

Title (en)

VEHICLE HANDLE DEVICE, VEHICLE DOOR AND VEHICLE

Title (de)

TÜRGRIFFVORRICHTUNG FÜR FAHRZEUG, TÜR UND FAHRZEUG

Title (fr)

DISPOSITIF DE POIGNÉE DE VÉHICULE, PORTIÈRE DE VÉHICULE ET VÉHICULE

Publication

EP 3926133 A4 20220427 (EN)

Application

EP 20900698 A 20201210

Priority

- CN 202020610791 U 20200421
- CN 2020135171 W 20201210

Abstract (en)

[origin: EP3926133A1] A door handle apparatus for a vehicle, a door, and a vehicle are disclosed. The door handle apparatus for a vehicle includes: a support structure including a first side and a second side opposite to each other, wherein a housing recess is formed on the first side; a door handle arranged on the support structure, wherein in a first position, the door handle is received in the housing recess, and in a second position, a first end of the door handle is outside the housing recess; a switch element arranged on the support structure; and a transmission member movably arranged on the support structure and located on the second side, wherein the transmission member is connected to a second end of the door handle, when the door handle is rotated from the first position to the second position, the door handle drives the transmission member to move, when the door handle is in the second position, the transmission member abuts the switch element, and the switch element generates an electric signal for controlling the unlocking of the door. When the door handle is rotated to the second position outside the housing recess, the door handle can cause, through the transmission member, the switch element to generate an electric signal for controlling the unlocking of the door. Such simple operations allow the door to be opened more conveniently by electric means.

IPC 8 full level

E05B 81/76 (2014.01); **E05B 85/16** (2014.01); **E05B 81/90** (2014.01); **E05B 85/06** (2014.01)

CPC (source: EP)

E05B 81/76 (2013.01); **E05B 85/107** (2013.01); **E05B 81/90** (2013.01); **E05B 85/06** (2013.01)

Citation (search report)

- [XAI] WO 2019133524 A1 20190704 - ILLINOIS TOOL WORKS [US]
- [XI] EP 3147436 A1 20170329 - AISIN SEIKI [JP]
- [A] US 2019291543 A1 20190926 - COUTO MAQUIEIRA DELMIRO JAVIER [ES], et al
- See references of WO 2021212867A1

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)

EP 3926133 A1 20211222; **EP 3926133 A4 20220427**; **EP 3926133 B1 20230607**; **EP 3926133 B8 20230712**; **EP 3926133 C0 20230607**; CN 212642407 U 20210302; WO 2021212867 A1 20211028

DOCDB simple family (application)

EP 20900698 A 20201210; CN 2020135171 W 20201210; CN 202020610791 U 20200421