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CHAPTER 1

PRODUCT DESCRIPTION

1.0 Introduction

Convenient Thermos (CT) is the product to be developed. Thermos are one of product that suitable and conducive for all generations. It is used to prevent heat loss and keep the warmness of the drink for a certain time. Therefore, the purpose of this project is to reheat users drink when drink temperature is below than 30°C which very convenient to employee and household.

1.1 Purpose of development

The purpose of this product is:

- (a) To help employee reduce expenses by bring hot or warm drink water from home.
- (b) To maintain temperature of user drink more than two hours *not impressive*
- (c) To reheat the drink when it's temperature below than 30°C

1.2 Product concept

- (i) For employee and household to reheat the drink when it is cold
- (ii) The product can keep the warmness of the drink more than 2 hours

1.3 Application

CT is a plugless thermos that can reheat users drink when the temperature is below than 30°C as long as the capacity of powerbank is full. This product also consists of speaker for alarming users when the drink meet heating desired temperature which is 40°C and LCD is used to display the temperature of drink. It is also consisting of switch to turn on and off the heater that used to reheat the drink. Since the unique features of this project is plugless supply, USB port is used as an alternative to replace electric socket.

1.4 Functions

- (i) **USB port:** As an alternative to replace electric socket
- (ii) **Switch:** To turn On or Off the thermos heater
- (iii) **Speaker:** Alert user when the drink meets desired water temperature which is 40°C.
- (iv) **Liquid Cristal Display (LCD):** Display temperature of drink

(v) **Power bank:** 5V output of power bank can supply power to thermos

1.5 Unique features

This project consists of few unique features for availability in Malaysia market:

(a) **Plugless:** Used USB port as an alternative to replace electric socket

(b) **5V Supply:** By using powerbank, the product can be used

(c) **Alarm:** To alert users when the drink is ready

1.6 Picture description

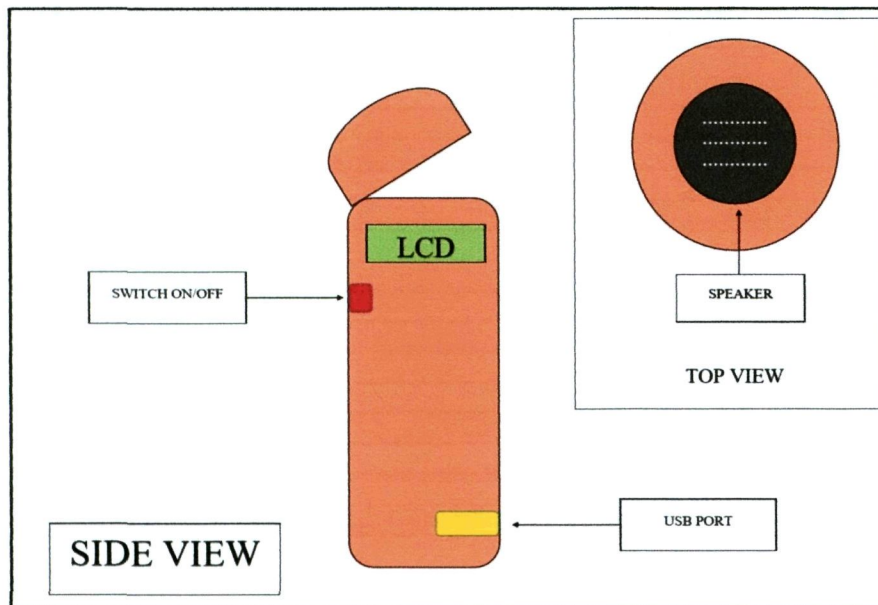


Figure 1: Front and back view of the product sketching