

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 B1 20060215 (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 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)

Cited by

DE102006002566A1; DE102006002566B4; US7581486B2

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 1176314 A2 20020130; **EP 1176314 A3 20040107**; **EP 1176314 B1 20060215**; DE 10036646 A1 20020214; DE 50108932 D1 20060420

DOCDB simple family (application)

EP 01116889 A 20010711; DE 10036646 A 20000726; DE 50108932 T 20010711