

Title (en)

METHOD AND DEVICE FOR IMPLEMENTING A CLOSED LOOP OF AN ADVANCED DRIVING AID DEVICE

Title (de)

VERFAHREN UND VORRICHTUNG ZUR IMPLEMENTIERUNG EINES GESCHLOSSENEN KREISES EINER VERBESSERTEN FAHRHILFEVORRICHTUNG

Title (fr)

PROCEDE ET DISPOSITIF DE MISE AU POINT D'UNE BOUCLE FERMEE D'UN DISPOSITIF D'AIDE A LA CONDUITE AVANCE

Publication

**EP 3802255 A1 20210414 (FR)**

Application

**EP 19728005 A 20190528**

Priority

- FR 1855071 A 20180611
- EP 2019063868 W 20190528

Abstract (en)

[origin: WO2019238418A1] According to this method for implementing a closed loop of an advanced driving aid device for the lateral control of a motor vehicle, a controller of the closed loop is synthesized (P02) by solving an optimization problem based on a bicycle model of the vehicle. A family of at least two bicycle models of the vehicle is established (E01), these models having, with respect to one another, at least one dispersion chosen from among a dispersion of mass of the vehicle, a dispersion of drift rigidity on a drivetrain of the vehicle, a dispersion of the center of gravity of the vehicle and a dispersion of the position of the matrix of inertia of the vehicle, the optimization problem being solved on the basis of all models of the family.

IPC 8 full level

**B60W 10/20** (2006.01); **B60W 30/12** (2020.01); **B60W 50/00** (2006.01); **B62D 15/02** (2006.01)

CPC (source: EP KR US)

**B60W 10/20** (2013.01 - KR); **B60W 30/12** (2013.01 - EP KR US); **B60W 30/18145** (2013.01 - KR); **B60W 40/072** (2013.01 - KR); **B60W 50/0097** (2013.01 - KR); **B60W 60/0015** (2020.02 - US); **B62D 15/025** (2013.01 - EP KR); **B60W 10/20** (2013.01 - EP); **B60W 50/0097** (2013.01 - EP); **B60W 2040/1323** (2013.01 - KR); **B60W 2050/0005** (2013.01 - KR); **B60W 2050/0008** (2013.01 - EP KR); **B60W 2050/0013** (2013.01 - EP KR); **B60W 2050/0033** (2013.01 - EP KR); **B60W 2050/0095** (2013.01 - EP KR); **B60W 2520/12** (2013.01 - EP KR); **B60W 2520/14** (2013.01 - EP KR); **B60W 2520/20** (2013.01 - EP KR); **B60W 2530/10** (2013.01 - EP KR); **B60W 2530/20** (2013.01 - EP KR); **B60W 2540/18** (2013.01 - EP KR); **B60W 2552/30** (2020.02 - EP KR); **B60W 2552/53** (2020.02 - US); **B60W 2554/4026** (2020.02 - US); **B60Y 2300/1815** (2013.01 - KR)

Citation (search report)

See references of WO 2019238418A1

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

DOCDB simple family (publication)

**FR 3082162 A1 20191213**; **FR 3082162 B1 20200605**; CN 112262067 A 20210122; EP 3802255 A1 20210414; JP 2021526101 A 20210930; JP 7118517 B2 20220816; KR 102523556 B1 20230420; KR 20210018447 A 20210217; US 2021323551 A1 20211021; WO 2019238418 A1 20191219

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**FR 1855071 A 20180611**; CN 201980038881 A 20190528; EP 19728005 A 20190528; EP 2019063868 W 20190528; JP 2020567102 A 20190528; KR 20217000341 A 20190528; US 201917251080 A 20190528