

Title (en)

METHOD AND DEVICE FOR CONTROLLING A HYDRAULIC LIFTING DRIVE OF A MOBILE WORK MACHINE

Title (de)

VERFAHREN UND VORRICHTUNG ZUM STEUERN EINES HYDRAULISCHEN HUBANTRIEBS EINER MOBILEN ARBEITSMASCHINE

Title (fr)

PROCÉDÉ ET DISPOSITIF POUR COMMANDER UN MÉCANISME D'ENTRAÎNEMENT DE LEVAGE HYDRAULIQUE D'UNE MACHINE DE TRAVAIL MOBILE

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Abstract (en)

[origin: WO2022189197A1] The invention relates to a method for controlling a hydraulic lifting drive (1) of a mobile work machine, in particular of an industrial truck, for lifting and lowering a load-receiving means (3), wherein the lifting drive (1) has a lifting cylinder device (10a, 10b) and a control valve device (12), the latter being attached to a consumer line (19) routed to the lifting cylinder device (10a, 10b), to a container line (18) routed to a container (17), and to a feed line (14) connected to a pump (15), wherein an operator controls the lifting operation and the lowering operation of the lifting drive (1) by manual operation of a lifting drive operating element (42), which is operatively connected to the control valve device (12). It is proposed that, in the absence of a load on the load-receiving means (3), the operator, by actuating an authorization actuation element (44) simultaneously with the operation of the lifting drive operating element (42) in the lowering operation of the lifting drive (1), authorizes a high-speed lowering operation in which a volumetric flow required for lowering and flowing out from the lifting drive (1) is increased by increasing the cross-section by means of a cross-section increasing device (47) in the hydraulic line path from the lifting drive (1) to the container (17). The invention further relates to a device for performing the method.

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