

Title (en)
WIND TURBINE

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WINDTURBINE

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ÉOLIENNE

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Abstract (en)
[origin: WO2019022595A1] The invention provides a wind turbine, comprising: - a turbine rotor comprising a set of turbine rotor blades and defining a rotor rotational axis, said turbine rotor mounted on a tower; - a gearbox, drivingly coupled to said turbine rotor and having an output end for in operation increasing an output end rotational speed; - an electrical generator for converting mechanical energy of said turbine rotor into electrical energy, said electrical generator mounted at an end of said tower near said rotor rotational axis and comprising a first generator rotor and a second generator rotor having an air gap between them and mounted rotatable with respect one another for converting rotational motion into electrical energy; - a transmission system comprising: * an outer drive shaft and an inner drive shaft concentric within said outer drive shaft; * a drive shaft gear system coupling said inner drive shaft and said outer drive shaft to said gearbox with their rotational axes functionally perpendicular to said rotor rotational axis, wherein said drive shaft system comprises a drive shaft gear drivingly coupled with said gearbox and said drive shaft gear engaging a first drive gear on said inner drive shaft, and engaging a second drive gear on said outer drive shaft, and arranged for in operation rotating said inner and outer drive shaft opposite to one another, and wherein one of said inner drive shaft and said outer drive shaft is drivingly coupled to said first generator rotor and the other of said inner drive shaft and said outer drive shaft is drivingly coupled to said second generator rotor.

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