

Uncluttered Flux Coupling Machines

Disclosure Number

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Technology Summary

The invention relates to electric machines and more specifically to an uncluttered flux coupling machine for replacing doubly fed brush in wind turbine generators. The conventional doubly fed, brush-type, rotating-inverter generator can be replaced by this technology. It has the following advantages: No slip rings and brushes; No rotating inverter; Easy maintenance; Stationary coils for good cooling and low stress; No permanent magnets; and Low cost. The technology can be further expanded to cover the replacement of brush-type synchronous machines, PM machines to Brushless and PM-less machines.

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