

Title (en)

WIND FARM COMPRISING A POWER FLOW UNIT, AND SUCH A POWER FLOW UNIT

Title (de)

WINDPARK MIT EINER LEISTUNGSFLUSSEINHEIT SOWIE EINE SOLCHE LEISTUNGSFLUSSEINHEIT

Title (fr)

PARC ÉOLIEN DOTÉ D'UNE UNITÉ DE FLUX DE PUISSANCE ET UNITÉ DE FLUX DE PUISSANCE DE CE TYPE

Publication

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Application

**EP 19758400 A 20190822**

Priority

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- EP 2019072482 W 20190822

Abstract (en)

[origin: WO2020052936A1] The invention relates to a wind farm (1000) for supplying electric power to an electric supply grid (2000), having a supply grid voltage (U\_Netz), a supply grid nominal voltage (U\_Netz\_Nenn), a supply grid frequency (f\_Netz), and a supply grid nominal frequency (f\_Netz\_Nenn). The wind farm comprises: a plurality of wind turbines (1100), an electric wind farm grid (1200) which connects the plurality of wind turbines (1100) and has a wind farm voltage (U\_Park), a wind farm nominal voltage (U\_Park\_Nenn), a wind farm frequency (f\_Park), and a wind farm nominal frequency (f\_Park\_Nenn), and a power flow unit (1300), which is designed to connect the electric wind farm grid (1200) and the electric supply grid (2000) together such that an electric power (P\_WEA) generated by the plurality of wind turbines (1100) can be supplied to the electric supply grid (2000), wherein the power flow unit (1300) has at least: a DC intermediate circuit (1340) which is designed to conduct at least the electric power (P\_WEA) generated by the plurality of wind turbines (1100), an electric energy store (1370) which is connected to the DC intermediate circuit (1340), an inverter (1350) which is connected to the DC intermediate circuit (1340) and is designed to supply at least the electric power (P\_WEA) generated by the plurality of wind turbines (1100) to the electric supply grid (2000), and a control unit (1390) which is designed to actuate at least the inverter (1350) such that statically and dynamically, the wind farm (1000) appears as an electromechanical synchronous machine on the electronic supply grid (2000).

IPC 8 full level

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Citation (search report)

See references of WO 2020052936A1

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DOCDB simple family (application)

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