

DOUBLE CYLINDER ENGINE FREE POWER GENERATION

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ABSTRACT

The need and advancements of electricity is well known, the problem with the electricity now available in the market is that they are expensive, this are difficult middle for class masses to afford, which from the most percentage of the country's population. The best solution is to create a technology that can convert the already used double cylinder engine into electricity. The double cylinder engine is a newly found green technology that focuses on running the engine using magnet. it describes an engine that works on principal of repulsion of two different types of magnet, i.e., a permanent magnet and electro magnet.

I. INTRODUCTION

Double-acting cylinder have a port at each end and move the piston forward and back by alternating the port that receives the high pressure .air Necessary .when aload must be moved in both dire ctions such a sopening and closing agate Airpres sureis applied alternative to the opposite ends of the piston A double-acting cylinder is bidirectional and can seal dynamic pressure from both sides. An excavator is one example. When digging a trench, the excavator's arm is first pushed in one direction by extending the rod. Then it is pulled down in another direction by retracting the rod. When looking for a device to move load in both directions, double acting cylinders are a useful application when your machine requires more than one movement. Unlike single acting air cylinders, double acting cylinders can extend and retract without the need of aspring. The mechanical energy is converted into electrical energy by generators, the important elements of the generators are themagnetic field and the motion of the conductor in a magnetic field. The free energy generator is adevice, which is used to generate electrical energy based on the neodymium magnets principle. There are different types of generators in different sizes, in that free energy generator is one type of generator which generates electrical energy. This article discusses an overview of the free energy generator which includes its definition,advantages, disadvantages and its applications. Derivation: The free energy generator is one type of device which is used to generate electrical energy and it works on the principle of neodymium magnets. Some of the free energy generator

II. LITERATURE SURVEY

Nikola Tesla (10th July 1856-7th January 1943) invented free energy by using a coil. The mechanical energy is converted into electrical energy by generators, the important elements of the generators are the magnetic field and the motion of the conductor in a magnetic field. The free energy generator is a device, which is used to generate electrical energy based on the neodymium magnets principle. There are different types of generators in different sizes, in that free energy generator is one type of generator which generates electrical 2 energy. This article discusses an overview of the free energy generator which includes its definition,advantages,disadvantages and its applications. Even though the Tesla Coil must be hooked up to a power supply, theoretically, the Tesla Coil could be very efficient and sustain much energy development for little input. Therefore, it has been referred to as "free energy", although it is acknowledged that it is not entirely free, because some equipment and a power supply is needed. Modern efforts to use the Tesla Coil have culminated into the humanitarian movement called the "Fix the World Project". Their mission is to "focus on projects dealing with energy access, economic hardship, and basic humanitarian aid"

III. WORKING

The neodymium magnets are strategically placed on base plates with their like poles facing each other. Thus, a repulsive force is generated between the poles, causing the shaft of the DC motor to rotate continuously. This rotation generates electromagnetic field and electric current is induced in the conductor. The entire system design include the free energy generator, the charge controller, and the inverter system as shown in Figure 1.The free energy generator comprises of an arrangement of neodymium magnets to produce the energy needed by the output load. The neodymium magnets are strategically placed on base plates with their like poles facing each other. Thus, a repulsive force is generated between the poles, causing the shaft of the DC motor to rotate continuously. This rotation generates electromagnetic field and electric current is induced in the conductor. The

induced energy is supplied to the load (a 12-volt battery) via the charge controller. The battery is charged and the charge voltage is regulated by the controller. The inverter system converts the input DC voltage into an AC voltage. Figure 1: Block Diagram of the Free Energy Generator and Inverter System

A. Neodymium Magnets
 Neodymium magnets are the most widely used type of rare-earth magnets. They are permanent magnets made from alloy of neodymium alloy, iron and boron to form the Nd₂Fe₁₄B tetragonal crystalline structure. They are the strongest type of permanent magnet commercially available and have replaced other types of magnet in the many application areas such as motors in cordless tools, hard disk drives and magnetic fasteners. There are two rare earth magnets: neodymium iron boron and samarium cobalt. Although neodymium iron boron is similar to samarium cobalt, the former is more easily oxidized and does not have the same temperature resistance. Neodymium iron boron is mechanically stronger than samarium cobalt magnets, and it is also weightier than ceramic or alnico. However, it produces the highest amount of flux per unit of volume or mass, making it more economical for a number of applications. Alnico is the trade name for an alloy used to make high energy permanent magnets; it contains aluminium, iron, nickel with either cobalt, copper or titanium. has a very high energy product and a very high coercive force. The temperature stability is quite moderate. This work utilized this type of magnet because of their strength. Their long lifespan is an advantage to keep the rotor rotating continuously over a very long period



Fig.1

IV. PROJECT MODEL



Fig no. 2 Final Model

Components –

- Cylinder
- Permanent magnet
- Neodymium magnet

- Crank
- Piston
- Bearing
- DC motor
- Clamp
- Socket
- Wood
- Screws
- Spoke
- Glow gun
- M-seal
- Gear
- Wire
- Electric board
- Bulb
- Nail
- Socket
- Plastic cap
- Paint

IMAGES



Fig no. 3 DC Motor



Fig no. 4 Piston



Fig no. 5 Socket



Fig no. 6 Panting



Fig no. 7 Neodymium Magnet



Fig no. 8 Permanente Magnet



Fig no. 9 Clamp & Screw **Fig no. 10** Nail



Fig no. 11 Spoke



Fig no. 12 Super Gear



Fig no. 13 Bearing

Advantages -

- Reduced environmental impact:
- Compact design
- Simpler operation mechanism
- Durability
- User-friendly in operations
- Low noise during operations
- Low emission levels
- Easy to operate
- Low cost
- Availability of material
- Free electricity generate
- Simple in construction
- No labour cost
- Easy to transport
- External power supply not requirement

Disadvantage -

- The high cost of permanent magnets
- Magnet corrosion and possible demagnetization
- Noise and vibration

Application -

- The application of the free energy generates are
- Used to charge to Battery
- Used in Vehicle
- Used in LED'S and bulbs
- Escalator
- Electric road Vehicle
- Easytooperate
- lowcost Availability of material
- Free electricity generate
- Simple in construction
- No labour cost
- Easy to transport

External power supply not requirement Future Scope –

This free Energy can be used to charge small Li-Ion batteries of high voltage & low current, which are used for other applications. The Free energy generator can be used to power up small led's & bulbs on vehicles. There are many applications of the free energy generator which are yet to discover Generators are useful appliances that supply electrical power during a power outage and prevent discontinuity of daily activities or disruption of business operations. Generators are available in different electrical and physical configurations for use in different applications. The scope of a double cylinder using free power generation project is to create a system that can generate electricity using two cylinders that are powered by free energy sources, such as wind or water. This system has the potential to provide sustainable and renewable energy for various applications, including small-scale power generation for homes or communities.

V. CONCLUSIONS

In conclusion, although Tesla's idea of free energy is attractive, his invention was never used. This appealing idea is getting more attention now, in light of energy conservation issues. Although the Fix the World Project is promoting the use of the Tesla Coil to solve world energy problems, many feel that they are a hoax, and their efforts are self-serving. In conclusion, free power generation using magnets has the potential to revolutionize the field of energy production by providing a clean, renewable, and sustainable source of energy. However, it is important to note that no perpetual motion machine has been successfully created, and the concept remains a theoretical possibility. Many researchers and inventors continue to work on the idea, and it is possible that breakthroughs will be made in the future. Until then, it is important to invest in existing renewable energy technologies such as solar, wind, and hydroelectric power to reduce our dependence on fossil fuels and mitigate the impact of climate change.

ACKNOWLEDGMENT

We would like to take this opportunity to express our honour, respect, deep gratitude and genuine regards to our guide Prof. V.S More whose invaluable guidance supported us in completing the project. We would like to thank to Prof. G.N. Wattamwar (H.O.D. of Mechanical Engineering Department) and Prof. V.B. Vakte (Project coordinator) for their moral support and able suggestion. Lastly we would like to thank to

Prof. A.R. Mirikar (Principal) for given us such opportunity. We are very thankful to our friends for their suggestion and co-ordination. We also express our indebted thank to our teaching and non-teaching staff of Mechanical Engineering Department, Sanjivani K.B.P. Polytechnic, Kopergaon.

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