



Australian Government

IP Australia

CERTIFICATE OF GRANT INNOVATION PATENT

Patent number: 2021102375

The Commissioner of Patents has granted the above patent on 7 July 2021, and certifies that the below particulars have been registered in the Register of Patents.

Name and address of patentee(s):

Mahagundappa M. Benal of Professor & Head, Dept.of Mechanical Engg, Government Engineering College, Kushalnagar Kodagu District Karnataka 571234 India

Suresha S of Assistant Professor, School of, Mechanical Engineering REVA University, Rukmini Knowledge Park, Kattigenahalli Yelahanka Bengaluru Karnataka 560064 India

Raghvendra. S of Associate professor, Department of, Mechanical Engineering, Sai Vidya Institute of Technology Yelahanka Doddaballapura Road, Bangalore Karnataka 560064 India

Ravikumar T R of Assistant professor, Department of, Mechanical Engineering, S J C Institute of Technology Pb No. 20, B B Road, Chickaballapur Karnataka 562101 India

Kailash Chandra Panda of Professor Dept of Mechanical Engineering, Dayananda Sagar College of Engineering, Kumaraswamy Layout Bangalore Karnataka 560078 India

Nagendra Kumar M of Associate Professor, Electronics and Communication Engg, S J C Institute of Technology P B No 20 ,B B Road, Chickballapur Karnataka 562101 India

Shivaramakrishna A of Assistant Professor, Department of Mechanical Engineering, Ballari Institute of Technology & Management Ballari Karnataka 583104 India

Manjunatha K N of Assistant Professor, Department of Mechanical engineering, S J C Institute of Technology PB No.20, BB Road, Chickballapur Karnataka 562101 India

H S Kumaraswamy of Associate Professor, Mechanical Engineering, BNM Institute of Technology, Banashankari 2nd Stage, 12th main Road, 27th Cross Bengaluru, Karnataka 560070 India

B S Anilkumar of Professor and Head, Mechanical Engineering, BNM Institute of Technology, Banashankari 2nd Stage, 12th Main Road, 27th Cross Bengaluru, Karnataka 560070 India

Ashokkumar C N of Asst.Professor, Department of Mechanical, Engineering, Vemana Institute of Technology #1, Mahayogivemana Road, 3rd Block, Koramangala Bengaluru, Karnataka 560034 India

Bharath V G of Assistant Professor, Department of Mechanical Engineering, CMR university Bengaluru Karnataka India

Title of invention:

DESIGN AND DEVELOPMENT OF SUPPORT LESS 3D PRINTING SYSTEM USING FDM TECHNOLOGY

Name of inventor(s):

Benal, Mahagundappa M.; S., Suresha; S., Raghvendra.; T. R., Ravikumar; Panda, Kailash Chandra; M., Nagendra Kumar; A., Shivaramakrishna; K. N., Manjunatha; Kumaraswamy, H. S.; Anilkumar, B. S.; C. N., Ashokkumar and V. G., Bharath



Dated this 7th day of July 2021

Commissioner of Patents

PATENTS ACT 1990

The Australian Patents Register is the official record and should be referred to for the full details pertaining to this IP Right.



Australian Government

IP Australia

CERTIFICATE OF GRANT INNOVATION PATENT

Patent number: 2021102375

Term of Patent:

Eight years from 6 May 2021

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.



Dated this 7th day of July 2021

Commissioner of Patents

PATENTS ACT 1990

The Australian Patents Register is the official record and should be referred to for the full details pertaining to this IP Right.

Sect 120(1A) Infringement proceedings in respect of an innovation patent cannot be started unless the patent has been certified.

- (1) Where a person, by means of circulars, advertisements or otherwise, threatens a person with infringement proceedings or other similar proceedings a person aggrieved may apply to a prescribed court, or to another court having jurisdiction to hear and determine the application, for:
 - (a) a declaration that the threats are unjustifiable; and
 - (b) an injunction against the continuance of the threats; and
 - (c) the recovery of any damages sustained by the applicant as a result of the threats.
- (2) Subsection (1) applies whether or not the person who made the threats is entitled to, or interested in, the patent or a patent application.

Certain threats of infringement proceedings are always unjustifiable.

- (1) If:
- (a) a person:
 - (i) has applied for an innovation patent, but the application has not been determined; or
 - (ii) has an innovation patent that has not been certified; and
 - (b) the person, by means of circulars, advertisements or otherwise, threatens a person with infringement proceedings or other similar proceedings in respect of the patent applied for, or the patent, as the case may be;
- then, for the purposes of an application for relief under section 128 by the person threatened, the threats are unjustifiable.

(2) If an application under section 128 for relief relates to threats made in respect of an innovation patent that has not been certified or an application for an innovation patent, the court may grant the application the relief applied for.

(3) If an application under section 128 for relief relates to threats made in respect of a certified innovation patent, the court may grant the applicant the relief applied for unless the respondent satisfies the court that the acts about which the threats were made infringed, or would infringe, a claim that is not shown by the applicant to be invalid.

certified, in respect of an innovation patent other than in section 19, means a certificate of examination issued by the Commissioner under paragraph 101E(e) in respect of the patent