



क्रम सं/SL No :044180342

पेटेंट कार्यालय, भारत सरकार

The Patent Office, Government Of India

पेटेंट प्रमाण पत्र

Patent Certificate

(पेटेंट नियमावली का नियम 74)

(Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No.

516419

आवेदन सं. / Application No.

201941024087

फाइल करने की तारीख / Date of Filing

18/06/2019

पेटेंटी / Patentee

ALVA'S EDUCATION FOUNDATION

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित SMART SHOCKWAVE VELOCITY MEASUREMENT SYSTEM BASED ON P(VDF-TRFE)PIEZOSENSORS AND ARDUINO नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख जून 2019 के अठारहवें दिन 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 SMART SHOCKWAVE VELOCITY MEASUREMENT SYSTEM BASED ON P(VDF-TRFE)PIEZOSENSORS AND ARDUINO as disclosed in the above mentioned application for the term of 20 years from the 18th day of June 2019 in accordance with the provisions of the Patents Act, 1970.



इकात की संज्ञा

अनुदान की तारीख : 28/02/2024

पेटेंट नियंत्रक

Controller of Patents

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, जून 2021 के अठारहवें दिन को 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 18th day of June 2021 and on the same day in every year thereafter.



**INTELLECTUAL
PROPERTY INDIA**

एकस्व/PATENTS | अभिकल्प/DESIGNS |
व्यापार चिह्न/TRADE MARKS | भौगोलिक
उपदर्शन/GEOGRAPHICAL INDICATIONS



**भारत सरकार
GOVERNMENT OF INDIA**

एकस्व कार्यालय / THE PATENT OFFICE
बौद्धिक सम्पदा भवन / I.P.O. BUILDING
जी.एस.टी.रोड, गिन्डी / G.S.T.Road, Guindy,
चेन्नई / Chennai- 600032
दूरभाष / Tel. No. : (091)(044)22502081-84
फैक्स / Fax: 044 22502066

Email/ई मेल : Chennai-patent@nic.in
वेबसाइट / Website: <http://ipindia.nic.in>

सं. \ No. 201941024087

दिनांक \ Dated the 28/02/2024

सेवा में, \ To :

Address of Service:- ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY SHOBHAVANA CAMPUS, MIJAR, MOODBIDRI,
DAKSHINA KANNADA - 576 225, KARNATAKA, INDIA. rpinto1942@gmail.com
Email Id:- rpinto1942@gmail.com

विषय :- पेटेंट आवेदन संख्या 201941024087 के संबंध में अधिनियम की धारा 43 के तहत पेटेंट अनुदान तथा पेटेंट रजिस्टर में प्रविष्टि की सूचना
Sub :- Intimation of the grant and recordal of patent under section 43 of the Act in respect of patent application no. 201941024087

महोदय/महोदया,
Sir/Madam,

आपको सूचित किया जाता है कि पेटेंट अधिनियम, 1970 की धारा 12 व 13 तथा उस आधार पर बने नियम के तहत उपर्युक्त पेटेंट आवेदन के परीक्षण [व ----- को हुई सुनवाई] के उपरान्त एतद्वारा पेटेंट अनुदान किया जाता है। तथा पेटेंट अनुदान की प्रविष्टि 28/02/2024 को पेटेंट रजिस्टर में कर दी गयी है।

This is to Inform you that following the examination of above mentioned patent application under section 12 and 13 of The Patents Act, 1970 and Rules made thereunder [and hearing held on -----] a patent is hereby granted and recorded in the Register of Patents on the 28/02/2024. The Patent Certificate is enclosed herewith.

पेटेंट संख्या \ Patent No	: 516419
आवेदक का नाम \ Name Of Applicant	: ALVA'S EDUCATION FOUNDATION
पेटेंट दिनांक \ Date of Patent	: 18/06/2019
पूर्विका तिथि \ Priority Date	: 18/06/2019
परीक्षण हेतु अनुरोध दाखिल करने की तिथि \ Filing date of Request for examination	: 25/08/2021
शीर्षक \ Title	: SMART SHOCKWAVE VELOCITY MEASUREMENT SYSTEM BASED ON P(VDF-TRFE) PIEZOSENSORS AND ARDUINO
दावों की संख्या \ Number of claims	: claim 1 uploaded on 22/12/2022
Controller' Name	: Kailash Chand Bairwa
Controller' Email	: kbairwa.ipo@gov.in
Controller' Location	: Nagpur

उपर्युक्त पेटेंट के अनुदान का प्रकाशन अधिनियम की धारा 43 के तहत पेटेंट कार्यालय के आधिकारिक जर्नल में किया जाएगा।
The grant of above mentioned patent will be published in the Official Journal of the patent Office under section 43 of the Act.

पेटेंट अधिनियम 1970 यथा संशोधित पेटेंट (संशोधन) नियम, 2005/ पेटेंट नियम, 2003 यथा संशोधित पेटेंट (संशोधन) नियम, 2016 की धारा 142 की उप-धारा (4) के प्रावधानों के तहत उपरोक्त प्रविष्टि की तिथि से 3 माह के भीतर इस कार्यालय में नवीकरण शुल्क जमा किया जाना चाहिए।

The payment of renewal fee is required to be made at this office within three(3) months from the aforesaid date of recording according to the proviso in sub-section(4) of Section 142 of The Patents Act, 1970, as amended by The Patents (Amendment) Act, 2005 / The Patents Rules, 2003 as amended by The Patents (Amendment) Rules, 2016.

Kailash Chand Bairwa
(नियंत्रक पेटेंट)
Controller of Patents

टिप्पणी / Note :

1. संशोधित नवीकरण शुल्क हेतु कृपया महानियंत्रक पेटेंट, अभिकल्प एवं व्यापार चिह्न की आधिकारिक वेबसाइट www.ipindia.gov.in पर उपलब्ध पेटेंट (संशोधन) नियम 2016 की प्रथम अनुसूची (शुल्क) देखें।

For revised renewal fees kindly refer to the First Schedule (fees) of The Patents (Amendment) Rules 2016 available on the official website of Controller General of Patents, Designs and Trade Marks www.ipindia.gov.in

2. कार्यालय द्वारा पेटेंट प्रमाणपत्र की कोई भी कागजी प्रति अलग से जारी नहीं की जाएगी।

No hard copy of Patent Certificate shall be issued separately by the office.

FORM 1
THE PATENTS ACT 1970
(39 of 1970) &
The Patent Rules, 2003
APPLICATION FOR GRANT OF
PATENT.
(See section 7, 54 & 135, and rule
20(1))

(FOR OFFICE USE ONLY)

Application No:

Filing Date:

Amount of fee paid:

CBR No:

Signature:



700246013

Application No.	2019H1024087
Filing date:	18/06/2019
Amount of Fee paid:	8800/-
CBR No:	19394
Signature	<i>[Signature]</i> 18/6/19

1. APPLICANT'S REFERENCE /
IDENTITY NUMBER. (AS ALLOTTED BY
OFFICE)

2. TYPE OF APPLICATION [Please tick (✓) at the appropriate category]

Ordinary (✓)		Convention ()		PCT-NP ()	
Divisional ()	Patent of Addition ()	Divisional ()	Patent of Addition ()	Divisional ()	Patent of Addition ()

3A. APPLICANTS

Name in Full	Nationality	Country of Residence	Address of Applicant
ALVA'S EDUCATION FOUNDATION	Indian	India	ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY SHOBHAVANA CAMPUS, MIJAR, MOODBIDRI, DAKSHINA KANNADA - 576225, KARNATAKA, INDIA

3B. CATEGORY OF APPLICANT [Please tick (✓) at the appropriate category]

Natural Person ()		Others (✓)
--------------------	--	------------

4. INVENTOR(S) [Please tick (✓) at the appropriate category]

Are all the inventor(s) same as the applicant(s) named above?	Yes ()	No (✓)
--	---------	--------

If NO furnish the details of the inventors

Name in Full	Nationality	Country of Residence	Address of Inventor
RAMAPRASAD ARANTHADI THIMMAPPA	Indian	India	ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY, SHOBHAVANA CAMPUS, MIJAR, MOODBIDRI, DAKSHINA KANNADA - 576225, KARNATAKA, INDIA
ARJUN SUNIL RAO	Indian	India	ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY, SHOBHAVANA CAMPUS, MIJAR, MOODBIDRI, DAKSHINA KANNADA - 576225, KARNATAKA, INDIA
ANOOP RADHA BALAN	Indian	India	ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY, SHOBHAVANA CAMPUS, MIJAR,

PATENT OFFICE CHENNAI

20/06

18-Jun-2019/50642/201941024087/Form 1

			MOODBIDRI, DAKSHINA KANNADA - 576225, KARNATAKA, INDIA
JYOTHISH KUMAR KUNHIPURAYIL	Indian	India	ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY, SHOBHAVANA CAMPUS, MIJAR, MOODBIDRI, DAKSHINA KANNADA - 576225, KARNATAKA, INDIA
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RICHARD PINTO	Indian	India	ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY, SHOBHAVANA CAMPUS, MIJAR, MOODBIDRI, DAKSHINA KANNADA - 576225, KARNATAKA, INDIA
PETER FERNANDES	Indian	India	ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY, SHOBHAVANA CAMPUS, MIJAR, MOODBIDRI, DAKSHINA KANNADA - 576225, KARNATAKA, INDIA

5. TITLE OF THE INVENTION

"SMART SHOCKWAVE VELOCITY MEASUREMENT SYSTEM BASED ON P(VDF-TrFE) PIEZOSENSORS AND ARDUINO"

6. AUTHORISED REGISTERED PATENT AGENT(S)

Name	NA
Mobile no.	NA

7. ADDRESS FOR SERVICE OF APPLICANT IN INDIA

Name	ALVA'S EDUCATION FOUNDATION
Postal Address	ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY SHOBHAVANA CAMPUS, MIJAR, MOODBIDRI, DAKSHINA KANNADA - 576225, KARNATAKA, INDIA
Telephone No.	-
Mobile No.	09892818760/ 09920818760
Fax No.	08258 - 262726
E-Mail ID	rpinto1942@gmail.com

8. IN CASE OF APPLICATION CLAIMING PRIORITY OF APPLICATION FILLED IN CONVENTION COUNTRY, PARTICULARS OF CONVENTION APPLICATION

Country	Application number	Filing date	Name of applicant	Title of invention	IPC (as classified in the convention country)

Not Applicable

9. IN CASE OF PCT NATIONAL PHASE APPLICATION, PARTICULARS OF INTERNATIONAL APPLICATION FILED UNDER PATENT CO-OPERATIVE TREATY (PCT)

International application number: Not Applicable	International filing date: Not Applicable
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10. IN CASE OF DIVISIONAL APPLICATION FILED UNDER SECTION 16,

PARTICULARS OF ORIGINAL (FIRST) APPLICATION

Original (first) application number: Not Applicable	Date of filing of Original (first) application: Not Applicable
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11. IN CASE OF PATENT OF ADDITION FILED UNDER SECTION 54, PARTICULARS OF MAIN APPLICANT OR PATENT

Main application/ Patent Number: Not Applicable	Date of Filing of main application: Not Applicable
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12. DECLARATION


i) Declaration by the inventors

(In case the applicant is an assignee: the inventors 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)

We, the above named inventors are the true and first inventors for this invention and declare that the applicants herein are our assignee or legal representative.

(i)


(a) Date: 18.06.2019

(b) Signature of the inventors: 

(c) Name: RAMAPRASAD ARANTHADI THIMMAPPA

(ii)

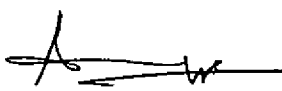
(a) Date: 18/6/2019

(b) Signature of the inventors: 

(c) Name: ARJUN SUNIL RAO

(iii)


(a) Date: 18/6/2019

(b) Signature of the inventors: 

(c) Name: ANOOP RADHA BALAN

(iv)

(a) Date: 18-06-2019

(b) Signature of the inventors: 

(c) Name: JYOTHISH KUMAR KUNHIPURAYIL

v)


(a) Date: 18.06.2019

(b) Signature of the inventors: 

(c) Name: ARJUN ASHOK AMBATTUPARAMBIL

vi)


(a) Date: 18/6/2019

(b) Signature of the inventors: 

(c) Name: JAYARAMA ARASALIKE

vii)

(a) Date: 18/6/2019

(b) Signature of the inventors: 

(c) Name: RICHARD PINTO

OFFICE CHENNAI 20/06/2019 14:21

viii)

- (a) Date: 18-06-2019
(b) Signature of the inventors:
(c) Name: PETER FERNANDES

ii) Declaration by the applicant:

I, the applicant hereby declare that:-

- ☐ I am 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 us before the grant of the patent to us.
- ☐ There is no lawful ground of objection to the grant of the patent to us.
- ☐ I am the assignee or legal representative of true and first inventors.
- ☐ The application or each of the application, particulars of which are given in Para 5 was the first application in convention country/countries in respect of our invention.
- ☐ I claim the priority from the above mentioned applications filed in convention country 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 we derive the title.
- ☐ My application in India is based on international application under Patent Cooperation Treaty (PCT) as mentioned in Para - 9.
- ☐ The application is divided out of our application particulars of which are given in Para-10 and pray that this application may be treated as deemed to have been filed on.....under section 16 of the Act.
- ☐ The said invention is an improvement in or modification of the invention particulars of which are given in Para-11

13. FOLLOWING ARE THE ATTACHMENTS WITH THE APPLICATION

(a) Form 2

Item	Details	Fee	Remarks
Complete specification	No. of Pages : 9		
No. of Claims	No. of claims : 1 No. of Pages : 1	Rs.8800/-	Addl. Pages-N/A Addl. Claims-N/A
Abstract	No. of Pages : 1		
No. of Drawings	No. of drawings : 2 No. of pages : 3		

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 drawings for the complete specification under rule 13(4) , the number of such pages filed with the provisional specification are required to mentioned here.

(b) Complete specification (in confirmation with the international application)/ as amended before the International preliminary Examination Authority (IPEA), as applicable (2 copies).

(c) Sequence listing in electronic format.

(d) Drawing (in confirmation 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 Inventor ship on Form 5.

(i) Power of Attorney.

PATENT

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(j) Total Fee ₹ ----- in Cheque bearing no:
dated this bank, drawn from

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

Dated this 18th day of June, 2019.

For ALVA'S EDUCATION FOUNDATION,

Authorized Signatory:

Name in full: Dr. Mohan Alva
Designation: Chairman



Seal:

Chairman

Alva's Education Foundation (R)
MOODBIDRI - 574227, D.K.

To,
The Controller of Patents,
Patent Office Chennai,
Chennai - 600 032.

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