

Title (en)
Ride control system

Title (de)
Niveauregulierung

Title (fr)
Réglage de niveau

Publication
EP 1657213 A1 20060517 (EN)

Application
EP 04026904 A 20041112

Priority
EP 04026904 A 20041112

Abstract (en)
The invention relates to a hydraulic system for a wheeled loader having a loader arm assembly, which is connected to the wheeled loader at a first end and carries a working implement at a second end, and which loader arm is movable between raised and lowered positions by means of a hydraulic cylinder (5), wherein a hydraulic accumulator means (18, 19) is connected to the hydraulic cylinder (5) to provide a suspension arrangement for the hydraulic cylinder (5). Each chamber of the hydraulic cylinder (5) is connected to a selection valve means (9) via conduits adapted to supply fluid under pressure to raise or lower the loader arm assembly. The hydraulic system is provided with a number of valves for preventing any unintentional downward movement of the lift arm assembly due to a sudden loss of pressure in the supply conduit or a slow leak through the selection valve means (9). The invention further relates to a wheeled loader provided with such a hydraulic system.

IPC 8 full level
B66F 9/22 (2006.01); **E02F 9/22** (2006.01)

CPC (source: EP)
B66F 9/22 (2013.01); **E02F 9/2207** (2013.01); **E02F 9/2217** (2013.01)

Citation (search report)

- [A] US 5513491 A 19960507 - BROENNER GUENTER [DE], et al
- [DA] EP 1157963 A2 20011128 - BAMFORD EXCAVATORS LTD [GB]
- [A] PATENT ABSTRACTS OF JAPAN vol. 007, no. 227 (M - 248) 7 October 1983 (1983-10-07)

Cited by
FR2918684A1; EP2514881A1; EP1659087A3; US2013045071A1; US8858151B2; EP2853755A4; AU2013265872B2; WO2015023725A1; WO2011073721A1

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

DOCDB simple family (publication)
EP 1657213 A1 20060517; EP 1657213 B1 20080102; AT E382579 T1 20080115; DE 602004011077 D1 20080214; DE 602004011077 T2 20090102

DOCDB simple family (application)
EP 04026904 A 20041112; AT 04026904 T 20041112; DE 602004011077 T 20041112