

पेटेंट कार्यालय, भारत सरकार | The Patent Office, Government Of India
डिजाइन के पंजीकरण का प्रमाण पत्र | Certificate of Registration of Design

डिजाइन सं. / Design No. : 390436-001
तारीख / Date : 17/07/2023
पारस्परिकता तारीख / Reciprocity Date* :
देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो *AIR QUALITY INDEX MONITOR* से संबंधित है, का पंजीकरण, श्रेणी 10-04 में 1.Dr. Amrin Surya 2. Prof (Dr.) Prashant Johri 3.Dr. Nayana Sudhakar Shirbhate 4.Dr. Prashant Satyawar Pagade 5.Akash Jaydeorao Bele 6.Dr. Najukram Dinanath. Bankar के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 10-04 in respect of the application of such design to *AIR QUALITY INDEX MONITOR* in the name of 1.Dr. Amrin Surya 2. Prof (Dr.) Prashant Johri 3.Dr. Nayana Sudhakar Shirbhate 4.Dr. Prashant Satyawar Pagade 5.Akash Jaydeorao Bele 6.Dr. Najukram Dinanath. Bankar.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्याधीन प्रावधानों के अनुसरण में।

In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

जारी करने की तिथि : 25/01/2024
Date of Issue :




महानियंत्रक पेटेंट, डिजाइन और व्यापार चिह्न
Controller General of Patents, Designs and Trade Marks

*पारस्परिकता तारीख (यदि कोई हो) जिसकी अनुमति दी गई है तथा देश का नाम। डिजाइन का स्वतंत्रिकर पंजीकरण की तारीख से दस वर्षों के लिए होगा जिसका निरंतर, अधिनियम एवं नियम के निबंधनों के अधीन, पाँच वर्षों की अतिरिक्त अवधि के लिए किया जा सकेगा। इस प्रमाण पत्र का उपयोग विधिक कार्यवाहियों अथवा विदेश में पंजीकरण प्राप्त करने के लिए नहीं हो सकता है।

The reciprocity date (if any) which has been allowed and the name of the country. Copyright in the design will subsist for ten years from the date of Registration, and may under the terms of the Act and Rules, be extended for a further period of five years. This Certificate is not for use in legal proceedings or for obtaining registration abroad.

पेटेंट कार्यालय
शासकीय जर्नल

**OFFICIAL JOURNAL
OF
THE PATENT OFFICE**

निर्गमन सं. 26/2023
ISSUE NO. 26/2023

शुक्रवार
FRIDAY

दिनांक: 30/06/2023
DATE: 30/06/2023

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

INTRODUCTION

In view of the recent amendment made in the Patents Act, 1970 by the Patents (Amendment) Act, 2005 effective from 01st January 2005, the Official Journal of The Patent Office is required to be published under the Statute. This Journal is being published on weekly basis on every Friday covering the various proceedings on Patents as required according to the provision of Section 145 of the Patents Act 1970. All the enquiries on this Official Journal and other information as required by the public should be addressed to the Controller General of Patents, Designs & Trade Marks. Suggestions and comments are requested from all quarters so that the content can be enriched.

**(PROF. (DR) UNNAT P. PANDIT)
CONTROLLER GENERAL OF PATENTS, DESIGNS & TRADE MARKS**

30th JUNE, 2023

(54) Title of the invention : METHOD OF STUDYING AN ACCELERATION OF A UNIVERSE IN THE PRESENCE OF INHOMOGENEOUS MATTER

(51) International classification :G01P 150000, G01P 150800, G06N 100000, G06Q 502000, H01S 053430

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Dr. Shilpa W. Samdurkar
 Address of Applicant :Vidya Vikas Arts, Commerce and Science College Samudrapur, Dist. Wardha Wardha -----
2)Dr. Seema Nilesh Bawnerkar
3)Dr. Trupti Arvind Thakre
4)Yogesh Vasant Rao Rathod
5)Rajat Ramesh Tambatkar
6)Roshni Umrao Pathekar
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr. Shilpa W. Samdurkar
 Address of Applicant :Vidya Vikas Arts, Commerce and Science College Samudrapur, Dist. Wardha Wardha -----
2)Dr. Seema Nilesh Bawnerkar
 Address of Applicant :Shah & Anchor Kutchhi Engineering College, Chembur, Mumbai Mumbai -----
3)Dr. Trupti Arvind Thakre
 Address of Applicant :Flat no. 604, Mangalmurti Residency, Aakar Nagar, Swami Colony Nagpur Nagpur -----
4)Yogesh Vasant Rao Rathod
 Address of Applicant :Flat No 201, Kalpana Apartment, Pl. No 96, Thakre Layout, Dabha, Nagpur Nagpur -----
5)Rajat Ramesh Tambatkar
 Address of Applicant :Plot no. 10 Unnati park colony, Pipla road, Besa, Nagpur Nagpur -----
6)Roshni Umrao Pathekar
 Address of Applicant :C/O Deepak Deshmukh, near Ghonge Maharaj Math,Gharpure layout,Sindhi Meghe, Wardha Wardha -----

(57) Abstract :

A method of studying an acceleration of a universe in the presence of inhomogeneous matter, characterised in that the method includes considering a Bianchi Type-III space-time model with an inhomogeneous equation of state (EoS) and a bulk viscous fluid in scalar field. The method further includes finding an exact solution of Einstein's field equations by a power law in a form of $A_2 = \alpha t^m, A_3 = \beta t^s$, where m & s are constants and $m, s > 1$ and plotting graphs to study physical & kinematical aspects of the model in the presence of variable & constant cosmological term ?. FIG. 1

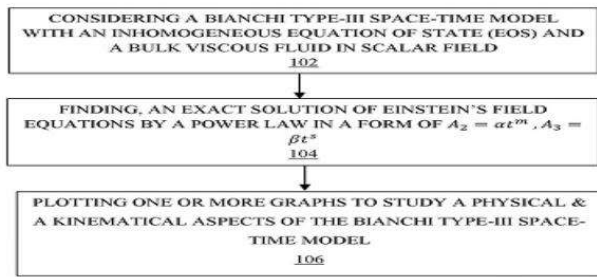


FIG. 1

No. of Pages : 16 No. of Claims : 5

पेटेंट कार्यालय
शासकीय जर्नल

**OFFICIAL JOURNAL
OF
THE PATENT OFFICE**

निर्गमन सं. 35/2023
ISSUE NO. 35/2023

शुक्रवार
FRIDAY

दिनांक: 01/09/2023
DATE: 01/09/2023

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

INTRODUCTION

In view of the recent amendment made in the Patents Act, 1970 by the Patents (Amendment) Act, 2005 effective from 01st January 2005, the Official Journal of The Patent Office is required to be published under the Statute. This Journal is being published on weekly basis on every Friday covering the various proceedings on Patents as required according to the provision of Section 145 of the Patents Act 1970. All the enquiries on this Official Journal and other information as required by the public should be addressed to the Controller General of Patents, Designs & Trade Marks. Suggestions and comments are requested from all quarters so that the content can be enriched.

**(PROF. (DR) UNNAT P. PANDIT)
CONTROLLER GENERAL OF PATENTS, DESIGNS & TRADE MARKS**

1ST SEPTEMBER, 2023

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341052386 A

(19) INDIA

(22) Date of filing of Application :31/07/2023

(43) Publication Date : 01/09/2023

(54) Title of the invention : IMPLEMENTATION OF DEEP LEARNING MODELS FOR AUTOMATIC INSECT DETECTION AND IMPROVE CROP YIELD

<p>(51) International classification :G06N0003080000, H04N0021470000, G06Q0010060000, H04N0007180000, G06T0007174000</p> <p>(86) International Application No :PCT/ Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Kandan. M Address of Applicant :Department of Computing Technologies, School of Computing, Faculty of Engineering and Technology, SRM Institute of Science and Technology, Kattankulathur, 603203, Tamil Nadu, India. -----</p> <p>2)Dr.Ganga Rama Koteswara Rao 3)Dr.Manohar Sudhakar Ambatkar 4)Dr Parameswaran T 5)Dr. Minakshi Neware 6)Sirisala Chandrusha 7)Dr Sumanta Bhattacharya 8)S.Praveena 9)Dr R Raja Kumar 10)Dr. Vipin Y. Borole 11)Dr. Narendra Vinayakrao Harney 12)Ravi Rastogi Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Kandan. M Address of Applicant :Department of Computing Technologies, School of Computing, Faculty of Engineering and Technology, SRM Institute of Science and Technology, Kattankulathur, 603203, Tamil Nadu, India. -----</p> <p>2)Dr.Ganga Rama Koteswara Rao Address of Applicant :Professor, Department of CSIT, Koneru Lakshmaiah Education Foundation, Vaddeswaram,522502, Guntur, Andhra Pradesh, India. -----</p> <p>3)Dr.Manohar Sudhakar Ambatkar Address of Applicant :Professor, Zoology Department, Vidya Vikas Arts, Commerce and Sciences College, Samudrapur-442305, Wardha, Maharashtra, India. -----</p> <p>4)Dr Parameswaran T Address of Applicant :Associate Professor, Department of Computer Science and Engineering, School of Engineering and Technology, CMR University Bangalore, Karnataka – 562149, India. -----</p> <p>5)Dr. Minakshi Neware Address of Applicant :Assistant Professor, Institute of Agriculture Sciences, Sage University Indore -452020, Madhya Pradesh, India. -----</p> <p>6)Sirisala Chandrusha Address of Applicant :Assistant Professor, Civil Engineering Department, JNTUA College of Engineering, Ananthapuramu, 515001, Anantapur, Andhra Pradesh, India. -----</p> <p>7)Dr Sumanta Bhattacharya Address of Applicant :Research Scholar, Textile Technology, Makaut, Kolkata, 700064, West Bengal, India. -----</p> <p>8)S.Praveena Address of Applicant :Dept of ECE, Mahatma Gandhi Institute of Technology, Hyderabad, Ranga Reddy, Telangana, India. -----</p> <p>9)Dr R Raja Kumar Address of Applicant :Associate Professor, Department of CSE, RGM CET (Autonomous), Nandyal, 518502, Andhra Pradesh, India. -----</p> <p>10)Dr. Vipin Y. Borole Address of Applicant :Assistant Professor, Computer Science and Application, School of Computer Sciences and Engineering, Sandip University, Nashik, 422213, Maharashtra, India. -----</p> <p>11)Dr. Narendra Vinayakrao Harney Address of Applicant :Associate Professor and Head, Department of Zoology Nilkanthrao Shinde Science and Arts College Bhadrawati Dist Chandrapur Maharashtra Pin Code 442902, India -----</p> <p>12)Ravi Rastogi Address of Applicant :Scientist D, Electronics Division, NIELIT Gorakhpur -273010, Uttar Pradesh, India. -----</p>
---	---

(57) Abstract :
IMPLEMENTATION OF DEEP LEARNING MODELS FOR AUTOMATIC INSECT DETECTION AND IMPROVE CROP YIELD A method for obtaining video data from a single monocular camera, where the video data consists of a number of frames, while the camera is mounted to a mobile robot moving down a lane defined by a row of crops, is one example of how the subject disclosure may be implemented. The pest susceptibility index is a measurement of a crop's vulnerability to one or more agricultural pests in a crop field. In certain implementations, the approach additionally includes steps to create a treatment plan and calculate the expected return on investment (ROI). In relation to a single crop row or single crop plant of utilized width, the system may be set to recognize predetermined quantifiable elements. The system can be set up to detect predetermined quantifiable elements between five and ten feet in front and behind the harvesting device. This method for determining insect density includes the following steps: measuring the electromagnetic radiation parameter A's value, specifically the luminance of an analysis area that was exposed to insects, and the electromagnetic radiation parameter B's value, specifically the luminance of a control area that was not exposed to insects. FIG.1

No. of Pages : 15 No. of Claims : 1

पेटेंट कार्यालय
शासकीय जर्नल

**OFFICIAL JOURNAL
OF
THE PATENT OFFICE**

निर्गमन सं. 40/2023
ISSUE NO. 40/2023

शुक्रवार
FRIDAY

दिनांक: 06/10/2023
DATE: 06/10/2023

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

INTRODUCTION

In view of the recent amendment made in the Patents Act, 1970 by the Patents (Amendment) Act, 2005 effective from 01st January 2005, the Official Journal of The Patent Office is required to be published under the Statute. This Journal is being published on weekly basis on every Friday covering the various proceedings on Patents as required according to the provision of Section 145 of the Patents Act 1970. All the enquiries on this Official Journal and other information as required by the public should be addressed to the Controller General of Patents, Designs & Trade Marks. Suggestions and comments are requested from all quarters so that the content can be enriched.

**(PROF. (DR) UNNAT P. PANDIT)
CONTROLLER GENERAL OF PATENTS, DESIGNS & TRADE MARKS**

6th OCTOBER, 2023

(54) Title of the invention : METHOD OF FINDING A SOLUTION TO EINSTEIN FIELD EQUATIONS BY CONSIDERING A MODIFIED TAKABAYASI STRING

(51) International classification :H04L0001060000, E21B0049000000, F16D0035020000, G06F0030000000, G06F0030230000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Dr. Shilpa W. Samdurkar
 Address of Applicant :Assistant Professor Vidya Vikas Arts, Commerce and Science College, Samudrapur Wardha -----

2)Dr. Archana M. Bhende
3)Dr. Amrapali P. Wasnik
4)Dr. Nitesh D. Shambharkar
5)Dr. Trupti A. Thakre
6)Dr. Rajendra A. Pahade
7)Ms. Roshni U. Pathekar
8)Mr. Rajat R. Tambatkar
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr. Shilpa W. Samdurkar
 Address of Applicant :Assistant Professor Vidya Vikas Arts, Commerce and Science College, Samudrapur Wardha -----

2)Dr. Archana M. Bhende
 Address of Applicant :Assistant Professor Vidya Vikas Arts , Commerce and Science College, Samudrapur Wardha -----

3)Dr. Amrapali P. Wasnik
 Address of Applicant :Associate Professor Bhartiya Mahavidyalaya Amravati -----

4)Dr. Nitesh D. Shambharkar
 Address of Applicant :Assistant Professor Vidya Vikas Arts , Commerce and Science College, Samudrapur Wardha -----

5)Dr. Trupti A. Thakre
 Address of Applicant :Assistant Professor Jeevan Vikas Mahavidyalaya, Devgram, Ta- Narkhed Nagpur -----

6)Dr. Rajendra A. Pahade
 Address of Applicant :Yeshwantrao Chavan College of Engineering, Hingana road Nagpur -----

7)Ms. Roshni U. Pathekar
 Address of Applicant :Assistant Professor Vidya Vikas Arts , Commerce and Science College, Samudrapur Wardha -----

8)Mr. Rajat R. Tambatkar
 Address of Applicant :Assistant Professor Shri. Mathuradas Mohota College of Science, Sakkardhara Nagpur - -----

(57) Abstract :

A method of finding a solution to Einstein field equations by considering a modified Takabayasi string in the framework of Bianchi type I space-time model. Characterised in that the method includes considering a Bianchi Type-I space-time model, a bulk viscous fluid and corresponding Einstein field equations. The method further includes finding, an exact solution of Einstein's field equations by considering the expansion scalar in the Bianchi type I space-time model proportional to shear scalar and determining physical and kinematical parameters of the Bianchi type I space-time models to obtain the solution. FIG. 1

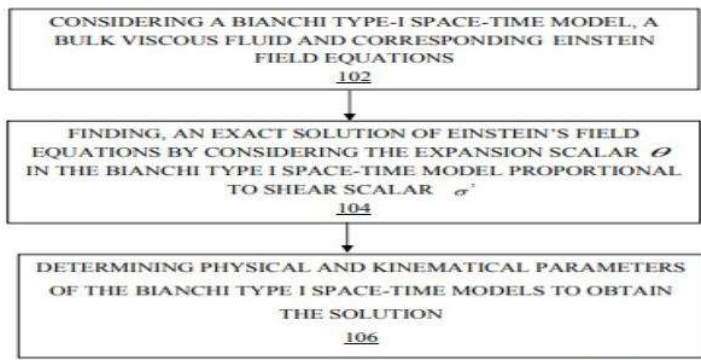


FIG. 1

No. of Pages : 16 No. of Claims : 5

पेटेंट कार्यालय
शासकीय जर्नल

**OFFICIAL JOURNAL
OF
THE PATENT OFFICE**

निर्गमन सं. 43/2023
ISSUE NO. 43/2023

शुक्रवार
FRIDAY

दिनांक: 27/10/2023
DATE: 27/10/2023

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

INTRODUCTION

In view of the recent amendment made in the Patents Act, 1970 by the Patents (Amendment) Act, 2005 effective from 01st January 2005, the Official Journal of The Patent Office is required to be published under the Statute. This Journal is being published on weekly basis on every Friday covering the various proceedings on Patents as required according to the provision of Section 145 of the Patents Act 1970. All the enquiries on this Official Journal and other information as required by the public should be addressed to the Controller General of Patents, Designs & Trade Marks. Suggestions and comments are requested from all quarters so that the content can be enriched.

**(PROF. (DR) UNNAT P. PANDIT)
CONTROLLER GENERAL OF PATENTS, DESIGNS & TRADE MARKS**

27TH OCTOBER, 2023

(54) Title of the invention : WATER PURIFICATION SYSTEM USING ORGANIC FOOD

(51) International classification :C02F0001280000, C02F0009000000, C02F0001000000, C02F0001520000, C02F0101200000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Dr.Archana .M.Bhende
 Address of Applicant :Vidya Vikas Arts , Commerce and Science College Samudrapur Dist.Wardha, Maharashtra -----
2)Dr.Manohar .S.Ambatkar
3)Dr.Vijay . G.Manwatkar
4)Dr.Swati D.Yeotkar
5)Ms. Shital Wamanrao Awaghade
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr.Archana .M.Bhende
 Address of Applicant :Vidya Vikas Arts , Commerce and Science College Samudrapur Dist.Wardha, Maharashtra -----
2)Dr.Manohar .S.Ambatkar
 Address of Applicant :Vidya Vikas Arts , Commerce and Science College Samudrapur Dist.Wardha, Maharashtra -----
3)Dr.Vijay . G.Manwatkar
 Address of Applicant :Vidya Vikas Arts , Commerce and Science College Samudrapur Dist.Wardha, Maharashtra -----
4)Dr.Swati D.Yeotkar
 Address of Applicant :Vidya Vikas Arts , Commerce and Science College Samudrapur Dist.Wardha, Maharashtra -----
5)Ms. Shital Wamanrao Awaghade
 Address of Applicant :Vidya Vikas Arts , Commerce and Science College Samudrapur Dist.Wardha, Maharashtra -----

(57) Abstract :

Abstract: The water purification system using organic food/seeds presented in this invention offers an eco-friendly and cost-effective solution for the purification of water from diverse sources. Leveraging the natural adsorption properties of carefully selected organic food/seeds, such as activated charcoal, moringa seeds, and coconut shells, this innovative system efficiently removes contaminants, including heavy metals, organic pollutants, and microorganisms, without the need for harmful chemicals or energy-intensive processes. The invention encompasses a comprehensive approach that includes the meticulous preparation of organic food/seeds to optimize their adsorption capabilities, their strategic placement within a filtration chamber or cartridge, and the provision of modular and multi-stage filtration options for enhanced purification efficiency. The resulting purified water meets stringent quality standards, making it suitable for consumption and various industrial applications. With a focus on sustainability, affordability, and minimal environmental impact, this water purification system has the potential to revolutionize access to clean and safe drinking water, particularly in underserved communities and regions facing water quality challenges.

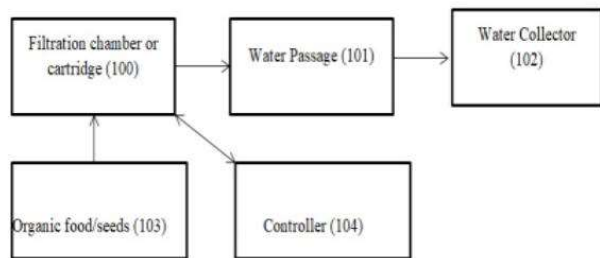


Figure 1 implies water purification system using organic food.

No. of Pages : 17 No. of Claims : 7



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

सत्यमेव जयते

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



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

Application Details

APPLICATION NUMBER	202321064013
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	23/09/2023
APPLICANT NAME	1 . Meghshyam Narule 2 . Kishor Rewtkar 3 . Rajmohammed Kherani 4 . Mohan Borikar 5 . Mohan Giriya
TITLE OF INVENTION	SOLVENT-FREE SYNTHESIS, CHARACTERIZATION AND ANTIOXIDANT ACTIVITY OF NEW ETHYL-4[4-(-ANILINOTHIO) AMINO) PHENYL]-6-METHYL-2-OXO-1, 2, 3, 4 - TETRAHYDROHYDOPYRIMIDINE-5-CARBOXYLATE DERIVATIVES
FIELD OF INVENTION	CHEMICAL
E-MAIL (As Per Record)	senanipindia@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	20/10/2023

Application Status

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

[View Documents](#)

➡ Filed ➡ Published ➡ RQ Filed ➡ Under Examination ➡ Disposed

In case of any discrepancy in status, kindly contact ipo-helpdesk@nic.in