

(54) Title of the invention : 3D PRINTER FOR FABRICATING MEDICINES

(51) International classification :B29C64/314, B29C64/336, B29C64/393, B33Y10/00, B33Y40/00, B33Y40/10, B33Y80/00

(86) International Application No :NA  
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)Chitkara University**  
 Address of Applicant :Chitkara University, Atal Shiksha Kunj, Pinjore-Nalagarh National Highway (NH-21A), District: Solan - 174103, Himachal Pradesh, India Solan -----  
**2)Chitkara Innovation Incubator Foundation**  
 Name of Applicant : NA  
 Address of Applicant : NA  
 (72)Name of Inventor :  
**1)Dr. Amit Chaudhary**  
 Address of Applicant :Professor,Chitkara University School of Pharmacy, Chitkara University, Atal Shiksha Kunj, Pinjore-Nalagarh National Highway (NH-21A), District: Solan - 174103, Himachal Pradesh, India Solan -----  
**2)Dr. Nitin Verma**  
 Address of Applicant :Professor& Principal, Chitkara University School of Pharmacy, Chitkara University, Atal Shiksha Kunj, Pinjore-Nalagarh National Highway (NH-21A), District: Solan - 174103, Himachal Pradesh, India Solan -----  
**3)Dr. Deepak Yadav**  
 Address of Applicant :Associate Professor,Chitkara University School of Pharmacy, Chitkara University, Atal Shiksha Kunj, Pinjore-Nalagarh National Highway (NH-21A), District: Solan - 174103, Himachal Pradesh, India Solan -----  
**4)Dr. Vikas Solanki**  
 Address of Applicant :Professor, Chitkara University Institute of Engineering and Technology, Rajpura, Punjab, India Rajpura -----  
**5)Mr. Jatin Kumar**  
 Address of Applicant :Assistant Professor, Chitkara University School of Pharmacy, Chitkara University, Atal Shiksha Kunj, Pinjore-Nalagarh National Highway (NH-21A), District: Solan - 174103, Himachal Pradesh, India Solan -----  
**6)Ms Nikita Thakur**  
 Address of Applicant :Assistant Professor, Chitkara University School of Pharmacy, Chitkara University, Atal Shiksha Kunj, Pinjore-Nalagarh National Highway (NH-21A), District: Solan - 174103, Himachal Pradesh, India Solan -----

(57) Abstract :  
 The present invention relates to a portable 3D printer for fabricating medicines, comprising a construction platform to provide a stable surface for building pharmaceutical compositions, an extruder assembly to dispense pharmaceutical materials onto the construction platform or previously printed layers, a control system to control the movement of the extruder assembly and construction platform during printing operations; and an interface module configured to facilitate user interaction with the 3D printer and a process for fabrication thereof. Reference Fig 1

No. of Pages : 20 No. of Claims : 10