

Title (en)

Method for controlling the motion of an armature of an electromagnetic actuator

Title (de)

Verfahren zur Bewegungssteuerung eines Ankers eines elektromagnetischen Aktuators

Title (fr)

Procédé de commande du mouvement d'une armature d'un vérin électromagnétique

Publication

EP 0973178 A3 20010321 (DE)

Application

EP 99112676 A 19990702

Priority

- DE 19832196 A 19980717
- DE 19855775 A 19981203
- DE 19836297 A 19980811

Abstract (en)

[origin: EP0973178A2] Following pull-in there is a braking phase in which a voltage is applied to a coil (4a, 4b) up to impact of the armature (4d) upon it. Timing and cyclic course of the voltage applied, are controlled as a function of the desired position (20) of the armature over time.

IPC 1-7

H01F 7/18

IPC 8 full level

F01L 9/20 (2021.01); **H01F 7/18** (2006.01); **H01F 7/123** (2006.01)

CPC (source: EP US)

F01L 9/20 (2021.01 - EP US); **H01F 7/1805** (2013.01 - EP US); **F01L 2009/4086** (2021.01 - EP US); **H01F 7/123** (2013.01 - EP US); **H01F 2007/1894** (2013.01 - EP US)

Citation (search report)

- [A] DD 217071 A1 19850102 - MIKROELEKTRONIK ZT FORSCH TECH [DD]
- [DA] DE 19530121 A1 19970220 - FEV MOTORENTECH GMBH & CO KG [DE]

Cited by

DE10205384A1; DE10205389A1; DE10205387A1; DE10325706A1; DE10325706B4; FR2916799A1; DE10244518A1; DE10244518B4; DE10318246A1; DE10244337A1; DE10244337B4; DE10220388B4; DE10205383A1; DE10205383B4; DE10318244A1; DE10206033A1; DE10206033B4; DE10206031A1; DE10206031B4; DE10205385A1; DE10012988A1; DE10318245A1; DE10318245B4; DE10257693A1; DE10257693B4; EP1335123A3; US6499447B2; WO2020101580A1; US8275537B2; WO2009004162A3

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