

Title (en)
METHOD FOR CONTROLLING AN OPEN CENTER ELECTRO-HYDRAULIC CONTROL VALVE, IN PARTICULAR FOR OPERATING AN ORGAN OF AN AGRICULTURAL OR WORK VEHICLE

Title (de)
VERFAHREN ZUR STEUERUNG EINES ELEKTRO-HYDRAULISCHEN STEUERVERTILS, INSBESONDERE ZUM BETÄTIGEN EINES HILFSMITTELS EINES LANDWIRTSCHAFTS- ODER ARBEITSFAHRZEUGS

Title (fr)
PROCÉDÉ DE COMMANDE D'UNE SOUPAPE DE COMMANDE ÉLECTROHYDRAULIQUE À CENTRE OUVERT, EN PARTICULIER POUR FAIRE FONCTIONNER UN ORGANE D'UN VÉHICULE AGRICOLE OU DE TRAVAIL

Publication
EP 4001667 A1 20220525 (EN)

Application
EP 21206690 A 20211105

Priority
IT 202000027167 A 20201112

Abstract (en)
Method of controlling an electro-hydraulic open center control valve (OCV) for the operation of a hydraulic actuator (ACT) of an organ (A, B) of a working or agricultural vehicle (VHE), powered by a pump (P), wherein a control signal of the control valve is generated proportionally to a position of a control lever (J), the method including a first step (Step 1) of detecting the exceeding of a predetermined position (DB) of the control lever (J) of the hydraulic organ, a second and consequent step (Step 2) of increasing and measuring a control signal value (Offset) at a starting movement of said hydraulic actuator and a third step (Step 3) of setting a positive offset to the control signal (LS) approximately equal to said control signal value, as long as the position of the control lever (J) of the hydraulic organ exceeds said predetermined position (DB).

IPC 8 full level
F15B 11/08 (2006.01); **F15B 19/00** (2006.01)

CPC (source: EP)
F15B 19/002 (2013.01); **F15B 13/0442** (2013.01); **F15B 2211/3116** (2013.01); **F15B 2211/3144** (2013.01); **F15B 2211/327** (2013.01); **F15B 2211/632** (2013.01); **F15B 2211/633** (2013.01); **F15B 2211/6336** (2013.01); **F15B 2211/6346** (2013.01); **F15B 2211/6656** (2013.01); **F15B 2211/851** (2013.01)

Citation (search report)

- [A] WO 2019050064 A1 20190314 - VOLVO CONSTR EQUIP AB [SE], et al
- [A] US 6615114 B1 20030902 - SKIBA RICHARD J [US], et al
- [A] US 6401456 B1 20020611 - MORIYA NAOYUKI [JP], et al
- [A] US 7512460 B2 20090331 - STROSSER RICHARD P [US], et al

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 4001667 A1 20220525; IT 202000027167 A1 20220512

DOCDB simple family (application)
EP 21206690 A 20211105; IT 202000027167 A 20201112