

Title (en)

Control device with hydraulic centering mechanism

Title (de)

Verstellvorrichtung mit hydraulischer Zentriereinrichtung

Title (fr)

Dispositif de réglage à mécanisme de centrage hydraulique

Publication

**EP 0771949 B1 20010509 (DE)**

Application

**EP 96112820 A 19960808**

Priority

DE 19540654 A 19951031

Abstract (en)

[origin: DE19540654C1] A control unit (8) has two control pressure chambers (11,12), each connected to a control line (9,10), and a control piston (16) between the chambers. The piston is moved from a neutral position dependant upon the pressure differential between the chambers, to connect one chamber to a feed pressure line (15). The piston is moved into neutral by a spring. A hydraulic centering device (21) has a switching valve (23) connected to the control lines, and a centering valve (22) connected to the chambers. Switching piston (37) and centering piston (28) are moved into end positions, when the control pressure in the lines has dropped, but a differential remains in the chambers. The chamber with the higher pressure is relieved via the valves, and the adjusting piston pressure is returned to neutral.

IPC 1-7

**F04B 49/00**; **F04B 49/10**

IPC 8 full level

**F04B 49/00** (2006.01); **F04B 49/10** (2006.01)

CPC (source: EP)

**F04B 49/002** (2013.01); **F04B 49/10** (2013.01)

Cited by

EP1361361A3; CN104641110A; DE102022210332A1

Designated contracting state (EPC)

DE FR GB IT SE

DOCDB simple family (publication)

**DE 19540654 C1 19961219**; DE 59606872 D1 20010613; EP 0771949 A1 19970507; EP 0771949 B1 20010509

DOCDB simple family (application)

**DE 19540654 A 19951031**; DE 59606872 T 19960808; EP 96112820 A 19960808