

Title (en)

HYBRID BATTERY ENERGY STORAGE SYSTEM

Title (de)

HYBRIDES ENERGIESPEICHERSYSTEM MIT BATTERIE

Title (fr)

SYSTÈME DE STOCKAGE D'ÉNERGIE DE BATTERIE HYBRIDE

Publication

EP 3991261 A1 20220504 (EN)

Application

EP 19742405 A 20190726

Priority

- EP 19183035 A 20190627
- EP 2019070271 W 20190726

Abstract (en)

[origin: WO2020259860A1] The present invention relates to a battery unit configured to store and release electrical energy, wherein the battery unit comprises a first set of rechargeable battery modules, comprising at least one rechargeable battery module, a second set of rechargeable battery modules, comprising at least one rechargeable battery module, and at least one battery management system (BMS) for each set of rechargeable battery modules, configured to monitor, control and/ or protect the rechargeable battery modules during operation. The battery modules each comprise at least one battery cell. The weakest battery cell in the first set of rechargeable battery modules, defined by the state-of-health (SoH), has a higher SoH than the weakest battery cell in the second set of rechargeable battery modules. At least 70% of charging and discharging processes of the battery unit during a 24 h period are performed utilizing only the first set of rechargeable battery modules.

IPC 8 full level

H02J 3/32 (2006.01); **H02J 7/00** (2006.01)

CPC (source: EP)

H02J 3/32 (2013.01); **H02J 7/0025** (2020.01); **H02J 7/005** (2020.01); **H02J 7/0013** (2013.01); **Y02B 70/3225** (2013.01); **Y02E 40/10** (2013.01); **Y02T 10/70** (2013.01); **Y04S 20/222** (2013.01)

Citation (search report)

See references of WO 2020259860A1

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)

WO 2020259860 A1 20201230; EP 3991261 A1 20220504

DOCDB simple family (application)

EP 2019070271 W 20190726; EP 19742405 A 20190726