



बौद्धिक संपदा कार्यालय, भारत सरकार, Intellectual Property Office, Government of India, (वौफ्किक সম্পত্তিৰ কাৰ্যালয়, ভাৰত চৰকাৰ, बौद्धिक संपदा दफ्तर,



## دی انٹیلیکچولپراپر, அறிவுசா**पेटेंट**ा**प्रमाण**

बोद्धिङसंपद्यानुंडायविय, भारतसरहार, का पेटेंट कायोलय, भारत सरकार का The Patent Office, Government Of India Patent Certificate

बौद्धिक सम्पत्ति कार्यालयं, भारत सरकार, من ्पेटेंर्ट नियमावली का नियम أَمَارَ (Rule 74 of The Patents Rules) وَالْمُواكِّنِينِ وَالْمُواكِّنِينِ وَالْمُواكِّنِينِ اللهِ اللهِ اللهِ اللهُ الل

पेटेंट सं. री Patent No. मनवान, Формая G2Cabe 62ka. 487817m.c. Фарадо Карара, बौद्धिक संपदा चा कार्यालय, भारत सरकार,

ت جو ,அறிவு வலகம், இந்திய அரசு آفس آف دی انٹیلیکجولیرایرٹیگورنمنٹ آف انڈیا ,அறிவுசார் சொத்து அலுவலகம், இந்திய அரசு

आवेदन सं. / Application No. पति कार्यालये. भारत :रकार 201941035383 اتليكچوئل برابرئي పథో సంపత్తి కార్యాలయము, భారత

फाइल करने की तारीख / Date of Filing

गर्यालय, ७ वर् ५03/09/2019 संपदा दफ्तर, भारत सरकार, (वीद्धिक जल्लाम कार्यालय, छाउ०

पेटेंटी / Patentee

ALVA'S EDUCATION FOUNDATION NO LONDON, बौद्धिक संपदा

भारत प्रमाणित किया जाता है <mark>कि पेटेंटी को. उपरोक्त</mark> आवेदन में यथाप्रकटित A PROCESS FOR ENHANCING HYDROGEN FUEL CELLS PERFORMANCE WITH NAFION PROTON EXCHANGE MEMBRANE OPTIMAL नामक आविष्कार के लि<mark>ए, पेटेंट अधिनियम</mark>, 1970 के उपबंधों के अनुसार आज तारीख सितम्बर 2019 के तीसरे दि<mark>न से बीस वर्ष</mark> 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 A PROCESS FOR ENHANCING HYDROGEN FUEL CELLS PERFORMANCE WITH NAFION PROTON EXCHANGE MEMBRANE OPTIMAL as disclosed in the above mentioned application for the term of 20 years from the 3rd day of September 2019 in accordance with the provisions of the Patents Act,1970.

పథో సంపత్తి కార్యాలయవ, बौद्धिक सम्पत्ति कार्यालयं, भारत सरकार, انٹلیکچوئل پراپرٹی آفس، حکومت بند

बौद्धिक संपदा कार्यालय, भारत सरकार, ਬੌਧਿਕ ਸੰਪਤੀ ਦਫਤਰ, ਭਾਰਤ ਸਰਕਾਰ, ወ১೪岛೫ G20៧೮ b೫୪୬.৫ b೫৯১೫೪೫.৫, Ф岛೫৯೫೦ ೬೪৯১৮೫৯, ब्रा

भारत सरकार, Intellectual Property Office, Government of India, বৌদ্ধিক সম্পত্তিৰ কাৰ্যালয়, ভাৰত চৰকাৰ, ৰীद्धिक संपदा दफ्तर, भारत सरकार

22/12/2023 Date of Grant :

संपदा कार्यालय भ Controller of Patents

**टिप्पणी** - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, सितम्बर 2021 के तीसरे दिन को और उसके पश्चात प्रत्येक वर्ष मे उसी दिन देय होगी। Note. - The fees for renewal of this patent, if it is to be maintained, will fall / has fallen due on 3<sup>rd</sup> day of September 2021 and on the same day in every year thereafter. The same day in every year thereafter.

सरकार, घेंपिव मेंपेडी स्ढेंड, बार्चे मठवार, Ф५%३७ G2000 b7ए७.३ b७৯५७००.c, Ф८७৯७७० ४७३५७०, बौद्धिक संपदा चा कार्यालय, भारत सरकार, ବୌଦିକ धर्मा





## भारत सरकार GOVERNMENT OF INDIA

एकस्व कार्यालय / THE PATENT OFFICE बौद्धिक सम्पदा भवन / I.P.O. BUILDING जी.एस.टी.रोड, गिंडीं/ G.S.T.Road, Guindy,

चेन्नई/ Chennai- 600032

दूरभाष/ Tel. No.: (091)(044)22502081-84

फ़ैक्स/Fax: 044 22502066

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

दिनांक \ Dated the 22/12/2023

## सेवा मे, \ To :

ਚਂ. \ No. 201941035383

Address of Service:- ALVA"S INSTITUTE OF ENGINEERING AND TECHNOLOGY SHOBHAVANA CAMPUS, MIJAR, MOODBIDRI, DAKSHINA KANNADA - 574 225, KARNATAKA, INDIA.

Email Id:- rpinto 1942@gmail.com

विषय :- पेटेंट आवेदन संख्या 201941035383 के संबंध मे अधिनियम की धारा 43 के तहत पेटेंट अनुदान तथा पेटेंट रजिस्टर मे प्रविष्टि की सूचना

Sub: Intimation of the grant and recordal of patent under section 43 of the Act in respect of patent application no. 201941035383

महोदय/महोदया,

Sir/Madam,

आपको सूचित किया जाता है कि पेटेंट अधिनिय, 1970 की धारा 12 व 13 तथा उस आधार पर बने नियम के तहत उपर्युक्त पेटेंट आवेदन के परीक्षण [व ------ को हुई सुनवाई] के उपरांत एतदद्वारा पेटेंट अनुदान किया जाता है। तथा पेटेंट अनुदान की प्रविष्टि 22/12/2023 को पेटेंट रजिस्टर मे 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 22/12/2023. The Patent Certificate is enclosed herewith.

पेटेंट संख्या \ Patent No : 487817

आवेदक का नाम \ Name Of Applicant : ALVA'S EDUCATION FOUNDATION

पेटेंट दिनांक \ Date of Patent : 03/09/2019 पुर्विक्ता तिथि \ Priority Date : 03/09/2019

परीक्षण हेतु अनुरोध दाखिल करने की तिथि \ Filling : 25/08/2021

date of Request for examination

য়ীর্গক \ Title : A PROCESS FOR ENHANCING HYDROGEN FUEL CELLS PERFORMANCE WITH NAFION

PROTON EXCHANGE MEMBRANE OPTIMAL

दावों की संख्या \ Number of claims : 1

Controller' Name : Anil Suwalka Controller' Email : anil.ipo@nic.in

Controller' Location : Delhi

उपर्युक्त पेटेंट के अनुदान का प्रकाशन अधिनियम की धारा 43 के तहत पेटेंट कार्यालय के आधिकारिक जर्नल मे 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 मे 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.

Anil Suwalka

(नियंत्रक पेटेंट)

Controller of Patents

## टिप्पणी / Note :

1. संशोधित नवीकरण शुल्क हेतु कृपया महानियंत्रक पेटेंट, अभिकल्प एवं व्यापार चिह्न की आधिकारिक वैबसाइट 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

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.

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	3A. APPLICANTS							
	Name in Full	Nationality	Country Residence	LAMMINE				
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	Fax No.			09920818760 08258 - 262726			
			E-Mail ID			to1942@gmail.com	
8 IN CAS	8. IN CASE OF APPLICATION CLAIMING			RIORITY OF			
CONVNET	ION COUNT	RY, PART	ICULARS OF	CONVNETIC	ON AF	PLICATION	
Country	Application	Filing		Title of inven	ition	IPC (as classified in	
	number	date	applicant		the convention country)		
			Not Applic				
INTERNAT						PARTICULARS OF OPERATIVE TREATY	
(PCT) Internation Applicable	al application	on numb	per: Not	Internationa	l filing	date: Not Applicable	
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PARTICUI	LARS OF ORI	GINAL (FII		ATION	filing	of Original (first)	
Applicable				application:	Not A	pplicable	
OF MAIN A	APPLICANT C	OR PATEN	Τ			N 54, PARTICULARS	
Main application/ Patent Number: Not Date of Filing of main application: N Applicable						main application: Not	
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 (b) Sigr	e:3/9/20/9 nature of the in me: PREETI						
(a) Date: 3/9/20/9 (b) Signature of the inventors: (c) Name: SOHAN POOJARI (iii)							
(a) Date: 3-9-20/9 (b) Signature of the inventors: (c) Name: SUNNY RAMNIWAS SHARMA							
(iv) (a) Date: 3. 9. 24/9 (b) Signature of the inventors (c) Name: POOJARI PRASHANT SHEKAR  (v) OFFICE CHENNAT 04/09/2019 16:00  (a) Date: 99209 (b) Signature of the inventors: Office (c) Name: CHIRAG SATISH POOJARI							

	vi) (a) Date: 3/9/20/9 (b) Signature of the inventors: (c) Name: JAYARAMA ARASALIKE						
	7 m · ·						
	(vii) (a) Date: 3/9/2019 (b) Signature of the inventors: (c) Name: SATYANARAYAN						
	(viii)						
	(a) Date: ج و روم (b) Signature of the (c) Name: RICH (ix)		<u>+•</u>				
	(a) Date: ؏_ 句 - (b) Signature of the	- 2-019 e inventors: / /// GANESH PRABHU	ablu				
		DANEON NABITO					
	(a) Date: 3/9/20 (9) (b) Signature of the inventors: Sidnature Duagnaria (c) Name: SIDDHARTHA PRAKASH DUTTAGUPTA						
	<ul> <li>ii) Declaration by the applicant:</li> <li>I, the applicant hereby declare that:-</li> <li>I am in possession of the above mentioned invention.</li> <li>The provisional/complete specification relating to the invention is filed with this</li> </ul>						
	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.						
	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 onunder section 16 of the Act.						
	which are given in Para-11						
١	13. FOLLOWING ARE THE ATTACHMENTS WITH THE APPLICATION						
	(a) Form 2						
	Item	Details	Fee	Remarks			
	Complete specification	No. of Pages : 17					
	No. of Claims	No. of claims : 1					
, , ,		No. of Pages : 1,	AR 8800/- 1 1 1	Add burg - N/			
V	Abstract	No. of Pages: 1	15 TO 15 1 15 1 15 1 15 1 15 1 15 1 15 1	Add Chino N/2			
İ	No. of Drawings	No. of drawings : 5					
		No of pages : E		1			

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.  ii) Power of Attorney.						
j) Total Fee ₹ in Cheque bearing no:						
dated this 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 day of						
For ALVA'S EDUCATION FOUNDATION,						
Authorized Signatory:  Name in full: Dr. Mahan Alva						
Name in full: Dr. Mohan Alva						
Designation: Chairman						
Designation. Origination						
Chairman  Seal: Alva's Education Foundation (R)  MOODBIDRI - 574227, D.K.						

The Controller of Patents,

Patent Office Chennai, Chennai – 600 032.