

MOPPING MACHINE

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Abstract

This venture manages the outlining and manufacture of Floor Cleaning Machine. The point of this undertaking work is to create and modernized process for cleaning the floor with wet and dry. It is extremely valuable for cleaning the floors. It can be utilized wet and dry; henceforth it is generally utilized as a part of houses, doctor’s facilities, theater, shops, PC focuses, and so forth. In present day days inside improvements are turning into a vital part in our life. Cleaning of a floor is a critical one for our wellbeing and diminishes the labor prerequisite. Subsequently, our task is exceptionally valuable in our everyday life.India is lacking in many things which are highly secured than other things. As it is a fast-growing country among the world so that everyone is very busy with their own work. Everyone agrees that replacing a light is one of the simplest things to do. The danger of getting shocked is not only dying by electricity, but also in some cases when one has to climb up somewhere insecure to change the bulb, they can fall and get hurt. We can overcome this situation by using light replacing stick. It will allow only some members who are assigned in it. It is a time-consuming process and it reduces the manpower. It also saves us from getting shocks.

1. INTRODUCTION

For cleaning the houses, offices, streets, industries we mostly use the broom. But by using broom some health issue can occur like skin disease, back pain etc. It also requires more mankind power and time. Hence now in present days as technology is growing every field, we also use robots for cleaning purpose. But cleaning robots are very costly and only

some of them give facility of dry cleaning as well as wet cleaning. In India for houses cleaning robots are not used because a normal person cannot afford it due to high cost. In India, robots are used for street cleaning, railway station and airport cleaning which are controlled manually. In this project, we are designing a Mopping machine. Which is

capable of wet cleaning as well as dry cleaning. For mapping of room, we use different technology. By this project, we tried to reduce the cost of mopping robot as compare with other mopping machines. There are many solutions which are made by using technology so we want to develop this idea by implementing our new thought which we are learnt by our professors in our college.

Cleaning is a necessary factor of daily routine process. Effective cleaning and sanitizing help and protect the health of human beings directly and indirectly. The Road cleaner is used to keep our surroundings clean. So that we feel fresh while walking on the streets. A machine which should be operated manually so that it can be as an alternative for conventional electric cleaning machine, so to avoid such type of circumstances we came through this project. This project will help all the sweepers and also those who clean the floor and also used for wet cleaning the floor. We are providing a device that is used for cleaning the floor. This project will definitely help for all the works those do the duty of cleaning.

2. RELATED WORK

Initially, floor cleaning is done by using hands or different handmade instruments. Such kind of cleaning requires a lot of

humans affords. As the dependency of human on technology increases more and more products are launched for making human life easy. When electricity came into a role the concept of vacuum cleaner is introduced. Vacuum cleaners are constructed to clean any dry surface, this type of cleaning required very less application of muscle power. Then the concept of mobile robots is introduced. They are programmed in such a manner that they can move around in their environment. Currently, the market is occupied by various companies which are manufacturing such variety of robots. These floor cleaners are distinguished on the bases of their cleaning action such as dry cleaning or wet cleaning. Some of the major companies working in the field of automatic floor cleaners are Dyson, iRobot, Neato Robotics. The problem occurring with the current floor cleaners is that they are used in households for wet or dry cleaning but they are not suitable for infection remover.

3. IMPLEMENTATION

This Mopping Machine helps the user mainly in institutions, factories, and also in households. It help the user to complete the work of sweeping and cleaning at a time. We can save the time using this machine and also complete the work easily by just switching on the mopping machine

we can run this machine by the DC motors above the mopper and a battery. Here the machine have the handles which can hold by the user and a regulator to control the speed of the machine.

The use of innovative technology not only reduces cost significantly but also reduces the human effort while increasing the effectiveness of floor cleaning. Reduced human effort means more frequent floor cleaning which results in increase in overall cleanliness and supports healthy well-being.

Before deciding to go finalize the project we went to our local communities to find out the problems in the community after seeing many problems that we noted , we all together of our team decided to work on this project to help the people of GHMC and the one who do sweeping and mopping work.

Nowadays, people lead a busy life. People in urbans have abnormal and long working hours. In such a situation an individual will always find ways of saving time. For career oriented and dealing women it's hard to handle home together with job work. Normally floor is cleaned with the utilization of dry mopped or wet mopped using the hand as a base tool. they need to be scrubbed hard on the surface. The cleaning module includes cleaning of

varied surfaces like cement floors, highly polished wooden or marble floors. The rough surface areas like cement floor, are covered with heavy dust which consumes longer in cleaning.

Developing Mopping machine using DC motors and a battery. To sweep and clean at a time and we can control the speed of the mopper. To try to mopping operation whenever needed along with sweeping.

Requirements Analysis

1. DC motors
2. 12 volts Battery
3. Regulator
4. Switch
5. Mopper
6. Sponge
7. Rods
8. Eligator clips
9. Washing Machine Stand
10. Water tank
11. Water pipe
12. Plastic sheet

4. EXPERIMENTAL RESULTS

In this Mopping machine we can complete three works at a time. The three works are sweeping, cleaning the floor with wet mopper, finally wet floor to dry floor using sponge. In this device we can see a water tank filled water which is mixed by detergent. We have a switch to start the Mopping machine and there is a regulator which controls the speed of mopper. We

use DC motors to which converts electrical energy into mechanical energy through the supply voltage by a 12 volts battery. when we switch on the switch then our machine starts working first the mopper sweeps the floor then the water from the water tank splits the droplets from the front the pipe then mopper cleans the floor with water, then the sponge in the front cleans which means clean the wet floor to convert into dry floor.



5. CONCLUSION

The use of innovative technology not only reduces cost significantly but also reduces the human effort while increasing the effectiveness of floor cleaning. Reduced human effort means more frequent floor cleaning which results in increase in overall cleanliness and supports healthy well-being. Small steps in technological advancement like this will have higher impact in long run in future, making India a better country.

6. REFERENCE

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