

Title (en)  
Hydraulic device for transmitting an actuator movement

Title (de)  
Hydraulische Vorrichtung zum Übertragen einer Aktorbewegung

Title (fr)  
Dispositif hydraulique pour transmettre le mouvement d'un actuateur

Publication  
**EP 1111230 A2 20010627 (DE)**

Application  
**EP 00127847 A 20001219**

Priority  
DE 19962177 A 19991222

Abstract (en)  
A device for transferring an actuator (8) movement on to a positioning element (3), includes a transfer/transmission element which forms a working connection between the actuator (8) and the positioning element (3), and establishes a hydraulic chamber (22) and a storage chamber (24), which are filled with a hydraulic liquid and are inter-joined via at least one throttling gap (36,37). The transfer/transmission element has a first and a second piston element (21,23;121), in which the first piston element is securely joined to the actuator (8) and the second piston element (23) is securely joined to the positioning element (3). Between the first piston element (21;121) and the second piston element (23) is formed the hydraulic chamber (22), and the storage chamber (24) comprises a pressurised storage chamber zone (242), the zonal boundaries of which are flexibly formed. The pressurised storage chamber zone is specifically restricted/limited by a bellows arrangement (25,26).

Abstract (de)  
Eine Vorrichtung zum Übertragen einer Bewegung eines Aktors (8) auf ein Stellglied weist ein erstes Kolbenelement (21), das fest mit dem Aktor (8) verbunden ist, und ein zweites Kolbenelement (23), das fest mit dem Stellglied (3) verbunden ist, auf, wobei zwischen dem ersten Kolbenelement und dem zweiten Kolbenelement eine Hydraulikkammer (22) ausgebildet ist, und wobei eine Speicherkammer (24), die mit einer Hydraulikkammer über einen Drosselspalt (36) verbunden ist, einen druckbelasteten Speicherkammerbereich umfasst, dessen Bereichsgrenzen elastisch ausgebildet sind.

IPC 1-7  
**F02M 51/06**; **F02M 61/08**

IPC 8 full level  
**F02M 51/06** (2006.01); **F02M 61/08** (2006.01); **F02M 61/16** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP)  
**F02M 51/0603** (2013.01); **F02M 61/08** (2013.01); **F02M 61/167** (2013.01); **F02M 63/0007** (2013.01); **F02M 2200/16** (2013.01); **F02M 2200/304** (2013.01); **F02M 2200/703** (2013.01)

Citation (applicant)  
DE 19708304 A1 19980910 - SIEMENS AG [DE]

Cited by  
US8950694B2; WO2006003048A1; EP1445472A1; EP1526275A1; EP1544454A1; EP1445473A1; CN103930667A; KR100935810B1; EP2707592A4; EP1503246A3; EP1555427A3; EP1624181A1; EP1452729A1; DE102005046778A1; EP1445470A1; DE102005046778B4; EP1491760A1; DE102004026171B4; US2011215176A1; US7077377B2; US6892956B2; WO2005116442A1; US7040550B2; US9822750B2; WO03089781A1; WO2006069899A1; WO2005026528A1; WO2007110267A3; WO03064848A1; WO2011045298A1; WO03012283A1; US9488194B2; EP1571328A2; US7066399B2; US7385335B2; US7309032B2; WO03054382A1; WO2012158153A1; WO2007107599A1; WO03031799A1; WO03052261A1; WO03016702A3; WO2010112275A1; WO2004081372A1; WO2013075876A1; WO2005010343A1; WO03054377A1; JP2005513334A; JP2014533800A; US7418949B2; US8905334B2; US9366208B2; US7516906B2

Designated contracting state (EPC)  
DE ES FR GB IT

DOCDB simple family (publication)  
**EP 1111230 A2 20010627**; **EP 1111230 A3 20020508**; **EP 1111230 B1 20041124**; DE 19962177 A1 20010712; DE 50008741 D1 20041230; ES 2228394 T3 20050416

DOCDB simple family (application)  
**EP 00127847 A 20001219**; DE 19962177 A 19991222; DE 50008741 T 20001219; ES 00127847 T 20001219