

Title (en)

METHOD AND DEVICE FOR ACTIVATING AN ACTUATOR ELEMENT IN A MOTOR SYSTEM FOR A MOTOR VEHICLE

Title (de)

VERFAHREN UND VORRICHTUNG ZUR INBETRIEBNAHME EINES STELLGLIEDS IN EINEM MOTORSYSTEM FÜR EIN KRAFTFAHRZEUG

Title (fr)

PROCÉDÉ ET DISPOSITIF DE MISE EN SERVICE D'UN ORGANE DE RÉGLAGE DANS UN SYSTÈME DE MOTEUR POUR UN VÉHICULE AUTOMOBILE

Publication

**EP 2681430 B1 20181212 (DE)**

Application

**EP 12700938 A 20120104**

Priority

- DE 102011004890 A 20110301
- EP 2012050089 W 20120104

Abstract (en)

[origin: WO2012116849A1] The invention relates to a method for operating a positioning actuator system (1) with an electronically commutated actuator drive (2) for driving an actuator element (5), having the following steps: non-volatile storage of a position information item of the actuator element (5) or of a rotor of the actuator drive (2) which was detected last as a reference position before the positioning actuator system (1) is switched off; - in the case of switching on of the positioning actuator system (1) retrieval of the reference position and actuation of the actuator drive (2) by energizing the actuator drive (2) in accordance with a space phasor which is dependent on the reference position. The object is to make available an improved method for releasing blockage of an actuator element or actuation after activation of a motor system with a maximum actuating torque. For positioning actuators with commutated motors such as, for example, synchronous motors.

IPC 8 full level

**F02D 11/10** (2006.01); **F02D 41/04** (2006.01); **F02D 41/06** (2006.01)

CPC (source: EP US)

**F02D 11/107** (2013.01 - EP US); **F02D 41/062** (2013.01 - EP US); **F15B 11/08** (2013.01 - US); **F02D 9/105** (2013.01 - EP US); **F02D 41/042** (2013.01 - EP US); **F02D 2011/108** (2013.01 - EP US); **F02D 2200/0404** (2013.01 - EP US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**DE 102011004890 A1 20120906**; CN 103415685 A 20131127; CN 103415685 B 20160504; EP 2681430 A1 20140108; EP 2681430 B1 20181212; JP 2014508494 A 20140403; JP 5865922 B2 20160217; US 2014144316 A1 20140529; US 9476430 B2 20161025; WO 2012116849 A1 20120907

DOCDB simple family (application)

**DE 102011004890 A 20110301**; CN 201280010930 A 20120104; EP 12700938 A 20120104; EP 2012050089 W 20120104; JP 2013555808 A 20120104; US 201214001515 A 20120104