

Title (en)  
WIND TURBINE AND METHOD FOR GENERATING ELECTRICAL ENERGY

Title (de)  
WINDTURBINE UND VERFAHREN ZUR ERZEUGUNG VON ELEKTRISCHER ENERGIE

Title (fr)  
TURBINE ÉOLIENNE ET PROCÉDÉ DE PRODUCTION D'ÉNERGIE ÉLECTRIQUE

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Application  
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Abstract (en)  
[origin: CA3015970A1] The present invention relates to a wind turbine (1) comprising an inner corpus (3) that has a cylindrical main body (301) with a hub (307) attached upstream and a generator (303) arranged in the cylindrical main body (301), an outer corpus (5) that has a housing jacket (501) and, arranged in the housing jacket (501), at least one funnel component (503) of which the cross section decreases in the flow direction, and a cap component (505) arranged downstream in the housing jacket (501), at least one bearing rib (7) that connects the inner corpus (3) to the outer corpus (5), and a working turbine (9) which is arranged at the downstream end of the inner corpus (3), is connected to the generator (303) and has a rotor (901), wherein the outer corpus (5) forms, with the inner corpus (3), at least one convergent portion (507) that extends over the length of the inner corpus (3), and wherein the outer corpus (5) then forms a divergent portion (509) at the downstream end of the inner corpus (3). The present invention also relates to a method for generating electrical energy from an air stream, using the wind turbine (1) according to the invention.

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