run individually and output synchronously kinetic mechanical energy and power generating energy, the exciting winding changes phases and is electrically conducted by a DC brushless drive controller to drive the rotor to operate.

According to the above-mentioned kinetic power generation unit, the DC brushless drive controller has an input terminal coupled to a storage battery; a power output terminal of the kinetic power generation unit is coupled to a rectifier, and further coupled to the storage battery for charging the storage battery after an outputted alternating current is rectified, and an AC power passing through a voltage regulator and a transformer is outputted for use; and the after power is supplied for use after the rotor is rotated.

According to the above-mentioned kinetic power generation unit, a plurality of the kinetic power generations is provided and configured in a manner of sharing the coaxial rotors.

According to the above-mentioned kinetic power generation unit, the exciting coil winding of the electric motor and the field winding of the power generator are a single phase or the three-phase configuration; the three-phase configuration uses a △ connection, wherein a connection point of the exciting coil winding of the electric motor between the phases is a three-phase alternating current output point, deriving the counter electromotive force of the electrical motor; the center point of each coil winding is a phase voltage input point; the field winding of the power generator is the power output point, thereby completing the configuration of the three-phase coil winding.

According to the above-mentioned kinetic power generation unit, the exciting coil winding of the electric motor and the field winding of the power generator are a single phase or the three-phase configuration; the three-phase configuration uses a Y connection, wherein an end point on each phase of the exciting coil winding of the electric motor is a power output point, deriving the counter electromotive force of the electric motor; a center point of the exciting coil winding is in a △ connection, and

series with each other and installed coaxially with the same rotor 20 to increase the output and electric power.

In an embodiment of the present invention, the exciting coil winding 12a of the electric motor 1a and the field winding 12b of the power generator 1b of the kinetic power generation unit 1 are a single phase or the three-phase configuration; the three-phase configuration uses a three-phase coil winding of a △ connection as shown in FIG. 4, and wherein, a connection point a, b, c between phases of the exciting coil winding of the electric motor 1a is an output point of the three-phase alternating current (that is, the voltage output point of the counter electromotive force); and a center point A, B, C of each coil winding is a voltage input point and the field winding of the power generator uses the △ connection which are all the voltage output points, thereby completing the configuration of the three-phase coil winding.

In an embodiment of the present invention, the exciting coil winding 12a of the electric motor 1a and the field winding 12b of the power generator 1b of the kinetic power generation unit 1 are a single phase or the three-phase configuration; the three-phase configuration uses a three-phase coil winding of a Y connection as shown in FIG. 5, and wherein an end point a, b, c on each phase while the Y connection applying to the exciting coil winding 12a is a power output point; a center point of the coil winding is in a △ connection, and a center points A, B, C of the △ connection are voltage input points, and the center point A, B, C are voltage output points while the Y connection applying to the field winding 12b of the power generator 1b, thereby completing the configuration of the three-phase coil winding.

In an embodiment of the present invention, the exciting coil winding 12a of the electric motor 1a and the field winding 12b of the power generator 1b of the kinetic power generation unit 1 are the △&Y connections configurations; the three-phase configuration uses a three-phase coil winding of the △&Y connections as shown in

FIG. 6. The Y connection as shown in FIG. 5 is configured inside the △ connection as shown in FIG. 4, and the end point in each phase of the Y connection is coupled to the connection point a, b, c between phases of the △ connection, and the connection point a, b, c between phases of the △ connection is a three-phase alternating current output point (that is, the voltage output point of the counter electromotive force), and the center points A, B, C of each coil winding of the △ connection are the phase voltage input points, and the field winding 12b of the power generator 1b are voltage output points, thereby achieving the joint combination effect.

The DC brushless drive controller 40 sequentially changes phases of the exciting coil winding of the electric motor 1a of the kinetic power generation unit 1 and sends the phase to the phase voltage. In an embodiment as shown in FIG. 7, the Y connection is adopted, and A~B, B~C, and C~A are electrically conducted sequentially, so as to achieve the effect of sequentially changing phases and electrically conducting the coil winding.

In summation, the present invention complies with the patent application requirements, and thus is duly filed for patent application. While the invention is described in some detail hereinbelow with reference to certain illustrated embodiments, it is to be understood that there is no intent to limit it to those embodiments. On the contrary, the aim is to cover all modifications, alternatives and equivalents falling within the spirit and scope of the invention as defined by the appended claims.

REFERENCE NUMBERALS IN DRAWING FIGURES

Kinetic power generation units 1, 2, 3

Electric motor 1a

Power generator 1b

Stator 10

WHAT IS CLAIMED IS:

1. A kinetic power generation unit, comprising an exciting coil winding of an electric motor and a field winding of a power generator installed alternately into a wire slot of a stator to constitute a same magnetic field, and the exciting coil winding and the field winding are composed of a plurality of enameled wires; a rotor installed in the stator, shared by the electric motor and the power generator, and installed coaxially with respect to each other, so that the rotor of the electric motor and the rotor of the power generator rotate in the same direction, and the exciting winding changes phases and is electrically conducted by a DC brushless drive controller, after inputting power, the exciting coil winding generates a coupling magnetic field to drive the rotor to operate, and meanwhile the field winding derives a power generating energy to output due to the rotation of the rotor; the kinetic power generation unit is a single phase or a three-phase configuration; the three-phase configuration uses a △ connection, and a connection point of the coil winding between phases is a three-phase alternating current output point; the center point of each coil winding is a phase voltage input point, wherein the output point of the exciting coil winding of the electric motor is an output point derived by a counter-electromotive force voltage, the input point of the exciting coil winding of the electric motor is an input point of power and each end point of the field winding of the power generator is the power output point of the induction power generation of the single-phase or three-phase so as to complete the configuration of the single-phase and three-phase coil winding.

2. A kinetic power generation unit, comprising an exciting coil winding of an electric motor and a field winding of a power generator installed alternately in a wire slot of a stator to constitute a same magnetic field, and

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the exciting coil winding and the field winding are composed of a plurality of enameled wires; a rotor installed in the stator, shared by the electric motor and the power generator, and installed coaxially with respect to each other, so that the rotor of the electric motor and the rotor of the power generator rotate in the same direction, and the exciting winding changes phases and is electrically conducted by a DC brushless drive controller, after inputting power, the exciting coil winding generates a coupling magnetic field to drive the rotor to operate, and meanwhile the field winding derives a power generating energy to output due to the rotation of the rotor; the kinetic power generation unit is a single phase or a three-phase configuration; the three-phase configuration uses a Y connection, and an end point of the coil winding of each phase is a power output point; a center point of the coil winding is in a △ connection, and the center point of the △ connection is a phase voltage input point, wherein the output point of the exciting coil winding of the electric motor is an output point derived by a counter-electromotive force voltage, the input point of the exciting coil winding of the electric motor is an input point of power and each end point of the field winding of the power generator is the power output point of the induction power generation of the single-phase or three-phase, so as to complete the configuration of the single-phase and three-phase coil winding.

3. A kinetic power generation unit, comprising an exciting coil winding of an electric motor and a field winding of a power generator installed alternately in a wire slot of a stator to constitute a same magnetic field, and the exciting coil winding and the field winding are composed of a plurality of enameled wires; a rotor installed in the stator, shared by the electric motor and the power generator, and installed coaxially with respect to each other, so that the rotor of the electric motor and the rotor of the power generator rotate in the same direction, and the exciting winding changes

phases and is electrically conducted by a DC brushless drive controller, after inputting power, the exciting coil winding generates a coupling magnetic field to drive the rotor to operate, and meanwhile the field winding derives a power generating energy to output due to the rotation of the rotor; the kinetic power generation unit is a single phase or a three-phase configuration; the three-phase configuration uses a combination of △&Y connections, and an end point of the Y connection in each phase is coupled to connection point between phases of the △ connection, and the connection point between phases of the △connection is a three-phase alternating current output point, and the center point of each coil winding of the △ connection is a phase voltage input point, wherein the output point of the exciting coil winding of the electric motor is an output point derived by a counter-electromotive force voltage, the input point of the exciting coil winding of the electric motor is an input point of power and each end point of the field winding of the power generator is the power output point of the induction power generation of the single-phase or three-phase.

4. The kinetic power generation unit as claimed in claim 1 or 2 or 3, wherein the DC brushless drive controller has an input terminal coupled to a storage battery; a power output terminal of the kinetic power generation unit is coupled to a rectifier , and further coupled to the storage battery for charging the storage battery after an outputted alternating current is rectified, and an AC power passing through a voltage regulator and a transformer is outputted for use; and after power is supplied for use after the rotor is rotated.

5. The kinetic power generation unit as claimed in claim 1 or 2 or 3, wherein the kinetic power generation unit comes with a plurality quantity, and the kinetic power generation units are shared by the rotor and coaxially

installed with respect to each other.

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