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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)Satyajit Anand

Address of Applicant :Associate Professor, Department of Interdisciplinary Courses in Engineering, Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Rajpura -----

2)Rajneesh Talwar

Address of Applicant :Dean, Department of Interdisciplinary Courses in Engineering, Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Rajpura -----

3)Manvinder Sharma

Address of Applicant :Associate Professor, Department of Interdisciplinary Courses in Engineering, Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Rajpura -----

(57) Abstract :

A system for automated respiratory medicine delivery is comprising, an inhaler 101 is equipped with a gun barrel assembly 102 at its bottom periphery to dispense respiratory medicine to a user, multiple canisters 103 within the assembly 102 is paired with an actuator 104 for controlled dispensing of respective medicine, an AI (artificial intelligence)-enabled camera 105 with embedded optical character recognition (OCR) is positioned on the inhaler's outer surface to extract dosage information from medical prescriptions, a wristband 106, communicatively linked to the inhaler 101, is embedded with multiple health monitoring sensors, a GPS module for tracking the user's location, a microphone 107 to monitor voice and coughing patterns in real time, a database stores user respiratory health data, a mobile application on a computing device allows user interaction with system functions, a buzzer 109 and speaker 110 on the wristband 106 provide alerts.

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