

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 A1 20050921 (DE)**

Application

**EP 03789173 A 20031208**

Priority

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

Abstract (en)

[origin: WO2004055274A1] An extension arm (12) is rotationally maintained on a work device and a scoop (14) is rotationally maintained on the extension arm. The extension arm (12) and the scoop (14) are respectively actuated by a hydraulic cylinder (18,22). A valve (42,41) is associated with each cylinder (18, 22), enabling the flow of the pressure medium from one pump (28) to the cylinder (18,22) and therefrom to the tank (29) to be controlled. In order to ensure that the upper edge of the scoop (14) maintains the angular position thereof when the extension arm (12) is raised or lowered, the valves (42, 41) controlling the flow of the pressure medium to the cylinders can be controlled in such a way that the ratio (Q2, Q1) of the amounts of pressure medium fed to the cylinders (18,22) is kept to a constant value (KQ), independently from the size of the control signal controlling the flow of pressure medium to the cylinder (18) for actuation of the extension arm.

IPC 1-7

**E02F 3/43**

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)

Citation (search report)

See references of WO 2004055274A1

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