

Title (en)

CONTROL DEVICE FOR A WORK DEVICE COMPRISING A SCOOP HELD ON AN EXTENSION ARM

Title (de)

STEUEREINRICHTUNG FÜR EIN ARBEITSGERÄT MIT EINER AUSLEGER GEHALTENEN SCHAUFEL

Title (fr)

DISPOSITIF DE COMMANDE POUR ENGIN DE CHANTIER COMPORTANT UNE PELLE FIXEE A UN BRAS

Publication

EP 1576241 B1 20070613 (DE)

Application

EP 03789173 A 20031208

Priority

- DE 10259120 A 20021218
- DE 10334321 A 20030728
- EP 0313898 W 20031208

Abstract (en)

[origin: US7607381B2] On a work appliance, an extension arm is held rotatably, and a scoop is held rotatably on the extension arm. Actuation of the extension arm and of the scoop is by means of hydraulic cylinders. Each cylinder is assigned a valve which controls the flow of pressure medium from a pump to the cylinder and from the latter to the tank. A rotational movement of the extension arm is accomplished with the top edge of the scoop maintaining its angular position when the extension arm is being raised or lowered. Valves which control the flow of pressure medium to the cylinders are activated with the ratio of the pressure medium quantities supplied to the cylinders being kept at a constant value independently of the size of the control signal controlling the flow of pressure medium to a cylinder for the actuation of the extension arm.

IPC 8 full level

E02F 3/43 (2006.01); **E02F 9/22** (2006.01); **F15B 11/20** (2006.01)

CPC (source: EP US)

E02F 3/432 (2013.01 - EP US); **E02F 9/2225** (2013.01 - EP US); **E02F 9/2232** (2013.01 - EP US); **E02F 9/2285** (2013.01 - EP US); **E02F 9/2296** (2013.01 - EP US); **F15B 11/003** (2013.01 - EP US); **F15B 11/20** (2013.01 - EP US); **F15B 2211/50545** (2013.01 - EP US)

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 2004055274 A1 20040701; AT E364757 T1 20070715; DE 50307494 D1 20070726; EP 1576241 A1 20050921; EP 1576241 B1 20070613; JP 2006511744 A 20060406; JP 4488232 B2 20100623; US 2007169620 A1 20070726; US 7607381 B2 20091027

DOCDB simple family (application)

EP 0313898 W 20031208; AT 03789173 T 20031208; DE 50307494 T 20031208; EP 03789173 A 20031208; JP 2005502425 A 20031208; US 53869703 A 20031208