



Fixed Gap Capacitive Power Transfer Coupling For Wound Field Synchronous Machines

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The Invention

An electrical rotating machine, such as a generator or motor, communicates power from a stationary location to the rotating rotor of the rotating machine via opposed pairs of capacitor plates, one plate of each pair rotating with the rotor and one plate of each pair fixed not to rotate. Larger plate gaps suitable for mechanically rigid plates are possible through high-voltage and high-frequency AC signals managed by using a dielectric support design for the capacitor plates minimizing dielectric loss and/or impedance matching on the rotor.

Additional Information

For More Information About the Inventors

- [Daniel Ludois](#)

Tech Fields

- [Engineering : Electric machines](#)

For current licensing status, please contact Emily Bauer at emily@warf.org or 608-960-9842