



FABRICATION OF MANUALLY OPERATED FLOOR CLEANER



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Introduction

Floor cleaner is very much useful in cleaning floors in hospitals, houses, auditorium, shops, computer centres etc; it is very simple in construction and easy to operate. Anybody can operate this machine easily. It consist of moisture cotton brush, the brush cleans the floor and dried with aid of small blower. Hence it is very useful in hospitals, houses, etc. The time taken for cleaning is very less and the cost is also very less. Maintenance cost is less.

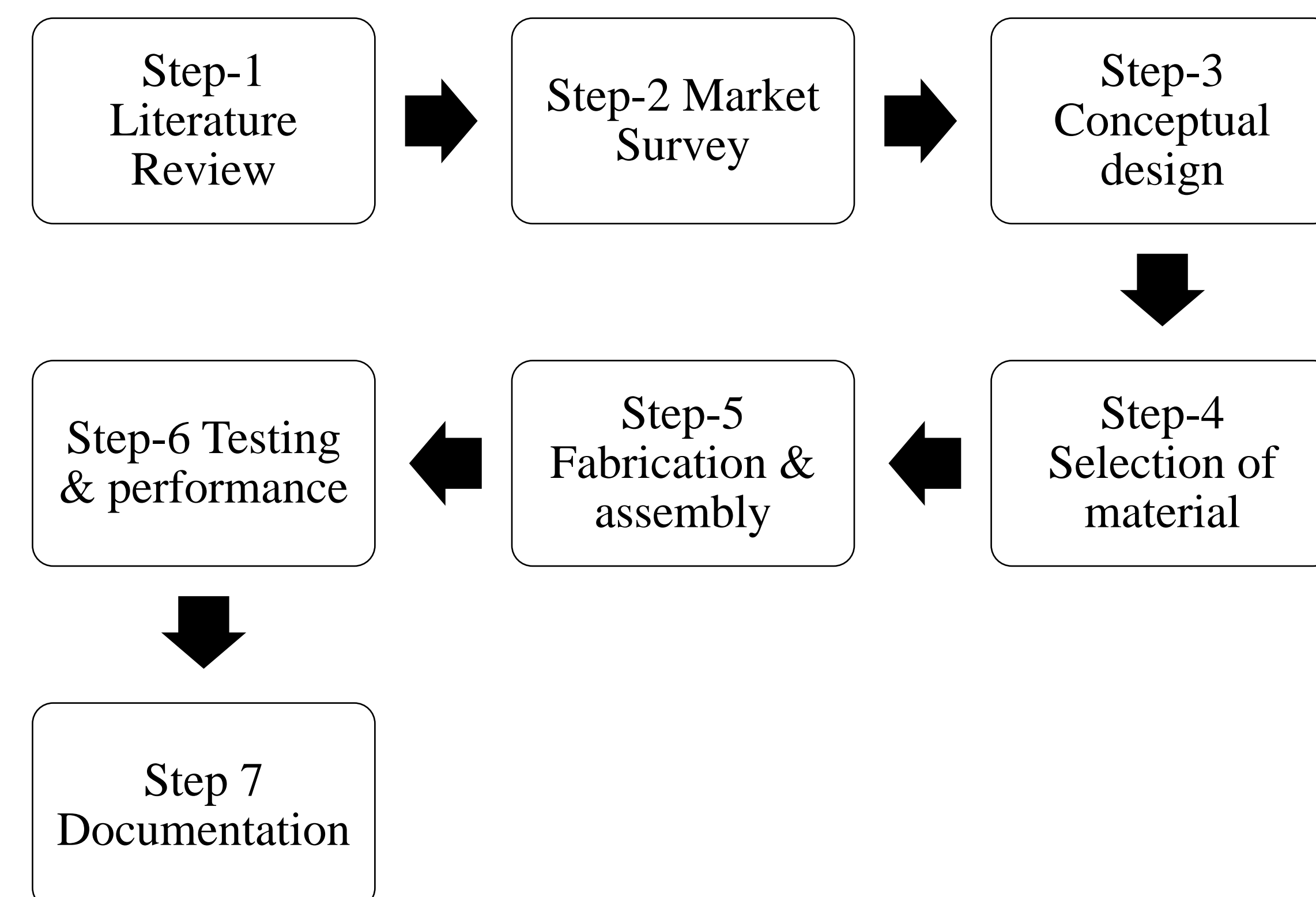
In our project is very simple drive mechanism and easy to operate any persons. The size of the machine is also portable, so we can transfer from one place to other place very easily. The floor cleaner is simple, modern house holding device; even children can also operate it easily with safety. It is very important one for each and every houses and hospitals etc.

Project Objectives

In response to the need of a cost effective and reliable floor cleaner for the masses:

- To Reduce human effort and increase the efficiency.
- To make Simpler in design which will reduce the complexation.
- To reduce the expense and fabricate an alternative mechanism of electrically operated floor cleaners at low cost .
- To reduce effort by the user.

Methodology



Performance Parameter

- **Mop test:** Rotation parameter was analyzed.
- **Weight vs time ,speed vs time for both wet and dry floor.**
- RPM was calculated for the smooth cleaning of the surface.
- Cycle arrangement rotation was analyzed.

Design Parameters

SL.NO.	PARTS	SIZE IN MM.
1.	Base	600*600
2.	Big Wheel	Dia.=400,thickness=35
3.	Shaft	Length=900,dia.=25
4.	Broom	Dia.=400
5.	Handle	Length=1100
6.	Tank	L=600,b=200,d=500
7.	Small wheel	Dia=203.2
8.	Big pulley	Dia.=125,inner dia.=25
9.	Small pulley	Dia.=100,inner dia.=25
10.	Sitting frame	Length=200,dia.=20
11.	Belt	Length=1016,thickness=15

Images



Conclusions

- After studying the various research papers of floor cleaning machines we have concluded that there are certain limitations in floor cleaning machines which can be worked upon. For example conventional cleaning machines are driven by electric supply, this is manually driven
- This machine is fabricated at low cost and also easy to operate.
- It has an simple design with more efficiency.

References

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