

Title (en)

HYDRAULIC SYSTEM FOR A HANDLING OR EARTHMOVING MACHINE WITH AN ENERGY ACCUMULATOR

Title (de)

HYDRAULISCHES SYSTEM FÜR EINE HANDHABUNGS- ODER ERDBEWEGUNGSMASCHINE MIT EINEM ENERGIESPEICHER

Title (fr)

Système hydraulique d'engin de manutention ou de terrassement avec accumulateur d'énergie.

Publication

EP 2393996 B1 20130403 (FR)

Application

EP 10708298 A 20100208

Priority

- FR 2010050198 W 20100208
- FR 0950783 A 20090209

Abstract (en)

[origin: WO2010089518A1] The invention relates to a hydraulic system for a handling machine (1) that comprises a mobile element (10) driven by first and second cylinders (13) mounted in parallel and mechanically coupled. The first cylinder is hydraulically driven by a first distribution valve (14). An accumulator (15) for accumulating the pressurised fluid is connected to a first chamber (131) of the second cylinder (13). The system includes a check valve (17) between the first chambers (121, 131), the check valve (17) enabling the passage of fluid from the first chamber (121) of the first cylinder (12) to the second chamber (131) of the second cylinder (13), and adjustment means (18) for disconnecting the accumulator (15) and thereby draining the first chamber (131) of the second cylinder (13). This makes it possible to automatically adjust the pressure in the accumulator based on the load level of the mobile element (10).

IPC 8 full level

B66C 13/20 (2006.01); **E02F 9/22** (2006.01); **F15B 1/02** (2006.01); **F15B 1/027** (2006.01); **F15B 11/024** (2006.01); **F15B 21/14** (2006.01)

CPC (source: EP)

B66C 13/20 (2013.01); **E02F 9/2217** (2013.01); **F15B 1/024** (2013.01); **F15B 21/14** (2013.01); **F15B 2211/20546** (2013.01); **F15B 2211/212** (2013.01); **F15B 2211/30505** (2013.01); **F15B 2211/50518** (2013.01); **F15B 2211/625** (2013.01); **F15B 2211/7107** (2013.01); **F15B 2211/7128** (2013.01); **F15B 2211/88** (2013.01)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

WO 2010089518 A1 20100812; EP 2393996 A1 20111214; EP 2393996 B1 20130403; FR 2941976 A1 20100813; FR 2941976 B1 20110311

DOCDB simple family (application)

FR 2010050198 W 20100208; EP 10708298 A 20100208; FR 0950783 A 20090209