

Title (en)

A method for controlling an armature of a high speed electromagnetic actuator

Title (de)

Verfahren zur Steuerung eines Ankers eines elektromagnetisches Hochgeschwindigkeitsbedienungselement

Title (fr)

Méthode pour contrôler l'armature d'un élément de commande électromagnétique à grande vitesse

Publication

EP 1049114 A3 20011121 (EN)

Application

EP 00103929 A 20000225

Priority

US 30034399 A 19990427

Abstract (en)

[origin: EP1049114A2] A method is provided to control velocity of an armature of an electromagnetic actuator as the armature moves from a first position towards a second position. The electromagnetic actuator includes an electromagnet having a coil and a stator core at the second position. The method includes permitting the armature to move towards the stator core. Magnetic flux in a magnetic circuit created by the armature and electromagnet is determined when the armature is moving toward the stator core. The determined magnetic flux is used as a feedback variable to control energy to the coil so as to control a velocity of the armature as the armature moves towards the stator core. <IMAGE>

IPC 1-7

H01F 7/18; F01L 9/04

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)

F01L 9/20 (2021.01); **H01F 7/18** (2013.01); **H01F 7/123** (2013.01)

Citation (search report)

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- [A] US 5539608 A 19960723 - HURLEY RICK A [US], et al
- [A] DE 2601799 A1 19770721 - LICENTIA GMBH

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