

Title (en)

METHOD FOR SECURELY DETECTING A CLOSED POSITION OF A MOVABLE PART OF A VEHICLE

Title (de)

VERFAHREN ZUR SICHEREN ERKENNUNG EINER SCHLIESSPOSITION EINES BEWEGLICHEN TEILS VON EINEM FAHRZEUG

Title (fr)

PROCÉDÉ PERMETTANT DE DÉTECTER DE MANIÈRE SÉCURISÉE UNE POSITION FERMÉE D'UNE PARTIE MOBILE D'UN VÉHICULE

Publication

**EP 4139548 B1 20240320 (DE)**

Application

**EP 21725015 A 20210401**

Priority

- DE 102020110769 A 20200421
- DE 2021100319 W 20210401

Abstract (en)

[origin: WO2021213584A1] The invention relates to a method for detecting a closed position of a movable part (110) of a vehicle (100), in particular an automatically operable vehicle, said method comprising the following steps: a control unit (20) receives a first position signal from a first signal source as a first closure criterion which comprises at least one locking position of a vehicle lock (11) for the movable part (110); the control unit (20) adds a conditional test instruction to the received first position signal, wherein the conditional test instruction comprises checking for at least one second position signal as a second closure criterion after detecting the first position signal, wherein the first closure criterion is also satisfied; the control unit (20) receives the second position signal from a second signal source as a second closure criterion, wherein the second signal source is different from the first signal source and the second position signal can be assigned to the movable part; the control unit (20) outputs a confirmation signal when both closure criteria are satisfied.

IPC 8 full level

**E05B 81/66** (2014.01); **E05B 81/70** (2014.01); **E05B 81/72** (2014.01)

CPC (source: EP KR US)

**E05B 81/56** (2013.01 - US); **E05B 81/66** (2013.01 - EP); **E05B 81/68** (2013.01 - KR); **E05B 81/70** (2013.01 - EP KR US); **E05B 81/72** (2013.01 - EP KR US); **E05B 81/68** (2013.01 - EP)

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 102020110769 A1 20211021**; CN 115427651 A 20221202; EP 4139548 A1 20230301; EP 4139548 B1 20240320; JP 2023522239 A 20230529; KR 20230002882 A 20230105; US 2023228131 A1 20230720; WO 2021213584 A1 20211028

DOCDB simple family (application)

**DE 102020110769 A 20200421**; CN 202180030079 A 20210401; DE 2021100319 W 20210401; EP 21725015 A 20210401; JP 2022563953 A 20210401; KR 20227040463 A 20210401; US 202117996093 A 20210401