

Wind tube power generation patent

The wind power generator of the present invention having such a configuration uses the venturi effect of the venturi tube and the exhaust effect of a natural exhaust fan to smoothly introduce ...

The power generation system 1 includes: a power generation unit including a wave power generator 11; a power storage unit 40 accumulating electric power obtained by the power generation unit; a production unit 51 producing at least one of hydrogen and an organic hydride based on the electric power obtained by the power storage unit; and a tank 53 located ...

To improve power generation efficiency of a gyro-mill type vertical axis wind turbine. SOLUTION: A cylindrical wind collection unit 110 comprises a wind inflow port 111, a wind outflow port 112 and a wind guide wall 120, and in the cylindrical wind collection unit, a gyro-mill type wind turbine 130 is arranged as an energy conversion unit 150.

A wind-tunnel wind power generation device 10 with improved power generation consistency, efficiency and device maintainability, said wind power generation device comprising a wind ...

An H-type wind turbine is also used as a tail rudder of a clover wind turbine with a horizontal axis. A group of H-type second leaf double-layer wind turbines and B group of H-type second leaf double-layer wind turbines and an inverted V-shaped baffle 7 are arranged at a Y frame 6; the other end of the Y frame 6 is arranged at a tower bearing 8; two pull rods 6a are arranged and ...

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 blocking force both of which exert a torque in the same rotational sense, and an electric generator directly connected to said wind rotor and coaxial therewith, without transmission means ...

This invention relates to a Compressed Air Turbine-Generator, or CAT-G that will enable the ability to manage energy gathered from ecologically friendly sources, such as solar and wind power. Compressed Air Energy Storage, (C.A.E.S.), is a promising mode of clean energy storage. A major challenge facing this technology is the need to efficiently convert the compressed air ...

The first in operation is Vortex Nano. With a height of 1 m and a power output of 3 W, this small model generates power efficiently, working with solar panels. The second is Vortex Tacoma. Standing at a height of 2.75 m with a power output of 100 W, the model is intended to be used for residential self-generation and farmlands.

AeroMINE (Motionless INtegrated Extraction) patent-protected wind energy harvesters offer safe, distributed

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electricity generation with no external moving pa...

The analysis of published patent applications shows there has been an increase from approximately 9,000 global wind patent filings per year in 2016, to over 12,000 per year in 2021, according to intellectual property firm ...

The wind power generation systems utilize a propeller disposed behind a contracting inlet. The propeller blades may be oriented "into the wind" to develop consistent torque across a variety of wind speeds. The propeller may rim-drive power generation components, further reducing vibration, or may share a common rotational axis with the ...

Equipment for power transmission and distribution adopts copper cable or rectangular aluminium bus groove structure more in the existing wind turbine generator tower tube: the cost of copper cable is higher, and per 5 years needs of designing requirement are changed once; Defectives such as rectangular aluminium bus groove structure exists that heating is many, complex ...

The invention relates to a man-made wind power plant which comprises a fan motor, a fan generator, a storage battery, a wind box, a switch and leads, etc. The plant is formed by that strong air current produced by the fan motor operating at high speed in the wind box drives the fan generator into rotation at high speed to generate electric power.

Patent name Wind power generation system Patent number 6621975 Summary of patent content ?assignment? The purpose of the present invention is to provide a stable power supply system equipped with a generator that can be used not as an emergency power source but as a permanent power source.

Patent number 7030511 Summary of patent content ?assignment? An object of the present invention is to provide a wind power generation system for a mobile body that has high conversion efficiency from wind power to rotational energy and high durability. [Solution]

The power generation system 300 includes a grid 301 for example corresponding to the grid 18 and a wind power plant 302. The wind power plant comprises a plurality of wind turbine generators 303 for example corresponding to the wind turbine 100 and the power generation system 200 without the grid 18.

A wind power generation device having at least a duct formed so that a longitudinal section cut along a central axis forms a substantially streamlined shape, an impeller disposed in the duct, and a generator that generates electricity by rotation of the impeller; A wind direction anemometer installed to be able to measure the wind direction and wind force near the power generation ...

The tube-type wind power generator is provided with effects of gathering air stream and lifting air speed, can facilitate rotation of the axial-flow type impeller in the intake air channel,...

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A wind power current generator has an arrangement of bearings (2) and a stator (3) fixed to the arrangement of bearings. A rotor (4) can rotate in relation to the stator. A hub (5) connects to the rotor. Two blades extend radially away from the hub. Tubular sections that are concentric to one another form the stator and the rotor. On the opposing surfaces of the tubular sections there ...

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 new energy (wind tunnel magnetic levitation single permanent magnet generator system) disclosed by the invention is charged one time to serve as a basic power source, so that a power motor drives an automobile to run; when the automobile driving wind speed is 5.8m/s, a shunting body accelerates the wind wheel (6) to rotate by sucking wind via the wind tunnel; after the ...

Wind power generation systems generate power by transmitting the rotating power of blades via the rotation of a hub, which supports the blades, to a main shaft and thereby rotating a generator. A conventional wind power generation system is described in JP 2001-200781 A, for example.

PATENT PROSPECTION IN WIND POWER GENERATION TECHNOLOGIES FOR USE IN URBAN AREAS. July 2022; International Journal of Innovation 10(Technology transfer in innovation):555 - 573;

A wind-tunnel type power generator includes an outer cover, a turbine rotor, an air escape valve, and at least a rear fin. ... 2007-07-19 Publication of US20070164571A1 publication Critical patent/US20070164571A1/en 2009-01-20 Application granted granted Critical 2009-01-20 Publication of US7479709B2 publication Critical patent/US7479709B2/en

14. A wind power plant comprising: a plurality of wind turbines connected with an internal grid, wherein the plurality of wind turbines comprises a first wind turbine comprising: a rotor shaft coupled to an electrical generator that generates a power output at a first AC voltage level; a converter system that converts the power output of the electrical generator at the first ...

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