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Patent Search

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Abstract:

The present invention discloses an IoT based wind energy generation system and method thereof. In the present invention, an IoT based resistance heater that can be powered by electricity from the generator; an IoT switch means actuable in response to the amount of electricity created by the generator for applying electricity to said resistance heater and further, blades mounted to rotate a shaft of the generator in response to wind and create electricity. Further, a heat exchanger in IoT environment using the heat fluid to produce steam; a steam-powered electricity generator with IoT connectivity for generating electricity with the steam during times when wind speed is insufficient to generate enough electricity to meet demand. thermal fluid heated by said resistance heater for storing wind energy. Accompanied Drawing [FIGS. 1-2]

Complete Specification

Description:[001] The present invention relates to the field of the wind energy generation, with novel techniques, methods and apparatus. The invention more particularly relates to an IoT based wind energy generation system and method thereof.

BACKGROUND OF THE INVENTION

[002] The following description provides the information that may be useful in understanding the present invention. It is not an admission that any of the information provided herein is prior art or relevant to the presently claimed invention, or that any publication specifically or implicitly referenced is prior art.

[003] Further, the approaches described in this section are approaches that could be pursued, but not necessarily approaches that have been previously conceived or pursued. Therefore, unless otherwise indicated, it should not be assumed that any of the approaches described in this section qualify as prior art merely by virtue of their inclusion in this section.

[004] With the advent of the fossil energy crisis and the rise in environmental consciousness, nations throughout the world have recently competed for large-scale development opportunities in the production of clean, replicable electricity from the wind. In order to ensure the safe and reliable operation of a wind power generation set, it is frequently necessary to monitor the wind power generation unit in real time for equipment failures that may otherwise prohibit it from producing electricity from the wind. Currently, wired monitoring equipment is mostly used to monitor wind-powered electricity producing units. Practice demonstrates that wired monitoring equipment is limited by self-structure and the following ubiquity problem: One is that wired monitoring equipment utilizes cable to transmit data, which increases the complexity of sensor installation and network architecture. Due to cable's potential to interfere with the data gathering process, its two connected monitoring devices use cable to transmit data, which lowers the accuracy of its data acquisition. Its three wired monitoring devices use cable to transmit data, which raises the cost of monitoring.

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Application Details

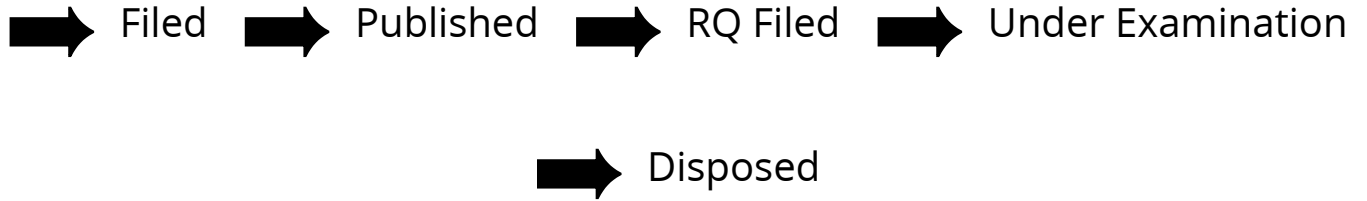
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