Title (en)

METHOD FOR OPERATING AN ENERGY SUPPLY INSTALLATION, INSTALLATION CONTROLLER FOR AN ENERGY SUPPLY INSTALLATION AND ENERGY SUPPLY INSTALLATION

Title (de)

VERFAHREN ZUM BETREIBEN EINER ENERGIEVERSORGUNGS-ANLAGE, ANLAGENREGLER FÜR EINE ENERGIEVERSORGUNGS-ANLAGE SOWIE ENERGIEVERSORGUNGS-ANLAGE

Title (fr)

PROCÉDÉ DE FONCTIONNEMENT D'UNE INSTALLATION D'ALIMENTATION EN ÉNERGIE, DISPOSITIF DE COMMANDE D'INSTALLATION POUR UNE INSTALLATION D'ALIMENTATION EN ÉNERGIE ET INSTALLATION D'ALIMENTATION EN ÉNERGIE

Publication

EP 4268341 A1 20231101 (DE)

Application

EP 21840589 A 20211217

Priority

- DE 102020134772 A 20201222
- EP 2021086481 W 20211217

Abstract (en)

[origin: WO2022136165A1] The application describes a method for operating an energy supply installation (10), which is connected to an AC supply grid (12) via a transformer (14) and exchanges electrical power with the AC supply grid (12) via the transformer (14), wherein the transformer (14) is connected on a first side to the AC supply grid (12) and on a second side to an AC installation grid (18) of the energy supply installation (10), wherein the energy supply installation (10) has at least one inverter (22, 24), which exchanges electrical power between a DC unit (26, 28) on the DC side of the inverter (22, 24) and the AC installation grid (18) on the AC side of the inverter (22, 24), comprising the following steps: reception of at least one parameter of the power conversion of the at least one inverter (22, 24) by an installation controller (20), determination of a setpoint AC voltage for the AC installation grid (18) by the installation controller (20) according to the at least one parameter, transmission of the setpoint AC voltage to the transformer (14), wherein a tap changer (16) of the transformer (14) is configured to set a transformation ratio (T) in such a way that the product of the voltage in the AC supply grid (12) and the transformation ratio results in the setpoint AC voltage. The application also describes a method for operating an installation controller for an energy supply installation (10), an installation controller (20) for an energy supply installation (10) and an energy supply installation (10).

IPC 8 full level

H02J 3/18 (2006.01); **H02J 3/38** (2006.01)

CPC (source: EP US)

H02J 3/18 (2013.01 - US); **H02J 3/1878** (2013.01 - EP); **H02J 3/381** (2013.01 - EP US); H02J 2300/22 (2020.01 - EP); H02J 2300/24 (2020.01 - US); Y02E 40/30 (2013.01 - EP)

Citation (search report)

See references of WO 2022136165A1

Designated contracting state (EPC)

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Designated extension state (EPC)

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DOCDB simple family (publication)

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