(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :26/06/2023

(21) Application No.202341042570 A
(43) Publication Date : 01/09/2023

(54) Title of the invention : Rangoli Powder Dispenser for Rangoli Plotter Machine

(51) International classification :A61B0017000000, A61K0036810000, C11B0009000000, C04B0111540000, C04B0014060000
(86) International Application No :PCT//
Filing Date :01/01/1900
(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)Dr. Gopalakrishna. K
Address of Applicant :Dr. Gopalakrishna. K Professor & Principal, Jyothy Institute of Technology Address: Tataguni, Kanakapura Road, Bengaluru-560082, Phone No : 9845730509 principal@jyothyit.ac.in ---------- ----------
2)Rakesh B K
3)Rakesh P
4)Mahesh
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Dr. Gopalakrishna. K
Address of Applicant :Dr. Gopalakrishna. K Professor & Principal, Jyothy Institute of Technology Address: Tataguni, Kanakapura Road, Bengaluru-560082, Phone No : 9845730509 principal@jyothyit.ac.in ---------- ----------
2)Rakesh B K
Address of Applicant :Rakesh B K Assistant Professor, Department of Mechanical Engineering, Jyothy Institute of Technology Address: Tataguni, Kanakapura Road, Bengaluru-560082, Phone No : +91 917899999470 Email ID : rakesh.bk@jyothyit.ac.in ---------- ----------
3)Rakesh P
Address of Applicant :Rakesh P Assistant Professor, Department of Mechanical Engineering, Jyothy Institute of Technology Address: Tataguni, Kanakapura Road, Bengaluru-560082, Phone No : +91 919986670238 Email ID : rakesh.p@jyothyit.ac.in ---------- ----------
4)Mahesh
Address of Applicant :Mahesh Lab Instructor, Department of Mechanical Engineering, Jyothy Institute of Technology Address: Tataguni, Kanakapura Road, Bengaluru-560082, Phone No : +91 919741219522 Email ID : Maheshjit18@gmail.com ---------- ----------

(57) Abstract :
Rangoli is a form of art originated from the Indian subcontinent, where depicting various cultural and imaginary patterns are created through creative thinking on the floor using different materials such as rice powder, sand grains, quartz powder, limestone powder and red clay. This art considered auspicious according to Hindu religion and exhibited in most of Indian festivals and special occasions such as Ugadi, Sankranti, Pongal, Holi and Deepavali etc. Conventional rangoli plotting is time consuming and challenging for intricate shapes. So automated rangoli machine are developed and existing in the current market but the challenge is to control and regulate the flow of material without un-interruption during the process. Design and Development of one of the best kind 3D printed Rangoli powder dispenser with slider mechanism controlled by servomotor to achieve the purpose and to overcome the above drawback.

No. of Pages : 15 No. of Claims : 1