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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)P. MAHESH BABU
 Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad Hyderabad -----
2)B.BALAKRISHNA
 Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad Hyderabad -----
3)K SATHISH
 Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad Hyderabad -----
4)B. VENKATESHWAR RAO
 Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad Hyderabad -----
5)G. KARTHIK REDDY
 Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad Hyderabad -----
6)BUYAKAR SANDEEP
 Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad Hyderabad -----
7)CH SAI SIDDARTHA
 Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad Hyderabad -----
8)DHARMENDAR RAMAWAT
 Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad Hyderabad -----

(57) Abstract :
 AUTOMATED SPORTS SHOE WASHER WITH DUAL CLEANING MODES FOR ENHANCED FOOTWEAR LONGEVITY ABSTRACT The Automated Sports Shoe Washer with Dual Cleaning Modes offers an innovative solution for maintaining footwear hygiene and longevity. This system is designed to efficiently clean sports shoes and formal footwear without damaging their materials. Featuring a washing chamber and a dual-mode cleaning mechanism, the system provides a water-based cleaning mode for sports shoes that utilizes controlled water flow and gentle agitation to remove dirt and sweat, while preserving shoe integrity. For formal shoes, a dry-cleaning mode employs soft brushes and air circulation, ensuring effective cleaning without moisture. The integrated control unit monitors the cleaning process, adjusting parameters as needed for optimal results. Additionally, the automated drying feature minimizes moisture exposure, protecting sensitive materials. This user-friendly, cost-effective machine caters to various users, including athletes and professionals, simplifying shoe care and enhancing footwear longevity while promoting sustainable practices through efficient water use.

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