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(71)Name of Applicant :
1)CMR COLLEGE OF ENGINEERING & TECHNOLOGY
Address of Applicant :KANDLAKOYA, MEDCHAL ROAD, HYDERABAD, TELANGANA, INDIA,
501401 Hyderabad -----

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)B.SURESH RAM
Address of Applicant :KANDLAKOYA, MEDCHAL ROAD, HYDERABAD, TELANGANA, INDIA,
501401 Hyderabad -----

2)K.RAJU
Address of Applicant :KANDLAKOYA, MEDCHAL ROAD, HYDERABAD, TELANGANA, INDIA,
501401 Hyderabad -----

3)P.MAHESH BABU
Address of Applicant :KANDLAKOYA, MEDCHAL ROAD, HYDERABAD, TELANGANA, INDIA,
501401 Hyderabad -----

4)B.VENKATESHWAR RAO
Address of Applicant :KANDLAKOYA, MEDCHAL ROAD, HYDERABAD, TELANGANA, INDIA,
501401 Hyderabad -----

5)B. BALAKRISHNA
Address of Applicant :KANDLAKOYA, MEDCHAL ROAD, HYDERABAD, TELANGANA, INDIA,
501401 Hyderabad -----

6)P. SHUSHANTH GOUD
Address of Applicant :KANDLAKOYA, MEDCHAL ROAD, HYDERABAD, TELANGANA, INDIA,
501401 Hyderabad -----

7)N. MOUNIKA
Address of Applicant :KANDLAKOYA, MEDCHAL ROAD, HYDERABAD, TELANGANA, INDIA,
501401 Hyderabad -----

8)P. KRODHAN
Address of Applicant :KANDLAKOYA, MEDCHAL ROAD, HYDERABAD, TELANGANA, INDIA,
501401 Hyderabad -----

9)P. VIKASHITHA
Address of Applicant :KANDLAKOYA, MEDCHAL ROAD, HYDERABAD, TELANGANA, INDIA,
501401 Hyderabad -----

10)P. SAI NIKITHA
Address of Applicant :KANDLAKOYA, MEDCHAL ROAD, HYDERABAD, TELANGANA, INDIA,
501401 Hyderabad -----

11)Dr. R. VENKATESWARA REDDY
Address of Applicant :KANDLAKOYA, MEDCHAL ROAD, HYDERABAD, TELANGANA, INDIA,
501401 Hyderabad -----

12)DR. A. RAJI REDDY
Address of Applicant :KANDLAKOYA, MEDCHAL ROAD, HYDERABAD, TELANGANA, INDIA,
501401 Hyderabad -----

(57) Abstract :
AUTOMATED VERTICAL DELIVERY SYSTEM FOR EFFICIENT HOME DELIVERIES ABSTRACT The present invention introduces an innovative Automated Delivery System designed to revolutionize the order retrieval process. Incorporating a specially designed basket equipped with ultrasonic sensors, an Arduino microcontroller, and a motor integrated into a gearbox, this system offers enhanced security, convenience, and energy efficiency. Upon delivery, the ultrasonic sensor detects the presence of items within the basket, initiating the motor to facilitate automated movements. A second ultrasonic sensor positioned within the gearbox ensures precise control, detecting the arrival of the basket at its designated location and halting the motor accordingly. This user-friendly and accessible system transforms the delivery experience by streamlining order retrieval while mitigating the risks associated with traditional delivery methods. Cost-effective and easy to operate, the Automated Delivery System represents a novel approach to modernize and optimize the delivery process for users and delivery partners alike.

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