

# Wind tube power generation patent application flow chart

What is a VAWT windmill?

Unlike horizontal axis (propeller-type) windmills, VAWTspivot about a long vertical axis, such that they may face directly into a wind. A VAWT, therefore, can harness wind energy from large columns of air, making them practical for power generation in low and moderate winds.

What is a vertical axis wind turbine (VAWT)?

A vertical axis wind turbine (VAWT) with improved and optimized wind-directing, wind-shaping, and wind-power conversion features is disclosed. The shapes of these features directly affect the ability of the VAWT to use the power of moving air, such as wind, to spin a rotor and create torque on a rotor shaft to generate electricity.

Are wind-driven power-generating devices effective under all conditions?

In particular, this variability makes it difficult to construct wind-driven power-generating devices that are effective and efficient under all wind conditions.

Can a wind turbine harness high winds for power production?

Conversely, by way of non-limiting example, the device disclosed in U.S. Pat. No. 5,391,926 to Staley et al. can harness high winds for power production, but is not capable of generating adequate torque for continual, reliable power generation in low or moderate winds.

What is a diffuser augmented wind turbine?

U.S. Patent Application Publication No. 2014/0227092, entitled "Diffuser augmented wind turbines," published 14 Aug. 2014 to Wood ("Wood II"). Wood II describes a wind turbine diffuser with an expanded outlet area in which the diffuser outlet area is greater than its cross sectional area.

What are the parts of a vertical axis wind turbine?

As illustrated in FIG. 1A, vertical axis wind turbines according to the present disclosure comprise five parts: a stator skirt 110, at least one stator fin 120, at least one rotor plate 130, at least one rotor blade 140, and a top frame 150. Additional parts may be, but need not be, present to fall within the scope of the present disclosure.

In this article, we have summarized the application of the MPC technology in the prediction and control of wind power in a wind farm, analyze the application of the MPC ...

2010-05-19 Priority to US12/800,671 priority Critical patent/US8347628B2/en 2010-05-19 Application filed by Individual ... It is necessary that there is sufficient energy in the air stream ...

A submarine cable cooling system for offshore wind power generation equipment, A protection tube installed

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in an offshore wind power generation facility, with the upper part exposed to the ...

A tube-type wind power generator includes an intake tube, an exhaust tube and a wind power generation device. The intake tube has a first end, a second end and an intake air channel, ...

The distribution for modeling solar power [34] and wind power [32] is constructed using different shape and scale parameter values, as shown in Table 5. The plants have been sized on the ...

In alternative embodiments, the system can be used in a multi-zone application or to provide cooled air and water to a building. An embodiment primarily for use as an air ...

the Roof Dynamo exterior shell consists of a known design made out of aluminum or a composite material. This "wind turbine" or "whirly bird" design already exists on many homes. This "better ...

An omni-directional wind turbine electric generation system including a wind rotor carrying wind responsive vanes which on one surface exert an aerodynamic lifting force and on the other a ...

A hybrid solar/wind turbine apparatus, which includes a blade and shelf assembly configured to provide wind impulsion and wind capture. The blade and shelf assembly are located between ...

Seeking a patent is not a file it and forget it endeavor. Instead, it involves a process where work is likely required in multiple phases. The process of obtaining a utility patent in the US generally involves novelty searching, ...

Hence, this study demonstrates the potential for wind energy in the Kuakata region and suggests a wind farm at a wind speed of 7 m/s at a height of 120 m to produce 60 MW of power for the ...

In order to verify offshore wind farm jacket grouting process method in the present invention, carry out Xiangshui County's offshore boosting station jacket and fill Slurry experiment. Jiangsu ...

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