

Title (en)

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

Title (de)

Antrieb mit Energiespeicherung, insbesondere für Lade- und Fahrbewegungen von Portalkranen.

Title (fr)

Entraînement avec accumulation d'énergie, en particulier pour mouvements de chargement et de translation de grues-portiques.

Publication

EP 0038633 A2 19811028 (EN)

Application

EP 81301366 A 19810330

Priority

HU 94180 A 19800418

Abstract (en)

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.

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