

Title (en)

SYSTEM FOR CONTROLLING MOVEMENTS OF A LOAD LIFTING DEVICE

Title (de)

SYSTEM ZUM STEUERN DER BEWEGUNGEN EINER LASTHEBEVORRICHTUNG

Title (fr)

SYSTEME POUR COMMANDER LES MOUVEMENTS D'UN DISPOSITIF DE LEVAGE DE CHARGE

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Application

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Abstract (en)

[origin: US7070061B1] The invention relates to a system for controlling movements of a load lifting device on a horizontal plane whereby the load lifting device (6) comprises a vertically oriented carrier element (14). The vertical orientation of said carrier element is at least due to gravity when the element is in a resting position. At least one motor device (23 a, 23 b, 23 c) is connected in order to execute said movements. Said movements can be controlled by a force impinging in a substantially horizontal direction relative to the carrier element (14), in particular a force which can be applied and which can be detected by a sensor device (25). In order to improve upon a control system in a simple to operate and low cost manner, in particular in such a way that load independent control is achieved with a high degree of positioning accuracy and rapid positioning speed, the sensor device (25), according to the invention, is embodied in such a manner and arranged in such a manner with respect to the carrier element (14) that the force is detected in a path-free manner. Path-free in this context is taken to mean that components of the sensor device (25) do not move through macroscopically registerable path with respect to each other.

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