

FORM 18
THE PATENTS ACT, 1970
(39 OF 1970)

&
The patents Rules, 2003
REQUEST FOR EXAMINATION OF APPLICATION FOR PATENT
[See section 11B and rule 20(4)(ii), 24B(1)(i)]

700333097
(FOR OFFICE USE ONLY)

RQ. No: R20194032178
Filing Date: 16/10/2019
Amount of Fee Paid: 22000/-
CBR No. 33699
Signature: *[Signature]*

APPLICANTS:

1. Dr. M.G.R. Educational and Research Institute
Indian
Maduravoyal, Chennai,
Tamil Nadu 600095.
E-mail: patent@drmgrdu.ac.in

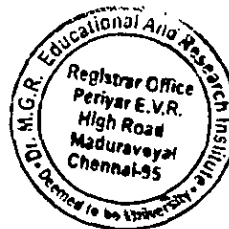
We hereby request that our application for patent no. 05708/CHE/2015 filed on 23-Oct-15 for the invention titled "SMART HELMET" shall be examined under sections 12 and 13 of the Act.

ADDRESS FOR SERVICE:

Dated this 16th day of October 2019

Signature:

C.B. Palanivelu
For Dr. M.G.R. Educational and Research Institute
REGISTRAR
Dr. M.G.R.
EDUCATIONAL AND RESEARCH INSTITUTE
(Deemed to be University)
Periyar E.V.R. High Road,
Maduravoyal, Chennai 600095



To
The Controller of Patents,
The Patent Office at Chennai

PATENT OFFICE CHENNAI 17/10/2019 15:22

16-Oct-2019/87051/5708-CHE-2015/Form 18



भारत सरकार
GOVERNMENT OF INDIA

एकस्व कार्यालय / THE PATENT OFFICE
बौद्धिक सम्पदा भवन / I.P.O. BUILDING
जी.एस.टी.रोड, गिंडी / 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.संख्या/Ref.No /आवेदन संख्या/Application No/ 5708/CHE/2015

दिनांक/Date of Dispatch/Email: 04/12/2020

सेवा मे, /To

N. Sreevidya,

TRINITY PATENT SOLUTIONS, Old No.62/New.No. 141, First Floor, East Kondayampet, Thiruvanaikoil
Tiruchirappalli - 620 005, Tamilnadu, INDIA

Email : trinitypatsol@gmail.com

विषय: एकस्व अधिनियम, 1970 की धारा 12 व 13 तथा एकस्व नियम, 2003 के अधीन परीक्षण रिपोर्ट

Subject: Examination report under sections 12 & 13 of the Patents Act, 1970 and the Patents Rules, 2003.

1. उपर्युक्त आवेदन के संदर्भ में परीक्षण रिपोर्ट (अर्थात, एकस्व नियम, 2003 (यथा संशोधित) के नियम 24-ख(3) में विनिर्दिष्ट आपत्तियों का प्रथम कथन) इसके साथ संलग्न है। यह रिपोर्ट परीक्षण हेतु अनुरोध दिनांक 16/10/2019 के उत्तर में जारी की गयी है। परीक्षण रिपोर्ट का उत्तर दाखिल करने की अंतिम तिथि (अर्थात, इस रिपोर्ट में लगाई गयी सभी आवश्यकताओं के अनुपालन की अवधि) आवेदक को आपत्तियों का प्रथम कथन जारी होने की तिथि से छः माह है।

Please find enclosed herewith an Examination Report (i.e. a first statement of objections as specified in Rule 24-B(3) of The Patents Rules, 2003 (as amended)) in respect of above-mentioned application. This report is issued with reference to a request for examination dated 16/10/2019. The last date for filing a response to the Examination Report (i.e. a period to comply with all the requirements raised in this examination report) is six months from the date on which the first statement of objections is issued to the Applicant.

2. यदि रिपोर्ट के अंतर्गत लगाई गयी आवश्यकताओं का अनुपालन एकस्व नियम, 2003 (यथा संशोधित) के नियम 24 ख(5) में विनिर्दिष्ट अवधि के भीतर अंदर अनुपालन नहीं किया गया तो एकस्व अधिनियम 1970 की धारा 21(1) के अधीन वर्तमान आवेदन को परित्यक्त माना जाएगा।

The instant application shall be deemed to have been abandoned under Section 21(1) of The Patents Act, 1970, unless all the requirements raised in this report are complied with in the period as specified in Rule 24-B (5) of The Patents Rules, 2003 (as amended).

3. आपका ध्यान एकस्व नियम, 2003 के नियम 24 ख(6) के प्रावधानों की ओर भी आमंत्रित किया जाता है।
Your attention is also invited to the provisions of Rule 24-B (6) of the Patents Rules 2003.
4. आपको सलाह दी जाती है कि शीघ्र निपटान हेतु अपना उत्तर शीघ्र प्रस्तुत करें।
You are advised to file the reply at the earliest for early disposal.

Palaniswamy V
नियंत्रक पेटेंट/ Controller of Patents

संलग्न/Enclosed: अपरोक्त अनुसार/As above

टिप्पणी: यह इलेक्ट्रॉनिक रूप से उत्पन्न रिपोर्ट है।

NOTE: This is an electronically generated report.

सभी पत्राचार नियंत्रक एकस्व को उपरोक्त पते पर भेजा जाये।

All communications should be sent to the Controller of Patents at the above mentioned address.

परीक्षण रिपोर्ट /Examination Report

आवेदन संख्या /Application Number	5708/CHE/2015
दाखिल करने की तिथि /Date of Filing	23/10/2015
पूर्विका दिनांक /Date of Priority	--
पीसीटी अंतर्राष्ट्रीय आवेदन की संख्या व दिनांक / PCT International Application No. & Date	--
आवेदक /Applicant	Dr.M.G.R Educational and Research Institute
परीक्षण हेतु अनुरोध की संख्या व दिनांक /Request for Examination No. & Date	R20194032178 16/10/2019
प्रकाशन की तिथि /Date of Publication	24/11/2017

इस परीक्षण रिपोर्ट के चार भाग हैं, अर्थात् रिपोर्ट का सारांश, विस्तृत तकनीकी रिपोर्ट, औपचारिक आवश्यकताएँ तथा रिकॉर्ड में दस्तावेज़ /
This examination report consists of four parts, namely summary of the report, detailed technical report, formal requirements and documents on record.

भाग -1: रिपोर्ट का सारांश

PART-I: SUMMARY OF THE REPORT

क्र. सं. /Sl. No.	अधिनियम के तहत आवश्यकताओं पर विस्तृत टिप्पणियाँ /Requirements under the Act	दावों की संख्या /Claim Numbers	टिप्पणी /Remarks
1.	धारा 2(1)(ग) के तहत आविष्कार /Invention u/s 2(1)(i)	नवीनता /Novelty	दावे /Claims: 1-2
			हाँ /Yes
		दावे /Claims:	नहीं /No
		आविष्कारी कदम / Inventive step	दावे /Claims:
			हाँ /Yes
		दावे /Claims: 1-2	नहीं /No
2.	[धारा 10(5) व 10(4) (ग)] के अधीन दावे /Claims [u/s 10(5) & 10(4) (c)]	औद्योगिक उपयोगिता /Industrial Applicability	दावे /Claims: 1-2
			हाँ /Yes
		दावे /Claims:	नहीं /No
		स्पष्टता/ संक्षिप्तता /Clarity / Conciseness	दावे /Claims:
		दावे /Claims: 1-2	नहीं /No

भाग -II विस्तृत तकनीकी रिपोर्ट

PART-II: DETAILED TECHNICAL REPORT

क. उद्धृत दस्तावेजों की सूची /A.List of documents cited:

(क) पेटेंट साहित्य / (a). Patent Literature :

क्र. सं. / Sl.no	दस्तावेजों का विवरण /Details of documents	प्रकाशन तिथि(दिन/माह/वर्ष) / Publication date	उद्धृत दस्तावेज़ का प्रासंगिक विवरण (पृष्ठ व अनुच्छेद संख्या) / Relevant description (page and paragraph no.) of cited document	उद्धृत दस्तावेज़ के प्रासंगिक दावे / Relevant claims of cited document	अभिकथित आविष्कार के दावे /Claims of alleged invention
1	D1: US20130217370A1	22/08/2013	Abstract, para [0001] - [0020] and fig. 1, 2, 3 and 4		1-2

2	D2: CN203290294U	13/06/2013	abstract, para [0001] - [0018]		1-2
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(ख) गैर-पेटेंट साहित्य /(b).Non-patent literature

कोई दस्तावेज़ उद्धृत नहीं है /No Document Cited

ख. अधिनियम के तहत आवश्यकताओं पर विस्तृत टिप्पणियां /B. Detailed observations on the requirements under the Act:

(1).आविष्कारी कदम / INVENTIVE STEP:

(I) ऊपर उद्धरित दस्तावेज़(जों) के संदर्भ में स्पष्ट अध्यापन(नों) को ध्यान में रखते हुए, निम्नलिखित कारणों से दावा(वों) (1-2) में आविष्कारी कदम की कमी है

Claim(s) (1-2) lack(s) inventive step, being obvious in view of teaching (s) of cited document(s) above under reference for the following reasons:

D1: US20130217370A1 Pub date: 22/08/2013

D2: CN203290294U Pub date: 13/06/2013

The subject matter as claimed in claims 1-2 lack inventive step in view of documents D1 and D2.

Reference mentioned in parentheses with respect to cited documents

Regarding Claim1:-

Document D1 discloses a smart helmet integrated with a mobile communicator comprising a bluetooth interface (See D1 fig. 4 'a Bluetooth transceiver 402'), embedded microcontroller, text to voice recognition module (See D1 fig. 4 'voice generation unit 406'), Speech Recognition Module (See D1 fig. 4 'voice recognition unit 403').

D1 does not explicitly disclose that smart helmet having an embedded microcontroller.

But to control all other electronic units there should be a microcontroller/microprocessor and that is implicit in document D1.

So use of embedded microcontroller is obvious to person skilled in the art.

Similar reasoning applies to independent claim 2 which is related to the same subject-matter as claimed in claim 1, under other categories also disclosed by D1.

Document D2 also discloses all the features of claims 1 and 2 (See D2 abstract).

Hence all main features of instant application are disclosed in documents D1 and D2. If teaching of D1 and D2 are used, a person skilled in the art, without being inventive would readily arrive at the subject matter of claims (all). Therefore these claims lack inventive step under section 2(1) (ja) of, The Patents Act, 1970. Therefore instant application does not constitute an invention under section 2(1) (j) of, The Patents Act, 1970.

(2).प्रकटन की दक्षता /SUFFICIENCY OF DISCLOSURE:

(3).स्पष्टता एवं संक्षिप्तता /CLARITY AND CONCISENESS:

(I) दावा(वे) 1-2 के संबंध में स्पष्ट रूप से परिभाषित नहीं हैं.

Claim(s) 1-2 are not clearly worded in respect of:

The invention and its operation or use and the method by which it is to be performed is not fully and particularly described in the complete specification as per section 10(4) of the Patents Act, 1970 (as amended). The complete specification should disclose the best method of performing the invention, which is known to the applicant and for which he is entitled to claim protection. The description of the method or the instructions for working the invention in the complete specification should by themselves be sufficient to enable a person in India possessing average skill and average knowledge of the art to which the invention relates to work the invention and to obtain the results claimed for the invention. The structural feature of invention i.e. structural feature of every module should be clearly described which enables the module to perform the said task.

(4).अन्य आवश्यकताएँ /OTHERS REQUIREMENTS:

(1)

1. Care should be taken in reply of FER , if there is any amendment it should be done U/s 59 and mark-up copy also submitted along with amendment. Proper reason shall be provided regarding amendment.
2. Note that this Examination is done on the basis of electronically uploaded documents in the e-module only. You may verify all documents as filed are uploaded electronically or not, and bring to the notice of the concerned discrepancies if any.
3. All the submitted documents and forms have been presumed as originally signed by authorized signatory under the provision of The Indian Patents Act, 1970. If not submit the originally signed copy of same failing to which the documents may not be considered filed.

भाग – III: औपचारिक आवश्यकताएँ /PART-III: FORMAL REQUIREMENTS

आपत्तियाँ /Objections	टिप्पणी /Remarks
Endorsement by /Assignment from Inventor	Proof of right should be filed u/r 10 of The Patents Rules, 2003 and u/s 7(2) of The Patents Act, 1970.
Date and Signature of Applicant	<ol style="list-style-type: none"> 1. Signature of the applicant/authorised agent and application number should be present in drawings u/r 15 of The Patents Rules, 2003. 2. Signature of the applicant/authorised agent should be present at the end of claims as per given prescribed format in Form 2.
Statement & Under Taking (Form 3 Details)	Details regarding application for Patents which may be filed outside India from time to time for the same or substantially the same invention should be furnished within six months from the date of filing of the said application U/s 8(1b) and U/r 12(1), 12(1A), 12(2) of Indian Patent Act. These documents cannot take on record if not filed in stipulated time.
Format of Specification (rule 13)	Title of invention should be mentioned in abstract u/r 13(7a) of The Patents Rules, 2003(as amended).
Format of Drawings	Drawings except flow diagrams should not include any descriptive matter as per rule 15(7) of Indian Patent Rule 2003. Reference numeral can be used in drawing and that can be specified in the complete specification.
Other Deficiencies	<ol style="list-style-type: none"> 1. Preamble of the description in Form 2 should be according to complete specification. 2. A copy of Form 1, Form 3 and Form 5 along with application number and signature

of the applicant/authorised agent should be submitted.

भाग-IV: रिकॉर्ड में दस्तावेज़ /PART-IV: DOCUMENTS ON RECORD

निम्नलिखित दस्तावेज़ों के आधार पर यह परीक्षण रिपोर्ट तैयार की गयी है

The examination report has been prepared based on the following documents:



कार्यसूची तिथि / Docket Date	कार्यसूची संख्या /Docket Number	प्रविष्टि संख्या विवरण /Entry Number Description
23 Oct 2015	34224	1-New Application For Patent With Provisional /Complete Specification
23 Oct 2016	43421	2-Complete After Provisional Specification - Form 2 Check For No. OF Pages & Claims
03 Nov 2016	45390	OTHERS(NON CASH)
16 Oct 2019	87051	28(i)-Request For Examination After 18 months Publication - Form 18
16 Oct 2019	87051	OTHERS(NON CASH)

नियंत्रक का नाम /Name of the Controller: [Palaniswamy V](#)

नियंत्रक स्थान /Controller Location: [Chennai](#)

टिप्पणी: परीक्षण रिपोर्ट का उत्तर दाखिल करने की अंतिम तिथि / Note: Last date for filing response to the Examination Report:
04/06/2021

14-Oct-2019/86350/5580-CHE-2015/Form 18

<p><i>14/10/19</i></p> <p>FORM 18 THE PATENTS ACT, 1970 (39 OF 1970) & The patents Rules, 2003 REQUEST FOR EXAMINATION OF APPLICATION FOR PATENT [See section 11B and rule 20(4)(ii), 24B(1)(i)]</p>	 700333042	<p>D. NO: 86350 (FOR OFFICE USE ONLY)</p> <p>RQ. No: R 20194031928 Filing Date: 14.10.2019 Amount of Fee Paid: 22000/- CBR No. 23434 Signature: <i>14/10/19</i></p>
<p>APPLICANTS:</p> <p>1. Dr.M.G.R.Educational and Research Institute Indian Maduravoyal, Chennai, Tamil Nadu 600095. E-mail: patent@drmgrdu.ac.in</p> <p>We hereby request that our application for patent no. 05580/CHE/2015 filed on 18-Oct-15 for the invention titled "UNMANNED VEHICLE TRACKING USING SENSOR CLOUD" shall be examined under sections 12 and 13 of the Act.</p> <p>ADDRESS FOR SERVICE:</p> <p>Dated this <u>14th</u> day of <u>October</u> 2019</p> <p>Signature: <i>C. O. Palanivel</i> REGISTRAR Dr. M.G.R. EDUCATIONAL AND RESEARCH INSTITUTE (Deemed to be University) Periyar E.V.R. High Road, Maduravoyal, Chennai- 600 095</p>  <p>For Dr. M.G.R. Educational and Research Institute</p> <p>403840</p> <p>To The Controller of Patents, The Patent Office at Chennai</p> <p>PATENT OFFICE, CHENNAI 16/10/2019 14:25</p>		

FORM 5
THE PATENTS ACT, 1970
(39 of 1970)
&
THE PATENTS RULES, 2003
DECLARATION AS TO INVENTORSHIP
[See Section 10(6) and rule 13(6)]

1. NAME OF APPLICANT(S)

Dr.M.G.R. Educational and Research Institute, Maduravoyal, Chennai-600095

hereby declare that the true and first inventor(s) of the invention disclosed in the complete specification filed in pursuance of my/our application number _____ dated _____

2. INVENTORS

Name	Nationality	Address	Signature
R.S.PONMAGAL	INDIAN	Professor, Department of CSE Dr.M.G.R.Educational and Research Institute, Chennai600095	
K.SUJATHA	INDIAN	Professor, Department of EEE Dr.M.G.R.Educational and Research Institute, Chennai600095	
S.JEGADEESWARI	INDIAN	Professor, Department of CSE Dr.M.G.R.Educational and Research Institute, Chennai600095	

Dated this _____

Signature _____

Name of signatory _____

For _____

TRINITY PATENT SOLUTIONS
APPLICANTS' PATENT ATTORNEY

To
The Controller of Patent
The Patent Office,
Intellectual Property Office Building,
G.S.T. Road, Guindy,
Chennai – 600032
India.

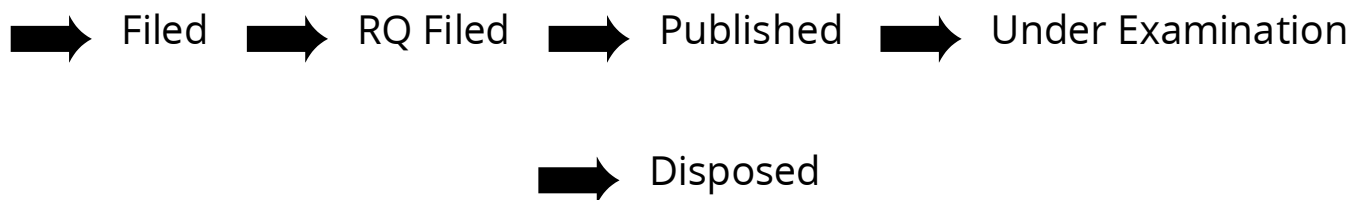
Application Details

APPLICATION NUMBER	5687/CHE/2015
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	22/10/2015
APPLICANT NAME	Dr. M.G.R Educational and Research Institute
TITLE OF INVENTION	PASSIVE COOLING OF LAPTOP UNITS THROUGH THERMAL MANAGEMENT
FIELD OF INVENTION	ELECTRONICS
E-MAIL (As Per Record)	trinitypatsol@gmail.com
ADDITIONAL-EMAIL (As Per Record)	registrar@drmgrdu.ac.in
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	15/10/2016
PUBLICATION DATE (U/S 11A)	17/11/2017

Application Status

APPLICATION STATUS	FER Issued, Reply not Filed
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Controller General of Patents, Designs and Trademarks
Department of Industrial Policy and Promotion
Ministry of Commerce and Industry

Application Details

APPLICATION NUMBER	201741031172
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	02/09/2017
APPLICANT NAME	1 . S.Sendilvelan 2 . K.Bhaskar 3 . S.Nallusamy
TITLE OF INVENTION	DESIGN OF ACTIVE CATALYTIC CONVERTER SYSTEM TO REDUCE COLD START EMISSION FROM AUTOMOBILES
FIELD OF INVENTION	MECHANICAL ENGINEERING
E-MAIL (As Per Record)	sriipsearcher@gmail.com
ADDITIONAL-EMAIL (As Per Record)	sriipsearcher@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	02/09/2017
PUBLICATION DATE (U/S 11A)	08/09/2017
REPLY TO FER DATE	20/05/2020

Application Status

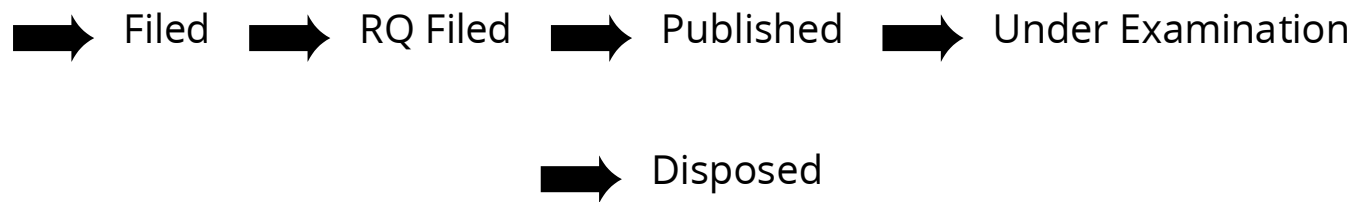
APPLICATION STATUS	Reply Filed. Application in amended examination
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Department of Mechanical Engineering

45

Key Indicator-3.4.3 Research Publications and Awards(10)-Number of Patents published/awarded





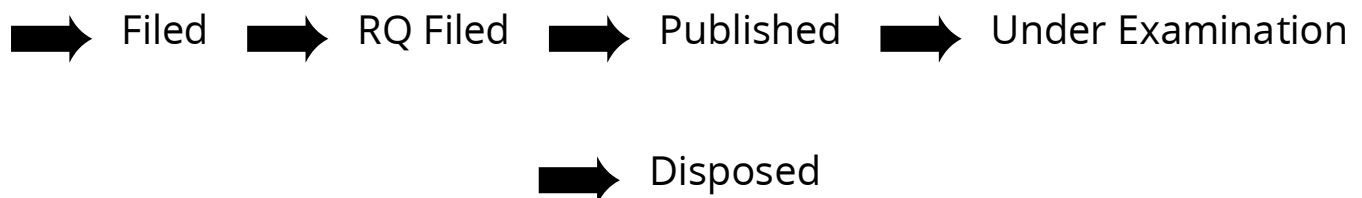
Controller General of Patents, Designs and Trademarks
Department of Industrial Policy and Promotion
Ministry of Commerce and Industry

Application Details

APPLICATION NUMBER	5662/CHE/2015
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	21/10/2015
APPLICANT NAME	Dr. M.G.R Educational and Research Institute
TITLE OF INVENTION	A METHOD FOR FRICTION STIR WELDING
FIELD OF INVENTION	ELECTRICAL
E-MAIL (As Per Record)	trinitypatsol@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	15/10/2016
PUBLICATION DATE (U/S 11A)	17/11/2017

Application Status

			View Documents
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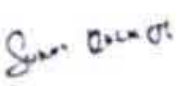
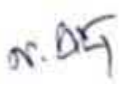




FORM 1 THE PATENTS ACT 1970 (39 of 1970) and THE PATENTS RULES, 2003 APPLICATION FOR GRANT OF PATENT (See section 7, 54 and 135 and sub-rule (1) of rule 20)				(FOR OFFICE USE ONLY)	
				Application No.	
				Filing date:	
				Amount of Fee paid:	
				CBR No:	
				Signature:	
1. APPLICANT'S REFERENCE / 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	
Dr. MGR Educational and Research Institute		INDIAN	INDIA	House No.	-
				Street	Maduravoyal
				City	Chennai
				State	Tamil Nadu
				Country	India
				Pin code	600095
3B. CATEGORY OF APPLICANT [Please tick () 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 ()		No (<input checked="" type="checkbox"/>)	
If "No", furnish the details of the inventor(s)					
Name in Full		Nationality	Country of Residence	Address of the Inventor	
Suman Kumar Jha		INDIAN	INDIA	House No.	-
				Street	Post: Dasaut, Via: Singhiya,
				City	Samastipur
				State	Bihar
				Country	India
				Pin code	848209
Dr. Ethiraj. N		INDIAN	INDIA	House No.	260/2A
				Street	Anbu Colony, Anna Nagar West
				City	Chennai
				State	Tamil Nadu

			Country	India
			Pin code	600040
Dr.Rama Vaidyanathan	INDIAN	INDIA	House No.	R-704 Metrozone Apts,
			Street	44, Pillaiyar Koil Street, Anna Nagar West
			City	Chennai
			State	Tamil Nadu
			Country	India
			Pin code	600040
Dr. N. Sreevidya	INDIAN	INDIA	House No.	7/48
			Street	Madley Apartments, Madley Road, T.Nagar
			City	Chennai
			State	Tamil Nadu
			Country	India
			Pin code	600017
Dr. L. Ramesh	INDIAN	INDIA	House No.	F1
			Street	Rampoorna Nagar Ambattur
			City	Chennai
			State	Tamil Nadu
			Country	India
			Pin code	600058
Mudaliar Shaktivel J	INDIAN	INDIA	House No.	D/9, Room No. 5,
			Street	Matunga Labour camp
			City	Mumbai
			State	Maharashtra
			Country	India
			Pin code	400019
Suvam Gurudutta Samal	INDIAN	INDIA	House No.	-
			Street	At: Mathasahi, Post: Tulsipur,
			City	Cuttack
			State	Odisha
			Country	India
			Pin code	753008

5. TITLE OF THE INVENTION

Passive Cooling of Laptop Units through Thermal Management

6. AUTHORISED REGISTERED PATENT AGENT(S)	IN/ PA No.	Nil
	Name	Nil
	Mobile No.	Nil
7. ADDRESS FOR SERVICE OF APPLICANT IN INDIA	Name	Registrar
	Postal Address	Dr. MGR Educational and Research Institute, Maduravoyal, Chennai 600095, Tamil Nadu, India
	Telephone No.	-
	Mobile No.	-

		Fax No.		-	
		E-mail ID		patent@drmgrdu.ac.in	
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					
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					
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					
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		
12. DECLARATIONS					
(i) Declaration by the inventor(s)					
<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) Dated this 8th day of March 2021</p>					
 Suman Kumar Jha		 Dr. Ethiraj. N		 Dr. Rama Vaidyanathan	
 Dr. N. Sreevidya		 Dr. L. Ramesh		 Mudaliar Shaktivel J	



Suvam Gurudutta Samal

(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.

(a) Dated this 8th day of March 2021



For Dr. MGR Educational and Research Institute

(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).

13. FOLLOWING ARE THE ATTACHMENTS WITH THE APPLICATION

(a) Form 2

Item	Details	Fee	Remarks
Complete/provisional specification)#	No. of pages		
No. of Claim(s)	No. of claims and No. of pages	4	

Abstract	No. of pages		
No. of Drawing(s)	No. of drawings and No. of pages		

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 Preliminary Examination Authority (IPEA), as applicable (2 copies).

(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 Inventor-ship on Form 5

(i) Power of Authority

(j).....

Total fee in Cash/ Banker's Cheque /Bank Draft bearing No.....

Date.....onBank.


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 8th day of March 2021

C. B. Palaniandu


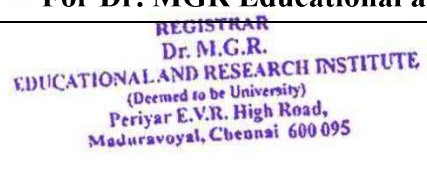

For Dr. MGR Educational and Research Institute

REGISTRAR
Dr. M.G.R.
EDUCATIONAL AND RESEARCH INSTITUTE
 (Deemed to be University)
 Periyar E.V.R. High Road,
 Maduravoyal, Chennai 600 095



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

FORM 3
THE PATENTS ACT, 1970
(39 of 1970)
&
The Patents Rules, 2003
STATEMENT AND UNDERTAKING UNDER SECTION 8
(see section 8, rule 12)

1. Name of the Applicants				We, Dr. M.G.R. Educational and Research Institute, an Indian Organization having our communication address at, Maduravoyal, Chennai-600095, India; hereby declare	
2. Name, address and Nationality of Joint applicant				(i) That We have not made any application for the same/substantially the same invention outside India.	
Name of the Country	Date of Application	Application No.	Status of the Application	Date of Publication	Date of Grant
NIL					
<p>Dated this 8th day of March 2021</p> <div style="text-align: center; margin-top: 100px;">  For Dr. MGR Educational and Research Institute </div>					
<div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> <p>To,</p> <p>The Controller of Patents</p> <p>The Patent Office, Chennai.</p> </div> <div style="width: 50%; text-align: center;">   </div> </div>					

patent@drmgrdu.ac.in

Alternate email: registrar@drmgrdu.ac

COU-MAA26

r.MGRDU/PATENT/2016-17/731

MRM
3/11/16

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ntroller of Patents,
tent Office,
ctual Property Office Building,
Road, Guindy,
ai - 600032

D:nc



7

Sub:	Termination of Power of Authorization
Applicant:	Dr. M.G.R Educational and Research Institute
Application No.:	5687/CHE/2015
Date of filing:	22-10-2015

irs,

ve submitted the above mentioned application through Trinity Patent solutions. No
o terminate the power of authorization granted to them. We hereby revoke all pre
zations, if any, in respect of same matter or proceeding. We hereby assent to the a
taken by the said person in the above matter.

ntroller is requested to take the above on record for the patent application referred ab

Yours faith

C.B. Pal

REGIST

Dr. M.C

TO BE USED WHEN NO OTHER FORM IS PRESCRIBED

[See sub-rule (2) of Rule 8.]

Name of the Applicant	I/We Dr. MGR Educational and Research Institute			
Complete address including postal index number/code and State	House No.	EVR Periyar Road (NH4) Maduravoyal, Street	Telephone No	04423782176
g with e-mail ID, phone, mobile and fax per.	City	Chennai	Fax No.	04423783165
	State	Tamilnadu		
	Country	India		
	Pin code	600095	E-mail ID	patent@drmgrdu.a
				Alternate email: registrar@drmgrdu
Application No.	5687/CHE/2015			
Relevant section / rules	Sections 127 and 132; Rule 135			
Purpose of request	Terminate the power of authorization			
Details of request	We have submitted the above mentioned application through T Patent solutions. Now we wish to terminate the power of authorization granted to them. We hereby revoke all previous authorizations, if any, in respect of same matter or proceeding. We hereby assent to the action already taken by the said person in the above matter.			
to be signed by applicant	Signature <i>C. B. Palanivelu</i>			
Name of the natural person who has signed with designation	C.B. Palanivelu Registrar			
Official seal, if any.				
	To:			



भारत सरकार
GOVERNMENT OF INDIA

एकस्व कार्यालय / THE PATENT OFFICE
बौद्धिक सम्पदा भवन / I.P.O. BUILDING
जी.एस.टी.रोड, गिंडी / 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.संख्या/Ref.No /आवेदन संख्या/Application No/ 5636/CHE/2015

दिनांक/Date of Dispatch/Email: 21/01/2020

सेवा मे, /To

N. Sreevidya,

TRINITY PATENT SOLUTIONS, Old No.62/New.No. 135, First Floor, East Kondayam pet, Thiruvanaikoil Trichy-620 005, Tamilnadu, INDIA.

Email : registrar@drmgrdu.ac.in, patent@drmgrdu.ac.in

विषय: एकस्व अधिनियम, 1970 की धारा 12 व 13 तथा एकस्व नियम, 2003 के अधीन परीक्षण रिपोर्ट

Subject: Examination report under sections 12 & 13 of the Patents Act, 1970 and the Patents Rules, 2003.

1. उपर्युक्त आवेदन के संदर्भ में परीक्षण रिपोर्ट (अर्थात, एकस्व नियम, 2003 (यथा संशोधित) के नियम 24-ख(3) में विनिर्दिष्ट आपत्तियों का प्रथम कथन) इसके साथ संलग्न है। यह रिपोर्ट परीक्षण हेतु अनुरोध दिनांक 15/10/2016 के उत्तर में जारी की गयी है। परीक्षण रिपोर्ट का उत्तर दाखिल करने की अंतिम तिथि (अर्थात, इस रिपोर्ट में लगाई गयी सभी आवश्यकताओं के अनुपालन की अवधि) आवेदक को आपत्तियों का प्रथम कथन जारी होने की तिथि से छः माह है।

Please find enclosed herewith an Examination Report (i.e. a first statement of objections as specified in Rule 24-B(3) of The Patents Rules, 2003 (as amended)) in respect of above-mentioned application. This report is issued with reference to a request for examination dated 15/10/2016. The last date for filing a response to the Examination Report (i.e. a period to comply with all the requirements raised in this examination report) is six months from the date on which the first statement of objections is issued to the Applicant.

2. यदि रिपोर्ट के अंतर्गत लगाई गयी आवश्यकताओं का अनुपालन एकस्व नियम, 2003 (यथा संशोधित) के नियम 24 ख(5) में विनिर्दिष्ट अवधि के भीतर अंदर अनुपालन नहीं किया गया तो एकस्व अधिनियम 1970 की धारा 21(1) के अधीन वर्तमान आवेदन को परित्यक्त माना जाएगा।

The instant application shall be deemed to have been abandoned under Section 21(1) of The Patents Act, 1970, unless all the requirements raised in this report are complied with in the period as specified in Rule 24-B (5) of The Patents Rules, 2003 (as amended).

3. आपका ध्यान एकस्व नियम, 2003 के नियम 24 ख(6) के प्रावधानों की ओर भी आमंत्रित किया जाता है।
Your attention is also invited to the provisions of Rule 24-B (6) of the Patents Rules 2003.
4. आपको सलाह दी जाती है कि शीघ्र निपटान हेतु अपना उत्तर शीघ्र प्रस्तुत करें।
You are advised to file the reply at the earliest for early disposal.

Srinivasarao Reesu
नियंत्रक पेटेंट/ Controller of Patents

संलग्न/Enclosed: अपरोक्त अनुसार/As above

टिप्पणी: यह इलेक्ट्रॉनिक रूप से उत्पन्न रिपोर्ट है।

NOTE: This is an electronically generated report.

सभी पत्राचार नियंत्रक एकस्व को उपरोक्त पते पर भेजा जाये।

All communications should be sent to the Controller of Patents at the above mentioned address.

परीक्षण रिपोर्ट /Examination Report

आवेदन संख्या /Application Number	5636/CHE/2015
दाखिल करने की तिथि /Date of Filing	19/10/2015
पूर्विका दिनांक /Date of Priority	--
पीसीटी अंतर्राष्ट्रीय आवेदन की संख्या व दिनांक / PCT International Application No. & Date	--
आवेदक /Applicant	Dr. M.G.R Educational and Research Institute
परीक्षण हेतु अनुरोध की संख्या व दिनांक /Request for Examination No. & Date	R20164029732 15/10/2016
प्रकाशन की तिथि /Date of Publication	17/11/2017

इस परीक्षण रिपोर्ट के चार भाग हैं, अर्थात् रिपोर्ट का सारांश, विस्तृत तकनीकी रिपोर्ट, औपचारिक आवश्यकताएँ तथा रिकॉर्ड में दस्तावेज़ /
This examination report consists of four parts, namely summary of the report, detailed technical report, formal requirements and documents on record.

भाग -1: रिपोर्ट का सारांश

PART-I: SUMMARY OF THE REPORT

PART II SUMMARY OF THE REPORT				
क्र. सं. /Sl. No.	अधिनियम के तहत आवश्यकताओं पर विस्तृत टिप्पणियां /Requirements under the Act		दावों की संख्या /Claim Numbers	टिप्पणी /Remarks
1.	धारा 2(1)(ग) के तहत आविष्कार /Invention u/s 2(1)(j)	नवीनता /Novelty	दावे /Claims:	हाँ /Yes
			दावे /Claims: 1-4	नहीं /No
		आविष्कारी कदम / Inventive step	दावे /Claims:	हाँ /Yes
			दावे /Claims: 1-4	नहीं /No
		औद्योगिक उपयोगिता /Industrial Applicability	दावे /Claims: 1-4	हाँ /Yes
			दावे /Claims:	नहीं /No
2.	धारा 10(4) के अधीन प्रकटन की दक्षता (हाँ/नहीं निर्दिष्ट करें)/Sufficiency of disclosure u/s 10 (4) (Specify Yes/No)		No	
3.	[धारा 10(5) व 10(4) (ग)] के अधीन दावे /Claims [u/s 10(5) & 10(4) (c)]	स्पष्टता/ संक्षिप्तता /Clarity / Conciseness	दावे /Claims:	हाँ /Yes
			दावे /Claims: 3-4	नहीं /No
		परिभाषिकता /Definitive	दावे /Claims:	हाँ /Yes
			दावे /Claims: 1	नहीं /No
4.	अन्य आवश्यकता (हैं) /Other requirement(s): The features of the claims should be provided with reference signs placed in parentheses to increase the intelligibility of the claims u/r 13(4). This applies to both the preamble and characterising portion.			

भाग -II विस्तृत तकनीकी रिपोर्ट

PART-II: DETAILED TECHNICAL REPORT

क. उद्धरित दस्तावेजों की सूची /A.List of documents cited:

(क) पेटेंट साहित्य / (a). Patent Literature :

क्र. सं.	प्रकाशन	उद्धरित दस्तावेज़ का प्रारंभिक विवरण (पृष्ठ व अनुच्छेद संख्या) /	उद्धरित दस्तावेज़ के	अधिकृत अधिकार के
----------	---------	--	----------------------	------------------

क्र. सं. / Sl.no	दस्तावेजों का विवरण /Details of documents	प्रकाशन तिथि(दिन/माह/वर्ष) / Publication date	संबन्धित संख्या / Relevant description (page and paragraph no.) of cited document	प्रसंगिक दावे / Relevant claims of cited document	अलगावित आविष्कार के दावे /Claims of alleged invention
1	D1- WO2013057332A1	25/04/2013	Whole Document	1-14	1-4
2	D2- WO2005026628A1	24/03/2005	Abstract, Pages 4-9; figures 1-4	1-22	1-4

(ख) गैर-पेटेंट साहित्य / (b). Non-patent literature

कोई दस्तावेज उद्धृत नहीं है / No Document Cited

ख. अधिनियम के तहत आवश्यकताओं पर विस्तृत टिप्पणियाँ / B. Detailed observations on the requirements under the Act:

(1). नवीनता / NOVELTY:

(I) ऊपर उद्धरित दस्तावेज के संदर्भ (1-4) में दिये गए प्रकटन के पूर्वानुमान को ध्यान में रखते हुए, निम्नलिखित कारणों से दावा(वों) (1-4) में नवीनता की कमी है /

Claim(s) (1-4) lack(s) novelty, being anticipated in view of disclosure in the document cited above under reference D1 for the following reasons:

Claims 1-4 lack novelty under section 2(1)(j), being anticipated in view of the disclosure in the cited documents D1 or D2. The claims 1-4 of the alleged invention are fully and particularly described in the cited document D1 or D2. References from the D1/D2 are given in brackets:

Regarding Independent claims 1-4, the cited document D1 discloses (abstract) a solar tracker to be mounted on the roof of a vehicle and to a vehicle comprising a solar tracker. The solar tracker comprises: a base (1) attached to the roof (61) of the vehicle (60); and a solar panel (2) that can pivot in relation to the base (1) alternately about first and second parallel axes (E1, E2) located at opposite ends of the panel, passing through an intermediate position in which the solar panel (2) is parallel and adjacent to the base (1), by means of the actuation of a motor-driven lifting mechanism. In addition, a control device controls the operation of an actuator (10) of the motor-driven lifting mechanism, based on an adaptive tracking algorithm configured to provide optimum solar panel (2) orientation within a range of movements independently of the initial orientation of the first and second axes (E1, E2). Therefore, claims 1-4 are not novel in view of D1.

All the features of claims 1-4 disclosed in D2. Therefore, claims 1-4 are not novel in view of D2.

Therefore, the claims 1-4 of the alleged invention lack novelty in view of D1 or D2. Hence, the same cannot be allowed u/s 2 (1) (j) of the Patents Act, 1970.

(2). आविष्कारी कदम / INVENTIVE STEP:

(I) ऊपर उद्धरित दस्तावेज(जों) के संदर्भ D1 and D2 में स्पष्ट अध्यापन(नों) को ध्यान में रखते हुए, निम्नलिखित कारणों से दावा(वों) (1-4) में आविष्कारी कदम की कमी है

Claim(s) (1-4) lack(s) inventive step, being obvious in view of teaching (s) of cited document(s) above under reference D1 and D2 for the following reasons:

The subject matter of claims 1-4 is not novel as it does not involve technical advancement as compared to the existing knowledge i.e., cited document D1. Hence, the said claims are not inventive under section 2(1)(ja) of the

Patents Act, 1970, being obvious in view of teachings of cited documents D1 and D2.

(3). प्रकटन की दक्षता /SUFFICIENCY OF DISCLOSURE:

(I) विनिर्देश पूर्णतया: व विशेषकर आविष्कार तथा इसके संचालन तथा विधि के निष्पादन के संबंध में विवरण नहीं देते हैं।

The complete specification does not fully and particularly describe the invention and its operation and the method by which it is to be performed in respect of:

1. The complete specification should be disclosed the best method of performing the invention, which is known to the applicant and for which he is entitled to claim protection. The description, Drawings must contain, examples and sufficient information to allow the person skilled in the art, using his common general knowledge, to perform the invention over the whole area claimed without undue burden and without needing inventive skill (see section 10(4) of the Patents Act, 1970 as amended).
2. Claims 1-4 define mere results to be achieved, wherein the description does not disclose any specific steps the skilled person could undertake to achieve these results. Insofar, these claims are not sufficiently supported and the method by which it is to be performed u/s 10(4)(a).

(4). स्पष्टता एवं संक्षिप्तता /CLARITY AND CONCISENESS:

(I) दावा(वे) 3-4 के संबंध में स्पष्ट रूप से परीभाषित नहीं हैं।

Claim(s) 3-4 are not clearly worded in respect of:

1. The relative terms "preferably LDR" & "preferably PIC16F630/676" used in claims 3 and 4 are vague and leave the reader in doubt to which they refer. Hence, the same shall be amended.
2. The abbreviations 'CSBCS' employed in the description on page 2 shall be accompanied by a full-text definition in order to avoid any doubts as to their limiting character.

(5). परिभाषिकता /DEFINITIVENESS:

(I) दावा(वे) 1 निम्नलिखित कारणों से आविष्कार को पर्याप्त रूप से परीभाषित नहीं करता(ते) हैं

Claim(s) 1 do not sufficiently define the invention for the reasons as follows:

Independent claim 1 is not in the two-part form, which in the present case would be appropriate, with those features known in combination from the prior art being placed in the preamble and the remaining features being included in the characterising part. Independent claim should, therefore, be redrafted accordingly. If, however, the applicant is of the opinion that the two-part form would be inappropriate, reasons therefor should be provided. In addition, the applicant should ensure that it is clear from the description which features of the subject-matter of the independent claim is already known in combination from D1.

(6). अन्य आवश्यकताएँ /OTHERS REQUIREMENTS:

(I)

In case the applicant decides to amend the claims subsequent to this report, the same shall be drafted afresh to include the technical advancement over the prior art cited in the first statement of objection as required u/s 2(1)j of the Patent's Act. Please indicate in the response communication the support for the claims in the original specification, as required u/s 10(4) of the Act. Care shall be taken that requirement Section 59(1) of the Act is also met. Please provide an additional copy of marked-up amendments (highlighting the amendments) where ever applicable. In case the applicant decides to contest this report, the reasons therefor along with the technical

significance thereof may please be indicated in the response communication.

भाग – III: औपचारिक आवश्यकताएँ /PART-III: FORMAL REQUIREMENTS

आपत्तियाँ /Objections	टिप्पणी /Remarks
Endorsement by /Assignment from Inventor	Proof of right/ assignment by the inventor shall be submitted u/s 7(2) and u/r 10, by the applicant.
Statement & Under Taking (Form 3 Details)	Form-3 shall be filed under section 8(1) and rule 12(1) of the Indian Patent Act.
Form 13	Form-13 shall be filed by the applicant as the GPA has been revoked due to which address for service shall be changed.
Power of Attorney (Whether GPA, SPA, Stamped, requisite fee etc.)	Regarding filed GPA, GPA clearly stating the particular matter or proceeding for which the authorization is made shall be filed in the prescribed manner.
Format of Specification (rule 13)	<ol style="list-style-type: none"> 1. The description shall contain the numbering to every fifth line of each page of the description u/r 9(d). 2. The claim shall be signed by the applicant 3. The necessary figure shall be mentioned in the abstract u/r 13(7)(d).
Other Deficiencies	<ol style="list-style-type: none"> 1. A copy of form-1 shall be submitted by the applicant. 2. Name of the signatory of form-5 shall be mentioned in the respective form.

भाग-IV: रिकॉर्ड में दस्तावेज़ /PART-IV: DOCUMENTS ON RECORD

निम्नलिखित दस्तावेज़ों के आधार पर यह परीक्षण रिपोर्ट तैयार की गयी है

The examination report has been prepared based on the following documents:

कार्यसूची तिथि / Docket Date	कार्यसूची संख्या /Docket Number	प्रविष्टि संख्या विवरण /Entry Number Description
19 Oct 2015	33848	1-New Application For Patent With Provisional /Complete Specification
15 Oct 2016	41979	2-Complete After Provisional Specification - Form 2 Check For No. OF Pages & Claims
15 Oct 2016	42001	28(i)-Request For Examination After 18 months Publication - Form 18
03 Nov 2016	45390	OTHERS(NON CASH)

नियंत्रक का नाम /Name of the Controller: Srinivasarao Reesu

नियंत्रक स्थान /Controller Location: Delhi

टिप्पणी: परीक्षण रिपोर्ट का उत्तर दाखिल करने की अंतिम तिथि / Note: Last date for filing response to the Examination Report:
21/07/2020



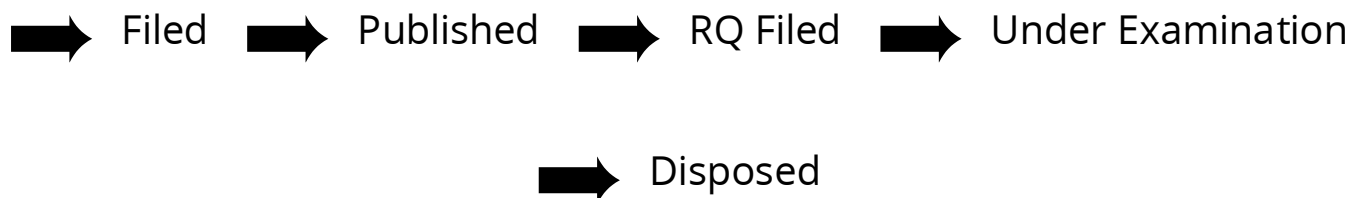
Controller General of Patents, Designs and Trademarks
Department of Industrial Policy and Promotion
Ministry of Commerce and Industry

Application Details

APPLICATION NUMBER	4998/CHE/2015
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	18/09/2015
APPLICANT NAME	ARUN GOVIND.M
TITLE OF INVENTION	WASTE WATER PIPE OFFSET FLAT BLADE TURBINE
FIELD OF INVENTION	CHEMICAL
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	arungovind02@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	21/07/2017

Application Status

			View Documents
--	--	--	--------------------------------





**INTELLECTUAL
PROPERTY INDIA**

एकस्व/PATENTS|अभिकल्प/DESIGNS|

व्यापार चिह्न/TRADE MARKS|भौगोलिक

उपदर्शन/GEOGRAPHICAL INDICATIONS



सत्यमेव जयते

भारत सरकार

GOVERNMENT OF INDIA

एकस्व कार्यालय / THE PATENT OFFICE

बौद्धिक सम्पदा भवन / I.P.O. BUILDING

जी.एस.टी.रोड, गिंडी / 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.संख्या/Ref.No /आवेदन संख्या/Application No/ 5584/CHE/2015

दिनांक/Date of Dispatch/Email: 23/10/2019

सेवा मे, /To

N. Sreevidya,

TRINITY PATENT SOLUTIONS, Old No.62/New.No. 135, First Floor, East Kondayam pet, Thiruvanaikoil Trichy-620 005, Tamilnadu, INDIA.

Email : trinitypatsol@gmail.com

विषय: एकस्व अधिनियम, 1970 की धारा 12 व 13 तथा एकस्व नियम, 2003 के अधीन परीक्षण रिपोर्ट

Subject: Examination report under sections 12 & 13 of the Patents Act, 1970 and the Patents Rules, 2003.

1. उपर्युक्त आवेदन के संदर्भ में परीक्षण रिपोर्ट (अर्थात, एकस्व नियम, 2003 (यथा संशोधित) के नियम 24-ख(3) में विनिर्दिष्ट आपत्तियों का प्रथम कथन) इसके साथ संलग्न है। यह रिपोर्ट परीक्षण हेतु अनुरोध दिनांक 15/10/2016 के उत्तर में जारी की गयी है। परीक्षण रिपोर्ट का उत्तर दाखिल करने की अंतिम तिथि (अर्थात, इस रिपोर्ट में लगाई गयी सभी आवश्यकताओं के अनुपालन की अवधि) आवेदक को आपत्तियों का प्रथम कथन जारी होने की तिथि से छः माह है।

Please find enclosed herewith an Examination Report (i.e. a first statement of objections as specified in Rule 24-B(3) of The Patents Rules, 2003 (as amended)) in respect of above-mentioned application. This report is issued with reference to a request for examination dated 15/10/2016. The last date for filing a response to the Examination Report (i.e. a period to comply with all the requirements raised in this examination report) is six months from the date on which the first statement of objections is issued to the Applicant.

2. यदि रिपोर्ट के अंतर्गत लगाई गयी आवश्यकताओं का अनुपालन एकस्व नियम, 2003 (यथा संशोधित) के नियम 24 ख(5) में विनिर्दिष्ट अवधि के भीतर अंदर अनुपालन नहीं किया गया तो एकस्व अधिनियम 1970 की धारा 21(1) के अधीन वर्तमान आवेदन को परित्यक्त माना जाएगा।

The instant application shall be deemed to have been abandoned under Section 21(1) of The Patents Act, 1970, unless all the requirements raised in this report are complied with in the period as specified in Rule 24-B (5) of The Patents Rules, 2003 (as amended).

3. आपका ध्यान एकस्व नियम, 2003 के नियम 24 ख(6) के प्रावधानों की ओर भी आमंत्रित किया जाता है।
Your attention is also invited to the provisions of Rule 24-B (6) of the Patents Rules 2003.
4. आपको सलाह दी जाती है कि शीघ्र निपटान हेतु अपना उत्तर शीघ्र प्रस्तुत करें।
You are advised to file the reply at the earliest for early disposal.

Sathish Kumar Moorthy
नियंत्रक पेटेंट/ Controller of Patents

संलग्न/Enclosed: अपरोक्त अनुसार/As above

टिप्पणी: यह इलेक्ट्रॉनिक रूप से उत्पन्न रिपोर्ट है।

NOTE: This is an electronically generated report.

सभी पत्राचार नियंत्रक एकस्व को उपरोक्त पते पर भेजा जाये।

All communications should be sent to the Controller of Patents at the above mentioned address.

परीक्षण रिपोर्ट /Examination Report

आवेदन संख्या /Application Number	5584/CHE/2015
दाखिल करने की तिथि /Date of Filing	18/10/2015
पूर्विका दिनांक /Date of Priority	--
पीसीटी अंतर्राष्ट्रीय आवेदन की संख्या व दिनांक / PCT International Application No. & Date	--
आवेदक /Applicant	Dr. M.G.R Educational and Research Institute
परीक्षण हेतु अनुरोध की संख्या व दिनांक /Request for Examination No. & Date	R20164029733 15/10/2016
प्रकाशन की तिथि /Date of Publication	17/11/2017

इस परीक्षण रिपोर्ट के चार भाग हैं, अर्थात् रिपोर्ट का सारांश, विस्तृत तकनीकी रिपोर्ट, औपचारिक आवश्यकताएँ तथा रिकॉर्ड में दस्तावेज़ /
This examination report consists of four parts, namely summary of the report, detailed technical report, formal requirements and documents on record.

भाग -1: रिपोर्ट का सारांश

PART-I: SUMMARY OF THE REPORT

क्र. सं. /Sl. No.	अधिनियम के तहत आवश्यकताओं पर विस्तृत टिप्पणियाँ /Requirements under the Act	दावों की संख्या /Claim Numbers	टिप्पणी /Remarks
1.	धारा 2(1)(अ) के तहत आविष्कार /Invention u/s 2(1)(j)	दावे /Claims:	हाँ /Yes
		दावे /Claims: 1-9	नहीं /No
2.	धारा 3 के अधीन पेटेंट-अयोग्यता (यदि हाँ, खंड 3(क-त) /Non-patentability u/s 3 (if yes, specify section 3(a-p))	दावे /Claims: 9	हाँ /Yes
		दावे /Claims:	नहीं /No
3.	धारा 10 (5) के अधीन आविष्कार की एकलता /Unity of invention u/s 10 (5)	दावे /Claims:	हाँ /Yes
		दावे /Claims: 1-9	नहीं /No
4.	[धारा 10(5) व 10(4) (ग)] के अधीन दावे /Claims [u/s 10(5) & 10(4) (c)]	स्पष्टता/ संक्षिप्तता /Clarity / Conciseness	हाँ /Yes
		दावे /Claims: 1-9	नहीं /No
		विवरण द्वारा समर्थित /Supported by description	हाँ /Yes
		दावे /Claims: 1-3,5-7	नहीं /No
	क्षेत्र /Scope	दावे /Claims:	हाँ /Yes
		दावे /Claims: 1-9	नहीं /No
5.	अन्य आवश्यकता (एँ) /Other requirement(s): Claim 9 is mere use claims and does not involve any technical features to be considered as novel and inventive. The use of the above-mentioned claims are inherent industrial applicability of the preceding claims i.e. of the application in view of description disclosure and doesn't require separate recitation as claims. Hence Claim 9 is not allowable u/s 2(1) (j) of the Act.		

भाग -II विस्तृत तकनीकी रिपोर्ट

PART-II: DETAILED TECHNICAL REPORT

क. उद्धृत दस्तावेजों की सूची /A.List of documents cited:

(क) पेटेंट साहित्य / (a). Patent Literature :

कोई दस्तावेज़ उद्धृत नहीं है /No Document Cited

(ख) गैर-पेटेंट साहित्य /(b).Non-patent literature

क्र. सं. / Sl.no	दस्तावेज़ों का विवरण /Details of documents	प्रकाशन तिथि(दिन/माह/वर्ष) /Publication date	उद्धरित दस्तावेज़ का प्रसंगिक विवरण (पृष्ठ व अनुच्छेद संख्या) /Relevant description (page and paragraph no.) of cited document	अभिकथित आविष्कार के दावे /Relevant claims of cited document	अभिकथित आविष्कार के दावे /Claims of alleged invention
1	NPL1: STUDY OF PROPERTIES OF BANANA FIBER REINFORCED COMPOSITES(International Journal of Research in Engineering and Technology)(Volume: 03 Issue: 11 Nov-2014)	01/11/2014	Whole document		1-9
2	NPL2: Banana Fiber Reinforced Polymer Composite-A Review (N.VENKATESHWARAN* AND A.ELAYAPERUMAL) (Journal of REINFORCED PLASTICS AND COMPOSITES, Vol. 29, No. 15/2010)(DOI: 10.1177/0731684409360578)	01/08/2010	Whole document		1-9

ख. अधिनियम के तहत आवश्यकताओं पर विस्तृत टिप्पणियां /B. Detailed observations on the requirements under the Act:

(1).आविष्कारी कदम / INVENTIVE STEP:

(I) ऊपर उद्धरित दस्तावेज़(जों) के संदर्भ NPL1 and NPL2 में स्पष्ट अध्यापन(नों) को ध्यान में रखते हुए, निम्नलिखित कारणों से दावा(वों) (1-9) में आविष्कारी कदम की कमी है

Claim(s) (1-9) lack(s) inventive step, being obvious in view of teaching (s) of cited document(s) above under reference NPL1 and NPL2 for the following reasons:

Present invention discloses a method for producing fiber-reinforced composite materials from musa genus fruit pseudo stems comprising: a) Extraction of fiber from pseudostem; b) Blending of a polymer matrix, preferably polypropylene, with a coupling agent, preferably maleic anhydride, with the fiber from a); c) injection molding the composite from b) to produce a fiber reinforced composite material.

NPL1 discloses the study of properties of banana fiber reinforced composites.

NPL2 discloses a summary of research work published in the field of banana fiber reinforced polymer composites with special references to the structure, physical and mechanical properties of the composites.

The present application discloses a fiber reinforced composite and a method to produce the same, wherein the fiber reinforced composite comprises polypropylene and banana fiber. From the description and the examples, it is clear that the inventive feature is the use of treated fiber from banana plant as reinforcement in polypropylene matrix. From the cited prior art it is clear that the banana fibers are generally treated by sodium hydroxide to increase the wettability, thus establishing that, treatment of fiber is not new and known to a person skilled in the art. Now, the process of compounding the extracted fiber with matrix polymer is also not new, the applicant himself in the prior art discussion discloses that prior arts disclose natural fiber reinforced composites. In the

present application, it is pointed out that the present invention describes the use of fruit bearing stem fiber (pseudo stem) from banana as reinforcement for the preparation of articles using injection molding with better properties from polypropylene. It is accepted that in the prior art cited by the applicant there is no mention of the pseudo stem but kindly note that in the prior arts cited in this report, it is explicitly disclosed that fiber is collected from pseudo stem thereby rendering the claim of using new component moot. For a person skilled in the art, it is obvious to expect an increase in strength of the matrix when it is reinforced with fibers and therefore applicant's claim of exhibiting superior physical properties of the composite of the present application with respect to polypropylene is nothing new. Another feature of present application is the use of treated fiber. NPL1 and NP2 both disclose the treatment of fiber before using them as reinforcement. No other subject matter is substantiated by the examples. Further incorporation of other ingredients like coupling agent is also disclosed in the cited prior arts and the prior arts disclosed by the applicant and therefore their use as per the requirement will be obvious to a person skilled in the art. Therefore, in view of the cited documents NPL1 and NPL2, the subject matter of claims 1-9 lacks inventive step U/S 2(1)(ja) of the Patents Act.

(2).पेटेंट अयोग्यता /NON PATENTABILITY:

(I) निम्नलिखित कारणों से धारा 3 के खंड (j) के प्रावधान के तहत दावा(वे) (9) सांविधिक रूप से पेटेंट योग्य नहीं हैं /
Claim(s) (9) are statutorily non-patentable under the provision of clause (j) of Section 3 for the following reasons:

Claim 9 is not allowed as it includes a part of a plant in the final product and therefore U/S 3(j) of the Patents Act, such products are not allowed.

(3).आविष्कार की एकलता /UNITY OF INVENTION:

(I) दावा(वों) 1-9 में आविष्कार की एकलता की कमी है क्योंकि दावे किसी एक आविष्कार या आविष्कारों का समूह जो मिलकर एक आविष्कारी संकल्पना की संरचना करें उससे संबंधित नहीं हैं। Claim(s) 1-9 lack(s) unity of invention as the claims do not relate to a single invention or to a group of inventions linked so as to form a single inventive concept:

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept u/s 10(5) of the Patents (Amended) Act, 2005.

Group I: Claim 1-7 claims about composite process

Group II: Claim 8-9 claims about article process/ produced by composite.

The inventions listed as Groups I-II do not relate to a single general inventive concept u/s 10(5) because they lack the same or corresponding special technical features and as the said claims lack inventive step, no common inventiveness among the claims could be adjudged.

(II) इस आवेदन का दावा (के दावे) सह-तंबित आवेदन संख्या के दावे के परस्पर विरोध में है।
Claim(s) of the instant application conflict(s) with claim(s) of co-pending application no.

(5).पूकटन की दक्षता /SUFFICIENCY OF DISCLOSURE:

(I) दावा(वे) 1-3,5-7 विनिर्देश में पूकट विषय पर आधारित नहीं है अथवा निम्नलिखित कारणों से विनिर्देश में पूकटन द्वारा समर्थित नहीं है।
Claim(s)'1-3,5-7' are not fairly based on the matter disclosed in the specification or not supported by the disclosure in the specification for the following reasons:

Claims are not supported by the description, the subject matter disclosed in the claims 1-3,5-7 are neither substantiated nor disclose any new subject matter not known/obvious to a person skilled in the art.

(6).क्षेत्र /SCOPE:

(I) दावा(वे) 1-9 आविष्कार के उस क्षेत्र जिस के लिए संरक्षण का दावा किया गया है उसे निम्नलिखित कारणों से परिभाषित नहीं करता(ते) है।
Claim(s) 1-9 does/do not define the scope of invention for which the protection is claimed for the following reasons:

Claims 1-9 are not clear in respect of parameters (about extrusion and injection moulding) parameters and compounds (such as polypropylene and coupling agent and composition (matrix and reinforcement, coupling agent percentage) which is generic which makes the scope of claims indefinite for which protection is sought. It should be precise. (Section 10(4)(c) of the Patent act, 2005).

(7).स्पष्टता एवं संक्षिप्तता /CLARITY AND CONCISENESS:

(I) दावा(वे) 1-9 के संबंध में स्पष्ट रूप से परीभाषित नहीं हैं।
Claim(s) 1-9 are not clearly worded in respect of:

Kindly provide a definition for the term “biocomposite”, since it is not a commonly used term and therefore to define scope based this term it is necessary to define the term first.

(8).अन्य आवश्यकताएँ /OTHERS REQUIREMENTS:

(I)
Form 30 is filed for revocation of POA, which leads to change in the address of communication but since the request for change of address of communication is not filed in the prescribed manner (through form 13), the same(change in address of communication) cannot be taken on record. The request to change the address of communication should be submitted in the prescribed manner(form 13).

भाग – III: औपचारिक आवश्यकताएँ /PART-III: FORMAL REQUIREMENTS

आपत्तियाँ /Objections	टिप्पणी /Remarks
Other Deficiencies	1. Copy of Form 1 should be submitted.
Format of Specification (rule 13)	1. Abstract has not been filed with a title and concise summary of the invention within 150 words in accordance with Rules 13(7) (a), 13(7) (c), 13(7d) of Patents Rules, 2003. 2. Form 2 (Claims) has not been signed and dated at the end with signatory name. (Second schedule of Patents Rules, 2003).
Endorsement by /Assignment from Inventor	1. Proof of right in the form of assignment from the inventor has not been filed within the prescribed time period of 6 months from the date of filing in India. The same may be filed in the prescribed manner. (U/R 10 of the Patents Rules, 2003).

भाग-IV: रिकॉर्ड में दस्तावेज़ /PART-IV: DOCUMENTS ON RECORD

निम्नलिखित दस्तावेजों के आधार पर यह परीक्षण रिपोर्ट तैयार की गयी है

The examination report has been prepared based on the following documents:

कार्यसूची तिथि / Docket Date	कार्यसूची संख्या /Docket Number	प्रविष्टि संख्या विवरण /Entry Number Description
18 Oct 2015	33668	1-New Application For Patent With Provisional /Complete Specification
15 Oct 2016	41979	2-Complete After Provisional Specification - Form 2 Check For No. OF Pages & Claims
15 Oct 2016	42001	28(i)-Request For Examination After 18 months Publication - Form 18
03 Nov 2016	45390	OTHERS(NON CASH)

नियंत्रक का नाम /Name of the Controller: [Sathish Kumar Moorthy](#)

नियंत्रक स्थान /Controller Location: [Chennai](#)


टिप्पणी: परीक्षण रिपोर्ट का उत्तर दाखिल करने की अंतिम तिथि / Note: Last date for filing response to the Examination Report:
23/04/2020

FORM 5
THE PATENTS ACT, 1970
(39 of 1970)
&
THE PATENTS RULES, 2003
DECLARATION AS TO INVENTORSHIP
[See Section 10(6) and rule 13(6)]

1. NAME OF APPLICANT(S) Dr. M.G.R Educational and Research Institute, Maduravoyal, Chennai-95

Hereby declare that the true and first inventor(s) of the invention disclosed in the complete specification filed in pursuance of my/our application number
dated

2. INVENTORS

Name	Nationality	Address	Signature
Dr. N. Jayachitra	Indian	Department of Chemical Engineering, Dr. MGR Educational and Research Institute University, EVR Periyar Salai, Maduravoyal, Chennai-600095, Tamilnadu	

Dated this

N. Sreevidya

Signature

Name of signatory

For APPLICANTS

PATENT ATTORNEY

To
The Controller of Patent
The Patent Office,
Intellectual Property Office Building,
G.S.T. Road, Guindy,
Chennai – 600032
India.



Controller General of Patents, Designs and Trademarks
Department of Industrial Policy and Promotion
Ministry of Commerce and Industry

Application Details

APPLICATION NUMBER	201741038865
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	01/11/2017
APPLICANT NAME	DR. MGR EDUCATIONAL AND RESEARCH INSTITUTE,
TITLE OF INVENTION	MOUNTING SKELETON FOR ARTICULATORS
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent@drmgrdu.ac.in
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	08/11/2019

Application Status

APPLICATION STATUS	Awaiting Request for Examination
--------------------	---

[View Documents](#)

➡ Filed ➡ Published ➡ RQ Filed ➡ Under Examination

Department of Prosthodontics and Crown & Bridge
Key Indicator-3.4.3 Research Publications and Awards(10)-Number of Patents published/awarded

2



Controller General of Patents, Designs and Trademarks
Department of Industrial Policy and Promotion
Ministry of Commerce and Industry

Application Details

APPLICATION NUMBER	201741038867
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	01/11/2017
APPLICANT NAME	DR. MGR EDUCATIONAL AND RESEARCH INSTITUTE,
TITLE OF INVENTION	ABSORBABLE SPITTOON PAPER BAG
FIELD OF INVENTION	COMMUNICATION
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent@drmgrdu.ac.in
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	08/11/2019

Application Status

APPLICATION STATUS	Awaiting Request for Examination
--------------------	---

[View Documents](#)

➡ Filed ➡ Published ➡ RQ Filed ➡ Under Examination

Department of Prosthodontics and Crown & Bridge
Key Indicator-3.4.3 Research Publications and Awards(10)-Number of Patents published/awarded

3



FORM 1

THE PATENTS ACT 1970
(39 of 1970)

&

The Patents Rules, 2003

APPLICATION FOR GRANT OF PATENT

(See section 7, 54 & 135 and rule 20 (1))

(FOR OFFICE USE ONLY)

Application No:

5791/Chennai/2015

Filing Date:

28.10.2015

Amount of Fee Paid:

1760

CBR No: 22430

Signature:

APPLICANT(S)

Name KESAVAN R

Nationality

INDIAN

Address

525-18th Street

VINITA MARY

INDIAN

Address

SHENAI NAGAR - Chennai 30

INVENTOR(S)

Name KESAVAN R

Nationality

INDIAN

Address

525-18th Street

VINITA MARY

INDIAN

Address

SHENAI NAGAR - Chennai 30

TITLE OF THE INVENTION COMPREHENSIVE - DENTAL CAMP BOX AND AUTOCLAVE

ADDRESS FOR CORRESPONDENCE OF

APPLICANT AUTHORIZED PATENT AGENT IN INDIA

KESAVAN R - 525-18th Street

Shenai Nagar - Chennai 30

Telephone No.

Fax No.

Mobile No.

9884377268

E-mail: Keshavan84@gmail.com

PRIORITY PARTICULARS OF THE APPLICATION (S) FILED IN CONVENTION COUNTRY

Country	Application Number	Filing Date	Name of the Applicant	Title of the Invention
		NIL		

PARTICULARS FOR FILING PATENT COOPERATION TREATY (PCT) NATIONAL PHASE APPLICATION

International application number.	International filing date as allotted by the receiving office.
NIL	

PARTICULARS FOR FILING DIVISIONAL APPLICATION

Original (first) application number.	Date of filing of Original (first) application
NIL	

PARTICULARS FOR FILING PATENT OF ADDITION

Main application/patent Number.	Date of filing of main application
NIL	

DECLARATIONS:

Declaration by the Inventor(s)

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.

Date

Signature(s)

Name(s)

Declaration by the applicant(s) in the convention country

I/We, the applicant(s) in the convention country declare that the applicant(s) herein is/are my/our assignee or legal representative.

Date

Signature(s)

Name(s) of the signatory

28-Oct-2015/34621/5791-CHENNAI

(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 to the grant of the Patent to me/us.
- ☒ I am/ We are the assignee or legal representative of true & first inventors.
- ☒ The application or each of the applications, particulars of which are given in Para - 5 was the first application in convention country/countries in respect of my/our invention.
- ☒ 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 Para - 6.
- ☒ The application is divided out of my/our application particulars of which are given in Para - 7 and pray that this application may be treated as deemed to have been filed on _____ under sec.16 of the Act.
- ☒ The said invention is an improvement in or modification of the invention particulars of which are given in Para - 8.

10. Following are the attachments with the application:

- (a) Provisional specification/Complete specification
- (b) Complete specification (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies), No. of pages _____ No. of claims _____
- ☒ (c) Drawings (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies), No. of sheets _____
- (d) Priority documents
- (e) Translation of priority document/Specification/International Search Report
- (f) Statement and undertaking on Form 3
- (g) Power of Authority
- (h) Declaration of inventorship on Form 5
- (i) Sequence listing in electronic form

Fee Rs. 175.00 in Cash / Cheque / Bank Draft bearing no. 345224

Date 27/10/11 on CANARA Bank Madhavoyal - Chennai 91

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

Dated this _____ day of OCTOBER 2011

Signature:-

Name:

R. Kumar
A. Vinu Mary

To, The Controller of Patent
The Patent Office, at _____

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 (✓) or cross (x) whichever is applicable/not applicable in declaration in para-9.

*Name of the inventor and applicant should be given in full, family name in the beginning.

*Complete address of the inventor and applicant should be given stating the postal Index no./code, state and country. *Strike out the column which is/are not applicable * For fee: See First Schedule

Amount of Fee Paid: 1760/-
CBR No: 22221
Signature: 26.10.2015

DHAKAR Nationality INDIAN Address 577. Alagiri Swamy Road
THA INDIAN. KK Nagar - Chennai - 78.

DHAKAR Nationality INDIAN Address 577. Alagiri Swamy Road
A. INDIAN. KK Nagar - Chennai - 78.

INVENTION TURMERIC MOUTH RINSING IN THE TREATMENT OF

CORRESPONDENCE OF
AUTHORIZED PATENT AGENT IN INDIA

CUMA SUDHAKAR
in Swamy Road
an - Chennai - 78.

Telephone No.

Fax No.

Mobile No. 9962075728

E-mail: UMS-570@yahoo.co.in

PARTICULARS OF THE APPLICATION (S) FILED IN CONVENTION COUNTRY

Application Number	Filing Date	Name of the Applicant	Title of the Invention
	NIL		

PARTICULARS FOR FILING PATENT COOPERATION TREATY (PCT) NATIONAL PHASE

Application number.	International filing date as allotted by the receiving office.
NIL	

PARTICULARS FOR FILING DIVISIONAL APPLICATION

Application number.	Date of filing of Original (first) application
NIL	

PARTICULARS FOR FILING PATENT OF ADDITION

Patent Number.	Date of filing of main application
NIL	

US:

the inventor(s)

named inventor(s) is/are the true & first inventor(s) for this invention and declare
(s) herein is/are my/our assignee or legal representative.

NA

/ the applicant(s) in the convention country

ant(s) in the convention country declare that the applicant(s) herein is/are my/our
representative.

NA

e signatory

- ☒ 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 to the grant of the Patent to me/us.
- ☒ I am/ We are the assignee or legal representative of true & first inventors.
- ☒ The application or each of the applications, particulars of which are given in Para - 5 was the first application in convention country/countries in respect of my/our invention.
- ☒ 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 Para - 6.
- ☒ The application is divided out of my/our application particulars of which are given in Para - 7 and pray that this application may be treated as deemed to have been filed on _____ under sec.16 of the Act.
- ☒ The said invention is an improvement in or modification of the invention particulars of which are given in Para - 8.

Following are the attachments with the application:

~~Provisional specification/Complete specification~~

~~Complete specification (in conformation with the international application)/as amended before International Preliminary Examination Authority (IPEA), as applicable (2 copies), No. of pages _____ No. of claims _____~~

~~Drawings (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies), No. of sheets _____~~

~~Priority documents~~

~~Translation of priority document/Specification/International Search Report~~

~~Statement and undertaking on Form 3~~

~~Power of Authority~~

~~Declaration of inventership on Form-5~~

~~Sequence listing in electronic form~~

Request filed by **D.V. MAR EDUCATIONAL & Research Institute**

17.6.01 in Cash / Cheque / Bank Draft bearing no. **342313**

14.10.2011 on **Canara** Bank. **Madhavayal-Chennai-91**

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

Filed this _____ day of **OCT 11** 20**11**.

Signature: **Umaandhar**

Name: **Uma SUDHAKAR**

Controller of Patent

Patent Office, at _____

Seal boxes in case of more than one entry.

Filed by the applicant(s) or by authorized registered patent agent otherwise where mentioned.

Check (x) whichever is applicable/not applicable in declaration in para-9.

The inventor and applicant should be given in full, family name in the beginning.

Address of the inventor and applicant should be given stating the postal index no./code, country. *Strike out the column which is/are not applicable * For fee: See First Schedule



Office of the Controller General of Patents, Designs & Trade Marks
Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

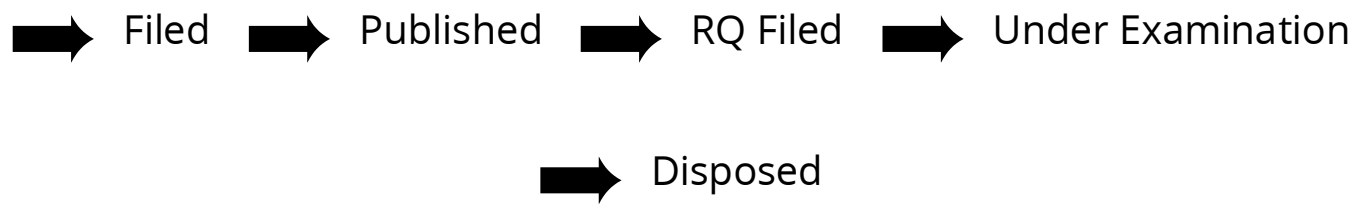
(<http://ipindia.nic.in/index.htm>)



(<http://ipindia.nic.in/index.htm>)

Application Details	
APPLICATION NUMBER	5722/CHE/2015
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	26/10/2015
APPLICANT NAME	1 . LALITHA 2 . UMA SUDHAKAR
TITLE OF INVENTION	BONE GRAFT FILLER INSTRUMENT
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	doclalita@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	28/04/2017

Application Status			
			View Documents





COIR SPINNING PLANT MACHINERY DEVELOPMENT PROJECT
Funded by Coir Board (Ministry of MSME), Govt. of India

Project Title: Development of Coir Processing Machinery for Spinning of Fine Quality of Coir Yarn of Uniform Thickness and Reduced Hairiness

MoU Signed Date: 10.06.2017

Fund Allotted : Rs.2.99 Crores

Scope for Commercialisation of machines developed under the project

1. For Commercialisation of Prototype machines developed under the project LMW will involve (Ref Point No: 1.3 in 1.Preamble in MoU)
2. Dr.M.G.R University in Cooperation with the board may also arrange to transfer the technologies developed under this project to coir entrepreneurs. (11. Result of the Project Activities Point No:4 in MoU)
3. The Fees received on account of the technology transfer shall be shared between the Board and Dr.M.G.R University on 50:50 basis including tax. (11. Result of the Project Activities Point No:6 in MoU)



कयर बोर्ड COIR BOARD

सूक्ष्म, लघु और मध्यम उद्यम मंत्रालय, (भारत सरकार)
Ministry of Micro, Small and Medium Enterprises
केन्द्रीय कयर अनुसंधान संस्थान
CENTRAL COIR RESEARCH INSTITUTE

कलवूर पो.ओ.
पिन-688522
आलप्पुवा जिल्हा
टेलिफोन -258094
258480
Kulavoor P.O.
Pin - 688 522
Alleppey Dist.
Tel: 258094
258480

सी.सी.आर.आई/अनुसं/ परियोजना-एमजीआरयु/2016-17/3/17 / 287
CCRI/Res/PROJECT-MGRU/2016-17/3/17

13.06.2017

डा. पी. पलानीसामी, पीएचडी /Dr. P. Palanisamy, Ph. D.

डीन - एआरआई/Dean - ARI

डा. एमजीआर शैक्षिक और अनुसंधान संस्थान विश्वविद्यालय /

Dr. MGR. Educational & Research Institute University,

मदुरावोल /Maduravoyal, चेन्नई /Chennai 600 095

तमिलनाडु/TAMILNADU.

महोदय/Sir,

विषय/Sub:- "Development of Coir Processing Machinery for Spinning of Fine Quality of
Coir Yarn of Uniform Thickness and Reduced Hairiness" with Dr.MGR
University, Chennai & LMW, Coimbatore -MoU fdg-reg.

कृपया उपरोक्त विषय देखें. इस संबंध में विधिवत हस्ताक्षरित समझौता ज्ञापन की प्रति आपके
सूचना के लिए इसके साथ आगे भेजा गया है।

Please refer to the subject cited. In this connection the copy of the duly signed MoU
is forwarded herewith for your reference.

भवदीय/Yours faithfully,

निदेशक आर.डी.टी.ई./DIRECTOR, R.D.T.E.