

(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED SMART TOUCH LESS MEDICINE DISPENSING SYSTEM FOR PHARMA FIELD

<p>(51) International classification :G07F0017000000, G06Q0050220000, G16H0020130000, A61J0007000000, G16H0020100000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : <b>1)Ingeniouz</b> Address of Applicant :#23, Mosque Pallam, Saidapet ----- <b>2)Mr. A. Kumaraswamy,Sri Venkateswara College of Engineering</b> <b>3)Bhaskar Kapoor,Maharaja Agrasen Institute of Technology</b> <b>4)Dr.Sumanth V,RR Institute of technology</b> <b>5)Prof.(Dr.)Nalini Kanta Sahoo,SRMIST (Deemed to be University)</b> <b>6)Dr. Chinmaya Keshari Sahoo,College of Pharmaceutical Sciences</b> <b>7)Dr. Banavath Heeralal,Granules India limited</b> <b>8)Dr. Sujata Mallapur,Sharnbasva University</b> <b>9)Dr. Jagadeesh Kumar Ega,Chaitanya (Deemed to be University)</b> <b>10)Dr. Durgacharan Arun Bhagwat ,Bharati Vidyapeeth College of Pharmacy</b> <b>11)Dr. Rahul Shivaji Adnaik,Anandi Pharmacy College</b> <b>12)Pratibha Rahul Adnaik,Anandi Pharmacy College</b> <b>13)V Gopu,Sri Ramakrishna Engineering College</b> Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : <b>1)Mr. A. Kumaraswamy,Sri Venkateswara College of Engineering</b> Address of Applicant :Assistant Professor, Department of Mechanical engineering, Sri Venkateswara College of Engineering - Sriperumbudur Tamilnadu India 602117 ----- <b>2)Bhaskar Kapoor,Maharaja Agrasen Institute of Technology</b> Address of Applicant :Assistant Professor, Department of IT, Maharaja Agrasen Institute of Technology New Delhi - Delhi Delhi India 110086 ----- <b>3)Dr.Sumanth V,RR Institute of technology</b> Address of Applicant :Assistant Professor, Department of Computer science and engineering RR Institute of technology - Bangalore Karnataka India ----- <b>4)Prof.(Dr.)Nalini Kanta Sahoo,SRMIST (Deemed to be University)</b> Address of Applicant :Principal, Department of Pharmacy SRM Modinagar College of Pharmacy, SRMIST (Deemed to be University), Delhi-NCR Campus - Modinagar Uttar Pradesh India ----- <b>5)Dr. Chinmaya Keshari Sahoo,College of Pharmaceutical Sciences</b> Address of Applicant :Associate Professor, Department of Pharmaceutics, College of Pharmaceutical Sciences - Puri Odisha India ----- <b>6)Dr. Banavath Heeralal,Granules India limited</b> Address of Applicant :Assistant manager, Department of FR&amp;D, Granules India limited - Hyderabad Telangana India ----- <b>7)Dr. Sujata Mallapur,Sharnbasva University</b> Address of Applicant :Professor, Department of Computer Science and Engineering, Sharnbasva University, Kalaburagi - Kalaburagi Karnataka India 585103 ----- <b>8)Dr. Jagadeesh Kumar Ega,Chaitanya (Deemed to be University)</b> Address of Applicant :Professor, Department of Chemistry Chaitanya (Deemed to be University) - Hanamkonda Telangana India ----- <b>9)Dr. Durgacharan Arun Bhagwat ,Bharati Vidyapeeth College of Pharmacy</b> Address of Applicant :Assistant Professor, Department of Pharmaceutics, Bharati Vidyapeeth College of Pharmacy, Kolhapur - Kolhapur Maharashtra India ----- <b>10)Dr. Rahul Shivaji Adnaik,Anandi Pharmacy College</b> Address of Applicant :Principal, Department of Pharmacology Anandi Pharmacy College, Kalambe Tarf Kale - Kolhapur Maharashtra India ----- <b>11)Pratibha Rahul Adnaik,Anandi Pharmacy College</b> Address of Applicant :Assistant Professor, Department of Pharmaceutical Chemistry, Anandi Pharmacy College, Kalambe Tarf Kale - Kolhapur Maharashtra India ----- <b>12)V Gopu,Sri Ramakrishna Engineering College</b> Address of Applicant :Assistant Professor, Department of Electrical and Electronics Engineering Sri Ramakrishna Engineering College - Coimbatore Tamil Nadu India 641022 ----</p>
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(57) Abstract :

In this pandemic era, technology dependent solutions are demanded for preventing the spread of contagious disease COVID-19 as the medical officers have themselves become victim to the disease while treating the patients. Eventually, the patients has to be cured which is possible by providing timely medication. This invention proposes an autonomous touchless medicine dispensing system for providing service to victims in the hospital ward based on Artificial Intelligence algorithm. Lack of experienced medical officers, also leads to huge death of human life. The proposed system is an innovative robotic mobile system able to provide timely medication to save human life to greater extent without the issue of pandemic spread. 3D modeling of the system is done using Pro- Engineer software. The system is able to detect specific patient using infrared technique which scans the unique digital code allocated for the patient bed. Dispensing of the medicine is done based on infrared counter where the medicines are dispensed based on doctor's prescription. Medicines are dispensed touchless in disposable containers to every patient autonomously at their ward itself. This system is efficient in providing immediate medication without any considerable delay to the victims without human intervention.

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