

Title (en)

Hydraulic system and pressure limiting valve

Title (de)

Hydrauliksystem und Druckbegrenzungsventil

Title (fr)

Système hydraulique et vanne de limitation de pression

Publication

EP 2672124 A2 20131211 (DE)

Application

EP 13002504 A 20130513

Priority

DE 102012011062 A 20120604

Abstract (en)

The system has consumers (2-4), a hydraulic pump (1), and a proportional pressure limiting valve for limiting maximum pressure and connected with the hydraulic pump. The pressure limiting valve is pilot-controlled for switching a bypass, where the pilot control of the pressure limiting valve provides a proportional control of the system pressure to be limited. The pilot control of the pressure limiting valve is effected electrically, electro-hydraulically or electrically and electro-hydraulically, and acts against spring return force and/or system pressure.

Abstract (de)

Die Erfindung betrifft ein Hydrauliksystem mit wenigstens einem Verbraucher und wenigstens einer Hydraulikpumpe, wobei ein Druckbegrenzungsventil zur Begrenzung des maximalen Systemdrucks mit der wenigstens einen Hydraulikpumpe verbunden ist und das Druckbegrenzungsventil zur Schaltung eines Bypass vorgesteuert ist.

IPC 8 full level

F15B 11/042 (2006.01)

CPC (source: EP US)

F04B 49/035 (2013.01 - US); **F15B 11/0423** (2013.01 - EP US); **F15B 2211/50518** (2013.01 - EP US); **F15B 2211/50536** (2013.01 - EP US); **F15B 2211/5157** (2013.01 - EP US)

Cited by

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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 2672124 A2 20131211; CN 103452960 A 20131218; DE 102012011062 A1 20131205; JP 2013249957 A 20131212; US 2013323091 A1 20131205

DOCDB simple family (application)

EP 13002504 A 20130513; CN 201310218125 A 20130603; DE 102012011062 A 20120604; JP 2013115827 A 20130531; US 201313906848 A 20130531