

Title (en)

METHOD AND DEVICE FOR DAMPING THE DISPLACEMENT OF CONSTRUCTION MACHINES

Title (de)

VERFAHREN UND VORRICHTUNG ZUR BEWEGUNGSTILGUNG BEI BAUMASCHINEN

Title (fr)

PROCEDE ET DISPOSITIF D'AMORTISSEMENT DE MOUVEMENT DE MACHINES DE CONSTRUCTION

Publication

**EP 1725715 B1 20100106 (DE)**

Application

**EP 05716056 A 20050315**

Priority

- EP 2005002719 W 20050315
- DE 102004012945 A 20040317

Abstract (en)

[origin: WO2005090694A1] The invention relates to a method and a device for damping the displacement of construction machines (1), in particular wheel loaders, comprising working equipment (1.2) that is driven by means of a hydraulic cylinder (1.4), a hydraulic source, a controlled valve (1.5) for supplying the hydraulic cylinder (1.4) with hydraulic fluid, a regulator unit (6) comprising control software, in addition to an acceleration sensor (2.1). The process for controlling the speed of the hydraulic cylinder (1.4) based on acceleration feedback comprises the following steps: a) detection of the acceleration signal; b) processing of the acceleration signal and determination of a control current (9) for the valve (1.5); c) supply of the hydraulic cylinder (1.4) with hydraulic fluid by means of the valve (1.5), in accordance with the control current (9).

IPC 8 full level

**E02F 9/22** (2006.01)

CPC (source: BR EP US)

**E02F 9/2207** (2013.01 - BR EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 2005090694 A1 20050929**; AT E454507 T1 20100115; BR PI0508902 A 20070807; BR PI0508902 B1 20161011; DE 102004012945 A1 20051013; DE 502005008824 D1 20100225; EP 1725715 A1 20061129; EP 1725715 B1 20100106; ES 2336340 T3 20100412; US 2007299589 A1 20071227; US 7756622 B2 20100713

DOCDB simple family (application)

**EP 2005002719 W 20050315**; AT 05716056 T 20050315; BR PI0508902 A 20050315; DE 102004012945 A 20040317; DE 502005008824 T 20050315; EP 05716056 A 20050315; ES 05716056 T 20050315; US 59265405 A 20050315