



(<http://ipindia.nic.in/index.htm>)



(<http://ipindia.nic.in>)

Patent Search

Invention Title	AN ARTIFICIAL INTELLIGENCE BASED 3D PRINTED MEDICINES FOR EFFECTIVE TREATMENT OF PATIENTS AND METHOD THEREOF
Publication Number	47/2022
Publication Date	25/11/2022
Publication Type	INA
Application Number	202241064085
Application Filing Date	09/11/2022
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	MECHANICAL ENGINEERING
Classification (IPC)	B33Y0050020000, B33Y0080000000, B33Y0010000000, B33Y0030000000, G16H0020100000

Inventor

Name	Address	Country
Mr.Jitendra Debata	Associate Professor, Guru Nanak Institutions Technical Campus-School of Pharmacy, AT-Ibrahimpattam, Rangareddy, Hyderabad, Telangana, India. Pin Code: 501506	India
Ms.Akula Rajitha	Assistant Professor, Department of Computer Science and Information Technology, Institute of Aeronautical Engineering College, Hyderabad, Telangana, India. Pin Code:500043	India
Dr.Himansu Bhusan Samal	Associate Professor, Department of Pharmaceutics, School of Pharmacy and Life Sciences, Centurion University of Technology and Management, Ramchandrapur, Jatni, Bhubaneswar, Odisha, India. Pin Code:752050	India
Dr.Gyanranjan Mahalik	Associate Professor, Department of Botany, School of Applied Sciences, Centurion University of Technology and Management, Bhubaneswar, Odisha, India, Pin Code:752050	India
Dr.Arun Kumar Mahato	Associate Professor, School of Pharmaceutical Sciences & Technology, Sardar Bhagwan Singh University, Dehradun, Uttarakhand, India. Pin Code:248161	India
Dr.Nihar Ranjan Kar	Assistant Professor, School of Pharmacy, Centurion University of Technology and Management, Gopalpur Campus, Balasore, Odisha, India. Pin Code:756044	India
Dr.C.Nithya Shanthi	Associate Professor, School of Pharmaceutical Sciences and Technology, Sardar Bhagwan Singh University, Dehradun, Uttarakhand, India. Pin Code:248161	India
Mr.Dhiraj Kumar	Assistant Professor, Guru Nanak Institutions Technical Campus, School of Pharmacy, Ibrahimpattam, Hyderabad, Telangana, India. Pin Code:501506	India
Ms.Nigar Kadar Mujawar	Assistant Professor, Department of Pharmaceutics, Womens College of Pharmacy, Peth-Vadgaon, Kolhapur, Maharashtra, India. Pin Code:416112	India
Ms.Ashwini Rajendra Suryawanshi	Assistant Professor, Department of Pharmacology, Womens College of Pharmacy, Peth-Vadgaon, Kolhapur, Maharashtra, India. Pin Code:416112	India

Applicant

Name	Address	Country
Mr.Jitendra Debata	Associate Professor, Guru Nanak Institutions Technical Campus-School of Pharmacy, AT-Ibrahimpatnam, Rangareddy, Hyderabad, Telangana, India. Pin Code: 501506	India
Ms.Akula Rajitha	Assistant Professor, Department of Computer Science and Information Technology, Institute of Aeronautical Engineering College, Hyderabad, Telangana, India. Pin Code:500043	India
Dr.Himansu Bhusan Samal	Associate Professor, Department of Pharmaceutics, School of Pharmacy and Life Sciences, Centurion University of Technology and Management, Ramchandrapur, Jatni, Bhubaneswar, Odisha, India. Pin Code:752050	India
Dr.Gyanranjan Mahalik	Associate Professor, Department of Botany, School of Applied Sciences, Centurion University of Technology and Management, Bhubaneswar, Odisha, India, Pin Code:752050	India
Dr.Arun Kumar Mahato	Associate Professor, School of Pharmaceutical Sciences & Technology, Sardar Bhagwan Singh University, Dehradun, Uttarakhand, India. Pin Code:248161	India
Dr.Nihar Ranjan Kar	Assistant Professor, School of Pharmacy, Centurion University of Technology and Management, Gopalpur Campus, Balasore, Odisha, India. Pin Code:756044	India
Dr.C.Nithya Shanthi	Associate Professor, School of Pharmaceutical Sciences and Technology, Sardar Bhagwan Singh University, Dehradun, Uttarakhand, India. Pin Code:248161	India
Mr.Dhiraj Kumar	Assistant Professor, Guru Nanak Institutions Technical Campus, School of Pharmacy, Ibrahimpatnam, Hyderabad, Telangana, India. Pin Code:501506	India
Ms.Nigar Kadar Mujawar	Assistant Professor, Department of Pharmaceutics, Womens College of Pharmacy, Peth-Vadgaon, Kolhapur, Maharashtra, India. Pin Code:416112	India
Ms.Ashwini Rajendra Suryawanshi	Assistant Professor, Department of Pharmacology, Womens College of Pharmacy, Peth-Vadgaon, Kolhapur, Maharashtra, India. Pin Code:416112	India

Abstract:

The present invention discloses an Artificial Intelligence based 3D printed medicines for effective treatment of patients and method thereof. In the present invention, prescription dosage guidelines, creating a customised dose in accordance with the prescription dose guidelines, and building the customised dose using a 3D printer. Furthermore, including a signal connecting unit to allow communication between the 3D printer and the container holding the medication component, by adding bin powder material to create increasingly bound bodies—which correspond to sectional data blocks made by slicing an original item with parallel planes—a three-dimer product is created. Accompanied Drawing [FIGS. 1-2]

Complete Specification

Description:[001] The present invention relates to the field of the 3D printed medicines systems, techniques, methods and apparatus. The invention more particular relates to an Artificial Intelligence based 3D printed medicines for effective treatment of patients and method thereof.

BACKGROUND OF THE INVENTION

[002] The following description provides the information that may be useful in understanding the present invention. It is not an admission that any of the information provided herein is prior art or relevant to the presently claimed invention, or that any publication specifically or implicitly referenced is prior art.

[003] Further, the approaches described in this section are approaches that could be pursued, but not necessarily approaches that have been previously conceived pursued. Therefore, unless otherwise indicated, it should not be assumed that any of the approaches described in this section qualify as prior art merely by virtue of inclusion in this section.

[004] Rapid prototyping, direct digital manufacturing, and three-dimensional (3D) printing are other names for additive fabrication technologies, which are increasingly used in both production and design. A 3D prototype created via additive manufacturing is often composed of layers that might be thought of as being two dimensional (2D), which together make up the 3D item. In specifically, a digital representation of an item is created and may be saved in a computer memory, for instance using computer-aided design (CAD). The depiction of the item may be divided using computer software into various separate 2D layers, or "slices" (an x-y cross-section with nominal and/or technically determined z thickness). A slice of the CAD drawing is used to construct each layer of the 3D prototype. The thickness of each slice, which corresponds to one layer of the produced item, depends on the resolution of the specific 3D printer or rapid prototyping equipment being utilised. The required item is created by combining the manufactured segments.

[View Application Status](#)



Terms & conditions (<http://ipindia.gov.in/terms-conditions.htm>) Privacy Policy (<http://ipindia.gov.in/privacy-policy.htm>)

Copyright (<http://ipindia.gov.in/copyright.htm>) Hyperlinking Policy (<http://ipindia.gov.in/hyperlinking-policy.htm>)

Accessibility (<http://ipindia.gov.in/accessibility.htm>) Archive (<http://ipindia.gov.in/archive.htm>) Contact Us (<http://ipindia.gov.in/contact-us.htm>)

Help (<http://ipindia.gov.in/help.htm>)

Content Owned, updated and maintained by Intellectual Property India, All Rights Reserved.

Page last updated on: 26/06/2019



Office of the Controller General of Patents, Designs & Trade Marks
Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

(<http://ipindia.nic.in/index.htm>)



(<http://ipindia.nic.in/index.htm>)

Application Details

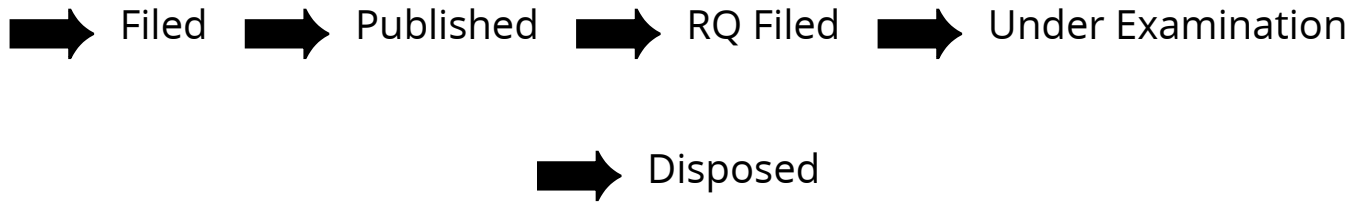
APPLICATION NUMBER	202241064085
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	09/11/2022
APPLICANT NAME	1 . Mr.Jitendra Debata 2 . Ms.Akula Rajitha 3 . Dr.Himansu Bhusan Samal 4 . Dr.Gyanranjan Mahalik 5 . Dr.Arun Kumar Mahato 6 . Dr.Nihar Ranjan Kar 7 . Dr.C.Nithya Shanthi 8 . Mr.Dhiraj Kumar 9 . Ms.Nigar Kadar Mujawar 10 . Ms.Ashwini Rajendra Suryawanshi
TITLE OF INVENTION	AN ARTIFICIAL INTELLIGENCE BASED 3D PRINTED MEDICINES FOR EFFECTIVE TREATMENT OF PATIENTS AND METHOD THEREOF
FIELD OF INVENTION	MECHANICAL ENGINEERING
E-MAIL (As Per Record)	tumula.githam@gmail.com
ADDITIONAL-EMAIL (As Per Record)	tumula.githam@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	25/11/2022

Application Status

APPLICATION STATUS

Awaiting Request for Examination

[View Documents](#)



In case of any discrepancy in status, kindly contact ipo-helpdesk@nic.in