


FORM 13
THE PATENTS ACT, 1970
(39 of 1970)
&

THE PATENTS RULES, 2003

APPLICATION FOR AMENDMENT OF THE APPLICATION
FOR PATENT/COMPLETE SPECIFICATION
[See section 57; rule 81(1)]

<p>1. Name of the applicant(s).</p>	<p>I/We INDIAN INSTITUTE OF TECHNOLOGY MADRAS (IIT Madras) request leave to amend the application/complete specification with respect to application No. 201941036792 dated 12 October 2019 entitled MACHINE LEARNING, DEEP LEARNING AND ARTIFICIAL INTELLIGENCE FOR PHYSICAL TRANSPORT PHENOMENON IN THERMAL MANAGEMENT as highlighted in the copy hereto annexed.</p> <p>My/Our reasons for making this request are as follows:-</p> <p>To amend the address for service to:</p> <p>DEEPTech IP D-027 Manchester Grand, MG Road, Avarampalayam Coimbatore 641006 INDIA E-mail: indiafiling@deeptech-ip.com; shankar@deeptech-ip.com</p> <p>I/We declare that no action for infringement or for the revocation of the patent in question is pending before Appellate Board or a Court. I/We declare that the facts and matters stated herein are true to be best of my/our knowledge information and belief.</p>
<p>2. To be signed by the applicant(s) or patentee(s) by his authorized registered patent agent.</p> <p>3. Name of the natural person who has signed.</p>	<p>Dated this 1st day of June, 2022</p> <p style="text-align: center;"> Signature (Dr. V. SHANKAR, IN/PA-1733) Agent for the Applicants</p> <p>To The Controller of Patents The Patent Office At Chennai</p>

Note:- For fee: See First Schedule

FORM 1 THE PATENTS ACT 1970 (39 of 1970) and THE PATENTS RULES, 2003 APPLICATION FOR GRANT OF PATENT (See section 7, 54 and 135 and sub-rule (1) of rule 20)		(FOR OFFICE USE ONLY)			
		Application No.	201941036792		
		Filing date:	12 October 2019		
		Amount of Fee Paid			
		CBR No:			
		Signature:			
1. APPLICANT'S REFERENCE / IDENTIFICATION NO. (AS ALLOTTED BY OFFICE)					
2. TYPE OF APPLICATION [Please tick () at the appropriate category]					
Ordinary (<input checked="" type="checkbox"/>)		Convention ()		PCT-NP ()	
Divisional ()	Patent of Addition ()	Divisional ()	Patent of Addition ()	Divisional ()	Patent of Addition ()
3A. APPLICANT(S)					
Name in Full		Nationality	Country of Residence	Address of the Applicant	
Indian Institute of Technology Madras (IIT Madras)		Indian	India	Office of the Dean ICSR Chennai – 600036, India	
3B. CATEGORY OF APPLICANT [Please tick (<input checked="" type="checkbox"/>) at the appropriate category]					
Natural Person ()		Other than Natural Person			
		Small Entity ()	Startup ()	Others (<input checked="" type="checkbox"/>)	
4. INVENTOR(S) [Please tick () at the appropriate category]					
Are all the inventor(s) same as the applicant(s) named above?		Yes (<input checked="" type="checkbox"/>)		No ()	
If "No", furnish the details of the inventor(s)					
Name in Full		Nationality	Country of Residence	Address of the Applicant	
NANDIGANA, Vishal V.R.		Indian	India	Department of Mechanical Engineering Indian Institute of Technology Madras, Chennai-600036, India	
DASARI, Ananyananda		Indian	India	Department of Mechanical Engineering Indian Institute of Technology Madras, Chennai-600036, India	
5. TITLE OF THE INVENTION					
MACHINE LEARNING, DEEP LEARNING AND ARTIFICIAL INTELLIGENCE FOR PHYSICAL TRANSPORT PHENOMENON IN THERMAL MANAGEMENT					
6. AUTHORISED REGISTERED PATENT AGENT(S)		IN/PA No.	1733		
		Name	Dr. V. Shankar		
		Mobile No.	+919965547477		
		IN/PA No.	3735		
		Name	Priya M		
		Mobile No.	+91 8015606030		
		IN/PA No.	3792		

	Name	SoumitaMondal				
	Mobile No.	+91 9916475376				
7. ADDRESS FOR SERVICE OF APPLICANT IN INDIA		Name	DEEPTech IP			
	Postal Address	D-027 Manchester Grand, MG Road, Avarampalayam Coimbatore 641006 INDIA				
	Telephone No.					
	Mobile No.	+919965547477				
	Fax No.					
	E-mail ID	indiafiling@deeptech-ip.com ; shankar@deeptech-ip.com				
8. IN CASE OF APPLICATION CLAIMING PRIORITY OF APPLICATION FILED IN CONVENTION COUNTRY, PARTICULARS OF CONVENTION APPLICATION						
Country	Application Number	Filing date	Name of the applicant	Title of the invention	IPC (as classified in the convention country)	
NIL	NIL	NIL	NIL	NIL	NIL	
9. IN CASE OF PCT NATIONAL PHASE APPLICATION, PARTICULARS OF INTERNATIONAL APPLICATION FILED UNDER PATENT CO-OPERATION TREATY (PCT)						
International application number			International filing date			
NIL			NIL			
10. IN CASE OF DIVISIONAL APPLICATION FILED UNDER SECTION 16, PARTICULARS OF ORIGINAL (FIRST) APPLICATION						
Original (first) application No.			Date of filing of original (first) application			
NIL	NIL	NIL	NIL	NIL	NIL	
11. IN CASE OF PATENT OF ADDITION FILED UNDER SECTION 54, PARTICULARS OF MAIN APPLICATION OR PATENT						
Main application/patent No.			Date of filing of main application			
NIL	NIL	NIL	NIL	NIL	NIL	
12. DECLARATIONS						
<p>(i) Declaration by the Inventors(s)</p> <p>(In case the applicant is an assignee: the inventor(s) may sign herein below or the applicant may upload the assignment or enclose the assignment with this application for patent or send the assignment by post/electronic transmission duly authenticated within the prescribed period)</p> <p>I/We, the above named inventor(s) is/are the true & first inventor(s) for this Invention and declare that the applicant(s) herein is/are my/our assignee or legal representative.</p> <p>(a) Date</p> <p>(b) Signature(s)</p> <p>(c) Name(s) NANDIGANA, Vishal V.R.</p> <p>(a) Date</p> <p>(b) Signature(s)</p> <p>(c) Name(s) DASARI, Ananyananda</p>						

(ii) Declaration by the applicant(s) in the convention country
(In case the applicant in India is different than the applicant in the convention country: the applicant in the convention country may sign herein below or applicant in India may upload the assignment from the applicant in the convention country or enclose the said assignment with this application for patent or send the assignment by post/electronic transmission duly authenticated within the prescribed period)
 I/We, the applicant(s) in the convention country declare that the applicant(s) herein is/are my/our assignee or legal representative.

(iii) Declaration by the applicant(s)
 I/We the applicant(s) hereby declare(s) that: -
 I am/~~We~~ are in possession of the above-mentioned invention
 The ~~provisional~~ complete specification relating to the invention is filed with this application
 The invention as disclosed in the specification uses the biological material from India and the necessary permission from the competent authority shall be submitted by me/us before the grant of patent to me/us
 There is no lawful ground of objection(s) to the grant of the Patent to me/us
 I am/~~we~~ are the true & first inventor(s)
 ~~I am~~/we are the assignee or legal representative of true & first inventor(s)
 The application or each of the applications, particulars of which are given in Paragraph-8, was the first application in convention country/countries in respect of my/our invention(s)
 I/We claim the priority from the above mentioned application(s) filed in convention country/countries and state that no application for protection in respect of the invention had been made in a convention country before that date by me/us or by any person from which I/We derive the title.
 My/our application in India is based on international application under Patent Cooperation Treaty (PCT) as mentioned in Paragraph-9
 The application is divided out of my /our application particulars of which is given in Paragraph-10 and pray that this application may be treated as deemed to have been filed on DD/MM/YYYY under section 16 of the Act.
 The said invention is an improvement in or modification of the invention particulars of which are given in Paragraph-11.

13. FOLLOWING ARE THE ATTACHMENTS WITH THE APPLICATION
 (a) Form 2

Item	Details	Pages	Fee	Remarks
Complete/ Provisional specification)#	No. of pages	1-28		
No. of Claim(s)	No. of claims and No. of pages	17 and 29-34		
Abstract	No. of pages	1		
No. of Drawing(s)	No. of drawings and No. of pages	32 and 36-46		

In case of a complete specification, if the applicant desires to adopt the drawings filed with his provisional specification as the drawings or part of the drawings for the complete specification under rule 13(4), the number of such pages filed with the provisional specification are required to be mentioned here.

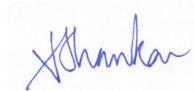
(b) Complete specification (in conformation with the international application)/as amended before the International
 (c) ~~Sequence listing in electronic form~~
 (d) Drawings (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies)
 (e) ~~Priority document(s) or a request to retrieve the priority document(s) from DAS (Digital Access Service) if the applicant had already requested the office of first filing to make the priority document(s) available to DAS~~
 (f) ~~Translation of priority document/Specification/International Search Report/International Preliminary Report on Patentability~~

- (g) Statement and Undertaking on Form 3
(h) Declaration of Inventorship on Form 5
(i) Copy of General Power of Authority
(j) ~~Request For Examination Of Application For Patent on Form 18~~

**Total fee ₹.....in Cash/ Banker's Cheque /Bank Draft bearing No..... Date.....on
..... Bank**

I/We hereby declare that to the best of my/our knowledge, information and belief the fact and matters slated herein are correct and I/We request that a patent may be granted to me/us for the said invention.

Dated this 12th day of October 2019



Signature:

Name:

Dr. V. SHANKAR
IN/PA/1733
For and on behalf of the Applicant

To,
The Controller of Patents
The Patent Office, at Chennai

Note: -

- * Repeat boxes in case of more than one entry.
- * To be signed by the applicant(s) or by authorized registered patent agent otherwise where mentioned.
- * Tick (ll)/cross (x) whichever is applicable/not applicable in declaration in paragraph-12.
- * Name of the inventor and applicant should be given in full, family name in the beginning.
- * Strike out the portion which is/are not applicable. For fee: See First Schedule



कमिपुना ७ तमिलनाडु TAMILNADU 23 FEB 2021

IIT MADRAS

CC 992746

N. ILANGO VAN STAMP VENDOR
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FORM - 26
THE PATENTS ACT, 1970
(39 of 1970)

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The Patents Rules, 2003

FORM OF AUTHORIZATION OF A PATENT AGENT/OR ANY PERSON IN A
MATTER OR PROCEEDING UNDER THE ACT

[See section 127 and 132 and rule 135]

We, Indian Institute of Technology Madras (IIT Madras), a statutory body constituted under the Indian Institute of Technology Act 1961, functioning at its premises at Indian Institute of Technology Madras, Industrial Consultancy & Sponsored Research [IC&SR], Sardar Patel road, IIT PO, Chennai – 600036, India hereby authorize:

Dr. V. SHANKAR IN/PA-1733, PRIYA M IN/PA-3735, SOUMITA MONDAL IN/PA-3792, Indian Citizens and Registered Patent Agents, of DEEPTTECH IP, with mailing address at D-027 Manchester Grand MG Road, Avarampalayam, Coimbatore 641006, INDIA, to act on our behalf as our agents for securing from the Government of India,

1 of 2

V. Shankar



Letters Patents under the above mentioned Act in respect of all our inventions; and in all matters and proceedings before the Controller of Patents or the Government of India in connection therewith or incidental thereto including filing of any document and paying any fees in connection therewith, amendment of the application, specification, or any other document filed in respect thereof, prosecution thereof including attendance of any hearing appointed by any authority in connection therewith, amendment of any patent, and renewals thereof, filing statements of working thereof, restoration thereof, registration of any assignment, license, mortgage, merger or transfer or creation of any other interest in respect thereof, recordal of change in name, address or address for service and in general to do all acts or things, and request that all notices and communications relating to the matters and proceedings foregoing be sent to such agents at:

DEEPTTECH IP
D-027 Manchester Grand
MG Road, Avarampalayam,
Coimbatore 641006, INDIA


We hereby confirm and ratify previous acts, if any done by the said agents in respect of matters and proceedings.

We hereby revoke previous authorizations, if any made in respect of the said matters and proceedings.

Dated this 16th day of March, 2021.

Signature of the Applicant: _____

Name of Authorized Signatory: _____


डीन (आइ.ए.ए. ए.एस.आर.)
DEPTTECH (SR)
आइ.ए.ए. मद्रास
I.I. T. CHENNAI RAS
चेन्नै/CHENNAI - 600 036

The Controller of Patents
The Patent Office
Chennai 600 032

