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PHARMACY

PATENT PUBLISHED

2022-2024

Patent Search

Invention Title	FABRICATION AND EVALUATION OF ANTIOXIDANT AND HEPATOPROTECTIVE ACTIVITY OF LITSEA POLYANTHA EXTRACT IN HEPG2 CELLS
Publication Number	48/2024
Publication Date	29/11/2024
Publication Type	INA
Application Number	202441092265
Application Filing Date	26/11/2024
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	CHEMICAL
Classification (IPC)	A61P0001160000, A61P0039060000, A61K0009160000, A23L0033105000, A61K0033040000

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Abstract:

The present invention relates to the preparation, characterization, and evaluation of a cold-macerated hydroalcoholic extract of Litsea polyantha for its antioxidant and hepatoprotective properties. The extraction method utilizes a hydroalcoholic solvent (70% ethanol and 30% water) under controlled conditions to preserve bioactive comp such as polyphenols, flavonoids, tannins, alkaloids, and saponins. The extract demonstrates potent antioxidant activity with an IC50 value of 47.8 µg/mL in DPPH radical scavenging assays and exhibits significant hepatoprotective effects in HepG2 cells exposed to oxidative stress. Formulated into pharmaceutical compositions, including ca tablets, or syrups, the extract provides a natural and effective alternative to synthetic drugs for managing liver disorders. Standardized through HPLC for bioactive consiste this invention integrates traditional herbal knowledge with modern pharmacological validation, offering a safe, bioavailable, and cost-effective therapeutic option for liver and oxidative stress management.

Complete Specification

Description:FIELD OF INVENTION

The present invention relates to to pharmaceutical and nutraceutical sciences, focusing on developing and evaluating a cold-macerated hydroalcoholic extract of Litsea polyantha for its antioxidant and hepatoprotective potentialSs

BACKGROUND OF THE INVENTION

Liver disorders represent a significant global health concern, exacerbated by increasing exposure to environmental toxins, poor dietary habits, and chronic alcohol consumption. Despite advancements in medical research, the treatment of hepatic ailments often relies on chemical-based pharmaceuticals that can produce adverse si effects and fail to address the underlying causes effectively. Traditional herbal remedies, known for their minimal side effects and multi-targeted therapeutic potential, remain underutilized due to a lack of systematic scientific validation. This invention seeks to bridge this gap by exploring the hepatoprotective properties of Litsea polyantha, a plant with historical medicinal relevance but limited pharmacological characterization.

Oxidative stress plays a pivotal role in the progression of liver diseases, including fatty liver, hepatitis, and cirrhosis. Reactive oxygen species (ROS) induce damage to cell components, leading to inflammation, apoptosis, and loss of liver function. Current antioxidants often fail to deliver organ-specific protection or display poor bioavailabil Natural compounds with intrinsic antioxidant properties, such as polyphenols and flavonoids, have shown promising potential. However, their effectiveness depends significantly on the extraction methodology. This invention focuses on cold maceration using a hydroalcoholic solvent to preserve the bioactive compounds in Litsea polyantha, ensuring enhanced therapeutic efficacy in combating oxidative liver damage.

HepG2 cells, widely used for in vitro studies, offer an ideal platform to evaluate the hepatoprotective potential of new formulations. Most investigations on herbal blends

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Patent Search

Invention Title	METHOD DEVELOPMENT AND VALIDATION FOR SIMULTANEOUS ANALYSIS OF ATENOLOL-AMLODIPINE BY RP-HPLC
Publication Number	04/2025
Publication Date	24/01/2025
Publication Type	INA
Application Number	202541002375
Application Filing Date	10/01/2025
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Priority Country	
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Field Of Invention	PHYSICS
Classification (IPC)	G01N0030020000, G01N0030060000, G01N0030880000, G01N0030740000, G01N0030720000

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Abstract:

The present invention relates to a robust reverse-phase high-performance liquid chromatography (RP-HPLC) method for the simultaneous analysis of atenolol and amlodi pharmaceutical formulations. The method employs a C18 column (250 mm × 4.6 mm, 5 µm), a mobile phase of methanol and phosphate buffer (60:40 v/v, pH 3.0), a flow r 1.0 mL/min, and UV detection at 235 nm. Atenolol and amlodipine are eluted at retention times of 2.8 and 4.6 minutes, respectively. The method is validated according to guidelines for linearity, accuracy, precision, sensitivity, robustness, and specificity. It demonstrates a linear range of 5–50 µg/mL, LOD of 0.2 µg/mL (atenolol) and 0.1 µg/mL (amlodipine), and high recovery rates (98–102%). The method is suitable for routine quality control and stability studies, offering rapid, accurate, and cost-effective analysis atenolol and amlodipine in combination drug products.

Complete Specification

Description:FIELD OF INVENTION

The present invention relates to to pharmaceutical analysis, specifically to the development and validation of a robust and reliable reverse-phase high-performance liqui chromatography (RP-HPLC) method for the simultaneous quantitative analysis of atenolol and amlodipine in pharmaceutical formulations.

BACKGROUND OF THE INVENTION

The accurate and simultaneous quantification of atenolol, a beta-blocker, and amlodipine, a calcium channel blocker, is critical for ensuring the efficacy and safety of combination therapies used in the management of hypertension and related cardiovascular disorders. These drugs, when formulated together, often require precise analytical methods to monitor their stability, dosage accuracy, and compliance with pharmacopoeial standards. However, the complex matrices of pharmaceutical formulations and potential interference from excipients pose significant challenges to achieving reliable quantification. Traditional methods often fall short in sensitivity, specificity, or speed, making routine quality control cumbersome and less efficient.

Existing analytical techniques such as UV-spectrophotometry or single-component HPLC methods are limited in their ability to simultaneously resolve and quantify atenc and amlodipine in a single run. The lack of a validated, cost-effective, and efficient method often necessitates the use of separate analyses, leading to increased time, cos and complexity in quality control processes. Furthermore, variations in retention times, poor resolution, or co-elution of peaks compromise the accuracy and reproducib of the results, necessitating a more advanced approach.

To address these issues, there is a pressing need for a robust and validated reverse-phase high-performance liquid chromatography (RP-HPLC) method capable of simultaneous analysis of atenolol and amlodipine. This method must overcome matrix interference, achieve sharp peak resolution, and ensure high sensitivity and

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ISSUE NO. 04/2025	FRIDAY	DATE: 24/01/2025

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(54) Title of the invention : MICROPOROUS-BASED DELIVERY SYSTEM FOR CONTROLLED RELEASE OF IRBESARTAN AND METHOD THEREOF

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(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
The present invention relates to the development and characterization of irbesartan-loaded microsponge formulations (IRB-MSGs) for enhanced drug delivery. Fourier Transform Infrared Spectroscopy (FTIR) confirmed the presence of functional moieties and potential hydrogen bonding between the drug, polymer, and cross-linker. Particle size analysis by motic microscopy revealed a mean particle size of 7.4 μm with spherical morphology and internal cavities. Field Emission Scanning Electron Microscopy (FESEM) corroborated these findings, showing smooth, porous surfaces with wide cavities. Differential Scanning Calorimetry (DSC) thermograms displayed the absence of crystalline drug peaks, indicating the amorphous state of IRB within the polymer matrix. Powder X-ray Diffraction (PXRD) analysis further confirmed the amorphous nature of the formulations, showing broad diffraction patterns without characteristic IRB peaks. Optimized formulations were developed using ethyl cellulose, dichloromethane, polyvinyl alcohol, and whey protein isolate. The method demonstrates the potential for scale-up and offers a promising approach for controlled drug delivery systems

No. of Pages : 16 No. of Claims : 9

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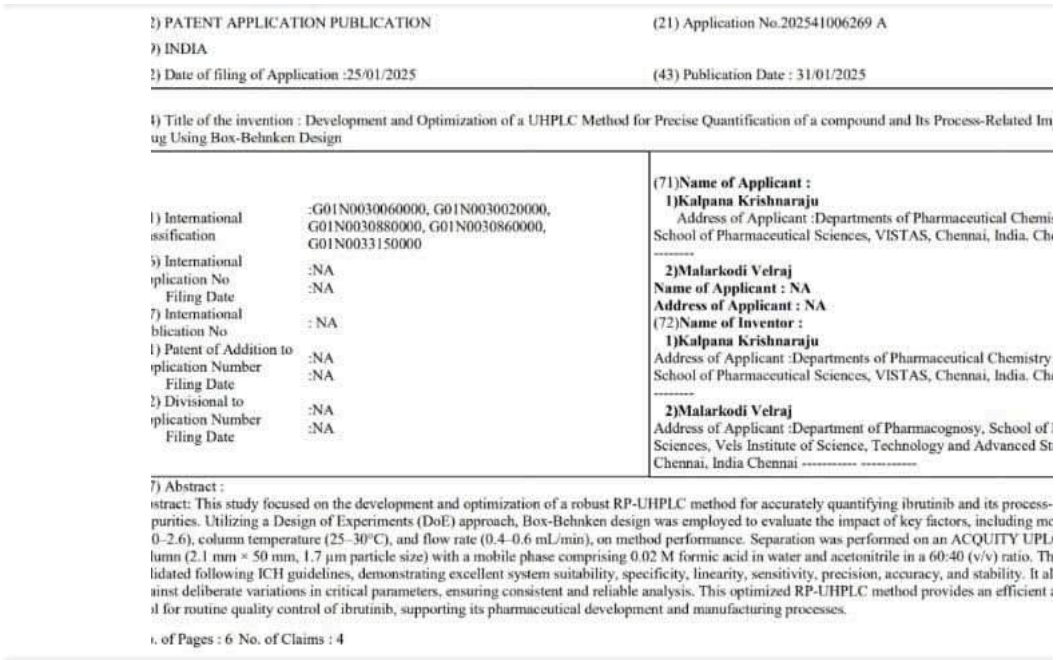
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2) PATENT APPLICATION PUBLICATION
(21) Application No.202541006269 A
9) INDIA
2) Date of filing of Application :25/01/2025
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4) Title of the invention : Development and Optimization of a UHPLC Method for Precise Quantification of a compound and Its Process-Related Im
ug Using Box-Behnken Design

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7) Abstract :
stract: This study focused on the development and optimization of a robust RP-UHPLC method for accurately quantifying ibrutinib and its process-
purities. Utilizing a Design of Experiments (DoE) approach, Box-Behnken design was employed to evaluate the impact of key factors, including mo
0–2.6), column temperature (25–30°C), and flow rate (0.4–0.6 mL/min), on method performance. Separation was performed on an ACQUITY UPL
lumn (2.1 mm × 50 mm, 1.7 µm particle size) with a mobile phase comprising 0.02 M formic acid in water and acetonitrile in a 60:40 (v/v) ratio. Th
lidated following ICH guidelines, demonstrating excellent system suitability, specificity, linearity, sensitivity, precision, accuracy, and stability. It al
ainst deliberate variations in critical parameters, ensuring consistent and reliable analysis. This optimized RP-UHPLC method provides an efficient
l for routine quality control of ibrutinib, supporting its pharmaceutical development and manufacturing processes.

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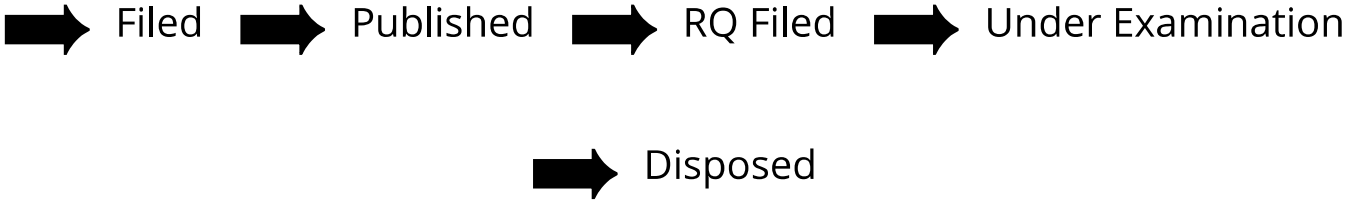
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APPLICATION NUMBER	202541006764
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	28/01/2025
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TITLE OF INVENTION	FORMULATION AND CHARACTERIZATION OF INJECTABLE HYDROGELS FOR THE CONTROLLED RELEASE OF ANTIBIOTICS IN WOUND HEALING
FIELD OF INVENTION	CHEMICAL
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Application Status	
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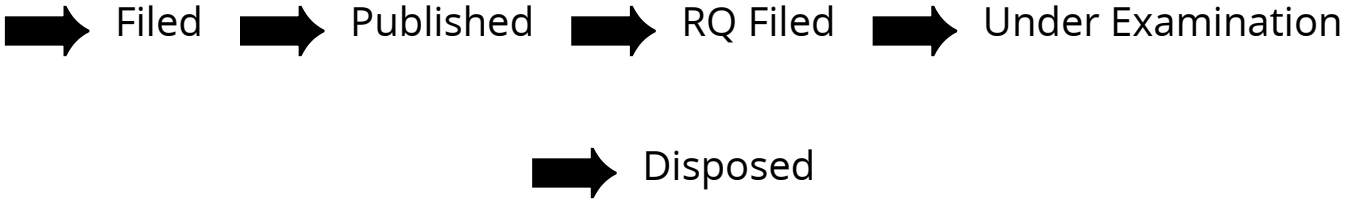
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Application Details	
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APPLICATION TYPE	ORDINARY APPLICATION
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APPLICANT NAME	VELS Institute of Science Technology and Advanced Studies
TITLE OF INVENTION	NANO-ENCAPSULATED DRUG DELIVERY SYSTEM FOR TARGETED CANCER THERAPY
FIELD OF INVENTION	CHEMICAL
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Application Status	
APPLICATION STATUS	Awaiting Request for Examination

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(43) Publication Date : 05/01/2024

(54) Title of the invention : AQUEOUS EXTRACT OF TINOSPORA SINENSIS SHOWING ANTI-ARTHRITIS ACTIVITY AGAINST FORMALDEHYDE INDUCED ARTHRITIS IN RATS

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(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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Address of Applicant :Professor, Department of Pharmaceutical Chemistry and Analysis, School of Pharmaceutical Sciences, Vels Institute of Science, Technology & Advanced Studies (VISTAS), Pallavaram, Chennai, Tamil Nadu-600117, India Chennai ---------- ----------

(57) Abstract :
The present invention provides an aqueous extract of Tinospora sinensis for anti-arthritis activity against formaldehyde induced arthritis in rats. The process for the preparation of aqueous extract of Tinospora sinensis, comprising of drying in shade leaves of Tinospora sinensis and coarsely powdering it by using grinder mixer; macerating the powdered material in sufficient quantity of distilled water with small quantity of chloroform and keeping it for 3 days; macerating and shaking twice daily; filtering on third day drying at 60°C on water bath; preserving the collected extract in desiccator. The aqueous extract of Tinospora sinensis for anti-arthritis activity against formaldehyde induced arthritis in rats, wherein the rats are injected with 0.1 ml 2% (v/v) of formaldehyde solution in the planter surface of the left foot, on the first and third day of the test; wherein the drug treatment is started from the initial day i.e., from the day of formaldehyde injection (0 day) and continued till 10th day. The aqueous extract of Tinospora sinensis for anti-arthritis activity against formaldehyde induced arthritis in rats, wherein the effect of aqueous extract of Tinospora sinensis 200mg/kg on formaldehyde induced arthritis in rats paw volume 1.34 ± 0.11 and aqueous extract of Tinospora sinensis 400mg/kg 1.24 ± 0.14. The aqueous extract of Tinospora sinensis possesses an anti-arthritic activity against formaldehyde induced arthritis rats.

No. of Pages : 20 No. of Claims : 8

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Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India

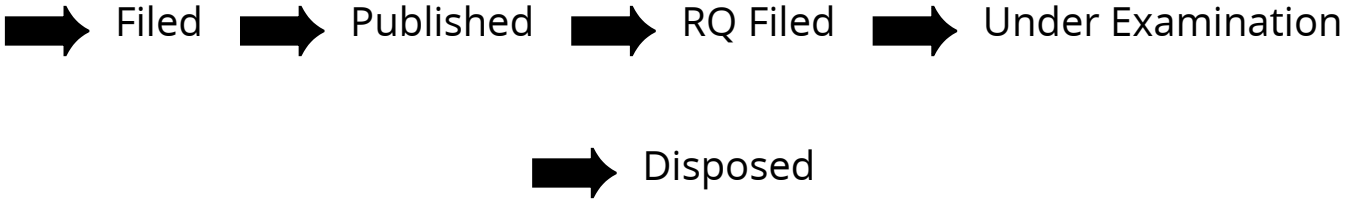
(http://ipindia.nic.in/index.htm)

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

Application Details	
APPLICATION NUMBER	202541025303
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	20/03/2025
APPLICANT NAME	Vels Institute of Science, Technology & Advanced Studies (VISTAS)
TITLE OF INVENTION	Novel Icecream Formulation and Evaluation of Anthelminthic Drug Piperazine Hydrate
FIELD OF INVENTION	CHEMICAL
E-MAIL (As Per Record)	mail2patentipr@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	28/03/2025

Application Status	
APPLICATION STATUS	Awaiting Request for Examination

View Documents



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Office of the Controller General of Patents, Designs & Trade Marks
Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
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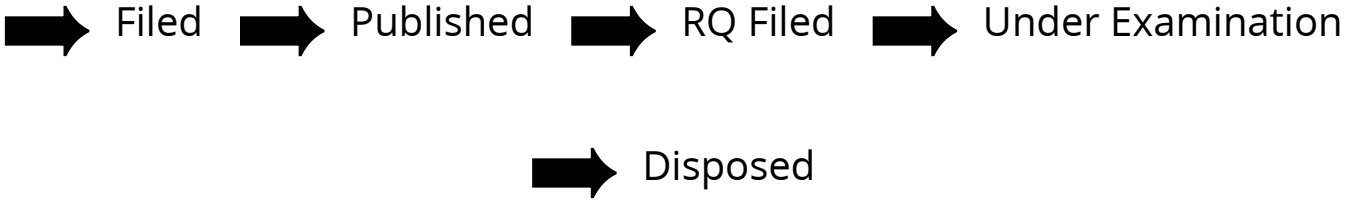
(http://ipindia.nic.in/index.htm)

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

Application Details	
APPLICATION NUMBER	202541035602
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	11/04/2025
APPLICANT NAME	Dr. P. Saravanan
TITLE OF INVENTION	A Nutraceutical Composition of various Minerals for treating various ailments
FIELD OF INVENTION	CHEMICAL
E-MAIL (As Per Record)	mail2patentipr@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	09/05/2025

Application Status	
APPLICATION STATUS	Awaiting Request for Examination

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Office of the Controller General of Patents, Designs & Trade Marks
Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India

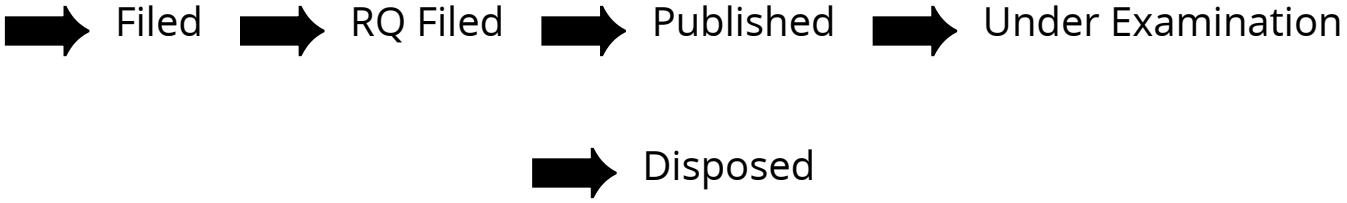
(http://ipindia.nic.in/index.htm)

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

Application Details	
APPLICATION NUMBER	202541045871
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	13/05/2025
APPLICANT NAME	1 . S.Umadevi 2 . Bharath.S
TITLE OF INVENTION	ARTIFICIAL INTELLIGENCE ASSISTED DESIGN AND OPTIMIZATION OF ABIRATERONE ACETATE LOADED PLGA NANOPART
FIELD OF INVENTION	CHEMICAL
E-MAIL (As Per Record)	Umadevi.sps@vistas.ac.in.
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	13/05/2025
PUBLICATION DATE (U/S 11A)	06/06/2025

Application Status	
APPLICATION STATUS	Application Awaiting Examination

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INTELLECTUAL PROPERTY INDIA

सत्यमेव जयते

क्रम सं/SL No :044198841

पेटेंट कार्यालय,भारत सरकार | The Patent Office, Government Of India

पेटेंट प्रमाण पत्र | Patent Certificate

(पेटेंट नियमावली का नियम 74) | (Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No. : 566747

आवेदन सं. / Application No. : 201941009320

फाइल करने की तारीख / Date of Filing : 11/03/2019

पेटेंटी / Patentee : Unnikrishnan Shyamala Jijith

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित *APPARATUS FOR THE SCREENING AND EVALUATION OF ANTI-INFLAMMATORY ACTIVITY* नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख मार्च 2019 के ग्यारहवें दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled *APPARATUS FOR THE SCREENING AND EVALUATION OF ANTI-INFLAMMATORY ACTIVITY* as disclosed in the above mentioned application for the term of 20 years from the 11th day of March 2019 in accordance with the provisions of the Patents Act,1970.

अनुदान की तारीख : 27/05/2025
Date of Grant :

उमा एस. पंडित
पेटेंट नियंत्रक
Controller of Patents

टिप्पणी – इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, मार्च 2021 के ग्यारहवें दिन को और उसके पश्चात प्रत्येक वर्ष मे उसी दिन देय होगी।

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

सत्यमेव जयते

क्रम सं/SL No :044194772

पेटेंट कार्यालय,भारत सरकार | The Patent Office, Government Of India

पेटेंट प्रमाण पत्र | Patent Certificate

(पेटेंट नियमावली का नियम 74) | (Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No.	:	555855
आवेदन सं. / Application No.	:	202041036030
फाइल करने की तारीख / Date of Filing	:	21/08/2020
पेटेंटी / Patentee	:	VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES (VISTAS)

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित *APPARATUS FOR SCREENING AND EVALUATION OF ANTI-DIABETIC AGENTS THROUGH IN VITRO GLUCOSE UPTAKE SYSTEMS* नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख अगस्त 2020 के इक्कीसवें दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled *APPARATUS FOR SCREENING AND EVALUATION OF ANTI-DIABETIC AGENTS THROUGH IN VITRO GLUCOSE UPTAKE SYSTEMS* as disclosed in the above mentioned application for the term of 20 years from the 21st day of August 2020 in accordance with the provisions of the Patents Act,1970.

अनुदान की तारीख :
Date of Grant : 05/12/2024

पेटेंट नियंत्रक
Controller of Patents

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, अगस्त 2022 के इक्कीसवें दिन को और उसके पश्चात प्रत्येक वर्ष मे उसी दिन देय होगी।

Note. - The fees for renewal of this patent, if it is to be maintained, will fall / has fallen due on 21st day of August 2022 and on the same day in every year thereafter.

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

सत्यमेव जयते

क्रम सं/SL No :044197669

पेटेंट कार्यालय,भारत सरकार | The Patent Office, Government Of India

पेटेंट प्रमाण पत्र | Patent Certificate

(पेटेंट नियमावली का नियम 74) | (Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No.	:	563701
आवेदन सं. / Application No.	:	202041025429
फाइल करने की तारीख / Date of Filing	:	17/06/2020
पेटेंटी / Patentee	:	VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS)

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित *REVERSAL OF DIABETIC RETINOPATHY IN MODIFIED PROLIFERATIVE DIABETIC RETINOPATHY MODEL IN RATS USING TRADITIONAL INDIAN MEDICINAL PLANTS* नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख जून 2020 के सत्रहवें दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled *REVERSAL OF DIABETIC RETINOPATHY IN MODIFIED PROLIFERATIVE DIABETIC RETINOPATHY MODEL IN RATS USING TRADITIONAL INDIAN MEDICINAL PLANTS* as disclosed in the above mentioned application for the term of 20 years from the 17th day of June 2020 in accordance with the provisions of the Patents Act,1970.

पेटेंट कार्यालय,भारत सरकार The Patent Office, Government Of India सत्यमेव जयते

अनुदान की तारीख : 26/03/2025
Date of Grant :

पेटेंट नियंत्रक
Controller of Patents

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, जून 2022 के सत्रहवें दिन को और उसके पश्चात प्रत्येक वर्ष मे उसी दिन देय होगी।

Note. - The fees for renewal of this patent, if it is to be maintained, will fall / has fallen due on 17th day of June 2022 and on the same day in every year thereafter.

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

सत्यमेव जयते

ORIGINAL
क्रम सं/ Serial No. : 181702

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. : 427794-001

तारीख / Date : 22/08/2024

पारस्परिकता तारीख / Reciprocity Date* :

देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो *IOT BASED BREAST CANCER DETECTION DEVICE USING MICRO CALCIFICATION* से संबंधित है, का पंजीकरण, श्रेणी 24-01 में 1.Mr. Amit Seth 2. Dr. D. Akiladevi 3.Dr. Prabitha P 4.Mr. Nikam Anil Ishwar 5.Miss. Sangeeta Tukaram Sankpal 6.Miss. Kavita 7.Mr. Abhay Murari Lal Verma 8.Dr. Manoj Kumar Pani 9.Dr. Farhad F Mehta 10.Dr. Nilima Shukla 11.Dr. Bibhuti Bhusan Panigrahi 12.Dr. Swetha Polagani 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 24-01 in respect of the application of such design to *IOT BASED BREAST CANCER DETECTION DEVICE USING MICRO CALCIFICATION* in the name of 1.Mr. Amit Seth 2. Dr. D. Akiladevi 3.Dr. Prabitha P 4.Mr. Nikam Anil Ishwar 5.Miss. Sangeeta Tukaram Sankpal 6.Miss. Kavita 7.Mr. Abhay Murari Lal Verma 8.Dr. Manoj Kumar Pani 9.Dr. Farhad F Mehta 10.Dr. Nilima Shukla 11.Dr. Bibhuti Bhusan Panigrahi 12.Dr. Swetha Polagani.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्यधीन 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 :
Date of Issue : 01/10/2024

उन्नत की चंडिल

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 स्वत्वाधिकार पंजीकरण की तारीख से दस वर्षों के लिए होगा जिसका विस्तार, 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.

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
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सत्यमेव जयते

ORIGINAL
क्रम सं/ Serial No. : 176566

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. : 420420-001

तारीख / Date : 18/06/2024

पारस्परिकता तारीख / Reciprocity Date* :

देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो *BASKET TYPE DISSOLUTION APPARATUS FOR FLOATING DRUG DELIVERY SYSTEMS* से संबंधित है, का पंजीकरण, श्रेणी 24-01 में 1.Dr. Y Vamshi Vishnu 2. Dr. Manish Kumar 3.Mrs. A Sree Geetha 4.Dr. Balakrishnan Ramajayam Asokan 5.Ms. Nilam Uttam Metkari 6.Dr. Tasneem Mohammed 7.Dr. Ritu Khanra 8.Dr. T. S. Shanmugarajan 9.Miss. Priyanka Sanjay Banchhod 10.Miss. Vandana Vishnu Shirsath 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 24-01 in respect of the application of such design to *BASKET TYPE DISSOLUTION APPARATUS FOR FLOATING DRUG DELIVERY SYSTEMS* in the name of 1.Dr. Y Vamshi Vishnu 2. Dr. Manish Kumar 3.Mrs. A Sree Geetha 4.Dr. Balakrishnan Ramajayam Asokan 5.Ms. Nilam Uttam Metkari 6.Dr. Tasneem Mohammed 7.Dr. Ritu Khanra 8.Dr. T. S. Shanmugarajan 9.Miss. Priyanka Sanjay Banchhod 10.Miss. Vandana Vishnu Shirsath.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्यधीन 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 :
Date of Issue : 30/07/2024

उन्नत की ओर

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 स्वत्वाधिकार पंजीकरण की तारीख से दस वर्षों के लिए होगा जिसका विस्तार, 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.

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

सत्यमेव जयते

ORIGINAL
क्रम सं/ Serial No. : 186123

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. : 428031-001

तारीख / Date : 23/08/2024

पारस्परिकता तारीख / Reciprocity Date* :

देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो *AI-ENABLED DEVICE FOR DETECTION OF MOTTALING DEFECTS IN TABLETS* से संबंधित है, का पंजीकरण, श्रेणी 24-01 में 1.Dr. A. Bharath Kumar 2. Mr. Sachin Bhagwat Aglawe 3.Mr. Aghade Karveer Babanrao 4.Dr. A. Muralidhar Rao 5.Mr. Vishisht M Thakur 6.Mrs. R. Sridevi 7.Mrs. Swati Vinesh Bodhankar 8.Dr. Arpan Kumar Tripathi 9.Dr. I. Somasundaram 10.Mrs. V. Geetha 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 24-01 in respect of the application of such design to *AI-ENABLED DEVICE FOR DETECTION OF MOTTALING DEFECTS IN TABLETS* in the name of 1.Dr. A. Bharath Kumar 2. Mr. Sachin Bhagwat Aglawe 3.Mr. Aghade Karveer Babanrao 4.Dr. A. Muralidhar Rao 5.Mr. Vishisht M Thakur 6.Mrs. R. Sridevi 7.Mrs. Swati Vinesh Bodhankar 8.Dr. Arpan Kumar Tripathi 9.Dr. I. Somasundaram 10.Mrs. V. Geetha.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्यधीन 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 :
Date of Issue : 02/12/2024

उन्नत की चंडिल
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ORIGINAL
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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. : 418381-001

तारीख / Date : 29/05/2024

पारस्परिकता तारीख / Reciprocity Date* :

देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो *DEVICE FOR ESTIMATION OF TIME FOR WOUND HEALING* से संबंधित है, का पंजीकरण, श्रेणी 24-04 में 1.Dr Jyotsana Dwivedi 2. Dr Pankaj Agrawal 3.Madhuri Manikrao Landge 4.Ankush Sachan 5.Kajal Sachan 6.Dr Pranay Wal 7.M. Immanuel Jebastine 8.Prashant Sharma 9.Dr. Swalin Parija 10.Dr.Rajni Kant Panik 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 24-04 in respect of the application of such design to *DEVICE FOR ESTIMATION OF TIME FOR WOUND HEALING* in the name of 1.Dr Jyotsana Dwivedi 2. Dr Pankaj Agrawal 3.Madhuri Manikrao Landge 4.Ankush Sachan 5.Kajal Sachan 6.Dr Pranay Wal 7.M. Immanuel Jebastine 8.Prashant Sharma 9.Dr. Swalin Parija 10.Dr.Rajni Kant Panik.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्यधीन 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 :
Date of Issue : 04/07/2024

उन्नत की मंडिल

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डिजाइन के पंजीकरण का प्रमाण पत्र | Certificate of Registration of Design

डिजाइन सं. / Design No. : 424885-001

तारीख / Date : 26/07/2024

पारस्परिकता तारीख / Reciprocity Date* :

देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो *WEARABLE BIOSENSOR BASED DEVICE FOR THERAPEUTIC DRUG MONITORING AND PERSONALIZED THERAPY* से संबंधित है, का पंजीकरण, श्रेणी 24-01 में 1.Dr. Arpan Kumar Tripathi 2. Dr. J. Priyanga 3.Ms. Neha Sharma 4.Dr. Rakesh Verma 5.Mr. Shakil Ahmed 6.Mr. Abhishek Guha Roy 7.Mr. Abhijit Nath 8.Dr. Sonika Niraj Motan 9.Ms. V. Geetha 10.Dr. Sukanya Mehra के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

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डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्यधीन 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 :
Date of Issue : 11/09/2024

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