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Safety blocking system for an elevator swinging door.

The patent deals with a safety system for blocking an elevator swinging door, to guarantee the closing and/or blocking of the door, made up of a blocking assembly mounted on the doorframe (4) this blocking assembly including a closure ratchet (8) which can be moved on the doorframe (4) between blocked and unblocked positions; an activator (10) of closer ratchet (8) mounted on the doorframe (4) and connected in operation to the closer ratchet (8) in that a rotation of this activator (10) of closer ratchet (8) results in the movement of the closer ratchet (8) between the mentioned blocked and unblocked positions; a key guide (12) covering activator (10) of the closer ratchet and including an opening (14) in the closer ratchet for access to activator (10) of closer ratchet; and an emergency key (22) having a nozzle (28) to come into contact with the activator (10) of closer ratchet and to turn the latter through said opening (14) of the key guide (12), it being possible to operate this key guide (12) to prevent the nozzle (28) of the key and activator (10) of closer ratchet from being released when this closer ratchet (8) is in the unblocked door position; a mechanism (52) to hold the closer ratchet in the unblocked door position when the floor door is open; and a trigger mechanism (34) to free the holding

mechanism when the floor door is closed so that the closer ratchet returns to its door blocked position in order to block the door and the emergency key (22) returns to the initial position in which the nozzle (28) of the key can be disconnected from the ratchet activator (10) and can be removed from the door-frame (4.)

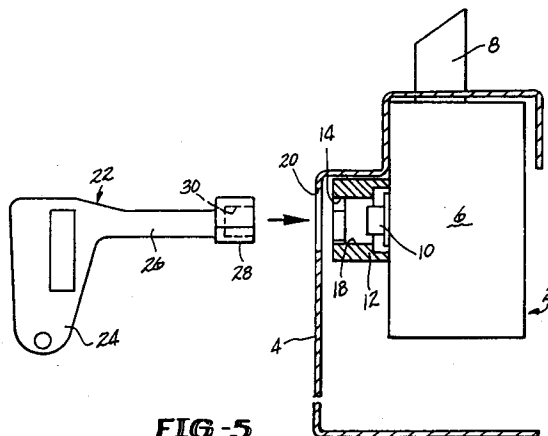


FIG-5



European Patent
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EUROPEAN SEARCH REPORT

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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.5)
A	GB-A-2 090 626 (THE EXPRESS LIFT COMPANY) * page 2, line 22 - line 43; figures 1-4 * ---	1	B66B13/24 B66B13/16
A	GB-A-1 511 838 (BENNIE LIFTS LIMITED) * page 2, line 61 - page 3, line 61; figures 1-15 * ---	1	
A	GB-A-2 193 750 (HITACHI LTD) * page 2, line 95 - page 3, line 40; figures 1-6 * ---	1	
A	US-A-4 483 420 (BYRNE) * column 4, line 19 - line 63; figures 6-8 * ---	1	
A	DATABASE WPIL Week 8602, Derwent Publications Ltd., London, GB; AN 86-012290 & SU-A-1 162 722 (SOYUZLIFTMASH LIFTS) * abstract * -----	1	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			B66B E05B
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 19 FEBRUARY 1993	Examiner CLEARY F.M.
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			