

UNIVERSITI TEKNOLOGI MARA

**DESIGN AND FABRICATION OF INNOVATION OF
GOODS SANITIZER**

MUHAMMAD FAE EZ HAIKHAL BIN MOHD FUAD

Dissertation submitted in partial fulfillment
of the requirements for the degree of
Diploma
(Mechanical Engineering)

College of Engineering

March 2022

Abstract

Sanitize in main things that must do in this pandemic era to prevent us from infected by Corona Virus that is facing the world right now. The pandemic that attacks people worldwide is currently suffering in the world. As the number of infection chances increases the product which develops the so-called innovation of products to reduce the number of infections that occur, either intentionally or indirectly, contacting other persons. This product can prevent us from spreading the virus to others not infected. Thus, the infection can be reduced every day. If this type of virus does not act early, this type of virus can lead to the extinction of the human population. The main objective of this product is, reduce the amount of infection of the virus all over the world.

ACKNOWLEDGEMENT

First and foremost, I want to express my gratitude to Allah SWT for providing me with the chance to pursue my diploma and for completing this long and difficult journey. My appreciation goes to my supervisor, Sir Zeno Michael.

Finally, I dedicate this dissertation to my parents, who had the foresight and desire to educate me. This triumphant piece is dedicated to you both

TABLE OF CONTENTS

CONFIRMATION BY SUPERVISOR	1
AUTHOR'S DECLARATON	2
ABSTRACT	3
ACKNOWLEDGEMENT	4
TABLE OF CONTENTS	5
LIST OF TABLES	6
LIST OF FIGURES	7
LIST OF ABBREVIATION	8
CHAPTER ONE :INTRODUCTION	9
1.0 Overview / Background Of The Project	
1.1 Design Objective	
1.2 Problem Statement	
1.3 Scope Of Project	
1.3.1 Survey Outcome	
1.4 Significance Of The Project / Customer Requirement	
1.5 Expected	
CHAPTER TWO :LITERATURE REVIEW	18
2.0 Information On Existing Products, Patents, Standards	
2.0.1 Importance Of Sanitizer	
2.0.2 Existing Product	
2.0.3 Definition Of Air Purifier	
2.1 Product Design Specification Based On Literature Review	
2,1,1 Aesthetic	
2.1.2 Function	
2.1.3 Materials	
2.1.4 Target Market	

CHAPTER ONE

INTRODUCTION

1.0 Background of the project

This project aims at designing, analyzing and fabricating innovative goods sanitizer. This product is not developed yet it is a new product and wants the innovation to solve the problem that the world is facing now it is Corona virus. Nowadays the world is suffering from the pandemic that attacks people around the world. With the increasing of the number of chances of infection the product that will be developed that call innovation of goods sanitizer that will help to reduce the infection that happen by contacting other people whether its intentionally or indirectly. This product can avoid us to spread the virus to others that is has not been infected. So, it can reduce the amount of infection every day. This kind of virus can lead to extinct human population if this kind of action does not take early.

The system that use to sanitize the goods is water vapor system so that will be eco- friendly. Water vapor can make the goods keep clean and free from virus same application apply with hand sanitizer it will protect the goods from viruses. The idea to develop this product is use recycle materials so it will low in cost. The quality of the materials of this product is it can withstand any type of weather such as storm, heat, and rain. The water vapor system that used for now is using a high-capacity battery to keep it operation long. For future ideas, the battery can be converting into solar technology that can keep the battery charge. This invention due to this product will mainly install that expose to the sun so that will increase the efficiency of this product/ For this product will make a survey and collect all that needs and, trying to come up with a prototype that can be tested.