

Title (en)

ELECTROMAGNETIC POSITIONING DEVICE

Publication

EP 0405187 B1 19930929 (DE)

Application

EP 90110559 A 19900605

Priority

DE 3920931 A 19890627

Abstract (en)

[origin: EP0405187A1] In order to adjust the stroke of a control element (15) which is actuated electromagnetically by a spring-mass oscillation system (5,13,50), for displacement machines and in order to permit a free arrangement of the electromagnetic positioning device in the housing (8), in particular in a cylinder head of a displacement machine, the movement of the positioning device is transmitted to the control element, in particular one or more stroke valves or flat slide valves by means of a mechanical or hydraulic transmission system (10) with a variable transmission ratio. In addition, devices (54,55) are described for exactly setting the position of equilibrium of the oscillating system. The electromagnetic positioning device can also be combined with a limit position damper (7) or with a hydraulic compensation element (51) of known design. <IMAGE>

IPC 1-7

F01L 9/04; F01L 31/22

IPC 8 full level

F01L 9/20 (2021.01); **F01L 13/00** (2006.01); **F01L 31/22** (2006.01)

CPC (source: EP US)

F01L 1/182 (2013.01 - EP US); **F01L 9/20** (2021.01 - EP US); **F01L 13/0015** (2013.01 - EP US); **F01L 2001/188** (2013.01 - EP US);
Y10T 74/20882 (2015.01 - EP US)

Cited by

EP0799394A4; FR2989416A1; EP0867898A1; US5730102A; EP1087110A1; WO9605415A1; US6427650B1

Designated contracting state (EPC)

AT CH DE ES FR GB IT LI SE

DOCDB simple family (publication)

EP 0405187 A1 19910102; EP 0405187 B1 19930929; AT E95277 T1 19931015; DE 3920931 A1 19910103; DE 59002881 D1 19931104;
US 5117213 A 19920526

DOCDB simple family (application)

EP 90110559 A 19900605; AT 90110559 T 19900605; DE 3920931 A 19890627; DE 59002881 T 19900605; US 54293190 A 19900625