

Title (en)  
DRIVING DYNAMICS SYSTEM, ELECTRIC VEHICLE WITH CENTRAL CONTROL

Title (de)  
FAHRDYNAMIKSYSTEM, E-FAHRZEUG MIT ZENTRALER STEUERUNG

Title (fr)  
SYSTÈME DE DYNAMIQUE DE CONDUITE, VÉHICULE ÉLECTRIQUE À COMMANDE CENTRALE

Publication  
**EP 4103434 A1 20221221 (DE)**

Application  
**EP 21703927 A 20210208**

Priority  
• DE 102020103660 A 20200212  
• EP 2021052977 W 20210208

Abstract (en)  
[origin: WO2021160567A1] The invention relates to a driving dynamics system for a motor vehicle, comprising: - a primary control unit (M-ECU) for detecting and/or generating steering commands and braking commands; - a braking system having a first electrohydraulic pressure supply unit (DV1) and a second electrohydraulic pressure supply unit (DV2); - four hydraulically actuatable wheel brakes (RB1-RB4) which are assigned to wheels (R1- R4); - electrically actuatable brake pressure adjusting valves (EV1-EV4, AV1-AV4, SV1-SV4); - an in particular electrical steering actuator (EPS) for actuating at least one axle. The driving dynamics system is designed to implement at least one steering command, in particular in the normal operating mode, by controlling at least one of the pressure supply units (DV1, DV2) and the steering actuator (EPS), and/or to implement a braking command in the normal operating mode by controlling at least the second pressure supply unit (DV2) and at least the brake pressure adjusting valves (EV1-EV4, AV1-AV4, SV1-SV4) for pressure adjustment for individual wheels, and, in a (first) case of malfunction, controlling at least the first pressure supply unit (DV1) and at least the brake pressure adjusting valves (EV1-EV4, AV1-AV4, SV1-SV4) for pressure adjustment for individual wheels.

IPC 8 full level  
**B60T 13/74** (2006.01); **B60T 8/18** (2006.01); **B60T 8/88** (2006.01); **B60T 13/68** (2006.01); **B60T 17/22** (2006.01)

CPC (source: EP)  
**B60T 7/042** (2013.01); **B60T 8/1755** (2013.01); **B60T 8/885** (2013.01); **B60T 13/662** (2013.01); **B60T 13/686** (2013.01); **B60T 13/745** (2013.01); **B60T 17/221** (2013.01); **B60T 2260/02** (2013.01); **B60T 2260/09** (2013.01); **B60T 2270/402** (2013.01); **B60T 2270/404** (2013.01); **B60T 2270/413** (2013.01); **B60T 2270/82** (2013.01)

Citation (search report)  
See references of WO 2021160567A1

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 102020103660 A1 20210812**; CN 115427270 A 20221202; EP 4103434 A1 20221221; WO 2021160567 A1 20210819

DOCDB simple family (application)  
**DE 102020103660 A 20200212**; CN 202180028135 A 20210208; EP 2021052977 W 20210208; EP 21703927 A 20210208