

Title (en)  
METHOD AND DEVICE FOR ELECTROMAGNETIC VALVE ACTUATING

Title (de)  
ELEKTROMAGNETISCHE VENTILSTEUERUNGSEINRICHTUNG UND VERFAHREN

Title (fr)  
PROCEDE ET DISPOSITIF D'ACTIONNEMENT ELECTROMAGNETIQUE DE SOUPAPE

Publication  
**EP 1121511 B1 20030416 (FR)**

Application  
**EP 99947575 A 19991014**

Priority  
• FR 9902495 W 19991014  
• FR 9812940 A 19981015

Abstract (en)  
[origin: US6397798B1] The electromagnetic valve actuator has a valve drive armature and return springs provided to hold the valve in a determined rest position substantially halfway between two extreme positions namely a valve closed position and a valve open position. An electromagnetic unit has a ferromagnetic core placed on both sides of the armature and a power supply circuit. The power circuit calculates the velocity with which the armature approaches each of its extreme positions by measuring the current flowing through the electromagnetic unit and it applies a current to the electromagnetic unit which servo-controls variation of the velocity for compliance with a determined reference profile.

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

IPC 8 full level  
**F01L 9/20** (2021.01); **F02D 13/02** (2006.01); **F16K 31/06** (2006.01); **H01F 7/18** (2006.01)

CPC (source: EP US)  
**F01L 9/20** (2021.01 - EP US)

Cited by  
US9835265B2; US10503181B2; US9657946B2; US9683674B2; US10215291B2; US10697815B2; US9851103B2; US10851993B2;  
US9645584B2; US10203049B2; US10422531B2; US11421875B2; US9995486B2; US10024439B2; US10697632B2; US9846440B2;  
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