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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 :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad Hyderabad ---------- ----------
2)K.RAVIKIRAN
Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad Hyderabad ---------- ----------
3)K.RAJU
Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad Hyderabad ---------- ----------
4)G. KARTHIK REDDY
Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad Hyderabad ---------- ----------
5)K.SATHISH
Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad Hyderabad ---------- ----------
6)S SHIVENDRA
Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad Hyderabad ---------- ----------
7)S SAI KRISHNA SRI
Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad Hyderabad ---------- ----------
8)A KOWSHIK VARDHAN REDDY
Address of Applicant :CMR College of Engineering & Technology, Kandlakoya, Medchal Road, Hyderabad Hyderabad ---------- ----------

(57) Abstract :
AUTOMATIC SAFETY LIFTING MECHANISM FOR ELECTRIC IRONS WITH USER INTERACTION DETECTION ABSTRACT The "HOIST CRATE" presents an innovative automatic lifting mechanism for electric irons, designed to enhance safety and prevent potential fire hazards associated with unattended irons. This system employs capacitive touch sensors integrated into the iron's handle to continuously monitor user interaction. When the sensors detect the absence of user contact, an actuator mechanism triggers the iron to be lifted to a predetermined safe height, minimizing the risk of damage to fabrics and surfaces. The mechanism utilizes servo motors for precise lifting and is powered by a rechargeable battery, ensuring affordability and user-friendliness. Ideal for household and small-scale industrial use, the "HOIST CRATE" significantly advances safety technology by addressing common risks associated with electric iron usage. This simple yet effective design provides peace of mind, allowing users to engage in other activities without the constant worry of leaving the iron unattended.

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