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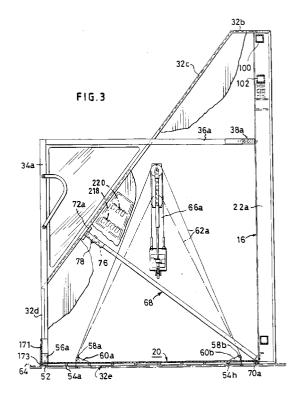
EUROPEAN PATENT APPLICATION

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- (54)Improvements in or relating to domestic through-floor, vertical lifts for use by persons with limited mobility

A domestic, through-floor, vertical lift (10) is (57)adapted for use by persons with limited mobility, the lift (10) being of a type serving only two floors and comprising a car (12) adapted and arranged to ascend and descend vertically between the two floors. The car (12) is lightweight and comprises a chassis (16) engaging rails (14) at the back of the car (12) only. Side panels (18) and a floor panel (20) are assembled to each other and to the chassis (16) by interlocking flanges and are held togther by pre-loaded struts (36, 38, 68) in end-to-end compression.

To brake the car (12) from runaway descent, a cord (138) extends up from the car (12) to a low speed governor (144) with a winder (142) which stops unwinding the cord (138) when the descent speed is too fast. The resultant pull on the cord 138 causes it to pull two toothed brake segments (114) into the "on" position, so that their teeth (120) bite into the guide rails (14) to stop

With a mains supply failure to the primary motor 184, a battery-driven secondary motor (192) is arranged to be connected by a clutch (202) to take over from the primary motor (184) and the primary motor brake (210) is released.





EUROPEAN SEARCH REPORT

Application Number EP 96 30 2917

Category	Citation of document with ir of relevant par	dication, where appropriate,	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
A	1993	LY LOUIS ET AL) 4 May - column 5, line 15;	1	B66B11/02 B66B5/16 B66B11/04
A	FR 1 451 791 A (LÖDIGE) * page 2, column 2, paragraph 2 - page 3, column 2, paragraph 2; figures 1,2 *		1	
A	US 4 700 809 A (LAZAR GUSTAV) 20 October 1987 * abstract *		1	
Α	DE 91 04 827 U (GEO * the whole documen	 RGIEW) 25 July 1991 t * 	1	
				TECHNICAL FIELDS SEARCHED (Int.Cl.6)
				B66B
	The present search report has b	oon drawn up for all claims		
Place of search		Date of completion of the search	50-	Examiner 7.7.1 D
Y:pai do A:teo	THE HAGUE CATEGORY OF CITED DOCUME rticularly relevant if taken alone rticularly relevant if combined with an cument of the same category haological background n-written disclosure	E : earlier patent do after the filing d D : document cited i L : document cited fi	le underlying th cument, but pub ate n the applicatio or other reasons	n



European Patent

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CLAIMS INCURRING FEES				
The present European patent application comprised at the time of filing more than ten claims.				
	All claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for all claims.			
	Only part of the claims fees 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 daims:			
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.				
LA	CK OF UNITY OF INVENTION			
	n Division considers that the present European patent application does not comply with the requirement of unity of and relates to several inventions or groups of inventions,			
:	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.			
	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 respects of which search fees have been paid,			
	namely claims:			
X	None of the further search fees has 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			



European Patent

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EP 96 30 2917 -B-

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirement of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims 1-10:

A domestic vertical lift comprising: guide rails, a chassis, side and floor panels and preloaded struts for tensioning the panels

2. Claims 11-21:

A domestic vertical lift comprising: speed sensing means and braking means $% \left(1\right) =\left(1\right) +\left(1\right)$

3. Claims 22-23:

Electric motor drive system