



اَوْبُو رَسِيْدِي تَنْكُو لُو رِيْن مَارَا
UNIVERSITI
TEKNOLOGI
MARA

Title of Project : **Magic Paraffin Wax Filter**

Course Name : **Technology Entrepreneurship**

Course Code : **ENT 600**

Program Name : **Bachelor of Physiotherapy (Hons.)**

Program Code : **HS 244**

Group : **NHSPF9Y**

List of Participants :

STUDENTS NAME	STUDENT ID	PHONE NO.
Intan Suraya Mohd Yunus	2013427206	019-5744192
Erdayu @ Erzatul Rahayu Zakaria	2013480088	012-5504670
Siti Haida Mohd Sapuan	2013884566	011-28678486
Nur Ewani Abdul Manan	2013897174	011-32321333
Syazwani Tajidin	2013464578	019-2508903
Norjannatun Naim Hashim	2013851796	011-12518002

CONTENTS

BIL	DESCRIPTION	PAGE
1	Table of Content	1
2	Chapter 1 : Product Description	
	: Introduction	2
	: Purpose of Development	2
	: Product Concept	2
	: Application	3
	: Function	3
	: Unique Features	3
	: Picture Description	3
3	Chapter 2 : Technology Description	
	: Overview of Product Prototype	4
4	Chapter 3: Market Research and Strategies	
	: Target Market	11
	: Market Size and Market Share	11
	: Competition and Competitive Edge	11
	: Estimated Cost Per Unit	12
	: Selling Price	12
	: Marketing Strategies	13
5	Chapter 4: Financial Plan	
	: Start-up Cost	14
	: Working Capital (4 months)	15
	: Cost of Components Per Prototype	16
6	Chapter 5 : Management Team	
	: Team Members	17
	: Other Requirements	19
7	Chapter 6 : Project Milestone	20
8	Chapter 7 : Conclusion	23
9	Appendix	24

CHAPTER 1

1.0 PRODUCT DESCRIPTION

1.1 Introduction

Paraffin wax heat therapy bath is one of the moist heat therapy modalities that have been used in the physiotherapy clinics. This modality speeds healing, and soothes soft tissues and muscle pains. An additional benefit of paraffin wax bath therapy is that on top of its function as a therapy modality and heat, the wax itself soothes and moisturizes the human body, the skin, opens pores, increasing blood flow, circulation and creates a general sense of relaxation and calm effect on the patients.

Paraffin wax is a natural component of crude mineral oils, produced by refining or separating the wax out of the crude mineral oils. To purify it, it has to be boiled, then cooled, then filtered into a heavy wax-oil substance, finishing as the paraffin wax. It is laboratory tested to be safe for external use, and hygienic. The wax that has been used is colorless, tasteless, and unscented.

Also, it is heavy in molecular structure, increasing blood supply to the body part being treated, trapping moisture from the underlying layers of the skin - this results in a rejuvenating, moisturizing and nourishing effect on the skin, the often soft and smooth finishing on the skin.

Nowadays, there is a lot of patient enter rehabilitation department for the wax treatment. Infection control is the key settings in hospital and the wax that has been used by the patient should be recycled for reuse to maximize the use as the expensive price. But the procedure of cleaning is different follow by their Department. Our team has chosen a product that we believe can help all rehabilitation departments towards the cleaning procedure of the waxing. This product will be used to filter the dirt such as grime and hairs. Our product is MAGIC PARAFFIN WAX FILTER (MPWF).

1.2 Purpose of development

- To Increase the level of cleanliness of paraffin wax
- To avoid wastage of paraffin wax during the cleaning process
- To facilitate paraffin wax cleaning process
- To save time and energy during paraffin wax cleaning process
- To reduce operation and maintenance cost

1.3 Product Concept

- To utilize the use of wax
- For infection control
- Sterilization of wax
- Time management in cleaning procedure of the waxing that had been use
- To standardize the cleaning procedure of the waxing in whole Physiotherapy Department in Malaysia.

1.4 Application

- To be applied to the Department of Physiotherapy in Malaysia.

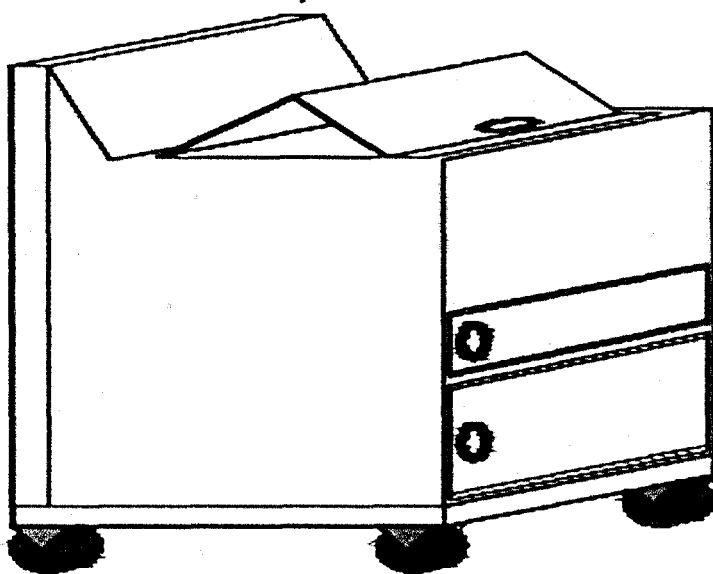
1.4.1 Functions

- Filter is be used to filter the used paraffin wax from the hair and grime and to sterilize the wax.

1.5 Unique features

- 2 in 1 : Filter and sterile
- Stainless Steel
- Auto timer setting
- Temperature controller
- Usage indicator
- Double layer filter
 - Coarse Wire Mesh
 - Fine Wire Mesh

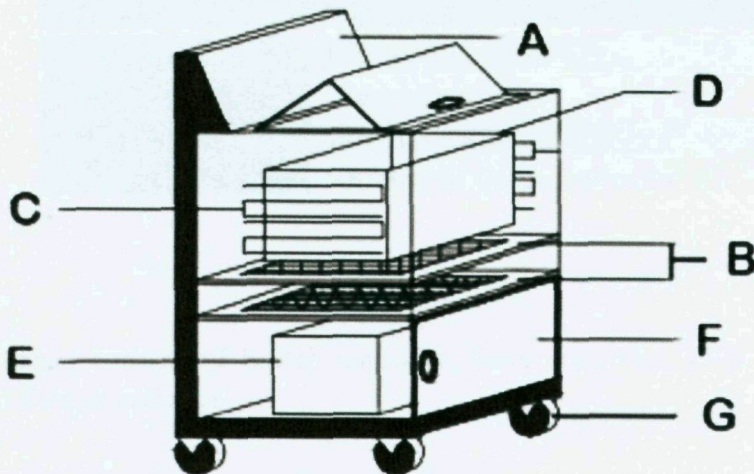
1.5.1 Picture description



CHAPTER 2

2.0 TECHNOLOGY DESCRIPTION

2.1 Overview of product prototype



LABEL	ITEMS
A	Control System
B	Filter
C	Heater Coil
D	Used Wax Container
E	Sterilized Wax Container
F	Sterilizer Compartment
G	Caster Wheel

Dimension : 600 mm X 600 mm X 900 mm

Specification :

Power : 2000 W
Voltage : 240 V / 50 Hz
Max Capacity : 5 kg
Material : Stainless Steel