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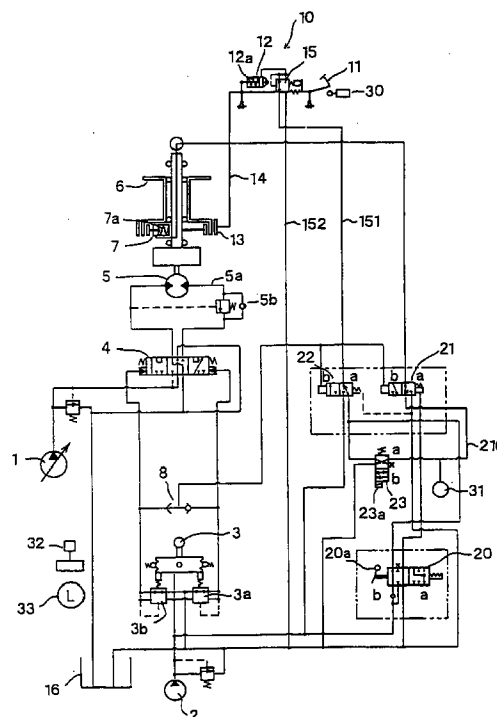
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(54) Winch operating device

(57) The winch operating device according to the present invention is provided with a retaining means 7, 23 which, when a mode is shifted over by operation of a mode selection member 20a from a first mode in which free fall of a winch drum is not possible to a second mode in which free fall of said winch drum is possible, retains the state in which free fall of said winch drum is not possible until a verification operation other than the operation of selecting said second mode is performed in the state in which a brake pedal 11 is being operated. By doing this, free fall against the desire of the operator is positively prevented.

FIG. 1



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EUROPEAN SEARCH REPORT

Application Number
EP 96 20 1673

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)
A	US 4 398 698 A (CRAWFORD STEVEN C ET AL) * column 1, line 28-30; claim 1 *	1,4	B66D1/44
A,D	JP 01 145 997 A (KOBE STEEL) * figures 1-8 *	1,4	
A	JP 06 064 896 A (HITACHI CONSTR MACH CO LTD) 8 March 1994 * figures 1-3 *	1,4	
A	JP 54 075 745 A (HITACHI CONSTR MACH CO LTD) 16 June 1979 * figures 1-4 *	1,4	
A	US 4 447 044 A (NAKATA MINORU) * claim 1; figure 1 *	1,4	
A	US 4 549 640 A (SEKINO SYOICHI) * claim 1 *	1,4	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			B66D
Place of search		Date of completion of the search	Examiner
THE HAGUE		8 January 1998	De Gussem, J
<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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