

Design and Fabrication of Multipurpose Solar Grass Cutting Machine

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Abstract: This project mainly deals with the fully automated or automatic grass cutter in which the sprinkler is also fitter to the spraying of the water to sustain the growth of the plants or grass and main aid is to cut the only grass and not the grown plant or huge roots, solar models or solar plate and the devices which converts the solar energy or the solar radiation to the electrical energy. It helps us to solve the problems in the remote areas. Fossil fuels relatively short time solar energy source continuously and consequently.

Keywords: Solar Energy, Solar Radiation, UV Radiation, Electrical Power

I. INTRODUCTION

The solar energy is the primary source for the development of our nation which helps to sustain the loss of country and helps to cope up the financial development and status. The main aim of this project is to lessen the work for the employees and the smart work is only required not the hard work is the aim of this project. The system discussed over here is based on multi-purpose solar grass cutting machines. This is a self-automated system and decision making capability. The solar operated grass cutter with the solar plated attached in the top ruff of the project frame which can observe the radiation from the main source which is said above is solar radiation and UV radiation. The frame is built or the material which is used to frame is mild steel and the cast iron. The DC motor of the 5v capacity which is used to run the sprinkler and whole system or the solar operated grass cutter.

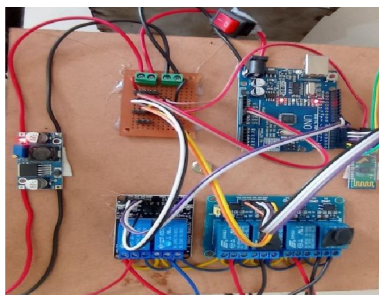


Figure: Circuit board of the solar grass cutter

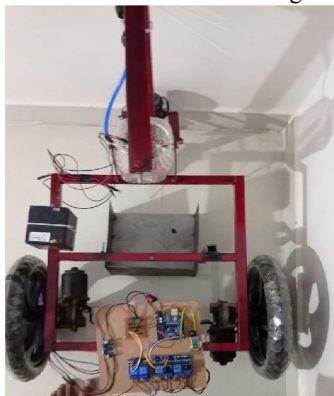


Figure 2: Top view of the project



Figure 3: Solar base grass cutting machine

II. CONCLUSION

Our project entitled Making a lawn mower with solar energy has been successfully completed and the results are satisfactory. It will be easier for people who want to do the project for further improvements. This project is more suitable for ordinary people because it has many more benefits, ie without fuel costs, without pollution and without fuel residues, less wear and tear due to less moving parts and using solar energy can be done.

ACKNOWLEDGMENT

In any endeavour, more than one person is responsible for carrying out the task to completion. The efforts resulting in this project are known exception.

We consider it our cardinal duty to express our deepest sense of gratitude to our external project guide Varun K R department of mechanical engineering for the Indian institute of science for invaluable guide at every stage and every possible ways

Heartily thanks to our internal guide Madhusudan Reddy G department of mechanical engineering, TOCE is invaluable throughout the course of this project.

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