

Title (en)

BRAKE CONTROL DEVICE FOR A VEHICLE, AND METHOD FOR OPERATING A BRAKE CONTROL DEVICE FOR A VEHICLE

Title (de)

BREMSSTEUERUNGSEINRICHTUNG FÜR EIN FAHRZEUG UND VERFAHREN ZUM BETREIBEN EINER  
BREMSSTEUERUNGSEINRICHTUNG FÜR EIN FAHRZEUG

Title (fr)

DISPOSITIF DE COMMANDE DE FREINAGE POUR UN VÉHICULE ET PROCÉDÉ POUR FAIRE FONCTIONNER UN DISPOSITIF DE  
COMMANDE DE FREINAGE POUR UN VÉHICULE

Publication

**EP 4366970 A1 20240515 (DE)**

Application

**EP 22740388 A 20220705**

Priority

- DE 102021207067 A 20210706
- EP 2022068621 W 20220705

Abstract (en)

[origin: WO2023280876A1] The present invention provides a brake control device (10) for a vehicle (F), comprising a control device (SE) which is connected to a brake booster device (BV) and to an electric machine (EM) of the vehicle; wherein the control device (SE) is designed to identify a failure in operation or a fault in operation of the brake booster device (BV); to identify a minimum (minM1) of a first braking torque (M1) of the electric machine (EM) as generator braking torque, wherein the minimum (minM1) of the first braking torque (M1) corresponds to that braking torque which has the smallest absolute value at all the speeds, able to be generated by the electric machine (EM), on the vehicle; and, when the failure in operation or fault in operation of the brake booster device (BV) is identified and for a braking request, to actuate the electric machine (EM) in such a way that at least the minimum (minM1) of the first braking torque (M1) is generated by the electric machine (EM).

IPC 8 full level

**B60L 3/00** (2019.01); **B60L 7/10** (2006.01); **B60L 7/24** (2006.01); **B60L 15/20** (2006.01); **B60W 30/18** (2012.01)

CPC (source: EP)

**B60L 3/0076** (2013.01); **B60L 3/0092** (2013.01); **B60L 7/10** (2013.01); **B60L 7/24** (2013.01); **B60L 15/2009** (2013.01); **B60W 10/08** (2013.01); **B60W 30/18109** (2013.01); **B60W 30/18127** (2013.01); **B60W 50/029** (2013.01); **B60L 2260/16** (2013.01); **B60L 2260/30** (2013.01); **B60W 2050/0295** (2013.01); **B60W 2050/0297** (2013.01)

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 102021207067 A1 20230112**; CN 117677525 A 20240308; EP 4366970 A1 20240515; JP 2024522822 A 20240621;  
WO 2023280876 A1 20230112

DOCDB simple family (application)

**DE 102021207067 A 20210706**; CN 202280048181 A 20220705; EP 2022068621 W 20220705; EP 22740388 A 20220705;  
JP 2023578678 A 20220705