

Title (en)

METHOD FOR CONTROLLING A DRIVE SYSTEM OF AN ACTUATOR OF A MOTOR VEHICLE AND CORRESPONDING DRIVE SYSTEM

Title (de)

VERFAHREN ZUR STEUERUNG EINES ANTRIEBSSYSTEMS EINES STELLELEMENTES EINES KRAFTFAHRZEUGS SOWIE
ENTSPRECHENDES ANTRIEBSSYSTEM

Title (fr)

PROCEDE POUR COMMANDER UN SYSTEME D'ENTRAINEMENT D'UN ELEMENT DE REGLAGE D'UN VEHICULE AUTOMOBILE ET
SYSTEME D'ENTRAINEMENT CORRESPONDANT

Publication

EP 2553199 A1 20130206 (DE)

Application

EP 11703583 A 20110120

Priority

- DE 102010013597 A 20100331
- EP 2011000232 W 20110120

Abstract (en)

[origin: WO2011120606A1] The invention relates to a drive system (1) of an actuator (10) of a motor vehicle and to a method for controlling the drive system (1), wherein an electric motor (3) drives a drive element (21) by means of a gearbox (17, 18) and an output element (22) coupled to same by means of a rotary spring (23) about a common rotary axis (20). The rotary spring (23) transfers a torque acting on the drive element (21) to the output element (22) in both directions of rotation (R1, R2) and blocks a torque on the output side. Control electronics (25) are set up for saving a current position value of the actuator (10) using the motor speed (n) and/or the motor current (IM) and the direction of rotation (R1, R2) when the drive element (21) driven in one of the directions of rotation (R1,R2) is stopped after an adjusting motion. When the actuator (10) again makes an adjusting motion in the same or opposite direction, an exaggeration of the motor speed (n) or an increase in the motor current (IM) are captured until or at the moment of a non-positive coupling of the drive element (21) to the output element (22) by means of the rotary spring (23), and a correction value is determined for compensating for a shift in position of the drive element (21) relative to the saved position value.

IPC 8 full level

E05F 15/10 (2006.01); **E05F 11/50** (2006.01)

CPC (source: EP)

E05F 11/505 (2013.01); **E05F 15/603** (2015.01); **E05F 15/40** (2015.01); **E05Y 2201/21** (2013.01); **E05Y 2201/234** (2013.01); **E05Y 2201/26** (2013.01); **E05Y 2201/266** (2013.01); **E05Y 2201/49** (2013.01); **E05Y 2201/604** (2013.01); **E05Y 2400/336** (2013.01); **E05Y 2400/342** (2013.01); **E05Y 2400/51** (2013.01); **E05Y 2900/50** (2013.01); **E05Y 2900/55** (2013.01)

Citation (search report)

See references of WO 2011120606A1

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 102010013597 B3 20110601; CN 102782239 A 20121114; CN 102782239 B 20150422; EP 2553199 A1 20130206;
WO 2011120606 A1 20111006

DOCDB simple family (application)

DE 102010013597 A 20100331; CN 201180012351 A 20110120; EP 11703583 A 20110120; EP 2011000232 W 20110120