

Title (en)

Method and apparatus for end stroke dampening in hydraulic actuators of mobile working machines

Title (de)

Verfahren und Vorrichtung zur Endlagendämpfung in Hydraulikzylindern von mobilen Arbeitsmaschinen

Title (fr)

Procédé et appareil d'amortissement des fins de course d'un cylindre hydraulique utilisé dans des engins de travaux publics

Publication

**EP 1426499 B1 20061227 (DE)**

Application

**EP 03021744 A 20030925**

Priority

DE 10256923 A 20021205

Abstract (en)

[origin: EP1426499A1] The end of stroke damping system may be used for a mobile digging machine with two hydraulic cylinders (10,11). It has a control circuit (15) connected to position (17) and velocity sensors (16) on cylinders and closes throttle valves near the end of the stroke of each piston (18). End switches may be connected to a timer (19) in the control circuit. Three hydraulic pumps (1-3) draw hydraulic fluid from a tank (14) and pass it through three control valves (4-6).

IPC 8 full level

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CPC (source: EP KR US)

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Cited by

CN107178116A; CN104006037A; AU2013354562B2; WO2014086327A1; US10502242B2

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