

Title (en)

ELECTRICAL DRIVE SYSTEM FOR A VEHICLE, AND METHOD FOR OPERATING AN ELECTRICAL DRIVE SYSTEM

Title (de)

ELEKTRISCHES ANTRIEBSSYSTEM FÜR EIN FAHRZEUG UND VERFAHREN ZUM BETREIBEN EINES ENTSPRECHENDEN ELEKTRISCHEN ANTRIEBSSYSTEMS

Title (fr)

SYSTÈME D'ENTRAÎNEMENT ÉLECTRIQUE POUR VÉHICULE ET PROCÉDÉ POUR FAIRE FONCTIONNER UN SYSTÈME D'ENTRAÎNEMENT ÉLECTRIQUE CORRESPONDANT

Publication

EP 4377135 A1 20240605 (DE)

Application

EP 22757279 A 20220726

Priority

- DE 102021003852 A 20210727
- EP 2022070915 W 20220726

Abstract (en)

[origin: WO2023006729A1] The invention relates to an electrical drive system (1) for a vehicle, comprising - an electrical three-phase machine (2) for driving the vehicle, - an electrical energy store (3) for electrically supplying the electrical three-phase machine (2) during a driving operation of the vehicle, - an inverter (4) of the electrical three-phase machine (2), which inverter is electrically coupled to the electrical energy store (3), and - a charging connection (5) on the vehicle side for electrically coupling the electrical energy store (3) with a vehicle-external charging unit (6), wherein - a charge voltage (UL) of the charging connection (5) on the vehicle side can be transformed into a supply voltage for charging the electrical energy store (3) as a function of the inverter (4). The invention further relates to a method.

IPC 8 full level

B60L 53/24 (2019.01)

CPC (source: EP)

B60L 53/14 (2019.02); **B60L 53/24** (2019.02); **H02M 1/10** (2013.01); **H02M 7/487** (2013.01); **H02M 3/158** (2013.01); **Y02T 10/70** (2013.01); **Y02T 10/7072** (2013.01); **Y02T 90/14** (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 102021003852 A1 20210923; CN 117813216 A 20240402; EP 4377135 A1 20240605; JP 2024527881 A 20240726; WO 2023006729 A1 20230202

DOCDB simple family (application)

DE 102021003852 A 20210727; CN 202280052696 A 20220726; EP 2022070915 W 20220726; EP 22757279 A 20220726; JP 2024503994 A 20220726