

Title (en)

ELECTROMAGNETIC ACTUATOR COMPRISING POSITION CONTROL MEANS AND METHOD USING SUCH AN ACTUATOR

Title (de)

ELEKTROMAGNETISCHER BETÄIGER MIT POSITIONSSTEUERUNG UND VERFAHREN ZUR VERWENDUNG EINES DERARTIGEN BETÄIGERS

Title (fr)

ACTIONNEUR ELECTROMAGNETIQUE COMPORTANT DES MOYENS DE CONTROLE DE POSITION ET PROCEDE UTILISANT UN TEL ACTIONNEUR

Publication

EP 2553694 B1 20150408 (FR)

Application

EP 11709999 A 20110221

Priority

- FR 1001361 A 20100401
- FR 2011000104 W 20110221

Abstract (en)

[origin: WO2011121188A1] Electromagnetic actuator (100) having a processing unit (2) designed to act on control means (21) generating a control voltage (U_{pwm}) across the terminals of an actuating coil (3). The processing unit (2) includes first memory means (M1) for storing a first derivative ($di1/dton$) during a supply period (t_{on}), second memory means (M2) for storing a second derivative ($di2/dtoff$) during a non-supply period (t_{off}) and computing means (23). Said computing means determine, in succession, a first computing coefficient (A) dependent on the supply bus voltage (U_{bus}), first and second derivatives ($di1/dton$, $di2/dtoff$) and an operating position (x) on the basis of a first correlation between the operating position (x), the first computing coefficient (A) and the electric current (I).

IPC 8 full level

H01F 7/16 (2006.01); **H01F 7/18** (2006.01)

CPC (source: EP)

H01F 7/1844 (2013.01); **H01F 2007/185** (2013.01); **H01F 2007/1855** (2013.01); **H01F 2007/1861** (2013.01); **H01F 2007/1888** (2013.01)

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DOCDB simple family (publication)

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