

Title (en)

ELECTRICAL POWER SUPPLY SYSTEM COMPRISING A BIDIRECTIONAL CHARGER AND A BATTERY, CAPABLE OF SUPPLYING AN EXTERNAL CHARGE WHILE BEING CONNECTED TO AN ELECTRICAL POWER SUPPLY NETWORK AND METHOD FOR CONTROLLING SUCH A SYSTEM

Title (de)

STROMVERSORGUNGSSYSTEM MIT BIDIREKTIONALEM LADEGERÄT UND BATTERIE MIT EXTERNER LADUNG AN EIN STROMVERSORGUNGSNETZWERK UND VERFAHREN ZUR STEUERUNG

Title (fr)

SYSTÈME D'ALIMENTATION ÉLECTRIQUE COMPRENANT UN CHARGEUR BIDIRECTIONNEL ET UNE BATTERIE, CAPABLE D'ALIMENTER UNE CHARGE EXTERNE TOUT EN ÉTANT CONNECTÉ À UN RÉSEAU D'ALIMENTATION ÉLECTRIQUE ET PROCÉDÉ DE COMMANDE D'UN TEL SYSTÈME

Publication

EP 4313660 A1 20240207 (FR)

Application

EP 22715080 A 20220316

Priority

- FR 2103051 A 20210325
- EP 2022056810 W 20220316

Abstract (en)

[origin: WO2022200144A1] The invention relates to an electrical power supply system comprising a bidirectional charger (3) connected to a battery (2), an electrical power outlet (6) configured to allow a charge to be supplied, and a fast switching device (5), configured to be able to be connected to an electrical power network. The system comprises a first current sensor (8a) between the bidirectional charger (3) and the fast switching device (5), a second current sensor (8b) between the electrical power outlet (6) and the bidirectional charger (3), a voltage sensor (8c) at the outlet of the fast switching device (5) and a sensor (8d) for sensing the state of charge of the battery, and a control means (7) connected to the sensors (8a, 8b, 8c, 8d), to the bidirectional charger (3), and to the fast switching device (5), which control means is configured to control the bidirectional charger and the fast-switching device based on the measurements from the sensors and on the state of charge of the battery.

IPC 8 full level

B60L 1/00 (2006.01); **B60L 58/12** (2019.01)

CPC (source: EP)

B60L 1/006 (2013.01); **B60L 58/12** (2019.02); **Y02T 10/70** (2013.01); **Y02T 10/7072** (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)

WO 2022200144 A1 20220929; CN 117062730 A 20231114; EP 4313660 A1 20240207; FR 3121080 A1 20220930; FR 3121080 B1 20230414

DOCDB simple family (application)

EP 2022056810 W 20220316; CN 202280024680 A 20220316; EP 22715080 A 20220316; FR 2103051 A 20210325