

Euler's Generator Concept VI

(尤拉發電系統概念 VI)

(A mechanism for generation of electricity which enlist the effect of Lenz's Law into aiding the production of electricity)

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Background/Development of Idea:

Since it is possible to interchange the roles of iron core.(As a coil to produce electricity via Lenz's Law, or as a core to attract or amplify the passing Magnetic flux line.) We could then make Generator oblivious to the effect of Lenz's Law.

Summary & Discussion:

This invention is consists of the following components:

- A. Rotor carrying either stable persistent sources of Magnetic field, or generating coils.
- B. Stator carrying either generating coils or stable persistent sources of Magnetic field.
- C. A rotatable axis for A to rotate around a central axis.

(A&B are arranged in such a way that the instantaneous Magnetic pole produce by generating coils are facing the Magnetic pole from the Magnet or source of Magnetic field directly. i.e. Maximized Magnetic flux line cutting by the coils.)

- D. An output mechanism for output the electricity produced by the generating coil.
- E. A source of kinetic energy to start the rotary motion of A.

However, the generating coils are made of the following components:

- A. Copper wire winded like electromagnet.
- B. An iron core mounted in the center of the circles made by A.
- C. A dynamic electrical circuit completer.

The process and mechanisms are as the following:

Assuming in this instance of implementation that it is the rotor to carry the source of Magnetic field or Magnet, and the stator carry the generating coils.

A source of kinetic energy first push the rotor carrying the Magnet into rotary motion.(For instance, a Motor) As the Magnet approach the generating coils, the Dynamic electrical circuit completer are in the state of no-connection, thus a net attractive force is produced between the iron core and the Magnet. Therefore, a propulsion force toward the generating coil is pushing the Magnet toward the iron core and the generating coil. However, the effect of Lenz's Law would produce an repulsive force force between the coils and the Magnet. Thus the net force toward the generating force is reduced. Electricity is also produce as a result.

As the Magnet begin to move away from the generating coils, the Dynamic electrical circuit completer complete an electrical circuit between the iron core and the generating coil. The electrical circuit completed in such a way that two emfs directed toward the same direction cancel out each other's effect. Since the iron core now function as a iron coil, it produce electrical current through Lenz's Law. Therefore the emf of the iron core and the generating coil are in the same direction. Thus the purpose and the intended effect of the Dynamic electrical circuit completer is to ensure any emf produced by both the

coil and the iron core neutralize each other. When their emf cancel out each other's effect, no electrical current would flow in either component. When there is no electrical current flowing, there can be no effect of Lenz's Law on each component. Thus, there will not be any force to resist the departure of the Magnet or source of Magnetic field like traditional generator design.

We could switch the role of rotor to stator without affect any of the processes and mechanisms and the result since the above processes and mechanisms take place whatever the relative distance between Magnet and generating coil change. And the change of relative distance could be by any method.

Claim:The system in its entirety with at least all its essential components each for the purpose stated above and together as a whole for the purpose of generating electrical energy with lesser kinetic energy spent to fight against the effect of Lenz's Law.

Related Claims:

Applications:

Non-Dragging Generator

Advantages:

1. Possibility to reduce Lenz's Law's effect on the Generator to zero through attraction between iron core and Magnet.

Technicalities:

1. The presence of more than one pair of Magnet and generating coils complicate the picture of individual pair of Magnet and generating coil.
2. The match of action of Dynamic Electrical Circuit Completer and the relative motion between Magnet and generating coils.
3. The output of electricity is halved.