also detects the weight value of the material loaded onto the board.

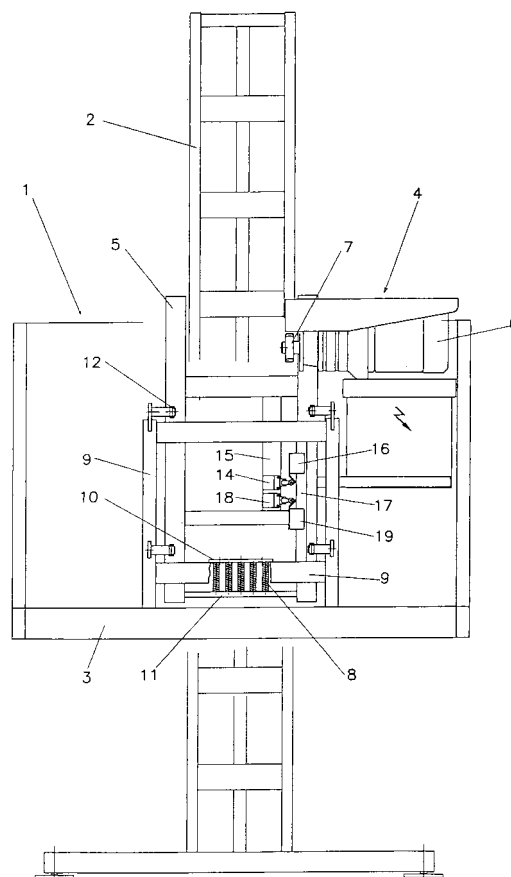


FIG. 1



EUROPEAN SEARCH REPORT

Application Number
EP 06 02 4279

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	JP 55 071916 A (OKABE UME0) 30 May 1980 (1980-05-30)	1-5,7	INV. B66B1/34 B66B1/48
Y	* abstract *	6	
A	-----	8-10	
X	EP 0 755 894 A (INVENTIO AG [CH]) 29 January 1997 (1997-01-29)	1-5,7	
Y	* abstract *	4,6	
A	-----	8-10	
X	US 6 450 299 B1 (LYSAGHT RICHARD G [US]) 17 September 2002 (2002-09-17)	1-5,7	
Y	* column 2, lines 43-48 *	4,6	
A	-----	8-10	
X	US 4 071 116 A (HALPERIN LEVI YTZHAK ET AL) 31 January 1978 (1978-01-31)	1-3,5-7	
Y	* column 4, lines 46-50 *	4,6	
A	-----	8-10	
X	EP 1 498 379 A (TOSHIBA ELEVATOR KK [JP]) 19 January 2005 (2005-01-19)	1-7	TECHNICAL FIELDS SEARCHED (IPC)
Y	* paragraphs [0088] - [0093] *	4,6	B66B
A	* paragraph [0128] *	8-10	

2 The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 21 July 2008	Examiner Eckenschwiller, A
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			

EPO FORM 1503 03.82 (P04C01)



Application Number

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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing claims for which payment was due.

- ☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due 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 those claims for which no payment was due.

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:
- 1-10
- ☐ The present supplementary 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 (Rule 164 (1) EPC).



**LACK OF UNITY OF INVENTION
SHEET B**

Application Number

EP 06 02 4279

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: 1-10

Providing a weighting device on an elevator

2. claim: 11

Providing a limit switch on an elevator

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 06 02 4279

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.

21-07-2008

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