

UNIVERSITI TEKNOLOGI MARA

**MANUALLY OPERATED
CLEANING FLOOR MACHINE**

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ABSTRACT

Cleaning floors is a common job all over the world. Most of the cleaners' primary responsibility is to clean floors. So, to improve the cleaning work, innovation must be done to insure the efficiency of cleaning can be achieved. This project is more focused on improving the design of the machine to clean the floor. Based on the objectives, the machine that cleans the floor will be improved and achieve all objectives stated. The features of this manually operated cleaning floor machine should be fully manually controlled, easy to handle and improve productivity while cleaning the floor. This clean floor machine uses mechanical components such as a bevel gear, sprocket and chain. So to operate this machine user needs to push the handle to in order to run this machine. Another objective is to use SOLIDWORK software to draw. To summarize, this manually operated clean floor machine will benefit the cleaner worker and household and protect the environment.

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CHAPTER ONE

INTRODUCTION

1.1 Background of Study

Regular cleaning is an important part of keeping you healthy. Effective cleaning and sanitizing benefits and protect human health both directly. Cleaning and sanitizing also help to minimize pest infestations by decreasing leftovers that attract other insects. This involves preventing and controlling bacteria, viruses and other pests such as moths, silverfish and bedbugs, which can cause serious damage if not dealt with promptly. It also extends the life of the floor, walls and other surfaces with frequent cleaning and upkeep. Indirectly from this statement, maintaining and cleaning your floors is critical for the safety of everyone in building.

With the advanced modern technologies, all these technologies can be created to solve a problem. For example, cleaning a floor that has a large surface area such as a hall and court needs a lot of energy to work on it. If we used old school methods like using broom and mop, it not practical to be used because we need much manpower to clean floor faster. And also, if we used automatic cleaning floors that use a motor, we need to consider about cost and motors that use battery. Because of the factors above the invention of manually operated cleaning floor machine is really needed.

1.2 Problem Statement

Mops have become a widespread tool used by people, but they have several drawbacks, one of which is that if you want to use a mop in the cleaning process, users must carry other equipment such as buckets containing detergent and water at the same time. The time required for contemporary cleaning floor machines is approximately 3 to 5 hours. As a result, this tool's application is restricted to the continual cleaning procedure. Furthermore, this cleaning floor equipment is difficult to transport from one location to another. This is due to the tool's very massive and hefty bulk. To begin the cleaning process, modern floor cleaning machine need a battery.