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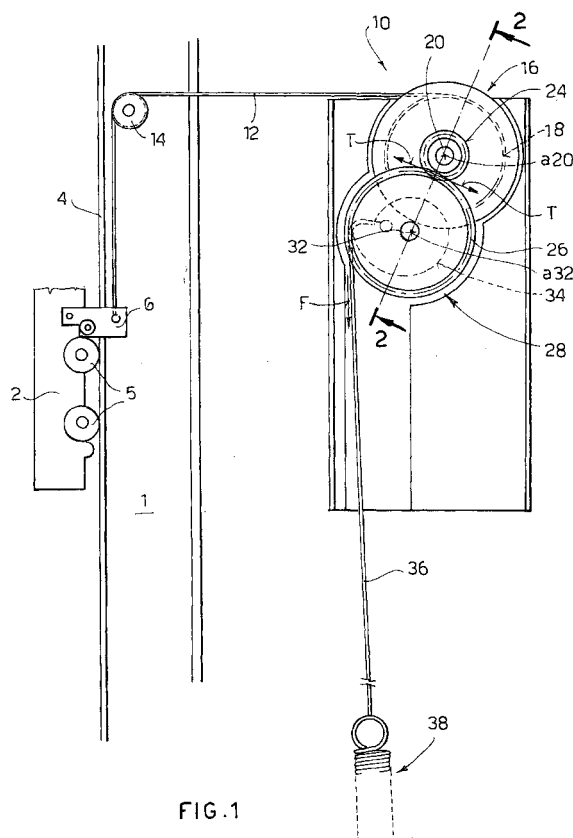
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(54) **A movement and balancing mechanism for vertical sliding doors**

(57) A movement and balancing mechanism for vertical sliding doors (2) has a return spring (38); to instantly counterbalance a variable force exerted by the spring, which is greater the more the spring is extended, a cable (36) cooperates with the spring and winds round a varying radius profile of an idle wheel (28), so that the moment exerted by the spring on the wheel is kept constant.

Preferably, the device includes an idle wheel (16) for winding the cable (12) of the door, coupled to the varying profile wheel (28) through a reduction ratio.

Use is particularly envisaged for furniture.



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EUROPEAN SEARCH REPORT

Application Number
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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
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X	US 5 400 721 A (GREENE H PETER) 28 March 1995 (1995-03-28) * abstract * * column 1, line 12 - line 14 * * column 4, line 3 - column 5, line 1 * * figures 1-3 * -----	1,2,4 3,5-7	
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			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			E05D
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 27 August 2004	Examiner Mund, 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	

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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