

Title (en)

METHOD FOR CALIBRATION OF A POSITIONAL SENSOR ON A ROTATIONAL ACTUATOR DEVICE FOR CONTROL OF A GAS EXCHANGE VALVE IN AN INTERNAL COMBUSTION ENGINE

Title (de)

VERFAHREN ZUR KALIBRIERUNG EINES WEGSENSORS EINER DREHAKTUATORVORRICHTUNG ZUR ANSTEUERUNG EINES GASWECHSELVENTILS EINER BRENNKRAFTMASCHINE

Title (fr)

PROCEDE POUR ETALONNER UN CAPTEUR DE TRAJECTOIRE D'UN DISPOSITIF D'ACTIONNEMENT ROTATIF SERVANT A COMMANDER UNE SOUPAPE DE CHANGEMENT DES GAZ D'UN MOTEUR A COMBUSTION INTERNE

Publication

EP 1815110 B1 20080206 (DE)

Application

EP 05799743 A 20051019

Priority

- EP 2005011222 W 20051019
- DE 102004054759 A 20041112

Abstract (en)

[origin: US7380433B2] A method for calibrating a distance sensor of a rotary actuator device for controlling a charge cycle valve of an internal combustion engine. The rotary actuator device includes a controllable electric motor having an actuator element for actuating the charge cycle valve, two energy storage means acting in opposite drive directions on the charge cycle valve, a control and regulating device which controls the electric motor with regard to its rotor angle according to a stored setpoint path and a distance sensor for detecting the rotor position. At least one state variable of the electric motor is measured, the at least one state variable being compared with a reference variable. If there is a deviation between the variables being compared, the stored setpoint path and/or the distance sensor signal detected is/are altered as a function of the state variable.

IPC 8 full level

F01L 9/20 (2021.01); **F01L 9/22** (2021.01)

CPC (source: EP US)

F01L 1/044 (2013.01 - EP US); **F01L 9/20** (2021.01 - EP US); **F01L 9/22** (2021.01 - EP); **F01L 9/22** (2021.01 - US); **F01L 2009/2169** (2021.01 - EP US)

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 NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2006050790 A1 20060518; AT E385539 T1 20080215; DE 102004054759 A1 20060524; DE 102004054759 B4 20060810; DE 502005002781 D1 20080320; EP 1815110 A1 20070808; EP 1815110 B1 20080206; US 2007208487 A1 20070906; US 7380433 B2 20080603

DOCDB simple family (application)

EP 2005011222 W 20051019; AT 05799743 T 20051019; DE 102004054759 A 20041112; DE 502005002781 T 20051019; EP 05799743 A 20051019; US 79830507 A 20070511