

Title (en)

CHARGING SYSTEM, VOLTAGE CONVERTER UNIT, AND ACCUMULATOR UNIT

Title (de)

LADESYSTEM, SPANNUNGSWANDLEREINHEIT, UND SPEICHEREINHEIT

Title (fr)

SYSTÈME DE CHARGE, UNITÉ TRANSFORMATEUR DE TENSION, ET ÉLÉMENT DE STOCKAGE

Publication

EP 4256673 A1 20231011 (DE)

Application

EP 21836618 A 20211203

Priority

- CH 15412020 A 20201204
- CH 792021 A 20210128
- IB 2021000767 W 20211203

Abstract (en)

[origin: WO2022118070A1] The invention relates to a charging system (2) for an accumulator (48) in an electric vehicle, comprising: a voltage converter unit (3) and an accumulator unit (4), wherein: the accumulator unit (4) is designed to be supplied with electrical energy via two supply terminals (44, 45); an accumulator (48) of the accumulator unit (4) has two terminals (481, 482) which are detachably connected to the supply terminals (44, 45) via a second and a third isolating switch (46, 47); the voltage converter unit (3) is designed as a structural unit which is separate from the accumulator unit (4) and is connected to the accumulator unit (4) via three terminals (31, 32, 33); and, in the connected state, within the accumulator unit (4) two of the three terminals (33, 32) are connected to the two terminals (481, 482) of the accumulator (48) and the third of the three terminals (31) is connected to one of the supply terminals (44, 45), and within the voltage converter unit (3) the third of the three terminals (31) leads via a first isolating switch (36).

IPC 8 full level

H02J 7/00 (2006.01); **B60L 53/20** (2019.01)

CPC (source: EP KR US)

B60L 53/10 (2019.02 - EP); **B60L 53/11** (2019.02 - EP KR); **B60L 53/16** (2019.02 - US); **B60L 53/22** (2019.02 - EP KR US); **H02J 7/0045** (2013.01 - EP KR US); **B60Y 2200/91** (2013.01 - KR); **H02J 2207/20** (2020.01 - US); **H02J 2310/48** (2020.01 - EP KR); **Y02T 10/70** (2013.01 - EP KR); **Y02T 10/7072** (2013.01 - EP KR); **Y02T 90/14** (2013.01 - EP KR)

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)

WO 2022118070 A1 20220609; EP 4256673 A1 20231011; JP 2024501363 A 20240111; KR 20230125220 A 20230829; US 2024051413 A1 20240215

DOCDB simple family (application)

IB 2021000767 W 20211203; EP 21836618 A 20211203; JP 2023557838 A 20211203; KR 20237022498 A 20211203; US 202118255452 A 20211203