

Solar Energy Operated Semi-Automatic Floor Cleaning Machine

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Abstract: *This project is capable of performing cleaning of floor and corners effectively, semiautomatic water spray, dry as well as wet cleaning tasks. This floor cleaning machine is designed by keeping the basic considerations for machine and operational cost reduction, efforts reduction, environment friendly and easy handling. The machine will work on electricity. Base of the project is to use renewable energy which is abundant in most of the countries, will have less environmental impact and easy to construct for commercial scale in future. This work can be very useful to improve the life style of mankind. We are basically working on the eliminating the most power consuming unit such as the vacuum cleaning unit, so as to make the project more Deployable in our society by using some basic mechanical cum electrical concepts.*

Keywords: renewable energy, environment friendly, floor cleaning machine.

REFERENCES

- [1]. M. Ranjit Kumar, Design and Analysis of Manually Operated Floor Cleaning Machine, International Journal of Engineering Research Technology (IJERT), Vol. 4, Issue 04, ISSN: 2278-0181, April-2015.
- [2]. Shubham Khade MULTI-USE FLOOR CLEANING MACHINE International Journal of Mechanical Engineering and Technology (IJMET), Volume 8, Issue 5, pp. 656664, May 2017.
- [3]. Ritvick Ghosh, Design and Fabrication of A Pedal-Operated Floor Mopping Machine, IJETAE ISSN 2250-2459, ISO 9001:2008 Certified Journal, Volume 6, Issue 5, May 2016.
- [4]. Sandeep J. Meshram and Dr. G.D.Mehta Design And Development Of Tricycle Operated Street Cleaning Machine, ISSN 0975 668X| Nov 15 To Oct 16 Volume-04, Issue-01.
- [5]. Design of Machine Elements, V. B. Bhandari, Tata McGraw Hill, Third edition Chp No. 15 P.No. 571-575, Chp No. 14 P.No.547-560.
- [6]. TIDC India Ltd Catalogue P.No.8,16.
- [7]. Brush India Pvt.Ltd. Manufactures Catalog P.No.16.
- [8]. VardhamanLadage and ShardoollJawanjal, Volume 8, Issue 1, January-April, pp. 0107, Article ID: IJDMT 08 01 001.