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54 **Driving mechanism with energy storing feed system, particularly for the loading-travelling movements of portal cranes.**

57 A driving mechanism with energy storing feed system particularly for the loading-travelling motions of portal cranes having a hydraulic motor (3) in driving connection with an element (1) to be driven, a hydraulic supply unit (2) for operation of the hydraulic motor, the hydraulic supply unit being arranged to drive the motor (3) in synchronous operation with a hydraulic reversing unit (4) which is also in driving connection with the element (1) to be driven, and an energy storing unit (5) provided with a charger (6) in functional connection with the hydraulic reversing unit. The arrangement ensures that the energy necessary for the driving mechanism to drive the element with direct energy input, also uses reserve power in the energy storing unit (5) derived from braking energy, this being transmitted through the separate reversing unit (4) when accelerating extra energy is required.

With use of the invention the amount of energy demand necessary for the operation of cranes can be reduced by over 50 per cent. The generally known energy saving expectations are met in an extremely high degree with the solution.

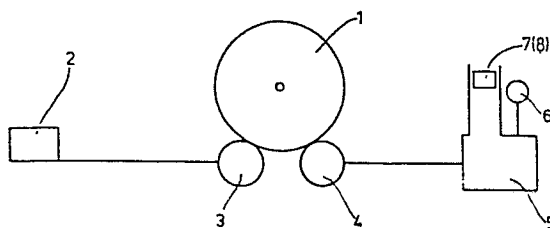


Fig. 1



European Patent
Office

EUROPEAN SEARCH REPORT

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Application number

EP 81 30 1366.1

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int. Cl. ³)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
	DE - A1 - 2 451 021 (MAN AG) * claims 1, 2; fig. * & GB - A - 1 515 009 ---	1	B 66 C 13/20 B 60 T 1/10 B 66 D 1/08
	DE - A1 - 2 841 978 (J. LENSING) * claims 1 to 3 * ---	1,2	
	DD - A - 37 833 (E. GALENBECK et al.) * claim; fig. * ---	1,2	
	US - A - 3 903 696 (V.E. CARMAN) * claims 1 to 3; fig. * ---	1,2	TECHNICAL FIELDS SEARCHED (Int. Cl. ³)
A	DE - C - 317 649 (G. SILVESTRI et al.) * claim 1 * ---	1,2	B 60 T 1/10 B 66 C 13/00 B 66 D 1/00 F 16 D 61/00
A	DE - C - 891 503 (DAIMLER-BENZ AG) * claims 1 to 5 * ---	1	
A	US - A- 3 294 369 (A.H. BUTLER) * fig. * ---	1,2	CATEGORY OF CITED DOCUMENTS
			X: particularly relevant A: technological background O: non-written disclosure P: intermediate document T: theory or principle underlying the invention E: conflicting application D: document cited in the application L: citation for other reasons
X The present search report has been drawn up for all claims			& member of the same patent family, corresponding document
Place of search Berlin		Date of completion of the search 24-11-1981	Examiner KANAL