

Title (en)

Method and system for compensating the compressibility in hydraulic drives

Title (de)

Vorrichtung und Verfahren zum Ausgleichen der Kompressibilität bei hydraulischen Antrieben

Title (fr)

Procédé et dispositif pour compenser la compressibilité dans des commandes hydrauliques

Publication

**EP 1176314 A3 20040107 (DE)**

Application

**EP 01116889 A 20010711**

Priority

DE 10036646 A 20000726

Abstract (en)

[origin: EP1176314A2] The system for compensating for the compressibility of hydraulic fluid in a hydraulic actuator has a pressure sensor (21) to measure the pressure in the actuator's displacement chamber (3), a differentiator (24,25) to calculate the fluid compression flow during pressure changes in the displacement chamber due to the compressibility of the fluid, and means to feed or drain a compensating flow of hydraulic fluid regulated on the basis of the calculated compression flow, and which comprises a cylinder (14) connected to the displacement chamber and equipped with a piston (15) charged with underpressure or overpressure via a valve(28). An Independent claim is included for a procedure for compensating for the compressibility of the hydraulic fluid in a hydraulic actuator.

IPC 1-7

**F15B 9/09**

IPC 8 full level

**F15B 9/09** (2006.01); **F15B 21/08** (2006.01)

CPC (source: EP)

**F15B 9/09** (2013.01); **F15B 21/08** (2013.01)

Citation (search report)

- [X] US 4630523 A 19861223 - TERSTEEGEN JOHANNES [DE]
- [DA] DE 4228308 A1 19940303 - REXROTH MANNESMANN GMBH [DE]
- [DA] US 3805530 A 19740423 - RICHARDSON R
- [A] US 4932840 A 19900612 - TAKEUCHI KUNIIHIKO [JP], et al

Cited by

DE102006002566A1; DE102006002566B4; US7581486B2

Designated contracting state (EPC)

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