

Title (en)

IMPROVED SYSTEM AND METHOD FOR CONTROLLING THE SHAKING FUNCTION OF A BUCKET FOR A WORK VEHICLE

Title (de)

VERBESSERTES SYSTEM UND VERFAHREN ZUR STEUERUNG DES SCHÜTTELNS EINER SCHAUFEL FÜR EIN ARBEITSFAHRZEUG

Title (fr)

SYSTÈME ET PROCÉDÉ AMÉLIORÉS POUR COMMANDER L' AGITATION D'UN GODET POUR UN VÉHICULE DE TRAVAIL

Publication

EP 4086394 A1 20221109 (EN)

Application

EP 22171205 A 20220502

Priority

IT 202100011213 A 20210503

Abstract (en)

Work vehicle (2) comprising a bucket (3) carried by a boom (4), and a control system (1) for controlling a shaking movement of the bucket (3), the control system (1) comprising a valve arrangement (11), a bucket actuator (6), an electronic control unit (16) and a joystick (15), the electronic control unit (16) comprising elaboration means configured to retrieve data related to a joystick alternate movement, elaborate this latter and provide consequently an alternate control signal (Q', Q'') towards the valve arrangement (11); the control system comprising sensor means (17) configured to detect a position (γ', γ'') of the bucket (3) with respect to the boom (4), the electronic control unit (16) being electrically connected to the sensor means (17), the elaboration means being configured to retrieve data from sensor means (17) and vary the amplitude of the alternate control signal (Q', Q'') as a function of the retrieved position (γ', γ'').

IPC 8 full level

E02F 9/22 (2006.01); **B06B 1/18** (2006.01)

CPC (source: EP)

E02F 9/221 (2013.01); **B06B 1/18** (2013.01)

Citation (applicant)

- EP 3719221 A1 20201007 - CNH IND ITALIA SPA [IT]
- EP 3719221 A1 20201007 - CNH IND ITALIA SPA [IT]

Citation (search report)

- [XY] WO 2016180686 A1 20161117 - CATERPILLAR SARL [CH]
- [Y] EP 3722618 A1 20201014 - SUMITOMO SHI CONSTR MACH CO [JP]
- [Y] US 2019093310 A1 20190328 - KENKEL AARON R [US], et al
- [Y] US 2018180067 A1 20180628 - STAVROU PAUL C [US]

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

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