

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 B1 20040929 (DE)

Application
EP 99112676 A 19990702

Priority
• DE 19832196 A 19980717
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• 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.

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H01F 7/18

IPC 8 full level
F01L 9/04 (2006.01); **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);
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Cited by
DE10205384A1; DE10205389A1; DE10205387A1; DE10244518A1; DE10244518B4; DE10325706A1; DE10325706B4; FR2916799A1;
DE10318244A1; DE10206033A1; DE10206033B4; DE10318246A1; DE10244337A1; DE10244337B4; DE10220388B4; DE10205383A1;
DE10205383B4; DE10206031A1; DE10206031B4; DE10205385A1; DE10012988A1; DE10318245A1; DE10318245B4; DE10257693A1;
DE10257693B4; EP1335123A3; US8275537B2; WO2020101580A1; US6499447B2; WO2009004162A3

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US 6196172 B1 20010306

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