

Title (en)

CONTROLLABLE VEHICLE SUSPENSION SYSTEM WITH MAGNETO-RHEOLOGICAL FLUID DEVICE

Title (de)

STEUERBARES FAHRZEUGAUFHÄNGUNGSSYSTEM MIT MAGNETORHEOLOGISCHER FLUIDVORRICHTUNG

Title (fr)

SYSTÈME DE SUSPENSION DE VÉHICULE COMMANDABLE COMPRENANT UN DISPOSITIF À FLUIDE MAGNÉTORHÉOLOGIQUE

Publication

EP 2150457 A1 20100210 (EN)

Application

EP 07844940 A 20071107

Priority

- US 2007083937 W 20071107
- US 74291107 A 20070501
- US 98421207 P 20071031

Abstract (en)

[origin: WO2008133720A1] A controllable suspension system for controlling the relative motion between a first body (22) and a second body (24) includes at least one strut (30) including a magneto-rheological fluid damper (32,200). The fluid damper (32,200) includes a piston rod guide (206) disposed within a damper body (202). The piston rod guide (206) has a passage (212) therein for receiving a piston rod (52,214). A piston rod bearing assembly (54,232) is disposed in the piston rod guide (206) to engage with and support reciprocal motion of the piston rod (52,214). At least a first piston rod seal (224) and at least a second piston rod seal (228) are arranged to seal between the piston rod guide (206) and the piston rod (52,214). A fluid chamber (234) is defined between the piston rod guide (206) and the piston rod (52,214). A piston rod guide (206) gas charged accumulator (244,272) is arranged between the piston rod (52,214) and the damper body (202).

IPC 8 full level

B62D 33/06 (2006.01); **F16F 9/53** (2006.01)

CPC (source: EP)

B60G 17/06 (2013.01); **B60G 99/008** (2013.01); **B62D 33/0608** (2013.01); **F16F 9/535** (2013.01)

Citation (search report)

See references of WO 2008133720A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

WO 2008133720 A1 20081106; CA 2685908 A1 20081106; EP 2150457 A1 20100210

DOCDB simple family (application)

US 2007083937 W 20071107; CA 2685908 A 20071107; EP 07844940 A 20071107