Title (en)

CASCADABLE ASSEMBLY FOR INTERCONNECTING A PLURALITY OF STORED ENERGY SOURCES, INTERCONNECTION THEREFOR, AND METHOD FOR CONTROLLING AN ENERGY SUPPLY BY MEANS OF SAID ASSEMBLY

Title (de)

KASKADIERBARE ANORDNUNG ZUM VERSCHALTEN EINER VIELZAHL VON ENERGIESPEICHERN, VERSCHALTUNG HIERFÜR SOWIE VERFAHREN ZUR STEUERUNG EINER ENERGIEVERSORGUNG MIT BESAGTER ANORDNUNG

Title (fr)

ENSEMBLE EN CASCADE SERVANT À BRANCHER UNE MULTITUDE D'ACCUMULATEURS D'ÉNERGIE, BRANCHEMENT ASSOCIÉ ET PROCÉDÉ SERVANT À COMMANDER UNE ALIMENTATION EN ÉNERGIE COMPRENANT LEDIT ENSEMBLE

Publication

EP 3607630 A1 20200212 (DE)

Application

EP 18715028 A 20180403

Priority

- DE 102017107070 A 20170403
- EP 2018058407 W 20180403

Abstract (en)

[origin: WO2018185059A1] When stored energy sources are interconnected with each other and with an energy source or a load, the efficient use of the stored energy is a focus, but so is the placement of load on the stored energy sources in the most sustainable, intelligent manner possible, wherein the whole system should remain as flexibly configurable as possible. However, previous concepts are in many cases insufficiently flexibly configurable or highly complex. The invention relates to a stored-energy-source management assembly (10), comprising an interconnection device (15), which is connected to the stored energy sources and can be connected to the at least one load and to the charging unit and which comprises at least two at least three-stage converters (S1,…, S12) per stored energy source, which converters are arranged in such a way that the stored-energy-source management assembly (10) is designed for a partial wiring of a subset of the stored energy sources (B1, …, Bn) in parallel arrangement. Each stored energy source can be switched to a currentless state by the particular converter and replaced at any time. This allows scalability of the whole system by a user at any time and provides valuable advantages in the field of electromobility and in the individual adaptation, by a user, of a mobile system and/or continuously needed system that must be reliable.

IPC 8 full level

H02J 7/00 (2006.01)

CPC (source: EP)

H02J 7/0024 (2013.01); **H02J 7/0045** (2013.01)

Citation (search report)

See references of WO 2018185059A1

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

DOCDB simple family (publication)

DE 102017107070 A1 20181004; EP 3607630 A1 20200212; WO 2018185059 A1 20181011

DOCDB simple family (application)

DE 102017107070 A 20170403; EP 18715028 A 20180403; EP 2018058407 W 20180403