

Title (en)

ENERGY STORAGE UNIT COMPRISING A BATTERY MODULE AND METHOD FOR MANAGING SUCH AN ENERGY STORAGE UNIT

Title (de)

ENERGIESPEICHEREINHEIT MIT BATTERIEMODUL UND VERFAHREN ZUR VERWALTUNG EINER SOLCHEN ENERGIESPEICHEREINHEIT

Title (fr)

UNITÉ DE STOCKAGE D'ÉNERGIE COMPRENANT UN MODULE DE BATTERIE ET PROCÉDÉ DE GESTION D'UNE TELLE UNITÉ DE STOCKAGE D'ÉNERGIE

Publication

EP 4268297 A1 20231101 (FR)

Application

EP 21851615 A 20211215

Priority

- FR 2014022 A 20201223
- FR 2021052340 W 20211215

Abstract (en)

[origin: WO2022136770A1] The invention relates to a battery module (10) comprising a module management system (11) and at least one battery cell (30) having a cell voltage. The at least one battery cell (30) is capable of assuming: - a first operating mode (Mod1) in which the battery cell (30) undergoes discharge, - a second operating mode (Mod2) in which the battery cell (30) does not undergo discharge. The module management system (11) is configured to decide to place the battery cell (30) selectively in one of the operating modes (Mod1, Mod2) depending on the cell voltage. The invention also relates to an energy storage unit (1) comprising at least two of said battery modules (10). Finally, the invention relates to a method for managing such an energy storage unit (1).

IPC 8 full level

H01M 4/02 (2006.01); **H01M 4/36** (2006.01); **H01M 4/58** (2010.01); **H01M 10/0525** (2010.01); **H01M 10/42** (2006.01); **H01M 10/44** (2006.01); **H01M 10/48** (2006.01); **H01M 50/204** (2021.01)

CPC (source: EP US)

H01M 4/364 (2013.01 - EP); **H01M 4/5825** (2013.01 - EP US); **H01M 10/0525** (2013.01 - EP US); **H01M 10/441** (2013.01 - EP US); **H01M 10/446** (2013.01 - EP US); **H01M 10/448** (2013.01 - EP US); **H01M 10/482** (2013.01 - EP); **H01M 50/204** (2021.01 - EP US); **H01M 2004/028** (2013.01 - EP US); **H01M 2010/4271** (2013.01 - EP US); **H01M 2010/4278** (2013.01 - EP US); **H01M 2010/4292** (2013.01 - EP); **H01M 2220/20** (2013.01 - EP); **Y02E 60/10** (2013.01 - EP)

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)

FR 3118311 A1 20220624; **FR 3118311 B1 20230602**; CN 117015869 A 20231107; EP 4268297 A1 20231101; US 2024047801 A1 20240208; WO 2022136770 A1 20220630

DOCDB simple family (application)

FR 2014022 A 20201223; CN 202180094482 A 20211215; EP 21851615 A 20211215; FR 2021052340 W 20211215; US 202118269030 A 20211215