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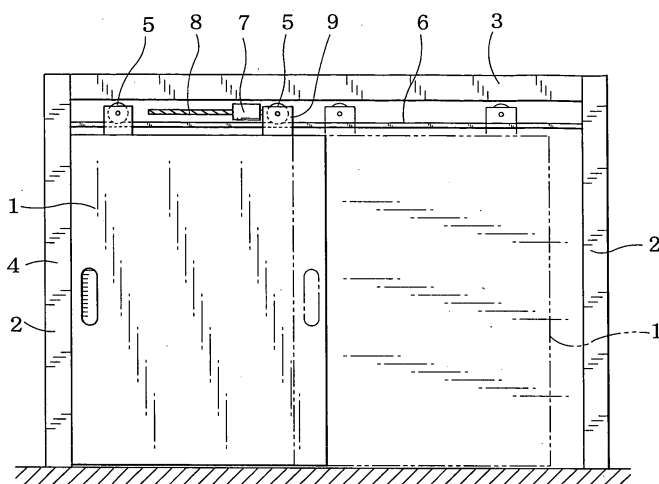
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(54) **Braking apparatus of door**

(57) In a braking apparatus by which braking can be effected to the movement of a door, the entire braking apparatus is formed in a compact structure. The braking apparatus has a main body containing a braking fluid, and a spiral rod. A hollow shaft is rotatably inserted through the main body. The spiral rod is inserted into the hollow shaft, and the main body and the spiral rod are screw-threadably engaged. On the outer face of the hol-

low shaft, is disposed a resistor which is placed in the braking fluid. The main body is fixed to the door frame, and the spiral rod is fixed to the door. When the door is opened and closed, the spiral rod undergoes straight reciprocating motion in the axial direction, and this motion is converted to the rotational motion of the hollow shaft, and the hollow shaft is rotated under decelerated condition, whereby braking can be effected to the movement of the door.

**F I G. 1**





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Office

# EUROPEAN SEARCH REPORT

Application Number  
EP 05 02 7376

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	GB 2 401 161 A (TITUS INTERNAT LTD [GB]) 3 November 2004 (2004-11-03)	1-7,10, 11	INV. E05F5/00
Y	* page 2, line 1 - page 4, line 13; figures 1,2 *	8,9	
Y	----- US 6 325 188 B1 (WU CHIN-LONG [TW]) 4 December 2001 (2001-12-04) * column 4, line 20 - line 40; figures 4,5 * -----	8,9	
			TECHNICAL FIELDS SEARCHED (IPC)
			E05F F16F
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
The Hague		21 July 2008	Guillaume, Geert
<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 ..... &amp; : member of the same patent family, corresponding document</p>			

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

EP 05 02 7376

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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21-07-2008

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