

Title (en)
ARRANGEMENT HAVING STORE FOR ELECTRICAL ENERGY AND REGENERATIVE ENERGY GENERATOR, IN PARTICULAR A WIND POWER PLANT, AND METHOD FOR OPERATING SAME

Title (de)
ANORDNUNG MIT SPEICHER FÜR ELEKTRISCHE ENERGIE UND REGENERATIVEN ENERGIEERZEUGER, INSBESONDERE WEA, SOWIE VERFAHREN ZU DEREN BETRIEB

Title (fr)
AGENCEMENT AVEC ACCUMULATEUR D'ÉNERGIE ÉLECTRIQUE ET GÉNÉRATEUR D'ÉNERGIE RENOUVELABLE, EN PARTICULIER INSTALLATION ÉOLIENNE, AINSI QUE LEUR PROCÉDÉ DE FONCTIONNEMENT

Publication
EP 3888219 A1 20211006 (DE)

Application
EP 19809813 A 20191126

Priority
• DE 102018009341 A 20181128
• EP 2019082580 W 20191126

Abstract (en)
[origin: WO2020109300A1] The invention relates to an arrangement comprising a regenerative energy generator (1) and a store (2) for electrical energy to be output to a grid (9), the regenerative energy generator (1) comprising an energy converter (13) for converting renewable energy sources into electrical energy and a power control unit (10) which has an input for a target power output and controls the power generation by the regenerative energy converter (13), with a charge controller (20) for the store (2) also being provided, which sets a minimum operating reserve to be provided and outputs a signal for a target state of charge (SoC) of the store (2). In order to achieve improved utilisation of the store, a correction unit (4) is connected to the charge controller (10) and continuously modifies the signal for the target state of charge (SoC). A sequence control unit (5) is also provided, which is actuated by the correction unit (4) and influences the power control unit (10) of the regenerative energy generator according to an output value of the correction unit (4).

IPC 8 full level
H02J 3/32 (2006.01); **H02J 3/38** (2006.01); **H02J 7/00** (2006.01)

CPC (source: EP US)
H02J 3/32 (2013.01 - EP); **H02J 3/381** (2013.01 - EP US); **H02J 3/46** (2013.01 - US); **H02J 7/0048** (2020.01 - EP US); **H02J 7/00712** (2020.01 - EP); **H02J 7/34** (2013.01 - EP); **F03D 9/11** (2016.05 - EP); **H02J 3/004** (2020.01 - EP US); **H02J 2203/10** (2020.01 - US); **H02J 2300/20** (2020.01 - EP); **H02J 2300/28** (2020.01 - EP US); **Y02E 10/56** (2013.01 - EP); **Y02E 10/76** (2013.01 - EP); **Y02E 70/30** (2013.01 - EP); **Y04S 10/50** (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

DOCDB simple family (publication)
DE 102018009341 A1 20200528; CN 113383477 A 20210910; EP 3888219 A1 20211006; US 12040619 B2 20240716; US 2022052530 A1 20220217; WO 2020109300 A1 20200604

DOCDB simple family (application)
DE 102018009341 A 20181128; CN 201980078560 A 20191126; EP 19809813 A 20191126; EP 2019082580 W 20191126; US 201917297772 A 20191126