

Title (en)

Device for controlling an electromagnetic actuating device

Title (de)

Vorrichtung zur Steuerung eines elektromagnetischen Stellantriebs

Title (fr)

Dispositif destiné à la commande d'un mécanisme de commande électromagnétique

Publication

**EP 1830370 A3 20090415 (DE)**

Application

**EP 07004336 A 20070302**

Priority

DE 102006009628 A 20060302

Abstract (en)

[origin: EP1830370A2] The method involves overdriving an actuator with a capacity that has a time limitation, where the capacity lies above rated capacity of an actuator drive. A control unit (60) determines the rated capacity on the basis of a number of various inductive loads of different rated capacities based on available current and level of supply voltage of the actuator while being in an over-driven state. The actuator is controlled by a switching unit (10) under pulse width modulation.

IPC 8 full level

**H01F 7/18** (2006.01)

CPC (source: EP)

**F02D 41/20** (2013.01); **H01F 7/1811** (2013.01); **H01F 7/1844** (2013.01); **F02D 2041/2003** (2013.01); **F02D 2041/2027** (2013.01); **F02D 2041/2058** (2013.01); **H01F 2007/1822** (2013.01); **H01F 2007/1888** (2013.01)

Citation (search report)

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- [DA] DE 4109233 A1 19920924 - REXROTH MANNESMANN GMBH [DE]
- [A] US 2002126434 A1 20020912 - OZAWA HIDETAKA [JP], et al
- [A] US 2005071098 A1 20050331 - IANNONE CHARLES A [US], et al

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US7746620B2; WO2009105410A1; US7782590B2; US8027572B2; US8160433B2; US8644692B2; US9435459B2; US9782577B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

**EP 1830370 A2 20070905; EP 1830370 A3 20090415; EP 1830370 B1 20120815**; DE 102006009628 A1 20070906

DOCDB simple family (application)

**EP 07004336 A 20070302**; DE 102006009628 A 20060302