

Title (en)

Hydraulic circuit for a hydraulic axle and a hydraulic axle

Title (de)

Hydraulische Schaltung für eine hydraulische Achse und eine hydraulische Achse

Title (fr)

Circuit hydraulique pour un axe hydraulique et axe hydraulique

Publication

**EP 2722165 A3 20180110 (DE)**

Application

**EP 13005039 A 20131022**

Priority

DE 102012020581 A 20121022

Abstract (en)

[origin: EP2722165A2] The circuit (6) has a reversible hydraulic machine (14) and control valves (58, 64) for switching between rapid motion and force motion of a piston (4). An outer return surface and an extending surface are switched into regeneration for the rapid motion by the valves. The outer return surface and an inner return surface are interconnected for the force motion by the valves. A shutoff valve (74) is provided in a pressurized agent flow path between the machine and the extending surface. A switching valve (70) is provided in the path between the machine and the inner return surface. The control valves are 2/2-way valves. The hydraulic machine is a hydraulic pump. An independent claim is also included for a hydraulic axle.

IPC 8 full level

**B30B 15/16** (2006.01); **F15B 11/024** (2006.01); **F15B 15/18** (2006.01)

CPC (source: EP)

**B30B 15/161** (2013.01); **F15B 11/024** (2013.01); **F15B 15/18** (2013.01); **F15B 2211/20515** (2013.01); **F15B 2211/20561** (2013.01); **F15B 2211/27** (2013.01); **F15B 2211/3058** (2013.01); **F15B 2211/613** (2013.01); **F15B 2211/625** (2013.01); **F15B 2211/7055** (2013.01); **F15B 2211/775** (2013.01); **F15B 2211/785** (2013.01)

Citation (search report)

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- [A] WO 2007083517 A1 20070726 - OSAKA JACK MFG CO [JP], et al
- [XI] FR 2764008 A1 19981204 - BOVY HENRI LOUIS PIERRE [FR]
- [XI] CA 2279435 A1 20010130 - HYDRA TECH MFG 1990 LTD [CA]

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CN107931603A; EP3556478A1; WO2018065226A1

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 RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 2722165 A2 20140423**; **EP 2722165 A3 20180110**; CN 103775401 A 20140507; CN 103775401 B 20180410; DE 102012020581 A1 20140424

DOCDB simple family (application)

**EP 13005039 A 20131022**; CN 201310721635 A 20131021; DE 102012020581 A 20121022