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EXECUTIVE SUMMARY

EVAcohol is a two advanced sensor technology that can detect alcohol level in breath. It is equipped with a breath detector and touch pad sensor. This device will lock the ignition system in the vehicle and alarm will beeping once the alcohol level in the breath exceed the limit. The blue LCD screen presents to show the percentage of alcohol level in the users breathe. EVAcohol aimed to be an innovation that can help in reducing accidents caused by drunken drivers. The target for EVAcohol are road users and Road Transport Department Malaysia (JPJ). The EVAcohol will be sold at RM 1,125.00 per unit.

CHAPTER 1

1.0 PRODUCT DESCRIPTION

1.1 Introduction

- The product is an evolution of alcohol level detector known as EValcohol.
- EValcohol is an alcohol testing device that has ignition interlock system that could be fitted as a universal accessory in vehicles.
- The group decided to improvise the existing alcohol analyser by enhancing the functions that can directly connected to the engine's ignition system.
- The product will detect the alcohol level in drivers' blood through breath and skin epidermis and it will lock the ignition system once it exceeds the limit.

1.2 Purpose of development

1. To provide a way to prevent accident due to drunken driver.
2. To help authorities monitoring road users that violent the laws which driving under influence of alcohol.

1.3 Product concept

- EValcohol was designed based on high technology which incorporated with two types of advanced sensor technology for detection of Blood Alcohol Content through breath and skin contact.
- Quick and reliable results.
- Can be used independently or attached to any kind of vehicle.

1.4 Application

The EValcohol can be operated easily once install to vehicle.

1.4.1 Function

Xtend Fuel Cell sensor- detection of blood alcohol system through breath detector.

WM-DPTR system- detection of blood alcohol level through human skin epidermis by touch pad.

Alarm- once the BAC level reaches the limit, alarm will be ringing through speaker.

Autolock- the system used in this device will be directly connected to the engine's ignition system and prevent the engine from being started once the BAC level exceed the limit.

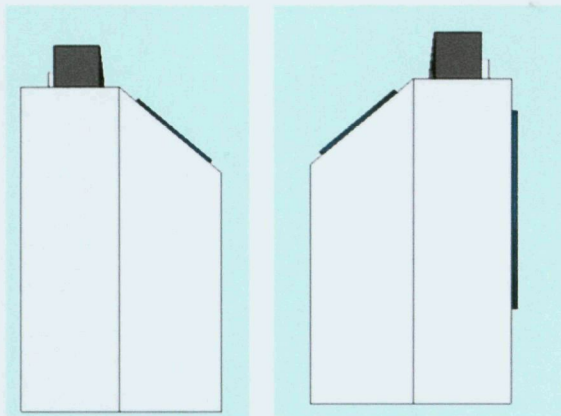
Solar panel- source of energy.

1.5 Unique features

1.5.1 Picture description



FRONT VIEW



SIDE VIEW