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(54) Title of the invention : AUTOMATIC PRODUCT IDENTIFICATION FOR THE SHOPPING CART BY USING SMART WIRELESS TECHNOLOGY

<p>(51) International classification :G06Q20/38                  (31) Priority Document No :NA                  (32) Priority Date :NA                  (33) Name of priority country :NA                  (86) International Application No :NA                  Filing Date :NA                  (87) International Publication No : NA                  (61) Patent of Addition to Application Number :NA                  Filing Date :NA                  (62) Divisional to Application Number :NA                  Filing Date :NA</p>	<p>(71)Name of Applicant :  <b>1)Dr. Thangadurai N</b>                  Address of Applicant :Professor and Head of the Department                  Department of Electronics and Communication Engineering,                  School of Engineering and Technology, JAIN (Deemed-to-be                  University), Jain Global Campus, Jakkasandra Post, Kanakapura                  Taluk, Ramnagara District, Bangalore, Kavanataka, India                  Karnataka India  <b>2)Vasudha MP</b>                  (72)Name of Inventor :  <b>1)Dr. Gayathri. KM</b>  <b>2)Dr. N Rajeswaran</b>  <b>3)Dr. I. Rajesh</b>  <b>4)Dr. Siva Prasad Darla</b>  <b>5)Prof. Chaithra B K</b>  <b>6)Dr. KS. Kiran</b>  <b>7)Dr. Y. Harold Robinson</b>  <b>8)Dr. M. Viju Prakash</b>  <b>9)Dr. S. Jeya Shobana</b>  <b>10)Vasudha MP</b>  <b>11)Dr. Thangadurai N</b></p>
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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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