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54 **Monitoring system for load carriers.**

57 The monitoring system comprises a number of transducers (21,22,23) which are connected to a central unit in order to measure variables which affect the carrying ability of the load carrier. Memory means is also provided and stores data which defines the inter-relationships between the variables. The data defines the inter-relationships in terms of multi-dimensional surfaces or manifolds with a

boundary corresponding to the operational limits of the system. Computing means connected to the transducers (21, 22, 23) and the memory means performs real time calculation of the status of the system by substitution of variable values received from the transducers (21, 22, 23).

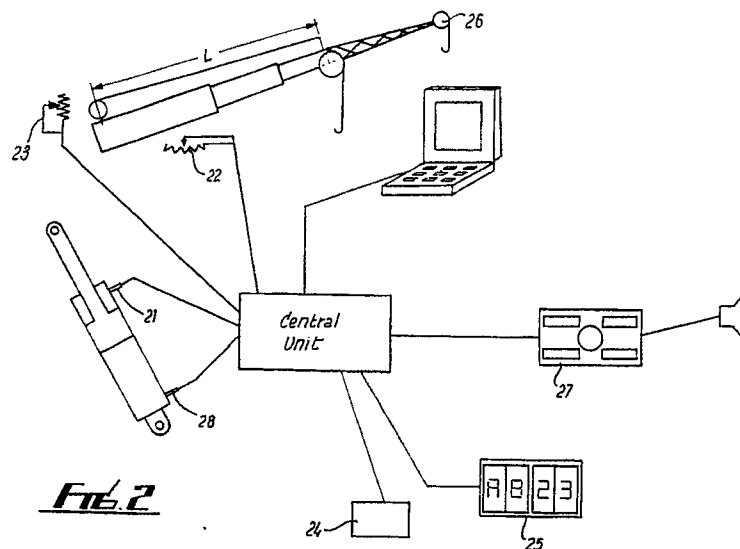


Fig. 2

EP 0 353 099 A3



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)
Y	US-A-4 456 093 (D.R. FINLEY et al.) * figure 10; abstract * ---	1-4,9	B 66 C 23/90
Y	DE-A-3 341 287 (KRUEGER GMBH & CO KG) * figure 20; page 6, line 6 - page 7, line 16 * ---	1-4,9	
P,Y	EP-A-0 285 710 (3B6 SISTEMI ELETTRICO-IDRAULICI) * figure 4; claim 1 * ---	1-4,9	
Y	WO-A-8 505 614 (L. PIETZSCH GMBH & CO.) * figure 1; claims 1-4 * ---	1-4,9	
A	DE-A-3 019 385 (COLES CRANES LTD.) * figures 2,3; claim 3 * -----	4,5	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			B 66 F B 66 C
The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 07-02-1991	Examiner BREUSING J
CATEGORY OF CITED DOCUMENTS		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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