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(71)Name of Applicant :  
**1)Chitkara University**  
 Address of Applicant :Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Rajpura -----  
**2)Chitkara Innovation Incubator Foundation**  
 Name of Applicant : NA  
 Address of Applicant : NA

(72)Name of Inventor :  
**1)Dr. Priyanka Malhotra**  
 Address of Applicant :Department of Electronics and Communication Engineering, Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Rajpura -----  
**2)Dr. Deepti Prit Kaur**  
 Address of Applicant :Department of Electronics and Communication Engineering, Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Rajpura -----  
**3)Kartik Sangwan**  
 Address of Applicant :Department of Electronics and Communication Engineering, Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Rajpura -----  
**4)Om Tomar**  
 Address of Applicant :Department of Electronics and Communication Engineering, Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Rajpura -----  
**5)Lovleen Kala**  
 Address of Applicant :Department of Electronics and Communication Engineering, Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Rajpura -----

(57) Abstract :  
 A milk dispensing system is comprising, a rectangular housing 101 with multiple compartments 102 at the rear for storing different types of milk, a front side includes multiple milk dispensing nozzles 104, a quality analyzer module 105 is integrated with each compartments 102, featuring a hopper 105a with a sieve 105b to remove contaminants and a motorized door 105c that opens upon vendor authentication via facial recognition or mobile application, a heating compartment 106, equipped with a temperature sensor 106a, Peltier unit 106b, and motorized turbine stirrer 110, heats and mixes milk as per user preferences, a touch-sensitive display 107 and payment scanner supporting QR and NFC methods enable secure transactions, a self-cleaning unit ensure hygiene, prevent milk residue buildup in each compartments 102.

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