UNIVERSITI TEKNOLOGI MARA
MALAYSIA

TESLA COIL WIRELESS ELECTRICITY

Faculty	:	FACULTY OF CHEMICAL ENGINEERING
Program	:	CHEMICAL ENGIMEERING
Program Code	:	EH220
Course	:	TECHNOLOGY ENTREPRENEURSHIP
Course Code	:	ENT600
Semester	:	7
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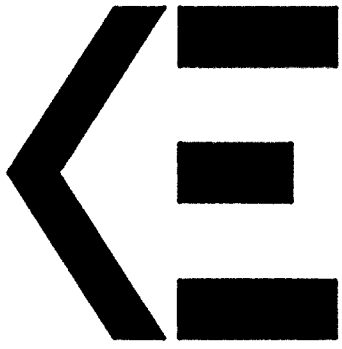
Submission Date:

10 December 2018

COMPANY'S LOGO



KARRIELECTRO.SDN.BHD

CHAPTER 1

PRODUCT DESCRIPTION

1.1 Introduction

After some research toward the electrical consumption among the public user, it can be seen that, the use of electricity is increasing from time to time. The uses of wireless electricity can help in decreases the energy consumption especially for lightning. Our team chosen a product that we believe can decreases the cost of electricity in our daily affairs. The product is Tesla coil wireless electricity. This product is suitable for all kind devices which consume a current voltage.

1.2 Purpose of development

The purpose of the product development is:

- Use recyclable materials in a daily live uses.
- The materials cost are reasonable and can be found easily.
- Use low input electricity that can be convert into high voltage 6utput.

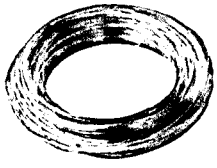
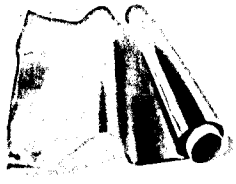
1.3 Product Concept

The energy from the battery passes through the primary coil creating an electromagnetic field. The electricity leaves the coil and passes the spark gap before entering the capacitor. The spark gap acts like a switch, turning the circuit on and off thousands of time per seconds which can cause the electromagnetic field to collapse and reform for many time. The energy output by this collapsing field is then soaked up by the secondary coil and is converted back into electrical energy that has a very high voltage yet comparatively low current. This electricity is sent to the top load where it will be discharged through the air. The electricity was produce and can be uses for multi electrical devices.

1.4 Application

- This portables Tesla wireless electricity easy to handle and bring anywhere.
- The equipment can be used up to more than two devices within their range of electromagnetic field.
- Have no limits for public users which are using electrical devices.

1.4.1 Function

	Name: Battery 9V Function : As a source of energy
	Name: Copper wire Function : Step up the power
	Name: Transducer Function: To converting input energy into output energy
	Name: Resistor Function: To control the flow of current to the other component
	Name: Single wire Function: To connect the electricity from the source of energy to any devices
	Name: Light Emitting diode Function: As a semiconductor light source.
	Name: Aluminium foil Function: As a dummy, to specified the current flow.
	Name: Switch connector Function: To open or close the flow of electricity on electrical circuit.

1.5 Unique features

The uniqueness of the product for availability in Malaysia market consists of:

- Attractable portables devices which is low in weight
- Even though at the end of the secondary coil having a spark of electric, the current is low and does not cause harm to the users.
- Low usage of voltage input can be increased at the optimum high voltage by using step up transformer.

1.6 Picture description