

Title (en)

A CONTROL METHOD FOR ACTUATING A COMBINED MOVEMENT OF A BOOM AND AN IMPLEMENT IN A WORK VEHICLE, A CORRESPONDING CONTROL SYSTEM AND A WORK VEHICLE COMPRISING SUCH CONTROL SYSTEM

Title (de)

STEUERVERFAHREN ZUM BETÄTIGEN EINER KOMBINIERTEN BEWEGUNG MINDESTENS EINES AUSLEGERS UND/ODER EINES ARBEITSGERÄTES IN EINEM ARBEITSFAHRZEUG, ENTSPRECHENDES STEUERSYSTEM UND ARBEITSFAHRZEUG MIT EINEM SOLCHEN STEUERSYSTEM

Title (fr)

PROCÉDÉ DE COMMANDE POUR ACTIONNER UN MOUVEMENT COMBINÉ D'UNE FLÈCHE ET D'UN OUTIL DANS UN VÉHICULE DE TRAVAIL, SYSTÈME DE COMMANDE CORRESPONDANT ET VÉHICULE DE TRAVAIL COMPRENANT UN TEL SYSTÈME DE COMMANDE

Publication

EP 3719219 A1 20201007 (EN)

Application

EP 20168286 A 20200406

Priority

IT 201900005234 A 20190405

Abstract (en)

A control method for actuating a combined movement of a boom and an implement in a work vehicle powered by a motor is disclosed. Actuating the boom and the implement occurs by means of a joystick controlled by a user, a movement of the joystick in a predetermined control area according to a first preset direction causing the actuation of the boom by a first hydraulic actuator and a movement of the joystick in the control area according to a second preset direction causing the actuation of the implement by a second hydraulic actuator. Each hydraulic actuator include a respective open centre directional solenoid valve whose opening degree is controlled by means of a driving current as a function of the position of the joystick. The control method comprises acquiring a current position of the joystick as well as a current rotational speed of the motor, and applying a correction factor to a nominal driving current of the second open centre directional solenoid valve, based on a predetermined reference model of said correction factor indicative of a nominal relation between the first component of the current position of the joystick along the first preset direction, the rotational speed of the motor, and the correction factor.

IPC 8 full level

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CPC (source: EP)

E02F 3/434 (2013.01)

Citation (search report)

- [A] US 2015322647 A1 20151112 - DANKO GEORGE L [US]
- [A] JP 2016125282 A 20160711 - SUMITOMO HEAVY INDUSTRIES
- [A] US 2014283508 A1 20140925 - HIRAKU KENJI [JP], et al

Designated contracting state (EPC)

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Designated extension state (EPC)

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