

Title (en)

Hydraulic circuit with multiple configurations, application for a dump truck, and dump truck using such a circuit.

Title (de)

Mehrfach konfigurierbare hydraulische Schaltung , Muldenkipperanwendung, und eine solche Schaltung verwendender Muldenkipper

Title (fr)

Circuit hydraulique a plusieurs configurations, application a un camion-benne, et camion -benne utilisant un tel circuit

Publication

**EP 2302221 A1 20110330 (FR)**

Application

**EP 10173294 A 20100818**

Priority

FR 0956570 A 20090923

Abstract (en)

The circuit has pressurized fluid distribution lines (L1, L2) connected to each other by a common node (N12) that is connected to a pump (P1) by a controlled by-pass (BP1). An intermediate point (PI2) of one of the lines is connected to another pump (P2) through another controlled by-pass (BP2). The by-passes are placed in an active position in which fluid traversing the by-passes respectively feed two receivers (R1, R2), and in a recirculation position in which the fluid traversing the by-passes returns to a hydraulic fluid reservoir (RSV).

Abstract (fr)

L'invention concerne un circuit hydraulique comprenant un réservoir (RSV) de fluide hydraulique, deux pompes (P1, P2), et deux lignes (L1, L2) de distribution de fluide sous pression alimentant respectivement deux récepteurs hydrauliques (R1, R2). Selon l'invention, les lignes de distribution (L1, L2) sont reliées l'une à l'autre par un noeud commun (N12) raccordé à la première pompe (P1) par un premier by-pass commandé (BP1), les lignes (L1, L2) portent des électrovalves d'arrêt respectives (EV1, EV2), et un point intermédiaire (PI2) de la deuxième ligne (L2) est raccordé à la deuxième pompe (P2) à travers un deuxième by-pass commandé (BP2).

IPC 8 full level

**F15B 11/17** (2006.01); **B65F 3/00** (2006.01)

CPC (source: EP)

**B65F 3/00** (2013.01); **F15B 11/17** (2013.01); **F15B 2211/20538** (2013.01); **F15B 2211/20584** (2013.01); **F15B 2211/3059** (2013.01); **F15B 2211/3138** (2013.01); **F15B 2211/31511** (2013.01); **F15B 2211/31529** (2013.01); **F15B 2211/71** (2013.01)

Citation (search report)

- [A] JP 2007191289 A 20070802 - KAYABA INDUSTRY CO LTD
- [A] DE 3513967 A1 19861023 - REXROTH MANNESMANN GMBH [DE]
- [A] US 5163542 A 19921117 - SAIGA RYUICHI [JP]
- [A] US 2003198559 A1 20031023 - WORTHINGTON WAYNE R [US]
- [A] DE 4243578 A1 19940623 - FAUN UMWELTECHNIK GMBH [DE]

Designated contracting state (EPC)

AL 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

Designated extension state (EPC)

BA ME RS

DOCDB simple family (publication)

**EP 2302221 A1 20110330**; **EP 2302221 B1 20130501**; ES 2423208 T3 20130918; FR 2950400 A1 20110325; FR 2950400 B1 20110930; PL 2302221 T3 20131031

DOCDB simple family (application)

**EP 10173294 A 20100818**; ES 10173294 T 20100818; FR 0956570 A 20090923; PL 10173294 T 20100818