

Title (en)

METHOD AND DEVICE FOR DETERMINING THE EXTERNAL FORCE EXERTED ON A MOTOR VEHICLE FLAP WHICH CAN BE MOVED ABOUT AN AXIS BY A MOTOR AND IN A REGULARLY ROTATORY MANNER

Title (de)

VERFAHREN UND VORRICHTUNG ZUR BESTIMMUNG DER AUF EINE MOTORISCH SOWIE REGELMÄßIG ROTATORISCH UM EINE ACHSE BEWEGBAREN KRAFTFAHRZEUGKLAPPE AUSGEÜBTEN EXTERNEN KRAFT

Title (fr)

PROCÉDÉ ET DISPOSITIF POUR DÉTERMINER LA FORCE EXTERNE EXERCÉE SUR UN OUVRANT DE VÉHICULE AUTOMOBILE POUVANT ÊTRE DÉPLACÉ PAR MOTEUR ET RÉGULIÈREMENT EN ROTATION AUTOUR D'UN AXE

Publication

EP 4097323 A1 20221207 (DE)

Application

EP 21720392 A 20210127

Priority

- DE 102020101815 A 20200127
- DE 2021100077 W 20210127

Abstract (en)

[origin: WO2021151432A1] The subject matter of the invention is a method for determining an external force (Tz) exerted on a motor vehicle flap (1) which can be moved about an axis (2) by a motor and in a regularly rotatory manner. At least one acceleration sensor (4) is provided as a first sensor (4) in or on the motor vehicle flap (1). A second sensor (5) is also implemented. The signals of both sensors (4, 5) are evaluated by a control unit (6). According to the invention, the second sensor (5) is designed to measure the angle and/or measure the path of the motor vehicle flap (1) with respect to a motor vehicle body (3).

IPC 8 full level

E05F 15/611 (2015.01); **E05F 15/75** (2015.01)

CPC (source: EP KR)

E05F 15/611 (2015.01 - EP KR); **E05F 15/75** (2015.01 - EP KR); **E05Y 2400/3015** (2024.05 - EP KR); **E05Y 2400/31** (2013.01 - EP KR); **E05Y 2400/40** (2013.01 - EP KR); **E05Y 2400/44** (2013.01 - EP KR); **E05Y 2900/531** (2013.01 - EP KR); **E05Y 2900/546** (2013.01 - EP KR)

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

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

DE 102020101815 A1 20210729; EP 4097323 A1 20221207; JP 2023511982 A 20230323; KR 20220129082 A 20220922; WO 2021151432 A1 20210805

DOCDB simple family (application)

DE 102020101815 A 20200127; DE 2021100077 W 20210127; EP 21720392 A 20210127; JP 2022545370 A 20210127; KR 20227029852 A 20210127