



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

### Application Details

|                                  |   |
|----------------------------------|---|
| APPLICATION NUMBER               | 202041019727  |
| APPLICATION TYPE                 | ORDINARY APPLICATION  |
| DATE OF FILING                   | 09/05/2020  |
| APPLICANT NAME                   | SYED HABIBUNNISA  |
| TITLE OF INVENTION               | AN UNIQUE SUSTAINABLE<br>CONSTRUCTION MATERIAL EXTRACTED<br>FROM WRIGTHIA TINCTORIA SEED FIBER<br>AND ANALYZING ITS PROPERTIES<br>THEREOF |
| FIELD OF INVENTION               | BIOTECHNOLOGY   |
| E-MAIL (As Per Record)           | sgowthami12@gmail.com   |
| ADDITIONAL-EMAIL (As Per Record) | sgowthami12@gmail.com   |
| E-MAIL (UPDATED Online)          |   |
| PRIORITY DATE                    |   |
| REQUEST FOR EXAMINATION DATE     | 16/06/2020  |
| PUBLICATION DATE (U/S 11A)       | 05/06/2020  |
| FIRST EXAMINATION REPORT DATE    | 22/06/2020  |
| REPLY TO FER DATE                | 15/09/2020  |

### Application Status

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### Application Details

|                                  |   |
|----------------------------------|---|
| APPLICATION NUMBER               | 202041001797  |
| APPLICATION TYPE                 | ORDINARY APPLICATION  |
| DATE OF FILING                   | 15/01/2020  |
| APPLICANT NAME                   | 1 . DR. SYED UMAR<br>2 . DR. R. SUNEETHA RANI<br>3 . DR. UPPALAPATI SRILAKSHMI<br>4 . DR.PANKAJ KUMAR SRIVASTAVA<br>(PRINCIPAL)<br>5 . DR. MATAM BHEEMALINGAIAH<br>6 . DR.'K. RAJESHWAR RAO<br>7 . LALITA VERMA<br>8 . DR.U.MOULALI, (PROFESSOR, CSE<br>DEPT) |
| TITLE OF INVENTION               | AEROPLANE ,AIRCRAFT ACCIDENTS<br>PREDICTIVE ANALYTICS USING MACHINE<br>LEARNING, DEEP LEARNING AND OTHER<br>PROGRAMING.   |
| FIELD OF INVENTION               | ELECTRONICS   |
| E-MAIL (As Per Record)           | dr.bksarkar2003@yahoo.in  |
| ADDITIONAL-EMAIL (As Per Record) | dr.bksarkar2003@yahoo.in  |
| E-MAIL (UPDATED Online)          |   |
| PRIORITY DATE                    |   |
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| PUBLICATION DATE (U/S 11A)       | 17/01/2020  |



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### Application Details

|                                  |   |
|----------------------------------|---|
| APPLICATION NUMBER               | 202041008926  |
| APPLICATION TYPE                 | ORDINARY APPLICATION  |
| DATE OF FILING                   | 02/03/2020  |
| APPLICANT NAME                   | 1 . Dr. T. SUBRAMANI<br>2 . Dr. A. ANBU CHEZIAN<br>3 . P. SIVAKUMAR<br>4 . K. P. SIVARAJ<br>5 . S. PRIYANKA<br>6 . A. ABIRAM<br>7 . J. KARTHICK RAJAN |
| TITLE OF INVENTION               | SEGMENTATION OF SURFACE CRACKS<br>BASED ON A FULLY CONVOLUTIONAL<br>NEURAL NETWORK AND GATED SCALE<br>POOLING   |
| FIELD OF INVENTION               | COMPUTER SCIENCE  |
| E-MAIL (As Per Record)           | reachvsaravanan@gmail.com   |
| ADDITIONAL-EMAIL (As Per Record) | reachvsaravanan@gmail.com   |
| E-MAIL (UPDATED Online)          |   |
| PRIORITY DATE                    |   |
| REQUEST FOR EXAMINATION DATE     | --  |
| PUBLICATION DATE (U/S 11A)       | 06/03/2020  |

### Application Status



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### Application Details

|                                  |   |
|----------------------------------|---|
| APPLICATION NUMBER               | 202031019607  |
| APPLICATION TYPE                 | ORDINARY APPLICATION  |
| DATE OF FILING                   | 08/05/2020  |
| APPLICANT NAME                   | 1 . Dr. Achyuth Sarkar<br>2 . Dr. E Laxmi Lydia<br>3 . Dr. Raju Dindigala<br>4 . V.Sridhar<br>5 . Dr.I.Sivakumar<br>6 . Dr. Krishna Prasad K<br>7 . Udit Mamodiya<br>8 . Dr. A. Jayanthiladevi<br>9 . Dr. T.P Latchoumi |
| TITLE OF INVENTION               | METHOD FOR DIAGNOSE MEDICAL PROBLEM THROUGH MEDICAL IMAGE PROCESSING USING BIG DATA AND MACHINE LEARNING  |
| FIELD OF INVENTION               | COMPUTER SCIENCE  |
| E-MAIL (As Per Record)           | udit.mamodiya@poornima.org  |
| ADDITIONAL-EMAIL (As Per Record) | 1990uditmamodiya@gmail.com  |
| E-MAIL (UPDATED Online)          |   |
| PRIORITY DATE                    |   |
| REQUEST FOR EXAMINATION DATE     | --  |
| PUBLICATION DATE (U/S 11A)       | 12/06/2020  |



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### Application Details

|                                  |  |
|----------------------------------|--|
| APPLICATION NUMBER               | 202041020773   |
| APPLICATION TYPE                 | ORDINARY APPLICATION   |
| DATE OF FILING                   | 17/05/2020   |
| APPLICANT NAME                   | 1 . Dr.S.Gnanasekaran<br>2 . Dr. T.C.Manjunath<br>3 . Dr.S.Senthil Kumar<br>4 . Dr. S. Nallusamy<br>5 . Dr. Kannan Kaliappan<br>6 . Dr. Velmani Ramasamy<br>7 . Mr. Shubham Awasthi<br>8 . Mr.S.Nagakumararaj<br>9 . Mr. Hemant B. Mahajan<br>10 . Mr.Srinivas Naik<br>11 . Mr.Manju J R<br>12 . Mr.Venkata Ranga Rao Kommineni<br>13 . Dr.Parrakal Satishchandra Menon<br>14 . Dr.A.Umesh Bala<br>15 . Mr.T.Vignesh |
| TITLE OF INVENTION               | DEVELOPMENT OF PESTICIDES SPRAY<br>DRONE FOR AGRICULTURE FIELDS  |
| FIELD OF INVENTION               | COMPUTER SCIENCE   |
| E-MAIL (As Per Record)           | sgnanasekaran@siet.ac.in   |
| ADDITIONAL-EMAIL (As Per Record) | sgnanasekaran@siet.ac.in   |
| E-MAIL (UPDATED Online)          |  |
| PRIORITY DATE                    |  |
| REQUEST FOR EXAMINATION DATE     | --   |
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### Application Details

|                                  |  |
|----------------------------------|--|
| APPLICATION NUMBER               | 202041023028   |
| APPLICATION TYPE                 | ORDINARY APPLICATION   |
| DATE OF FILING                   | 02/06/2020   |
| APPLICANT NAME                   | 1 . Mr. Harishchander Anandaram<br>2 . Mrs. R.T. Subhalakshmi<br>3 . Dr. R. Aghila<br>4 . Dr Inayath Ahamed<br>5 . Mr. KARTHIKEYAN M P<br>6 . Mr. S Vijayakumar,<br>7 . Dr Nikkath Bushra<br>8 . Mr. Chidambaranathanu<br>9 . RAGHAVENDRARAO B<br>10 . Dr. SRINIVAS B KULKARNI |
| TITLE OF INVENTION               | AN APPROACH FOR EMPOWERING EDGE COMPUTING FOR SOURCE ALLOCATION BASED LEARNING FOR INDUSTRIAL IOT  |
| FIELD OF INVENTION               | COMMUNICATION  |
| E-MAIL (As Per Record)           | patentefiling@gmail.com  |
| ADDITIONAL-EMAIL (As Per Record) | patentefiling@gmail.com  |
| E-MAIL (UPDATED Online)          |  |
| PRIORITY DATE                    |  |
| REQUEST FOR EXAMINATION DATE     | --   |
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## Application Details

|                                  |   |
|----------------------------------|---|
| APPLICATION NUMBER               | 202041015774  |
| APPLICATION TYPE                 | ORDINARY APPLICATION                                    |
| DATE OF FILING                   | 11/04/2020  |
| APPLICANT NAME                   | Buradagunta Ratna Sunil                                 |
| TITLE OF INVENTION               | SOLID STATE DEPOSITION PROCESS OF SURFACE ALLOY COATING |
| FIELD OF INVENTION               | ELECTRONICS   |
| E-MAIL (As Per Record)           | bratnasunil@gmail.com                                   |
| ADDITIONAL-EMAIL (As Per Record) | bratnasunil@gmail.com                                   |
| E-MAIL (UPDATED Online)          |   |
| PRIORITY DATE                    |   |
| REQUEST FOR EXAMINATION DATE     | 11/04/2020  |
| PUBLICATION DATE (U/S 11A)       | 05/06/2020  |

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### Application Details

|                                  |                             |
|----------------------------------|-----------------------------|
| APPLICATION NUMBER               | 201911028963                |
| APPLICATION TYPE                 | ORDINARY APPLICATION        |
| DATE OF FILING                   | 18/07/2019                  |
| APPLICANT NAME                   | Kommu, Suresh               |
| TITLE OF INVENTION               | GEO COMPOSITE LINER SYSTEMS |
| FIELD OF INVENTION               | CIVIL                       |
| E-MAIL (As Per Record)           | lipi.kaundilya@gmail.com    |
| ADDITIONAL-EMAIL (As Per Record) | admin@iprsrg.com            |
| E-MAIL (UPDATED Online)          |                             |
| PRIORITY DATE                    |                             |
| REQUEST FOR EXAMINATION DATE     | 11/06/2020                  |
| PUBLICATION DATE (U/S 11A)       | 26/07/2019                  |

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### Application Details

|                                  |   |
|----------------------------------|---|
| APPLICATION NUMBER               | 201941029200  |
| APPLICATION TYPE                 | ORDINARY APPLICATION  |
| DATE OF FILING                   | 19/07/2019  |
| APPLICANT NAME                   | 1 . DR.B.SINGARAVEL<br>2 . MR.K.MANGAPATHI RAO<br>3 . DR VINAY KUMAR DOMAKONDA<br>4 . DR.K.CHANDRA SHEKAR<br>5 . DR.S.DEVA PRASAD<br>6 . DR. SYED MUJAHED HUSSAINI<br>7 . MR.N.VENKATESHWARALU<br>8 . DR. M.MOHAMMED ASIF |
| TITLE OF INVENTION               | ED-MACHINE: NANO POWDER MIXED<br>VEGETABLE OIL AS DIELECTRIC FLUID<br>COUPLED WITH CRYOGENICALLY TREATED<br>ELECTRODE AND BIO THINNER FOR<br>ENHANCEMENT OF PROCESS<br>PERFORMANCE IN ELECTRICAL<br>DISCHARGE MACHINING   |
| FIELD OF INVENTION               | ELECTRICAL  |
| E-MAIL (As Per Record)           | dr.bksarkar2003@yahoo.in  |
| ADDITIONAL-EMAIL (As Per Record) | dr.bksarkar2003@gmail.com   |
| E-MAIL (UPDATED Online)          |   |
| PRIORITY DATE                    |   |
| REQUEST FOR EXAMINATION DATE     | --  |
| PUBLICATION DATE (U/S 11A)       | 02/08/2019  |

### Application Details

|                                  |  |
|----------------------------------|--|
| APPLICATION NUMBER               | 201941031853   |
| APPLICATION TYPE                 | ORDINARY APPLICATION   |
| DATE OF FILING                   | 06/08/2019   |
| APPLICANT NAME                   | 1 . DR.B.SINGARAVEL<br>2 . DR.L.SUVARNA RAJU<br>3 . CH.DIVYA   |
| TITLE OF INVENTION               | IT- TURNING PROCESS: INTELLIGENT<br>IMAGE PROCESSING TECHNOLOGY FOR<br>TEXTURED CUTTING TOOL WEAR<br>MEASUREMENT IN TURNING PROCESS. |
| FIELD OF INVENTION               | MECHANICAL ENGINEERING   |
| E-MAIL (As Per Record)           | dr.bksarkar2003@yahoo.in   |
| ADDITIONAL-EMAIL (As Per Record) | dr.bksarkar2003@gmail.com  |
| E-MAIL (UPDATED Online)          |  |
| PRIORITY DATE                    |  |
| REQUEST FOR EXAMINATION DATE     | --   |
| PUBLICATION DATE (U/S 11A)       | 16/08/2019   |

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### Application Details

|                    |  |
|--------------------|--|
| APPLICATION NUMBER | 201941050067   |
| APPLICATION TYPE   | ORDINARY APPLICATION   |
| DATE OF FILING     | 05/12/2019   |
| APPLICANT NAME     | 1 . SRIRAMI REDDY KAMIREDDY<br>2 . Dr. D SATYANARAYANA<br>3 . Dr. RAVI KUMAR MANDAVA<br>4 . Dr. LAM SUVARNA RAJU<br>5 . P S R GOPALA SETTI |

|                    |   |
|--------------------|---|
| TITLE OF INVENTION | AN EFFICIENT METHODOLOGY AND A SYSTEM TO RESCUE A CHILD FELL INTO ABANDONED BORE WELL |
|--------------------|---|

|                    |               |
|--------------------|---------------|
| FIELD OF INVENTION | BIO-CHEMISTRY |
|--------------------|---------------|

|                        |                       |
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| ADDITIONAL-EMAIL (As Per Record) | sgowthami12@gmail.com |
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|               |  |
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| PRIORITY DATE |  |
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| REQUEST FOR EXAMINATION DATE | 18/12/2019 |
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| PUBLICATION DATE (U/S 11A) | 13/12/2019 |
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### Application Status

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(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau

(43) International Publication Date 31 October 2019 (31.10.2019)



(10) International Publication Number WO 2019/207604 A1

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C07D 401/04 (2006.01) A61P 25/28 (2006.01)
C07D 403/04 (2006.01) A61K 31/473 (2006.01)
C07D 405/04 (2006.01)

[IN/IN]; Thavakkara, Civil Station, Kannur 670002 (IN). VIGNAN'S FOUNDATION FOR SCIENCE TECHNOLOGY AND RESEARCH [IN/IN]; Vadlamudi, Guntur 670002 (IN).

(21) International Application Number:

PCT/IN2019/050337

(72) Inventors:

RAMAKRISHNAPILLAI VY-

OMAKESANNAIR, Omkumar; Rajiv Gandhi Centre for Biotechnology, Thycaud, Kerala, Thiruvananthapuram 695014 (IN). CHITTALAKKOTTU, Sadasivan; Kannur University, Thalassery Campus, Palayad, Kannur 670661 (IN). ANWAR, Shaik; Vignan's Foundation for Science Technology and Research, Vadlamudi, A.P., Guntur 522213 (IN). VARIYAR ELESSERY, Jayadevi; Kannur University, Thalassery Campus, Palayad, Kerala, Kannur 670661 (IN). CHANDRAN, Remya; Kannur University, Thalassery Campus, Palayad, Kannur 670661 (IN). KOTI REDDY, Eeda; Vignan's Foundation for Science Technology and Research, Vadlamudi, A.P., Guntur 522213 (IN).

(22) International Filing Date:

25 April 2019 (25.04.2019)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

201841015699 25 April 2018 (25.04.2018) IN

(71) Applicants: RAJIV GANDHI CENTRE FOR BIOTECHNOLOGY [IN/IN]; Thycaud, P. O., Thiruvananthapuram 695014 (IN). KANNUR UNIVERSITY

(54) Title: TACRINE DERIVATIVES TARGETING NMDA RECEPTOR, ACETYLCHOLINE ESTERASE, BUTYRYL CHOLINE AND BETA SECRETASE ACTIVITY

Binding mode of Tacrine at the active site of hAChE and NMDA receptor

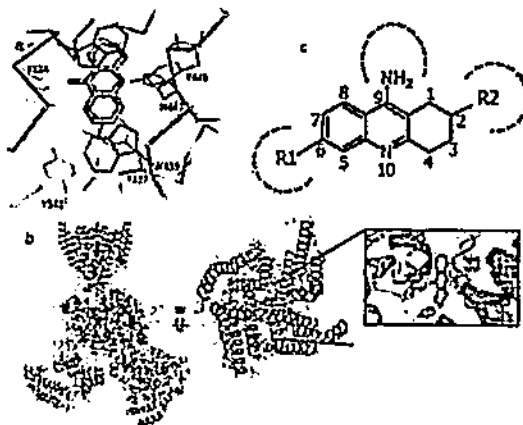
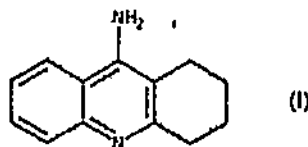


Figure 1



(57) Abstract: The present invention underlying this instant application prepares a library based on tacrine, and discloses and claims derivatives of a heterocyclic compound tacrine with the basic molecular formula C13H14NNH2, and the structural formula of (Formula I): Wherein either position 2 or position 6 or both may be substituted by R1 and R2 respectively, wherein R1 and R2 is selected from hydrogen, halogen or halo derivatives, phenyl, substituted benzene, benzene derivatives, heterocyclic derivatives of nitrogen (N2), furan derivatives, amide or amide derivatives, purine or pyrimidine, purine derivatives or pyrazole or pyrazole derivatives, and ester derivatives, either standalone or any combination thereof.

WO 2019/207604 A1



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### Application Details

|                                  |  |
|----------------------------------|--|
| APPLICATION NUMBER               | 201941042746   |
| APPLICATION TYPE                 | ORDINARY APPLICATION   |
| DATE OF FILING                   | 22/10/2019   |
| APPLICANT NAME                   | 1 . DR.BANDARU SRINIVASA RAO<br>2 . DR.KAMEPALLI SUJATHA                 |
| TITLE OF INVENTION               | IMPLEMENT INDUSTRY INSTITUTION<br>INTERACTION FOR MANAGEMENT<br>STUDENTS |
| FIELD OF INVENTION               | COMPUTER SCIENCE   |
| E-MAIL (As Per Record)           |  |
| ADDITIONAL-EMAIL (As Per Record) | drbsraoprofessormmt10672@gmail.com                                       |
| E-MAIL (UPDATED Online)          |  |
| PRIORITY DATE                    |  |
| REQUEST FOR EXAMINATION DATE     | --   |
| PUBLICATION DATE (U/S 11A)       | 01/11/2019   |

### Application Status

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### Application Details

|                                  |  |
|----------------------------------|--|
| APPLICATION NUMBER               | 201941039885   |
| APPLICATION TYPE                 | ORDINARY APPLICATION   |
| DATE OF FILING                   | 02/10/2019   |
| APPLICANT NAME                   | 1 . POLURI VENKATA LAVANYA<br>2 . CHINTHAGINJALA VENKATA<br>NARASIMHULU<br>3 . KODATI SATYA PRASAD |
| TITLE OF INVENTION               | A METHOD OF IMAGE DENOISING AND A<br>SYSTEM THEREOF  |
| FIELD OF INVENTION               | COMPUTER SCIENCE   |
| E-MAIL (As Per Record)           | gsra1kumar@gmail.com   |
| ADDITIONAL-EMAIL (As Per Record) | sra1kumarg@outlook.com   |
| E-MAIL (UPDATED Online)          |  |
| PRIORITY DATE                    |  |
| REQUEST FOR EXAMINATION DATE     | 02/10/2019   |
| PUBLICATION DATE (U/S 11A)       | 18/10/2019   |

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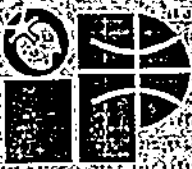


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### Application Details

|                                  |   |
|----------------------------------|---|
| APPLICATION NUMBER               | 201841015699  |
| APPLICATION TYPE                 | ORDINARY APPLICATION  |
| DATE OF FILING                   | 25/04/2018  |
| APPLICANT NAME                   | 1 . Rajiv Gandhi Centre for Biotechnology<br>2 . Kannur University<br>3 . Vignan's Foundation for Science<br>Technology and Research-VFSTR (Deemed<br>to be University) |
| TITLE OF INVENTION               | NOVEL TACRINE DERIVATIVES THAT<br>TARGET NMDA RECEPTOR,<br>ACETYLCHOLINE-ESTERASE, BUTYRYL<br>CHOLINE ESTERASE AND BETA SECRETASE<br>ACTIVITIES                         |
| FIELD OF INVENTION               | CHEMICAL  |
| E-MAIL (As Per Record)           | lsdavar@vsnl.com  |
| ADDITIONAL-EMAIL (As Per Record) | docketing@lsdavar.in  |
| E-MAIL (UPDATED Online)          | kolkatapatent@Lsdavar.in  |
| PRIORITY DATE                    |   |
| REQUEST FOR EXAMINATION DATE     | --  |
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### Application Status



INTELLECTUAL PROPERTY INDIA

PATENTS | DESIGNS | TRADE MARKS | GEOGRAPHICAL INDICATIONS



सत्यमेव जयते

भारत सरकार

GOVERNMENT OF INDIA

पेटेंट कार्यालय

THE PATENT OFFICE

पेटेंट प्रमाणपत्र

PATENT CERTIFICATE

(Rule 74 Of The Patents Rules)

क्रमांक 044113495  
SL No



पेटेंट सं./ Patent No.

320636

आवेदन सं./ Application No.

201641036752

फाइल करने की तारीख / Date of Filing

26/10/2016

पेटेंटी / Patentee

1 Vignani Technology Business Incubator, 2 Nagesh Vangala 3 Rayudu Mannam

प्रमाणित किया जाता है कि पेटेंटी की उपरोक्त आवेदन में यथाप्रकटित **SOFT SWITCHING IN FLYBACK CONVERTERS USING A FIXED DEAD TIME** नामक आविष्कार के लिए पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख 26th day of October 2016 से बीस वर्षों की अवधि के लिए पेटेंट अनुदान किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled **SOFT SWITCHING IN FLYBACK CONVERTERS USING A FIXED DEAD TIME** as disclosed in the above mentioned application for the term of 20 years from the 26th day of October 2016 in accordance with the provisions of the Patents Act, 1970.



अनुदान की तारीख / Date of Grant: 17/09/2019

पेटेंट नियंत्रक / Controller of Patent

Note: The fees for renewal of this patent (It is to be maintained will fall) has fallen due on 26th day of October 2018 and on the same day in every year thereafter.





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### Application Details

|                                  |   |
|----------------------------------|---|
| APPLICATION NUMBER               | 201841010307  |
| APPLICATION TYPE                 | ORDINARY APPLICATION  |
| DATE OF FILING                   | 21/03/2018  |
| APPLICANT NAME                   | centre of excellence for advanced material<br>manufacturing, processing and<br>characterization (coexAMMPC) |
| TITLE OF INVENTION               | PROCESS FOR THE PRODUCTION OF<br>NOVEL LATENT CURATIVE FOR EPOXY<br>RESINS                                  |
| FIELD OF INVENTION               | POLYMER TECHNOLOGY  |
| E-MAIL (As Per Record)           |   |
| ADDITIONAL-EMAIL (As Per Record) | coexammpc@vignananuniversity.org  |
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| REQUEST FOR EXAMINATION DATE     | --  |
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### Application Status

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### Application Details

|                                  |  |
|----------------------------------|--|
| APPLICATION NUMBER               | 201941015601   |
| APPLICATION TYPE                 | ORDINARY APPLICATION   |
| DATE OF FILING                   | 18/04/2019   |
| APPLICANT NAME                   | 1 . KISTAPPAGARI PRAVEEN KUMAR<br>2 . CHINTHAGINJALA VENKATA<br>NARASIMHULU<br>3 . KODATI SATYA PRASAD |
| TITLE OF INVENTION               | METHODOLOGY AND SYSTEM FOR IMAGE<br>RESTORATION  |
| FIELD OF INVENTION               | COMPUTER SCIENCE   |
| E-MAIL (As Per Record)           | gsra1kumar@gmail.com   |
| ADDITIONAL-EMAIL (As Per Record) | gsra1kumar@gmail.com   |
| E-MAIL (UPDATED Online)          |  |
| PRIORITY DATE                    |  |
| REQUEST FOR EXAMINATION DATE     | 18/04/2019   |
| PUBLICATION DATE (U/S 11A)       | 26/04/2019   |

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### Application Details

|                                  |  |
|----------------------------------|--|
| APPLICATION NUMBER               | 201841007010   |
| APPLICATION TYPE                 | ORDINARY APPLICATION   |
| DATE OF FILING                   | 23/02/2018   |
| APPLICANT NAME                   | 1 . Vignan Technology Business Incubator<br>2 . Nagesh Vangala<br>3 . Rayudu Mannam                  |
| TITLE OF INVENTION               | REALIZING ZVS AND ZCS IN A<br>CONTINUOUS CONDUCTION BOOST<br>CONVERTER WITH BOUNDARY MODE<br>CONTROL |
| FIELD OF INVENTION               | COMMUNICATION  |
| E-MAIL (As Per Record)           | patent@bananaip.com  |
| ADDITIONAL-EMAIL (As Per Record) | patent@bananaip.com  |
| E-MAIL (UPDATED Online)          | nitin@bananaip.com   |
| PRIORITY DATE                    |  |
| REQUEST FOR EXAMINATION DATE     | 29/04/2019   |
| PUBLICATION DATE (U/S 11A)       | 22/02/2019   |
| FIRST EXAMINATION REPORT DATE    | 15/05/2019   |
| Date Of Certificate Issue        | 29/08/2019   |
| POST GRANT JOURNAL DATE          | 06/09/2019   |
| REPLY TO FER DATE                | 24/06/2019   |





To Promote the Progress  
of Science and Useful Arts

The Director

of the United States Patent and Trademark Office has received  
an application for a patent for a new and useful invention. The title  
and description of the invention are enclosed. The requirements  
of law have been complied with, and it has been determined that  
a patent on the invention shall be granted under the law.

Therefore, this United States

**PATENT**

grants to the person(s) having title to this patent the right to exclude others from making,  
using, offering for sale, or selling the invention throughout the United States of America or  
importing the invention into the United States of America, and if the invention is a process,  
of the right to exclude others from using, offering for sale or selling throughout the United  
States of America, products made by that process, for the term set forth in 35 U.S.C. 35(a)(3)  
or (c)(1), subject to the payment of maintenance fees as provided by 35 U.S.C. 4(b). See the  
Maintenance Fee Notice on the inside of the cover.

Andrew Kamen  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE



**United States Patent**  
Vangula et al.

(10) Patent No.: US 10,211,742 B2  
(45) Date of Patent: Feb. 19, 2019

(54) **SOFT SWITCHING IN SINGLE SWITCH  
BOUNDARY CONDUCTION MODE  
FLYBACK CONVERTERS USING A FIXED  
DEAD TIME**

(71) Applicants: Nagesh Vangula, Bangalore (IN);  
Rajeshu Manjunath, Bangalore (IN);  
Vignesh V. University, Guntur (IN)

(72) Inventors: Nagesh Vangula, Bangalore (IN);  
Rajeshu Manjunath, Bangalore (IN);  
Vignesh Vignesh, Guntur (IN)

(\*) Notice  
Subject to any disclaimer, the term of this  
patent is extended or adjusted under 35  
U.S.C. 154(b) by 0 days.

(21) Appl. No.: 15/794,960

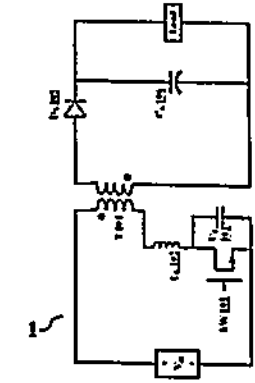
(22) Filed: Oct. 24, 2017

(63) Prior Publication Date  
US 20180124442 A1 May 3, 2018

(20) Foreign Application Priority Data  
Oct. 24, 2016 (IN) 201641006752

(51) Int. Cl.  
H02M 3/335 (2006.01)  
H02M 3/03 (2006.01)  
H02M 1/00 (2006.01)

(52) U.S. Cl.  
CPC — H02M 3/33607 (2013.01); H02M 3/033  
(2013.01); H02M 2007/0058 (2013.01)  
(50) Field of Classification Search  
CPC — H02M 3/335-3/42; H02M 3/014008  
See application file for complete search history.



(56) References Cited  
U.S. PATENT DOCUMENTS

- 4754385 A • 6/19/88 McDiak — 1023A/2013
- 2009027930 A1 • 1/20/09 Umi — 1023A/2013
- 2014034195 A1 • 1/22/14 Nishimura — 1023A/2017B
- 5627104

OTHER PUBLICATIONS

J. Zhang, X. Huang, X. Wu and Z. Qian, "A High-Frequency Flyback Converter With New Active Clamp Technique," in *IEEE Transac-tions on Power Electronics*, vol. 25, no. 7, pp. 1775-1783, Jul. 2010.

\* cited by examiner

Primary Examiner — Gary I. Lutton

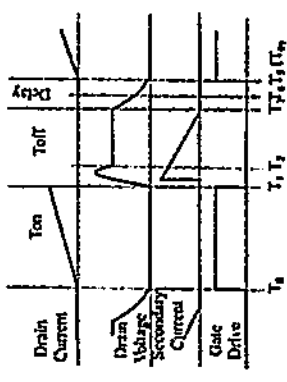
Assistant Examiner — Peter Noyak

(74) Attorney, Agent, or Firm — Manuera & Kang, P.C.;  
Vinay Akhli

(57) ABSTRACT

Soft switching in Boundary Conduction Mode (BCM) fly-back converters using a fixed dead time is presented. Embodiments disclosed herein relate to switching circuits and more particularly to soft switching in single stage isolated flyback converters with single switch. Embodiments herein disclose systems for soft switching in single stage isolated flyback converters by combining selection of trans-former turn ratio and by incorporating the fixed dead time.

9 Claims, 3 Drawing Sheets





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Department of Industrial Policy and Promotion  
Ministry of Commerce and Industry

### Application Details

|                                  |   |
|----------------------------------|---|
| APPLICATION NUMBER               | 201841040253  |
| APPLICATION TYPE                 | ORDINARY APPLICATION  |
| DATE OF FILING                   | 25/10/2018  |
| APPLICANT NAME                   | 1 . N.S. SAMPATH KUMAR<br>2 . K. MRUDULA CHOWDARY<br>3 . SATHISH KUMAR THIRUMALASETTI<br>4 . J. JASMINE REDDY<br>5 . VIJAYA R. DIRISALA |
| TITLE OF INVENTION               | AN EDIBLE FLAVOR ENHANCER FROM<br>PTERYGOPLICHTHYS PARDALIS   |
| FIELD OF INVENTION               | FOOD  |
| E-MAIL (As Per Record)           |   |
| ADDITIONAL-EMAIL (As Per Record) | nssk84@gmail.com  |
| E-MAIL (UPDATED Online)          |   |
| PRIORITY DATE                    |   |
| REQUEST FOR EXAMINATION DATE     | 25/10/2018  |
| PUBLICATION DATE (U/S 11A)       | 02/11/2018  |

### Application Status

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 Ministry of Commerce and Industry

### Application Details

|                                  |   |
|----------------------------------|---|
| APPLICATION NUMBER               | 201741012684  |
| APPLICATION TYPE                 | ORDINARY APPLICATION  |
| DATE OF FILING                   | 07/04/2017  |
| APPLICANT NAME                   | 1 . Kodali Vidya Prabhakar<br>2 . Ch Ravi Teja<br>3 . Karlapudi Abraham Peele<br>4 . Dr. Ravuru Bharath Kumar |
| TITLE OF INVENTION               | A NOVEL ALKALINE LACCASE FROM A MARINE BACTERIUM: ISOLATION AND PREPARATION THEREOF                           |
| FIELD OF INVENTION               | CHEMICAL  |
| E-MAIL (As Per Record)           | kodalividya prabhakar@gmail.com   |
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| PRIORITY DATE                    |   |
| REQUEST FOR EXAMINATION DATE     | --  |
| PUBLICATION DATE (U/S 11A)       | 12/10/2018  |

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### Application Details

|                                  |  |
|----------------------------------|--|
| APPLICATION NUMBER               | 201741008385   |
| APPLICATION TYPE                 | ORDINARY APPLICATION   |
| DATE OF FILING                   | 10/03/2017   |
| APPLICANT NAME                   | CENTRE OF EXCELLENCE IN ADVANCED MATERIAL MANUFACTURING, PROCESSING AND CHARACTERIZATION (CoExAMMPC) |
| TITLE OF INVENTION               | PROCESS FOR THE PRODUCTION OF NOVEL DUAL FUNCTIONAL CURATIVES AND IMPACT MODIFIERS FOR EPOXY RESIN   |
| FIELD OF INVENTION               | POLYMER TECHNOLOGY   |
| E-MAIL (As Per Record)           |  |
| ADDITIONAL-EMAIL (As Per Record) | chavaliM@gmail.com   |
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| PRIORITY DATE                    |  |
| REQUEST FOR EXAMINATION DATE     | --   |
| PUBLICATION DATE (U/S 11A)       | 14/09/2018   |

### Application Status

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### Application Details

|                                  |  |
|----------------------------------|--|
| APPLICATION NUMBER               | 201741008384   |
| APPLICATION TYPE                 | ORDINARY APPLICATION   |
| DATE OF FILING                   | 10/03/2017   |
| APPLICANT NAME                   | CENTRE OF EXCELLENCE IN ADVANCED<br>MATERIAL MANUFACTURING, PROCESSING<br>AND CHARACTERIZATION (COEXAMMPC) |
| TITLE OF INVENTION               | PROCESS FOR THE PRODUCTION OF<br>NOVEL LOW TEMPERATURE CURE<br>BENZOXAZINES                                |
| FIELD OF INVENTION               | CHEMICAL   |
| E-MAIL (As Per Record)           |  |
| ADDITIONAL-EMAIL (As Per Record) | chavaliM@gmail.com   |
| E-MAIL (UPDATED Online)          |  |
| PRIORITY DATE                    |  |
| REQUEST FOR EXAMINATION DATE     | --   |
| PUBLICATION DATE (U/S 11A)       | 14/09/2018   |

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 Ministry of Commerce and Industry

## Application Details

APPLICATION NUMBER 201821017685

APPLICATION TYPE ORDINARY APPLICATION

DATE OF FILING 10/05/2018

APPLICANT NAME 1 . JADHAV, Chaya Ravi  
 2 . NELAKUDITI, Usha Rani

TITLE OF INVENTION SYSTEM AND METHOD FOR COMPLAINT REGISTRATION,  
 MANAGEMENT AND TRACKING

FIELD OF INVENTION COMPUTER SCIENCE

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PRIORITY DATE

REQUEST FOR EXAMINATION DATE --

PUBLICATION DATE (U/S 11A) 29/06/2018

### Application Details

|                                  |   |
|----------------------------------|---|
| APPLICATION NUMBER               | 201841013749  |
| APPLICATION TYPE                 | ORDINARY APPLICATION  |
| DATE OF FILING                   | 10/04/2018  |
| APPLICANT NAME                   | Gadwala Durga Sukumar   |
| TITLE OF INVENTION               | INTELLIGENT EMBEDDED PRIORITY BASED<br>ENERGY MANAGEMENT SYSTEM AND<br>METHOD |
| FIELD OF INVENTION               | ELECTRICAL  |
| E-MAIL (As Per Record)           | afzal@hasanandsingh.com   |
| ADDITIONAL-EMAIL (As Per Record) | hasan@hasanandsingh.com   |
| E-MAIL (UPDATED Online)          |   |
| PRIORITY DATE                    |   |
| REQUEST FOR EXAMINATION DATE     | --  |
| PUBLICATION DATE (U/S 11A)       | 13/04/2018  |

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Ministry of Commerce and Industry

### Application Details

|                                  |   |
|----------------------------------|---|
| APPLICATION NUMBER               | 201641015810  |
| APPLICATION TYPE                 | ORDINARY APPLICATION  |
| DATE OF FILING                   | 06/05/2016  |
| APPLICANT NAME                   | 1 . ARADHYULA THIRUMALA VASU<br>2 . BALAGA NAGESWARA RAO<br>3 . DOMAKONDA VINAY KUMAR<br>4 . CHAVALI MURTHY |
| TITLE OF INVENTION               | A METHOD OF OPERATION AND A<br>MAGNETIC FLUX BASED MECHANICAL<br>POWER GENERATOR                            |
| FIELD OF INVENTION               | ELECTRICAL  |
| E-MAIL (As Per Record)           |   |
| ADDITIONAL-EMAIL (As Per Record) | nagumech@gmail.com  |
| E-MAIL (UPDATED Online)          |   |
| PRIORITY DATE                    |   |
| REQUEST FOR EXAMINATION DATE     | 06/05/2016  |
| PUBLICATION DATE (U/S 11A)       | 10/06/2016  |

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### Application Details

|                                  |  |
|----------------------------------|--|
| APPLICATION NUMBER               | 201641000401   |
| APPLICATION TYPE                 | ORDINARY APPLICATION   |
| DATE OF FILING                   | 06/01/2016   |
| APPLICANT NAME                   | 1 . ARADHYULA THIRUMALA VASU<br>2 . CHAUHAN RAMNARYAN<br>3 . MALKAPURAM RAMAKRISHNA<br>4 . MURTHY CHAVALI<br>5 . BALAGA NAGESWARARAO |
| TITLE OF INVENTION               | CONTEMPORARY DUSTER  |
| FIELD OF INVENTION               | ELECTRONICS  |
| E-MAIL (As Per Record)           |  |
| ADDITIONAL-EMAIL (As Per Record) | chavalim@gmail.com   |
| E-MAIL (UPDATED Online)          |  |
| PRIORITY DATE                    |  |
| REQUEST FOR EXAMINATION DATE     | 06/01/2016   |
| PUBLICATION DATE (U/S 11A)       | 25/03/2016   |

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Ministry of Commerce and Industry

### Application Details

|                                  |  |
|----------------------------------|--|
| APPLICATION NUMBER               | 201641012928   |
| APPLICATION TYPE                 | ORDINARY APPLICATION                                       |
| DATE OF FILING                   | 13/04/2016   |
| APPLICANT NAME                   | 1 . USHA RANI NELAKUDITI<br>2 . JOHN WILLIAM CAREY MEDITHE |
| TITLE OF INVENTION               | AUTOMATIC EYE BLINK DETECTOR USING<br>NI MYRIO             |
| FIELD OF INVENTION               | BIO-MEDICAL ENGINEERING                                    |
| E-MAIL (As Per Record)           |  |
| ADDITIONAL-EMAIL (As Per Record) | usharani.nsai@gmail.com                                    |
| E-MAIL (UPDATED Online)          |  |
| PRIORITY DATE                    |  |
| REQUEST FOR EXAMINATION DATE     | 13/04/2016   |
| PUBLICATION DATE (U/S 11A)       | 29/04/2016   |
| FIRST EXAMINATION REPORT DATE    | 20/10/2020   |

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Ministry of Commerce and Industry

### Application Details

|                                  |  |
|----------------------------------|--|
| APPLICATION NUMBER               | 5641/CHE/2015  |
| APPLICATION TYPE                 | ORDINARY APPLICATION   |
| DATE OF FILING                   | 20/10/2015   |
| APPLICANT NAME                   | 1 . DR.N.S.SAMPATH KUMAR<br>2 . MS.SHAIK SHAHEENA<br>3 . DR.D.VIJAYA RAMU<br>4 . DR.S.KRUPANIDHI |
| TITLE OF INVENTION               | A ORAL COMPOSITION DENTIFRICE VOID<br>OF CHEMICALS   |
| FIELD OF INVENTION               | TRADITIONAL KNOWLEDGE<br>BIOTECHNOLOGY   |
| E-MAIL (As Per Record)           |  |
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| E-MAIL (UPDATED Online)          |  |
| PRIORITY DATE                    |  |
| REQUEST FOR EXAMINATION DATE     | 20/10/2015   |
| PUBLICATION DATE (U/S 11A)       | 06/11/2015   |

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 Ministry of Commerce and Industry

### Application Details

|                                  |   |
|----------------------------------|---|
| APPLICATION NUMBER               | 5642/CHE/2015   |
| APPLICATION TYPE                 | ORDINARY APPLICATION  |
| DATE OF FILING                   | 20/10/2015  |
| APPLICANT NAME                   | 1 . PROF.SRIRAMA KRUPANIDHI<br>2 . MS.JAMPALA HARSHITHA<br>3 . DR.SUNIL KUMAR<br>4 . PROF.JONATHAN WONG |
| TITLE OF INVENTION               | AN APPARATUS AND A METHOD FOR THE BIOTRANSFORMATION OF THE DOMESTIC VEGETABLE SCRAP INTO MANURE COMPOST |
| FIELD OF INVENTION               | CHEMICAL  |
| E-MAIL (As Per Record)           |   |
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| PRIORITY DATE                    |   |
| REQUEST FOR EXAMINATION DATE     | 20/10/2015  |
| PUBLICATION DATE (U/S 11A)       | 06/11/2015  |

### Application Status

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