

**FACULTY OF ENGINEERING**  
**DEPARTMENT OF FOOTWEAR TECHNOLOGY**

**List of Patents-**

<b>S.No.</b>	<b>Inventors Name</b>	<b>Patent Title</b>	<b>Application No.</b>	<b>Award/File d Date</b>	<b>Organizati on</b>	<b>Patent Status</b>
1	Prof. Devendra Kumar Chaturvedi, Mr. Arjun Verma	<b>“A method for manufacturing low cost footwear for bunion and hammer toe foot deformities”</b>	2021103736	30-06-2021	Australian Patent	Granted
2	Prof. Devendra Kumar Chaturvedi, Vishal pengoria	<b>Continuous gas fired annealing furnace</b>	2073/DEL/2012 Patent No. 308621	04-07-2012	Indian Patent	Granted
3	Prof. Devendra Kumar Chaturvedi, Mr. Arjun Verma	<b>“Mid-sole and Insole for footwears from the waste of white Pumpkin”</b>	202211071372	10-12-2022	Indian Patent	Published
4	Prof. Devendra Kumar Chaturvedi, Mr. Arjun Verma	<b>“Method for creating low-cost solid block shoe last”</b>	202211068606	29-11-2022	Indian Patent	Published
5	Prof. Devendra Kumar Chaturvedi, Mr. Mayank Agarwal,	<b>“Cost effective smart EVA shoe for women and children safety”</b>	202111038781	10-09-2021	Indian Patent	Published



Australian Government  
IP Australia

# CERTIFICATE OF GRANT INNOVATION PATENT

**Patent number:** 2021103736

The Commissioner of Patents has granted the above patent on 16 March 2022, and certifies that the below particulars have been registered in the Register of Patents.

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

Devendra Kumar Chaturvedi of Head, Dept. of Footwear Technology, D.E.I. (Deemed to be Univ.), Dayalbagh Agra U.P. 282005 India

Arjun Verma of Dept. of Footwear Technology, D.E.I. (Deemed to be Univ.), Dayalbagh Agra U.P. 282005 India

**Title of invention:**

A METHOD FOR MANUFACTURING Low Cost FOOTWEAR FOR BUNION AND HAMMER TOE FOOT DEFORMITIES

**Name of inventor(s):**

Chaturvedi, Devendra Kumar and Verma, Arjun

**Term of Patent:**

Eight years from 30 June 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 16<sup>th</sup> day of March 2022

Commissioner of Patents

**PATENTS ACT 1990**

The Australian Patents Register will be open to public inspection and should be released to the full extent permitted by the IP Right.





**INTELLECTUAL  
PROPERTY INDIA**  
PATENTS | DESIGNS | TRADE MARKS  
(GEOGRAPHICAL INDICATIONS)



सत्यमेव जयते

भारत सरकार  
GOVERNMENT OF INDIA  
पेटेंट कार्यालय  
THE PATENT OFFICE  
पेटेंट प्रमाणपत्र  
PATENT CERTIFICATE  
(Rule 74 Of The Patents Rules)

क्रमांक : 011111449  
SL No :



पेटेंट सं. / Patent No. : 308621  
आवेदन सं. / Application No. : 2073/DEL/2012  
फाइल करने की तारीख / Date of Filing : 04/07/2012  
पेटेंटी / Patentee : DAYALBAGH EDUCATIONAL INSTITUTE  
आविष्कारक (जहां लागू हो) / Inventor(s) : 1.DEVENDRA KUMAR CHATURVEDI 2.VISHAL PENGORIA

प्रमाणित किया जाता है कि पेटेंटी को उपरोक्त आवेदन में बयां प्रकटित "CONTINUOUS GAS FIRED ANNEALING FURNACE" नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख 4th day of July 2012 से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled "CONTINUOUS GAS FIRED ANNEALING FURNACE" as disclosed in the above mentioned application for the term of 20 years from the 4th day of July 2012 in accordance with the provisions of the Patents Act, 1970.



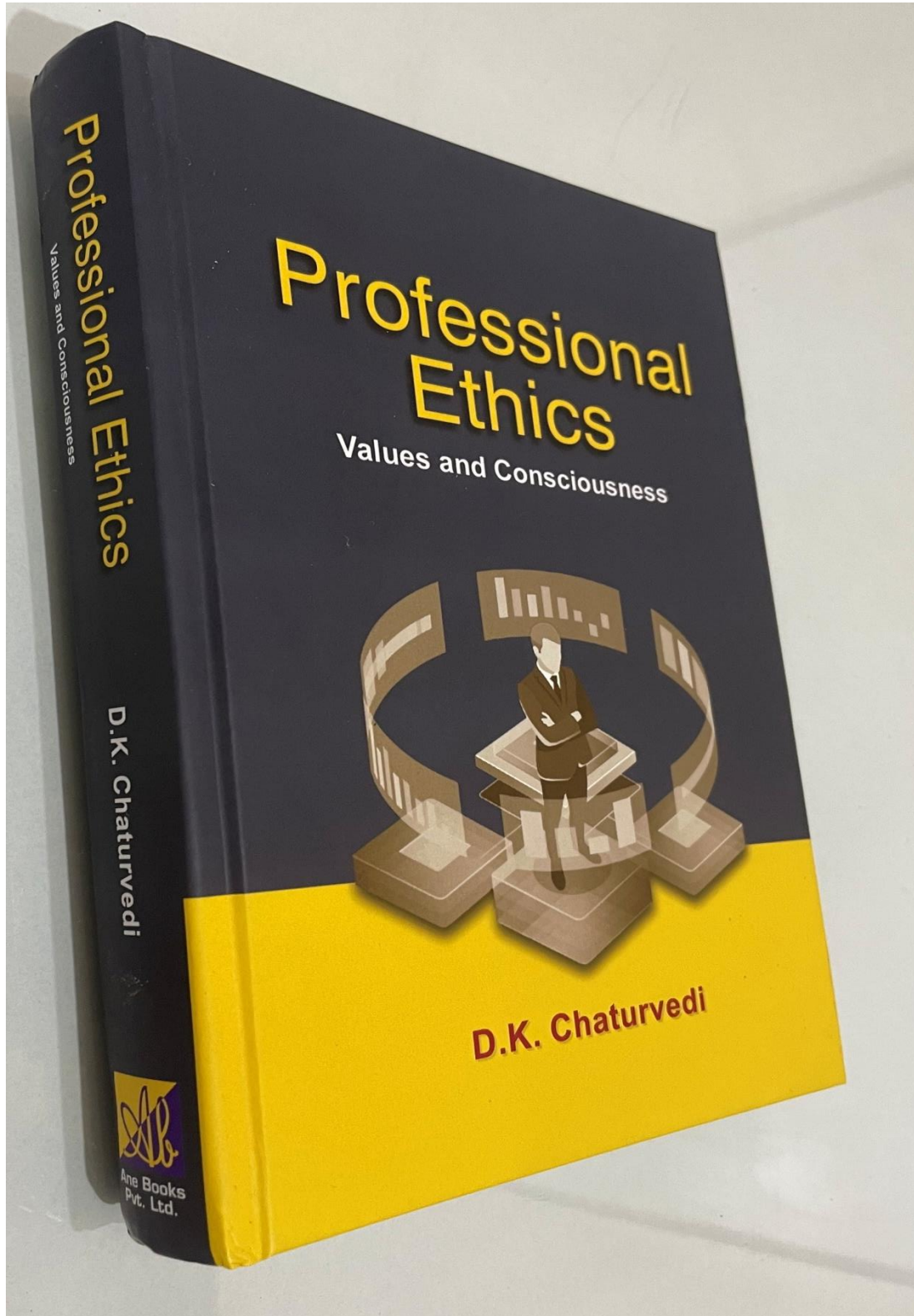
अनुदान की तारीख : 06/03/2019  
Date of Grant :

पेटेंट प्रोक्स  
Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, 4th day of July 2014को और उसके पश्चात प्रत्येक वर्ष में उसी दिन देय होगी।  
Note. - The fees for renewal of this patent, if it is to be maintained will fall / has fallen due on 4th day of July 2014 and on the same day in every year thereafter.

**Book published:**

D.K. Chaturvedi, **Professional Ethics, Values and Consciousness**, Ane Publisher, New Delhi, 2022.



### **Products produced by students under Earn-while learn scheme-**

- 1 Full-fledged production of EVA shoes (White and Black) of all sizes for Ladies, Gents and Kids by EVA press molding machine.
- 2 Full-fledged production of Plain and Acupressure Flip-flops.
- 3 Goods and Garments
  - a. Ladies' bags
  - b. Laptop Bags
  - c. Travelling Bags
  - d. Belts (Ladies, Gent, and Kids).
  - e. Key Rings
4. Production unit of EVA Ankle boot (rain boot), and crocs manufacturing is sanctioned by university and will be established by journey 2023.

### **Projects**

Dr. Atul Dayal received a grant of Rs. 2.0 lakhs under UGC minor Project. Project Title “ **Development of a Low-cost GAIT analysis system based on DEEP learning principles**, for the evaluation of human walking patterns and for taking corrective measures for improving human biomechanics with the help of custom-made footwear.”

### **FACULTY DEVELOPMENT PROGRAMS:**

1. 5 Days online FDP program attended by Dr. Atul Dayal on topic "**Inculcating Universal Human Values in Technical Education**" organised by All India Council for Technical Education (AICTE) from 28<sup>th</sup> March,2022 to 1<sup>st</sup> April, 2022.
2. 40 hours online FDP program attended by Dr. Atul Dayal on the topic of“**Applications of DATA science using ML Techniques**” Organized by E&ICT Academy, NIT Warangal and Sreenidhi Institute of Science and Technology, Hyderabad, from 23<sup>rd</sup> may to 1<sup>st</sup> June 2022.
3. 5 days (Duration 04:00 Hrs./ Day) Online Faculty Development Program attended by Mr. Arjun Verma on “**Research Methodology and Tools**” from 22-08-2022 to 26-08-



2022, organized by Department of Computer Science and Engineering, ABES Engineering College, Ghaziabad

### **Workshops/Conferences/Seminars/Webinars Organized**

- 1 A special workshop was organized by the Department of Footwear technology and Agriculture Engineering on World Water Day on 22-03-2022. The special invited guest for the lecture was Mr.B.S. Ahuja
- 2 A special invited talk was organized by the Department of Footwear technology on Recent Trends in Footwear Technology on 28-12-2021. The special invited guest for the lecture was Mr. Uday Shah
- 3 Organised Engineers' Day 2022 under DEI students Chapter (Footwear Technology) – IEI on 15<sup>th</sup> Sept. 2022. Ms. Arpita Varshney, Manager Bata India Pvt. Ltd. was the Chief Guest and delivered a talk on Present State of Art in Footwear Industries.
- 4 One day webinar attended by Dr. Atul Dayal on topic “Clinical Gait Assessment Using Plantar Pressure Analysis (Part 3): How to Analyze Data to Understand What We Are Seeing, on December 7, 2022.

### **Workshops/Conferences/Seminars/Webinars Attended**

- 1 Arjun Verma attended webinar entitled “Intellectual Property Right (How to file a patent?)” on 18-07-2021, organized by IETE MP Chapter.
- 2 Arjun Verma attended webinar entitled “Cloud Computing and Job Opportunities” on 25-07-2021, organized by IETE MP Chapter.
- 3 Arjun Verma attended webinar entitled “स्वयंसेजुड़ें एवं संवाद करें” on 19-09-2021, organized by IETE Bhopal centre.
- 4 Arjun Verma attended webinar entitled “Teaching and learning in higher and Professional Education-the challenges and opportunities” on 18-04-2022, organized by Institute for Engineering Research and Publication (IFERP).

### **Placements**

Seven companies came for placement and **100% students placed** in the session **2021-2022**

Company names are as follows-

1. Gupta HV Overseas
2. Foot on Shoes
3. Liberty shoes pvt. ltd.
4. Roger Industries
5. Alpine shoe pvt. Ltd.
6. Mountblue Technologies
7. Bata India Pvt. Ltd.

**Note-** Minimum package (**in LPA**)- **3.0** and Maximum package (**in LPA**)- **5.0**

