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पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

INTRODUCTION

In view of the recent amendment made in the Patents Act, 1970 by the Patents (Amendment) Act, 2005 effective from 01st January 2005, the Official Journal of The Patent Office is required to be published under the Statute. This Journal is being published on weekly basis on every Friday covering the various proceedings on Patents as required according to the provision of Section 145 of the Patents Act 1970. All the enquiries on this Official Journal and other information as required by the public should be addressed to the Controller General of Patents, Designs & Trade Marks. Suggestions and comments are requested from all quarters so that the content can be enriched.

(Om Prakash Gupta)
CONTROLLER GENERAL OF PATENTS, DESIGNS & TRADE MARKS

1st NOVEMBER, 2019

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(57) Abstract :
ABSTRACT Purchasing and Shopping at big malls is becoming daily activity in metro cities. We can see big rush at these malls on holidays and weekends. This crowd becomes huge when there are special offers and discount. People purchase different items and put them in trolley. After completion of purchases one need to go to billing counter for payments. At billing counter the cashier prepare the bill using bar code reader which is very time consuming process and results in long queue at billing counter. The aim of this work is to develop the system which can be used in shopping malls to solve the problem mentioned above. An embedded system will be placed on trolleys in the mall. It will consist of RFID reader. All the items in the mall will be equipped with RFID tags. When person put any item in the trolley its code will be detected and the price of that item will be stored in memory. As we put the items the costs will get added to total. Thus the billing will be done at the trolley itself. Item name and its cost will be displayed on LCD. For detecting different items RFID reader is used. LCD used here is 16X2 alphanumeric displays. It is used to display item names, item cost and total amount to be paid. At the completion of shopping the person will press End Shopping• button and then total bill data will be transferred to PC by wireless RF modules. Later the billing is carried out by master section.

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ABSTRACT

Purchasing and Shopping at big malls is becoming daily activity in metro cities. We can see big rush at these malls on holidays and weekends. This crowd becomes huge when there are special offers and discount. People purchase different items and put them in trolley. After completion of purchases one need to go to billing counter for payments. At billing counter the cashier prepare the bill using bar code reader which is very time consuming process and results in long queue at billing counter.

The aim of this work is to develop the system which can be used in shopping malls to solve the problem mentioned above. An embedded system will be placed on trolleys in the mall. It will consist of RFID reader. All the items in the mall will be equipped with RFID tags. When person put any item in the trolley its code will be detected and the price of that item will be stored in memory. As we put the items the costs will get added to total. Thus the billing will be done at the trolley itself. Item name and its cost will be displayed on LCD. For detecting different items RFID reader is used. LCD used here is 16X2 alphanumeric displays. It is used to display item names, item cost and total amount to be paid.

At the completion of shopping the person will press “End Shopping” button and then total bill data will be transferred to PC by wireless RF modules. Later the billing is carried out by master section.

The following specification particularly describes the invention and manner in which it is to be performed

DESCRIPTION

BRIEF INTRODUCTION

[0001] We can see big rush at these malls on holidays and weekends. This crowd becomes huge when there are special offers and discount. People purchase different items and put them in trolley. After completion of purchase one need to go to billing counter for payments. At billing counter the cashier prepare the bill using bar code reader which is very time consuming process and results in long queue at billing counter.

[0002] Our aim is to develop an intelligent shopping cart (embedded system) which can be used in shopping malls to solve the problem mentioned above. The Intelligent Shopping Cart (proposed system) is equipped with Radio Frequency Identification (RFID) for product identification and a consistent Wi-Fi connection with the shop's server. Besides, it also has an LCD display that informs customers about product prices, discounts, offers and the total bill. As soon as the object is dropped into or removed from the cart, the RFID tag identifies the product and updates the bill. When the customer is done with shopping, he can just press the 'End shopping' button and the details are sent to the shop's server and the customer has to pay just the amount and leave.

[0003] The proposed cart is easy to use and does not need any special training. The cart's inbuilt automatic billing system makes shopping a breeze and has other positive spin-offs such as freeing staff from repetitive checkout scanning, reducing total number of staffs required and increasing operational efficiency of the system.

[0004] In this work, we discuss the System Design, Implementation, Testing, and Conclusions. In conclusions we also discuss about opportunities of improving the proposed system to make it into a commercially viable product as an excellent way to help customers reduce the time spent in shopping by displaying the list of products, their cost, the best deals/rates on the products and automatic billing. The system helps the store management with an automatic update of the inventory on every purchase of an item. Intelligent shopping cart (proposed system) has the potential to make shopping more pleasurable and efficient for the shopper and the inventory control easier for the store management.

BRIEF DESCRIPTION OF DRAWINGS

[0005] FIG. 1 Illustrates the block diagram of technological model

[0006] FIG. 2 Hardware implementation part of trolley section

[0007] FIG. 3 Block diagram of Master Billing Section