

ELECTRIC KIOSK (UI2015704185)

INTRODUCTION

With the increasing numbers of electronic gadgets such as smart phones, tablets and laptops the need for having a power bank also in high demand. While most users will conduct most of their charging at home or at work or using the power banks, electric kiosk offers additional charging support and the opportunity to have the access to electricity at the public area. This invention is aimed to be located at the public areas such as the bus station, LRT and commuter station as well as airport. It works similar to vendor machine where the user needs to insert the coin to have a certain amount of electricity consumption. The machine is equipped with the USB charging port, LCD display and the 240 V single-phase supplies. Given that public charging networks are still at an early stage of development, there is no similar product exist in the Malaysian market as of today. This invention will mark Malaysia as one of develop country with the high end technology offers to its citizen.

It is hard to find electrical source for charging in public places such as bus station, bus stand, and coffee shop. Owners of premises are reluctant to provide this facility as it will incur extra cost for their operation. Places such as international airports do provide this electrical source but of limited number compared to

TOTAL POWER CONSUMPTION BY DIFFERENT DEVICE FOR 1 HOUR CHARGING.				
DEVICES	ACTUAL % OF BATTERY	AFTER 1 HOUR CHARGING	TOTAL POWER USE PER HOUR(KWh)	COST FOR 1 HOUR CHARGING (MYR)
IPHONE 5	43%	94%	0.00375	MYR 0.19
NOKIA 105	33%	83%	0.0025	MYR 0.13
SAMSUNG S3	54%	79%	0.0025	MYR 0.13
IENOVO IDEAPAD Y500	15%	45%	0.03875	MYR 1.94
ASUS A55V SERIES	31%	86%	0.04625	MYR 2.31
HP-PAVILION G4	7%	62%	0.03625	MYR 1.81

DESIGN AND INNOVATION

Electric kiosk is an electronic device that supplies electricity for public usage. It is aimed to be located at a public areas. The user only needs to insert the coin to access the electricity. A certain amount of power will be allocated according to a specified rate. LED show the status of operation either in fully operational or idle mode . LCD display will show the amount of power consumption use and remaining time for user information.

Total power consumption and cost by different device for 1 hour charging.

Rated Price= 10cent = 2Wh = 12 Minutes charging.
 = 20cent = 4Wh = 24 Minutes charging.
 = 50cent = 10Wh = 60 Minutes charging.

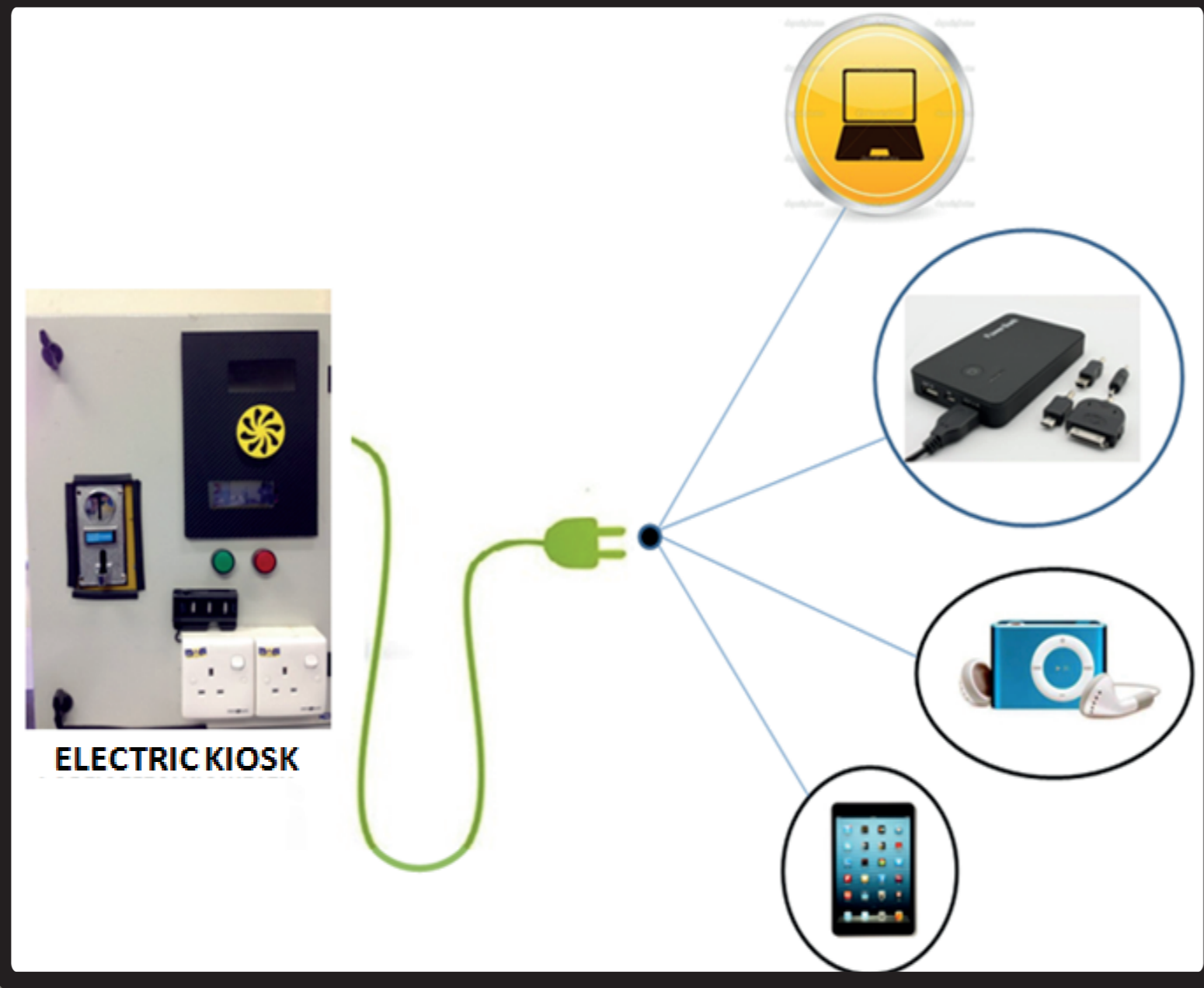
REMARK		
IPHONE 5 : 10WATT USB POWER ADAPTER. INPUT : 240VAC, 0.45A, 50-60HZ. OUTPUT : 5.1VDC , 2.1A. BATTERY CAPACITY : 3.8VDC, 1440mAh, 5.45wh.	NOKIA 105: NK0501 POWER ADAPTER. INPUT: 100-240VAC, 150mA, 50-60HZ. OUTPUT: 5.0VDC, 450mA. BATTERY CAPACITY : 3.7VDC, 800mAh, 3.0wh.	SAMSUNG S3: ETADUTIXBE TRAVEL ADAPTER. INPUT: 100-240VAC, 0.15A, 50-60HZ. OUTPUT: 5.0VDC, 1.0A. BATTERY CAPACITY : 3.8VDC, 2100mAh, 7.98wh.
IENOVO IDEAPAD Y500 : IENOVO ADP-120LHB AC ADAPTER. INPUT : 100-240VAC, 2.0A, 50-60HZ. OUTPUT : 19.5VDC, 6.15A. BATTERY CAPACITY : 10.8VDC, 6080mAh, 72wh.	ASUS A55V SERIES : EXA0904YH AC/DC ADAPTER. INPUT : 100-240VAC, 1.5A, 50-60HZ. OUTPUT : 19VDC, 4.74A. BATTERY CAPACITY : 10.8VDC, 4700mAh, 50wh.	HP-PAVILION G4 : PPP012L AC/DC ADAPTER. INPUT : 100-240VAC, 1.5A, 50-60HZ. OUTPUT : 19VDC, 4.74A. BATTERY CAPACITY : 10.8VDC, 5200mAh, 47wh.

APPLICATION & MARKET POTENTIAL

The product is marketable as it easy to install at any public places such as bus station, LRT or commuter station and also at commercial premises such as coffee shop or shopping malls. The owner only needs to provide a single phase electrical supply to offer this facility. It only requires the user to insert the coin and any suitable devices could be plugged into the available power sockets.

NOVELTY

1. The product has not being implemented anywhere in Malaysia as of today at public place.
- 2.This product combining the rate of power consumption and time use.



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