



Australian Government

IP Australia

# CERTIFICATE OF GRANT INNOVATION PATENT

**Patent number:** 2021100087

The Commissioner of Patents has granted the above patent on 31 March 2021, and certifies that the below particulars have been registered in the Register of Patents.

**Name and address of patentee(s):**

T.V. Arjunan of Professor, Department of Mechanical Eng., Guru Ghasidas Vishwavidyalaya Vishwavidyalaya Koni Koni, Bilaspur, Chattisgarh 495009 India

Pradeep Patanwar of Assistant Professor, Department of Mechanical Engineering, School of Studies of Engineering and Technology, Guru Ghasidas Vishwavidyalaya Koni, Bilaspur, Chattisgarh 495009 India

Manish Bhaskar of Assistant Professor, Department of Mechanical Engineering, School of Studies of Engineering and Technology, Guru Ghasidas Vishwavidyalaya Koni, Bilaspur, Chattisgarh 495009 India

Pankaj Kumar Gupta of Associate Professor, Department of Mechanical Engineering, School of Studies of Engineering and Technology, Guru Ghasidas Vishwavidyalaya Koni, Bilaspur, Chattisgarh 495009 India

Prashant Jangde of Assistant Professor, Department of Mechanical Engineering, School of Studies of Engineering and Technology, Guru Ghasidas Vishwavidyalaya Koni, Bilaspur, Chattisgarh 495009 India

Anurag Sing Thakur of Assistant Professor, Department of Industrial & Production, Engineering, School of Studies of Engineering and Technology, Guru Ghasidas Vishwavidyalaya, Koni, Bilaspur, Chattisgarh 495009 India

S. Vijayan of Postdoctoral Fellow, Department of Mechanical Engineering, National Institute of Technology Tiruchirappalli Tamilnadu 620015 India

M.M. Matheswaran of Assistant Professor, Department of Mechanical Engineering, Jansons Institute of Technology Coimbatore Tamilnadu 641659 India

A. Veerakumar of Department of Mechanical Engineering, Coimbatore Institute of Engineering and Technology Coimbatore Tamilnadu India

R. Venkatramanan of Department of Mechanical Engineering, Coimbatore Institute of Engineering and Technology Coimbatore Tamilnadu India

D. Seenivasan of Department of Mechanical Engineering, Coimbatore Institute of Engineering and Technology Coimbatore Tamilnadu India

T.V. Arjunan of Professor, Department of Mechanical Eng., Guru Ghasidas Vishwavidyalaya Vishwavidyalaya Koni Koni, Bilaspur, Chattisgarh 495009 India

**Title of invention:**

LONGITUDINAL FINS EVACUATED TUBE SOLAR AIR HEATER

**Name of inventor(s):**

Arjunan, T.V.; Patanwar, Pradeep; Bhaskar, Manish; Kumar Gupta, Pankaj; Jangde, Prashant; Sing Thakur, Anurag; Vijayan, S.; Matheswaran, M.M.; Veerakumar, A.; Venkatramanan, R. and Seenivasan, D.



Dated this 31<sup>st</sup> day of March 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:** 2021100087

**Term of Patent:**

Eight years from 7 January 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 31<sup>st</sup> day of March 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.

