

Title (en)  
ELECTROMAGNETIC POSITIONING DEVICE

Publication  
**EP 0405189 B1 19930929 (DE)**

Application  
**EP 90110570 A 19900605**

Priority  
DE 3920976 A 19890627

Abstract (en)  
[origin: EP0405189A1] In an electromagnetic positioning device operating according to the principle of the spring-mass oscillator (12,18,5,20), in particular for actuating control valves in displacement machines, the working stroke of the control element can be varied by changing the position of the pole face of a working magnet (2) and the foot point (11) of one or more springs of the spring system. For this purpose, a magnetic control system serves to simultaneously change the spacing of the pole faces and to adapt the centre of oscillation to the new position of the pole faces by changing the position of one or more spring foot points. In addition, with this control system the magnetic resistance of one or more working magnets can also be changed. <IMAGE>

IPC 1-7  
**F01L 9/04**

IPC 8 full level  
**F16K 31/02** (2006.01); **F01L 1/24** (2006.01); **F01L 9/20** (2021.01); **H01F 7/16** (2006.01)

CPC (source: EP US)  
**F01L 1/181** (2013.01 - EP US); **F01L 9/20** (2021.01 - EP US)

Cited by  
US5730102A; US5813653A; DE19712060A1; EP0814238A1; EP0841473A1; US5748433A; DE19526681B4; US5742467A; EP0793004A1; US5818680A; US6081413A; EP0796981A1; WO9605415A1; WO9619643A1

Designated contracting state (EPC)  
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