

Magnetic Powered Engine

Prof. Sonawane V.P.¹ Sonawane P.S.² Somwanshi P.A.³ Maniyar M.Y.⁴ Vibhute M.V.⁵

¹BE Professor (Guide) ^{2,3,4,5}BE Students

^{1,2,3,4,5}Department of Mechanical Engineering

^{1,2,3,4,5}SNDCOE & RC Yeola, Maharashtra, India

Abstract— IC motor is measure and fundamental piece of a vehicle which deals with the warmth vitality delivered by a mix of fuel. Today innovation measurely deals with the non-renewable energy sources just and builds the quantity of motor or vehicles on street additionally contributing the increments in the rate of fuel utilization worldwide and inside couple of years the petroleum product a going to terminated, we have move for another option for regular IC motor .because of this vast utilization of IC motor contamination is likewise expands which is in charge of numerous wellbeing related issue for us. The principle point of this work is to ponder the different research done in past to supplant the fuel working IC motor by the attractive controlled Engine. Attractive controlled Engine is absolutely deal with the power gave by battery and in this manner spares the fuel and lessens fuel utilization rate and it doesn't produces any contamination or no hurtful gases are discharge in the environment. Produces environmentally friendly power vitality. It deals with the basic rule of attractive fascination and shock that same post of magnet repulse each other and inverse shaft of magnet pull in each other.

Key words: Magnetic Piston Engine

I. INTRODUCTION

IC Engine, one of the best creations of humanity, is a standout amongst the most critical components throughout our life today. It's most imperative application being in cars, trains, and planes. Our way of life today can't exist without an approach to commute. IC motors make utilization of gas and diesel. The populace is in the rising pattern; this implies increasingly the quantity of people, progressively the prerequisite of vehicles to drive. Consistently there are around 50 million cars being fabricated everywhere throughout the world, this circumstance is exceptionally horrid. With this ascent being used of petroleum derivatives, there emerges a need to change to elective wellsprings of fuel, to drive our motors. Be that as it may, the test is to create machines which have considerably higher efficiencies than what we make utilize today. The most adaptable type of vitality that is broadly utilized is power. Electric engines are supplanting existing IC motors quickly. Yet, the capacity of power holds a disadvantage, as a lot of vitality can't be put away. This requests our machines to have higher efficiencies, expending lesser vitality and creating more yield. With this rising need of changing to elective fills, and elective wellsprings of vitality, attraction demonstrates a splendid spot in the present situation. The improvement the attractive aversion cylinder motor alludes to the framework where the cylinder joined with a perpetual magnet is being pushed by an electromagnet, and again being pulled in.

The responding movement of the cylinder is changed over into rotational movement by the associating bar and wrench.

II. PROBLEM STATEMENT

The present framework the non-renewable energy source sources are quick exhausting and their burning are causes worldwide natural issues. In spite of the fact that contamination is controlled in ignition motor NOx gas level is expanded which prompts harm in ozone layer and furthermore by utilizing different innovation like Exhaust Gas Recirculation (EGR) to increment of CO2 in environment a dangerous atmospheric deviation happens . Since the utilization of petroleum derivative rate is expanded step by step at the time of 2050 the presence of non-renewable energy source reductions and prompts fuel shortage.

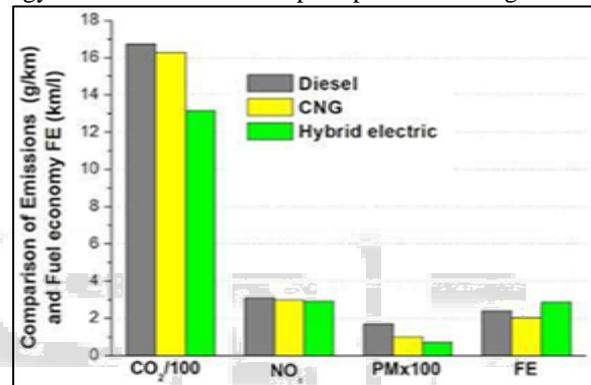


Fig. 1: Comparison of Discharge and Efficiency

Figure demonstrates the chart on correlation of emanation and mileage. There are three kinds of motors are chosen i.e. diesel, CNG and Hybrid electric which is electromagnetic motor. From the diagram we can infer that there is higher CO2 and NOx outflow for Diesel and CNG compose motors and lesser for Hybrid electric write motor. Where mileage required is higher for Hybrid electric other than CNG and Diesel motor.

III. SOLUTIONS

- 1) Solar worked motor
- 2) Load on motor can be changed
- 3) Magnetic fueled motor
- 4) Steam fueled motor

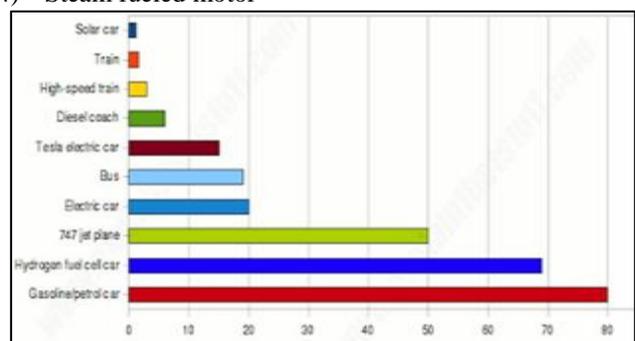


Fig. 2: Vitality Utilized (kWh) to Convey One Individual 100 km

From this chart we get the reasonable thought regarding the measure of vitality utilized by diff parameters for same separation of 100 Km and get the similar information for every parameter

From this we watched that electric vehicle or attractive vehicle has the ideal power use

By the arrangements accessible and correlation from the above diagrams we choose to take a shot at attractive fueled motor i.e. Electric write motor, because of following reasons

- 1) Very low working expense
- 2) Energy contribution for same yield contrast with other motor is ideal
- 3) Harmful gases discharge is low

IV. WORKING PRINCIPLE

Attractive motor chips away at the guideline of attractive shock between same shafts of the two unique magnets. At the point when comparative posts of two magnets interact with each other they will repel each other with equivalent and inverse power.

This wonder of repugnance is utilized as a part of this motor to make movement. The Electromagnet which is set at the highest point of the chamber of the motor repulses the changeless magnet set at the place of cylinder in IC Engine such a path, to the point that the attractive power delivered by the electromagnet repulses lasting magnet. Cylinder i.e. perpetual magnet is associated with the wrench shaft through interfacing pole. This course of action changes over the responding movement of cylinder into the rotating movement of the wrench shaft. This is our helpful work.

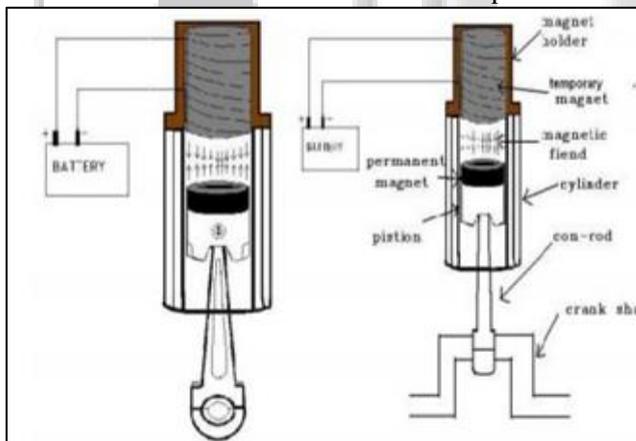


Fig. 3: Attractive Piston Worked Engine

Course of action has appeared in the figure Electromagnetic motors working depend on the standard of association between the attractive field Permanent magnet is settled in the cylinder and iron material is associated with copper curl. With the goal that the iron material is changed over into electromagnet when the power supply is given to it. At the point when cylinder is situated in the lower position, the loop is associated through the battery. The copper loop is stimulated to deliver the attractive field. At the point when the copper curl empowered the cylinder move upward and copper loop is de-stimulated the cylinder move to descending, with the assistance of hand-off and control unit. The ceaseless procedure through cylinder is move to (all over) with likewise turned the fly wheel.

V. ADVANTAGES

- 1) Reducing contamination from one source, rather than the huge number of vehicles out and about.
- 2) There is no compelling reason to fabricate a cooling framework, fuel tank, Ignition Systems or silencers.
- 3) The mechanical plan of the motor is basic
- 4) Low make and upkeep costs and additionally simple support.
- 5) Life time of the magnet is high, so it can keep running for a long stretch
- 6) No combusting happens inside the motor. which lessen the assessment of warmth and dangerous gases from the motor
- 7) Reduces an unnatural weather change.

VI. CONCLUSION

Since the petroleum product rate is lessening step by step we have delineated a progressive motor which require not be independently made, but rather existing motors can be effectively adjusted to work thusly. The proposed motor is a basic and phenomenal strategy to run the electric vehicle in an exceptionally proficient way.

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