

Title (en)

ELECTROSTATIC GENERATOR ELECTRODE-CENTERING AND SEISMIC-ISOLATION SYSTEM

Title (de)

SYSTEM ZUR ELEKTRODENZENTRIERUNG UND ZUR SEISMISCHEN ISOLIERUNG EINES ELEKTROSTATISCHEN GENERATORS

Title (fr)

SYSTÈME DE CENTRAGE D'ÉLECTRODE DE GÉNÉRATEUR ÉLECTROSTATIQUE ET D'ISOLATION SISMIQUE

Publication

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Application

EP 20905653 A 20201223

Priority

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Abstract (en)

[origin: WO2021133991A2] Robust electro-static (ES) device embodiments, with application to energy storage flywheels as an example, are described that provide reliable, high-efficiency operation in the presence of thermal and mechanical perturbations, as well as seismic events. Electro-static generators and motors, when augmented with magnetic bearings, passive three-dimensional stabilization techniques and dynamic touch-down bearings, enable robust performance in the face of these environmental concerns, as well as efficient operation during typical operational sequences, including spin-up and steady-state modalities.

IPC 8 full level

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