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(30) Priority: **21.01.1997 NL 1005050**

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(54) **Devices suitable for electrically opening a door or a window which pivots in a frame**

(57) Devices (4) suitable for electrically opening a door (13) or a window, for example, which pivots in a frame (1). The device (4) comprises a longitudinally adjustable element (15), which is to be pivotally connected to the frame (1) with one end (16) and which is to be pivotally connected to the door (13) or the window with the other end (18). The longitudinally adjustable element (15) comprises a rod (41) which can be telescoped out of a housing by means of an electric motor (42). The longitudinally adjustable element (15) can also be manually adjusted for length against spring force.

The device may comprise an elongated section (17)

present between parallel posts (2) of the frame (1), to which section (17) one end (16) of an electrically operated moving mechanism (15) is attached, whilst the other end (18) of said mechanism (15) is attached to the door (13) or the window. The section (17) is provided, at least at one end, with a clamping mechanism (19) comprising four hemispherical elements (26,29,31,32), which are arranged in opposite pairs, with the convex sides being turned towards each other, whereby movement of the elements of a first pair towards each other will cause the elements of the second pair to move away from each other.

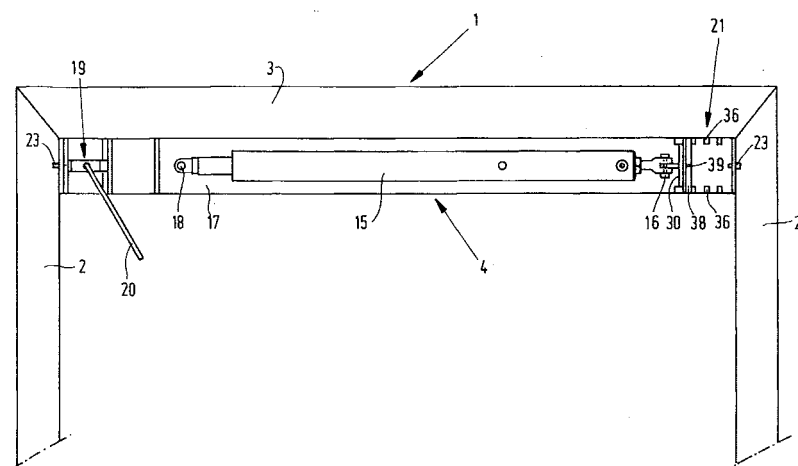


FIG. 4

EP 0 854 262 A3



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EUROPEAN SEARCH REPORT

Application Number
EP 98 20 0144

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.6)
X	DE 15 84 136 B (KORTHAUS, WILKE) 15 October 1970 (1970-10-15)	1-4	E05F15/12 F16H25/20
Y	* column 2, line 26 - line 34 * * column 4, line 63 - line 66 * * column 5, line 8 - line 18; figure 1 *	5	
X	GB 2 200 403 A (LOANGUARD LIMITED) 3 August 1988 (1988-08-03) * page 12, line 1 - page 13, line 3; figures 7-10 *	1,2,4	
Y	US 2 696 579 A (DER VEER JOHN H VAN) 7 December 1954 (1954-12-07) * figure 1 *	5	
A	EP 0 632 181 A (W. HAUTAU) 4 January 1995 (1995-01-04) * column 5, line 29 - line 38 * * column 6, line 1 - line 29; figure 1 *	1	
<p>-----</p> <p>TECHNICAL FIELDS SEARCHED (Int.Cl.6)</p> <p>E05F F16H</p>			
<p>The present search report has been drawn up for all claims</p>			
Place of search		Date of completion of the search	Examiner
THE HAGUE		24 January 2002	GUILLAUME, G
<p>CATEGORY OF CITED DOCUMENTS</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 & : member of the same patent family, corresponding document</p>			

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European Patent
Office

Application Number
EP 98 20 0144

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:

1-5



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**LACK OF UNITY OF INVENTION
SHEET B**

Application Number
EP 98 20 0144

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: 1-5

Telescopic electric drive allowing manual emergency displacement.

2. Claims: 6-9

Elongated electric drive with clamping mechanism providing easy mounting.

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

EP 98 20 0144

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
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24-01-2002

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