

Title (en)

INSTALLATION AND METHOD FOR GENERATING A THREE-PHASE AC VOLTAGE TO BE FED INTO A POWER SUPPLY SYSTEM

Title (de)

ANLAGE UND VERFAHREN ZUM ERZEUGEN EINER IN EIN STROMNETZ EINZUSPEISENDEN DREIPHASENWECHSELSPANNUNG

Title (fr)

SYSTÈME ET PROCÉDÉ DE GÉNÉRATION D'UNE TENSION ALTERNATIVE TRIPHASÉE À INJECTER DANS UN RÉSEAU DE COURANT

Publication

**EP 3443660 A1 20190220 (DE)**

Application

**EP 17720402 A 20170420**

Priority

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- EP 2017059429 W 20170420

Abstract (en)

[origin: WO2017202547A1] The invention relates to an installation for generating a three-phase AC voltage to be fed into a power supply system, having at least one turbine, at least one three-phase generator driven with the turbine, wherein a generator rotor of the three-phase generator is coupled to a turbine rotor of the turbine in a rotationally fixed manner, at least one transformer which is electrically connected to the three-phase generator on the output side and can be used to convert a first three-phase AC voltage which is generated by the three-phase generator and has a first voltage level and a first frequency into a second three-phase AC voltage having a second voltage level, which is lower than the first voltage level, and the first frequency, and at least one frequency converter which is electrically connected to the transformer on the output side and can be used to supply a rotor winding of the generator rotor with a third three-phase AC voltage and can be used to convert the second three-phase AC voltage having the second voltage level and the first frequency into the third three-phase AC voltage having the second voltage level and a second frequency which is lower than the first frequency, wherein the frequency converter is designed or can be controlled and/or regulated in such a manner that the second frequency corresponds to a difference between a mains frequency of the power supply system and the first frequency.

IPC 8 full level

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