

PATENT PUBLISHED/GRANTED



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डिजाइन स. / Design No. तारीख / Date 402994-001 23/12/2023

पारस्परिकता तारीख / Reciprocity Date* देश / Country

संपदा कार्यालय, भारत सरकार, Intellectual Property Office, Government of India, वौफ्निक

डिजाडन के पंजीकरण का प्रमाण पत्र

ಆಸ್ತಿ ಕಚೇರಿ, ಭಾರತ

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो SMART HUMIDITY DETECTOR से संबंधित है, का पंजीकरण, श्रेणी 10-05 में 1.Dr.Shailendra Yadav 2. Prof. Anil Kumar Mittal 3.Prof. Mahendra Kumar Tiwari 4.Prof. Rama Shankar Nigam 5.Dr. Chitrasen Gupta 6.Mr. Mrityunjay Shukla 7.Mr. Kanha Singh Tiwari 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 10-05 in respect of the application of such design to SMART HUMIDITY DETECTOR in the name of 1.Dr.Shailendra Yadav 2. Prof. Anil Kumar Mittal 3.Prof. Mahendra Kumar Tiwari 4.Prof. Rama Shankar Nigam 5.Dr. Chitrasen Gupta 6.Mr. Mrityunjay Shukla 7.Mr. Kanha Singh Tiwari.

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.

गौदिक जम्लेखिब कार्यालग्न, ভोबত हबकाब, बौद्धिक संपदा दफतर, भारत सरकार, (तौद्धिक जम्लेम कार्यालग्न, प्राराध, प्राय वौद्धिक संपत्ती कार्यालग्न, जोदिक संपत्न त्यादिक संपदा दफतर, भारत सरकार, (तौद्धिक जम्लेम कार्यालग्न, डाठल जरकात, डाँवेद्वे खर्यु, इक्षेस्0, कार्यालय, बीद्धिक संपत्ती कार्यालय, भारत सरकार, वौद्धिक संपत्न कार्यालय, भारत सरकार, तौद्धिक जम्लेम कार्यालय, भारत सरकार, सरकार, धौपिव मंधरी चढउत, इनउ मत्रवार, ०४७८८८८८८८ ७८४७.८ ७८७.८ ७८७७.७ ७८. ७८७७७७. बीद्धिक संपदा चा कार्यालय, भारत सरकार, धौपिव मंधरी चढउत, इनउ मत्रवार, ०४७८८७.८ ७८८७.८ ७८७.८ ७४७.८ ७८७.७ ७८. ७८७७७. बीद्धिक संपदा चा कार्यालय, भारत सरकार, ब्लॅबिक वर्भि मार्यासाहय, बाविद वर्गात, सरकार, मारत सरकार, मारत सरकार, बीद्धिक संपदा कार्यालय, भारत सरकार, क्रार्ट्य, क्रंट्य औधिक प्रभाव, बाविद संपत्नी कार्यालय, भारत सरकार, बोद्धिक संपदा कार्यालय, भारत सरकार, क्रांत्र क्रांत्य, भारत सरकार, क्रंट्य, क्रंट्य, क्रंट्य, क्रंट्य, ब्रिक संपद्दा कार्यालय, भारत सरकार, वौद्धिक सम्पत्ति कार्यालय, भारत सरकार, बोद्धिक संपदा कार्यालय, भारत सरकार, तिर्वाक्विक जम्ल हाँ ए लाह लोहिक, संपदा कार्यालय, भारत सरकार, सरकार, बावदीक संपदा त्यात्र, भारत सरकार, बौद्धिक राय्वा कार्यालय, भारत सरकार, बीदिक संपदा कार्यालय, भारत सरकार, सारत सरकार, बोद्धिक संपदा त्यात्र, भारत सरकार, तिर्वाक्विक जम्ल्य कार्यालय, ज्वांत्र क्र क्रेक्क कार्यालय, भारत सरकार, सांविक मंपत्नी कार्यालय, जावल ज्व कार्यालय, बाद्धिक संपदा कार्यालय, भारत सरकार, त्यात्र क्रेक्ट के क्रेक्कट ते बौद्धिक संपत्ती कार्यालय, जावल ज्व किर्वाय , भारत सरकार, बोद्धिक संपदा कार्यालय, भारत सरकार, कार्यालय, भारत सरकार, सांविक मंपत्नी कार्यालय, बीद्धिक संपदा सरकार, कार्यालय, भारत सरकार, बाद्धिक संपदा मारत सरकार, कार्यालय, भारत सरकार, सांदिक संपदा दापत, भारत सरकार, बीद्धिक प्रिक क्रेक्ल कार्यालय, भारत कार्यालय, क्रिक संपदा चा कार्यालय भारत सरकार, कार्यालय, भारत सरकार, बोद्धिक संपदा कार्यालय, भारत सरकार, बीदिक भायता कार्यतालय कार्यात्य, क्रिक प्रेक्ल, क्रिक क्रेंपत्ती कार्यालय, सरकार, बोद्धिक संपदा कार, कार, बोद्धिक संपदा कार्यात्य, सरकार, तिर्वाक्व क्रिक क्रिक प्रात्य, भारत सरकार, बोद्धिक संपदा कार कार्यात्य, भारत सरकार, बोद्धिक संपत

மം, ഭാരത സർക്കാർ, बौद्धिक संपदा कार्यालय, भारत ८८९४७३, बौद्धिक संपदा चा कार्यालय, भारत सरकार, ६२१ गुर्ग சொத்து அலுவலகம், இந்திய அரசு, حمت जारी करने की तिथि: أي 15/03/2024 Date of Issue

চৰকাৰ, बौद्धिक संपदा दफ्तर, भारत सरकार,

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

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ত্তিৰ কাৰ্যালয়, ভাৰত চৰকাৰ, ৰীব্ৰিক सादा ব

Certificate of Registration of Design

ORIGINAL

क्रम सं/ Serial No. : 160389

*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.



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भारत सरकार. બૌદ્ધिકસંપદાનંકાર્યાલય. ભHomesi

क्रम सं/ Serial No. : 148459

Certificate of Registration of Design

डिजाइन स. / Design No. तारीख / Date 396201-001 27/09/2023

पारस्परिकता तारीख / Reciprocity Date* देश / Country

जारी करने की तिथि : 16/11/2023

চৰকাৰ, बौद्धिक संपदा दफ्तर, भारत सरकार, বৌদ্ধিক

Date of Issue

डिजाडन के पंजीकरण का प्रमाण पत्र 🗤

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो PORTABLE DEVICE FOR MEASURING SUGAR LEVEL THROUGH SALIVA से संबंधित है, का पंजीकरण, श्रेणी 24-01 में 1.Dr. Madhu Gupta 2. Dr. Surya Prakash Gupta 3.Rajiv Gandhi Institute Of Pharmacy Aks University 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 *PORTABLE DEVICE FOR MEASURING SUGAR LEVEL THROUGH SALIVA* in the name of 1.Dr. Madhu Gupta 2. Dr. Surya Prakash Gupta 3.Rajiv Gandhi Institute Of Pharmacy Aks University.

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

ैगमिस Designs Rules, 2001: बिसंयान , भारत सरकार, बौद्धिक संपदा कार्यालय, भारत सरकार, Intellectual Property Office, Government of India योद्धिक अल्भेलिब कार्यालय, जावज ठबकाब, बौद्धिक संपदा दफ्तर, भारत सरकार, (द्योफ्तिक जल्भेप कार्यालय, जावज जतकात, युव्देहे खुरु क्रुटेटे क्रुटे येदिक संपत्ती कार्यालय, भारत सरकार, औद्धिक्संपदानुंधर्थावय, भारत सरकार, (द्योफ्तिक जल्भेप कार्यालय, जावज जतकात, युव्देहे खुरु क्रुटेटे क्रुटेटे क्रेडिक संपत्ती कार्यालय, भारत सरकार, औद्धिक संपद्दा कार्यालय, भारत रिक्तर, धॅपिव प्रेपडी स्टउउ, छउउ मववार, 0,0980/ 626202 b789.8 b3930309.6, 0639300 8538, बौद्धिक संपदा चा कार्यालय, भारत सरकार, 6लेकि वर्शक राक्तर, धॅपिव प्रेपडी स्टउउ, छउउ मववार, 0,0980/ 626302 b789.8 b3930976, 0639300 8538, बौद्धिक संपदा चा कार्यालय, भारत सरकार, कार्यलय, 164कि वर्शक राक्तर, धॅपिव प्रेपडी स्टउउ, छउउ मववार, 0,0980/ 626302 b789.8 b39300 80808, 0639300 8538, बौद्धिक संपदा चा कार्यालय, भारत सरकार, 6लेकि वर्शक राक्तर, धॅपिव प्रेपडी, ह्येडेक, क्रुटे क्रुटे क्रुटे क्रुटे क्रुटे क्रुटे क्रिक, जल्मे कार्यालय, भारत सरकार, कार्यलय, भारत सरकार, कार्यलय, व्यक्त, बाध्दिक, संपदा कार्यालय, भारत सरकार, क्रिक, क्रुटे क्रुटे क्रुटे क्रुटे क्रुटे कार्यलय, भारत सरकार, बाद्धिक संपदा कार्यलय, भारत सरकार, क्रिक, क्रुटे क्रुटे क्रुटे क्रुटे क्रुटे क्रिक, क्रुटे क्रुटे क्रुटे क्रुटे क्रेटे कार्यलय, भारत सरकार, कार क्रेटे क्रुटे क्रेटे क्रुटे क्रुटे क्रेडे क्रुटे क्रेटे क्रेटे क्रुटे क्रेटे क्रेटे क्रेटे क्रेटे क्रेटे क्रेटे क्रेटे क्रेटे के क्रेटे क्रेट, क्रेटे क्र राह्य क्रेडे क्रेटे क्र



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 Office

Certificate of Registration for a UK Design

Design number: 6312193

Grant date: 26 September 2023

Registration date: 19 September 2023

This is to certify that,

in pursuance of and subject to the provision of Registered Designs Act 1949, the design of which a representation or specimen is attached, had been registered as of the date of registration shown above in the name of

Dr. Surya Prakash Gupta, Rajiv Gandhi Institute of Pharmacy, Satna

in respect of the application of such design to:

PORTABLE DEVICE FOR MEASURING SUGAR LEVEL THROUGH SALIVA

International Design Classification: Version: 14-2023 Class: 24 MEDICAL AND LABORATORY EQUIPMENT Subclass: 02 MEDICAL INSTRUMENTS, INSTRUMENTS AND TOOLS FOR LABORATORY USE

Alon Williams

Adam Williams Comptroller-General of Patents, Designs and Trade Marks Intellectual Property Office The attention of the Proprietor(s) is drawn to the important notes overleaf.



Intellectual Property Office is an operating name of the Patent Office

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Representation of Designs















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CERTIFICATE OF GRANT INNOVATION PATENT

Patent number: 2021106933

The Commissioner of Patents has granted the above patent on 8 December 2021, and certifies that the below particulars have been registered in the Register of Patents.

Name and address of patentee(s):

Abhijeet Singh of Assistant Professor, Applied Science & Humanities Department, Rajkiya Engineering College Banda Uttar Pradesh 210201 India

Pushpendra Singh of Assistant Professor, Electrical Engineering Department, Rajkiya Engineering College Banda Uttar Pradesh 210201 India

Manoj K. Singh of Assistant Professor, Department of Applied Science & Humanities, Rajkiya Engineering College Banda Uttar Pradesh 210201 India

Ankush Rajput of Assistant Professor, Mechanical Engineering Department, Rajkiya Engineering College Banda Uttar Pradesh 210201 India

Rajesh Arya of Associate Professor, Medi-Caps University Indore Madhya Pradesh 453331 India

Deep Thakur of Assistant Professor, Department of Mechanical Engineering, Rajkiya Engineering College Banda Uttar Pradesh 210201 India

Pankaj Shrivastava of Professor, Mechanical Engineering Department, AKS University Satna Madhya Pradesh 485001 India

Shishir Dixit of Associate Professor, Electrical Engineering Department, Madhav Institute of Technology & Science (MITS) Gwalior Madhya Pradesh 474005 India

Title of invention:

System And Method For Secured Irrigation

Name of inventor(s):

Singh, Abhijeet; Singh, Pushpendra; Singh, Manoj K.; Rajput, Ankush; Arya, Rajesh; Thakur, Deep; Shrivastava, Pankaj and Dixit, Shishir

Term of Patent:

Eight years from 24 August 2021

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.



Dated this 8th day of December 2021

Commissioner of Patents

Extracts from the Patents Act, 1990

Sect 120(1A)	Infringement proceedings in respect of an innovation patent cannot be started
	unless the patent has been certified.
Sec 128	Application for relief from unjustified threats
(1)	Where a person, by means of circulars, advertisements or otherwise, threatens
	a person with infringement proceedings or other similar proceedings a person
	aggrieved may apply to a prescribed court, or to another court having
	jurisdiction to hear and determine the application, for:
(a)	a declaration that the threats are unjustifiable; and
(b)	an injunction against the continuance of the threats; and
(c)	the recovery of any damages sustained by the applicant as a result of the
()	threats.
(2)	Subsection (1) applies whether or not the person who made the threats is
()	entitled to, or interested in, the patent or a patent application.
Sec 129A	Threats related to an innovation patent application or innovation patent
	and courts power to grant relief.
Certain threats of in	nfringement proceedings are always unjustifiable
(1)	lf
(•)	(a) a person.
	(i) has applied for an innovation patent, but the application has not been
	determined: or
	(ii) has an innovation natent that has not been certified: and
	(h) the person by means of circulars, advertisements or otherwise, threatens a
	person with infringement proceedings or other similar proceedings in respect of
	the patent applied for, or the patent, as the case may be:
	the patent applied for, of the patent, as the case may be,
	nerson throatoned, the threats are unjustifiable
Courto power to ar	person inteatened, the inteats are unjustinable.
natentee of an uno	and relief in respect of threats made by the applicant for an innovation patent of the
	If an application under section 128 for relief relates to threats made in respect
(2)	of an innevation patent that has not been estimates to threats made in respect
	innevetion potent the court may grant the application the relief application for an
Courto power to ar	innovation patent, the court may grant the application the relief applied for.
	and relief in respect of threats made by the patentee of certified innovation patent
(3)	of a partified inservation patent the court may ment the applicant the relief
	of a certified innovation patent, the court may grant the applicant the relief
	applied for unless the respondent satisfies the court that the acts about which
	the threats were made infringed, or would infringe, a claim that is not shown by
.	the applicant to be invalid.
Schedule 1	Dictionary
	<i>certified</i> , in respect of an innovation patent other than in section 19, means a
	certificate of examination issued by the Commissioner under paragraph
	101E(e) in respect of the patent



IP Australia

CERTIFICATE OF GRANT INNOVATION PATENT

Patent number: 2021106599

The Commissioner of Patents has granted the above patent on 17 November 2021, and certifies that the below particulars have been registered in the Register of Patents.

Name and address of patentee(s):

Abhijeet Singh of Assistant Professor, Applied Science & Humanities Department, Rajkiya Engineering College Banda Uttar Pradesh 210201 India

Pushpendra Singh of Assistant Professor, Electrical Engineering Department, Rajkiya Engineering College Banda Uttar Pradesh 210201 India

Manoj K. Singh of Assistant Professor, Department of Applied Science & Humanities, Rajkiya Engineering College Banda Uttar Pradesh 210201 India

Ankush Rajput of Assistant Professor, Mechanical Engineering Department, Rajkiya Engineering College Banda Uttar Pradesh 210201 India

Pankaj Shrivastava of Professor, Mechanical Engineering Department, AKS University Satna Madhya Pradesh 485001 India

Deep Thakur of Assistant Professor, Department of Mechanical Engineering, Rajkiya Engineering College Banda Uttar Pradesh 210201 India

Title of invention:

System And Method For Smart Integrated Traffic Control

Name of inventor(s):

Singh, Abhijeet; Singh, Pushpendra; Singh, Manoj K.; Rajput, Ankush; Shrivastava, Pankaj and Thakur, Deep

Term of Patent:

Eight years from 23 August 2021

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.



Dated this 17th day of November 2021

Commissioner of Patents

Sect 120(1A)	Infringement proceedings in respect of an innovation patent cannot be started
	unless the patent has been certified.
0	
Sec 128	Application for relief from unjustified threats
(1)	Where a person, by means of circulars, advertisements or otherwise, threatens
	a person with infringement proceedings or other similar proceedings a person
	aggrieved may apply to a prescribed court, or to another court having
	jurisdiction to hear and determine the application, for:
(a)	a declaration that the threats are unjustifiable; and
(b)	an injunction against the continuance of the threats; and
(C)	the recovery of any damages sustained by the applicant as a result of the
	threats.
(2)	Subsection (1) applies whether or not the person who made the threats is
	entitled to, or interested in, the patent or a patent application.
Sec 129A	Threats related to an innovation patent application or innovation patent
	and courts power to grant relief.
Certain threats of infrin	gement proceedings are always unjustifiable.
(1)	lf:
(a)	a person:
	(i) has applied for an innovation patent, but the application has not been
	determined; or
	(ii) has an innovation patent that has not been certified; and
(b)	the person, by means of circulars, advertisements or otherwise, threatens a
	person with infringement proceedings or other similar proceedings in respect of
	the patent applied for, or the patent, as the case may be;
	then, for the purposes of an application for relief under section 128 by the
	person threatened, the threats are unjustifiable.
Courts power to grant	relief in respect of threats made by the applicant for an innovation patent or the
patentee of an uncertif	ied innovation patent
(2)	If an application under section 128 for relief relates to threats made in respect
	of an innovation patent that has not been certified or an application for an
	innovation patent, the court may grant the application the relief applied for.
Courts power to grant	relief in respect of threats made by the patentee of certified innovation patent
(3)	If an application under section 128 for relief relates to threats made in respect
(-)	of a certified innovation patent, the court may grant the applicant the relief
	applied for unless the respondent satisfies the court that the acts about which
	the threats were made infringed, or would infringe, a claim that is not shown by
	the applicant to be invalid.
Schedule 1	Dictionary
	certified in respect of an innovation natent other than in section 19 means a
	certificate of examination issued by the Commissioner under paragraph
	<i>certified</i> , in respect of an innovation patent other than in section 19, means a certificate of examination issued by the Commissioner under paragraph

101E(e) in respect of the patent



लग जातर सत्यमेव जयते त्या जातर जातिक संपत्ती कार्यालय सरकार क The Patent Office, Government Of Ind

Certificate of Registration of Designation

प्राट्ट अस्परानु इत्यां वय Home ORIGINAL सं/ Serial No. : 179634

डिजाइन सं. / Design No. तारीख / Date

जारी करने की तिथि

03/09/2024

423257-001 15/07/2024

पारस्परिकता तारीख / Reciprocity Date' देश / Country

ભારતસરકાર પેટેટ कार्यालय,

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो LABORATORY PIPETTE से संबंधित है, का पंजीकरण, श्रेणी 24-02 में 1.Dr. Surya Prakash Gupta 2. Mr. Sharad Vyankatrao Mali 3.Mr. Amit Ashok Jagtap 4.Dr. Jeevan Suresh Dhumal 5.Mr. Dudheshwar Chandrakant Kshirsagar 6.Mr. Shubham Vijay Chavan 7.Dr. Gautam Sadashiv Palshikar 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 24-02 in respect of the application of such design to *LABORATORY PIPETTE* in the name of 1.Dr. Surya Prakash Gupta 2. Mr. Sharad Vyankatrao Mali 3.Mr. Amit Ashok Jagtap 4.Dr. Jeevan Suresh Dhumal 5.Mr. Dudheshwar Chandrakant Kshirsagar 6.Mr. Shubham Vijay Chavan 7.Dr. Gautam Sadashiv Palshikar.

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.

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

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*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.



Machine Marker सरकार, वोषिक अल्लान कार्यालय जातुल सरकार भारतसरहार पेटेंट कार्यालय, भारत सरकार The Patent Office, Government Of India आहे जिस्त्र 3 कि जिल्हा के पंजीकरण का प्रमाण पत्र के Certificate of Registration of Design

डिजाइन सं. / Design No. तारीख / Date

जारी करने की तिथि :

Date of Issue

10/01/2024

401084-001 30/11/2023

LATRA

पारस्परिकता तारीख / Reciprocity Date* देश / Country

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो MEDICAL DEVICE TO MEASURE MAXIMAL INSPIRATORY AND EXPIRATORY PRESSURES से संबंधित है, का पंजीकरण, श्रेणी 24-01 में 1.Preeti Saini 2. Dr Biswajit Tripathy 3.Prof. (Dr.) Mukta Bhatele 4.Dr. Ashwini A. Waoo 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 *MEDICAL DEVICE TO MEASURE MAXIMAL INSPIRATORY AND EXPIRATORY PRESSURES* in the name of 1.Preeti Saini 2. Dr Biswajit Tripathy 3.Prof. (Dr.) Mukta Bhatele 4.Dr. Ashwini A. Waoo.

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.

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

Home

ORIGINAL

क्रम सं/ Serial No. : 152570

*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.



N.A.

80 ४९३b88, बोहिक संदि कि भी रकार इलेविल घो

Registrar of Copyrights

 14.
 यदि कृति एक 'कलात्मक कृति' है जो किसी भी माल या सेवाओं के संबंध में उपयोग की जाती है या उपयोग किए जाने में सक्षम है तो आवेत्म में

यदि कृति एक 'कलात्मक कृति' है जो किसी भी माल या सेवाओं के संबंध में उपयोग की जाती है या उपयोग किए जाने में सक्षम है, तो आवेदन में प्रतिलिप्यधिकार अधिनियम, 1957 की धारा 45 की उप–धारा (i) के प्रावधान अनुसार व्यापार चिह्न रजिस्ट्रार से प्रमाणन शामिल होना चाहिए। If the work is an 'Artistic work' which is used or capable of be used in relation to any goods or services, the application shoul include a certification from the Registrar of Trade Marks in ter the provision to Sub-Section (i) of Section 45 of the Copyright 1957.

यदि कृति एक 'कलात्मक कृति' है, तो क्या यह डिजाइन अधिनियम 20 अंतर्गत पंजीकृत है? यदि हां, तो विवरण दें। If the work is an 'Artistic work', whether it is registered under the Designs Act 2000, if yes give details.

सरकार, घंपिन ह

- 16. यदि कृति एक 'कलात्मक कृति' है, जो डिजाइन अधिनियम 2000 के तहत : एक डिजाइन के रूप में पंजीकृत होने में सक्षम है, तो क्या यह औद्योगिक प्रक्रिया के माध्यम से किसी वस्तु पर प्रयुक्त की गई है और यदि हाँ, तो इसे कितनी बार पुनरुत्पादित किया गया है? If the work is an 'Artistic work', capable of being registered as a design under the Designs Act 2000.whether it has been applied to an article though an industrial process and ,if yes ,the number of times it is reproduced.
- 17.
 टिप्पणी, यदि कोई हो/Remarks, if any

 डायरी संख्या/Diary Number:
 30291/2023-CO/L

 आवेदन की तिथि/Date of Application:
 16/11/2023

 प्राप्ति की तिथि/Date of Receipt:
 16/11/2023

Registrar of Copyrights



عناق المحمد المحمد المعلم المحمد المعلم المحمد ال المحمد المحم المحمد المحم المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد الم محمد المحمد المحم المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحم محمد المحمد

त्यसर, भारत सरकार, त्यापुक अञ्चल कार्यालय, जावज अवकाव, १२०२३ ७२३ ७२७ ७ १२०२७ २०२० वाधिक सपत्ता कार्यालय, भ लारतसरहार पेटेंट कार्यालय, भारत सरकार के The Patent Office, Government Of India १८ ६२४७.३ ५७३५७७७ ८. ७८७७३७० ४७३५७३ बोद्धिक संपदा चा कार्यालय, भारत सरकार, ब्लेबिक वर्लव कार्यालय, जावल वर्वका १. डिजाइन के पंजीकरण का प्रमाण पत्र के Certificate of Registration of Design

र, બોટિકસંપદાનુકાર્યાલય, ભ Home 3 मनन - ORIGINAL म सं/ Serial No. : 171096

डिजाइन सं. / Design No. तारीख / Date 414455-001

पारस्परिकता तारीख / Reciprocity Date* देश / Country

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो DEVICE FOR PHYTOCHEMICAL ANALYSIS OF CRUDE DRUGS से संबंधित है, का पंजीकरण, श्रेणी 24-02 में 1.Dr. Surya Prakash Gupta 2. Kiran Shukla 3.Shaily Goyal 4.Prabhakar Tiwari 5.Dr. Gopal Garg 6.Dr. Madhu Gupta 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 24-02 in respect of the application of such design to DEVICE FOR PHYTOCHEMICAL ANALYSIS OF CRUDE DRUGS in the name of 1.Dr. Surya Prakash Gupta 2. Kiran Shukla 3.Shaily Goyal 4.Prabhakar Tiwari 5.Dr. Gopal Garg 6.Dr. Madhu Gupta.

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.

पाकि जम्भिलिय कार्यालय, जावल करवाब, बौद्धिक संपदा दफ्तर, भारत सरकार, (रोफ्निक जम्भेप कार्यालय, भारत सरकार, यग्विट्रे खर्ड्रे इक्षेस्ठे, क्राठंड रोक्हर न वैफ्लिक संपत्ती कार्यालय, जादत सरकार, बौद्धिक संपदा दफ्तर, भारत सरकार, (रोफ्निक जम्भेप कार्यालय, जात सरकार, यग्वेट्ठे ह खर्ड्रे इक्षेस्ठे, क्राठंड रोक्हर न विदिक संपत्ती कार्यालय, भारत सरकार, बौद्धिक संपदा कार्यालय, भारत सरकार, घैंपिव मंधरी चढउव, डावड मठवरव, ७७७८७ ८८७८७८ ७८४७.८ ७४७.७ ७८७७७७. (०८७७७७० ८७७७७७), बौद्धिक संपदा चा कार्यालय, भारत सरकार, ब्लिक घोल शार्वणिक, बावि प्रदेश, डावड मठवरव, ७७७८७ ८८७८७८ ७८४७.८ ७४७.७ ७८७७४७८ ८७४७३७७ ८७७४७७, बौद्धिक संपदा चा कार्यालय, भारत सरकार, बिद्धेक श्रे शार्वणिक, बावि प्रदेश, बौद्धिक सम्पत्ति कार्यालय, भारत सरकार, حکومت हाँ या णि लमग्रोके खेव फेरटेट ाार्वग्व कार्यालय, भारत सरकार, बौद्धिक संपदा कार्यालय, भारत सरकार, बाद्धिक संपदा कार्यालय, भारत सरकार, डाँ राँ या णि लमग्रोके खेव फेरटे ाार्वगवम, कार्यालय, भारत सरकार, बौद्धिक संपदा कार्यालय, भारत सरकार, बाद्ध हैं देक्षेले, क्राठे डेक्कटरेट ाार्वगवम, कार्यालय, जायल कार्यान, बोद्धिक संपदा कार्यालय, भारत सरकार, बादिक संपदा कार्यालय, भारत हैं देखेले, क्राठे डेक्कटरे कार्व कार्यालय, जायल कार्यालय, बाव कि कार्या कार्यात सरकार, बौद्धिक संपदा कार्यालय, कार्याल एमगारेके खेव प्रेक्कर कार्यालय, बाद्धिक संपदा दफ्तर, भारत सरकार, बौद्धिक संपदा कार्यालय, बार कार्यालय, कार्य के के कहर ते बौद्धिक संपत्ती कार्यालय, जावक ठवकाव, बौद्धिक संपदा दफ्तर, भारत सरकार, बौद्धिक खात्य, कार्यालय, कार्यालय, कार्यालय, भारत सरकार, खीविक संपत्ती कार्यालय, बीद्धिक संपदा दफ्तर, भारत सरकार, बौद्धिक संपदा कार्यालय, कार्य सरकार, बिकिक विक्रे विक्व क्रिक कार्यालय, बीद्धिक संपदा दफ्तर, भारत सरकार, बौद्धिक संपदा कार्यालय कार्या कार्य सरकार, बीचिक संपदा कार्यालय, कारक कार, बौद्धिक संपदा कार्यालय, भारत सरकार, बोद्धिक संपदा चा कार्यालय कार्य कार कार्यालय, भारत सरकार, खीविक संपदा चा कार्यालय कार्य सरकार, बिक्व विक्व विक्व कार्यालय, बा कार्यालय, बाद्य कार, कार्यालय, भारत सरकार, बार्यालय, बार्यालय कारत सरकार, बिक्व विक्व विक्व कार्यालय, बार्यालय, बार्यालय, बार्यालय, बार्यालय कारत सरकार, प्रातिक, बीय्व संपदा कारत्य, खार

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

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*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।

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निर्गमन सं. 13/2023	शुक्रवार	दिनांक: 31/03/2023
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The Patent Office Journal No. 13/2023 Dated 31/03/2023

(19) INDIA

(22) Date of filing of Application :17/03/2023

(43) Publication Date : 31/03/2023

(54) Title of the invention : EFFECT OF ALKALINE TREATMENT ON PHYSICAL BEHAVIOUR OF HABARA FIBER TOWARDS DEVELOPMENT OF SUSTAINABLE COMPOSITES

 (51) International classification (86) International Application No Filing Date (87) International Publication No (61) Patent of Addition to Application Number Filing Date (62) Divisional to Application Number Filing Date 	:A61K 311300, A61K 382800, B01J 294000, C08L 670400, G16H 406300 :PCT// :01/01/1900 : NA :NA :NA :NA :NA	 (71)Name of Applicant : 1)SOUNDARRAJAN KARTHIK Address of Applicant :1/36, Main Road, Mangalam
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(57) Abstract :

Habara Fiber (Natural fiber) is extracted from Habara Plant, which is commonly known as Cylindrical Snake plant. The Alkaline Solution used for treatment is Sodium Hydroxide (NaOH). The fibers extracted were treated with 5%, 10% and 15% NaOH to reduce moisture absorption and to increase the bonding strength. The fourier transform infrared spectrum analysis of habara fiber confirmed the elimination of hydroxyl sensitive groups present in the fiber. Increase in crystal size and index was observed between untreated and 5% NaOH treated habara fibers. Scanning electron microscope analysis showcase the elimination of amorphous constituents because the fiber surface is porous and presence of cavities were observed.

No. of Pages : 8 No. of Claims : 2



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The Patent Office Journal No. 45/2022 Dated 11/11/2022

71510

(19) INDIA

(22) Date of filing of Application :26/10/2022

(43) Publication Date : 11/11/2022

(54) Title of the invention : A SYSTEM AND METHOD FOR SKIN CANCER PREDICTION DEEP LEARNING MODEL

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		7)Sweta Gupta
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(51) 7	:G06T0007000000, A61B0005000000, G06T0007110000,	Address of Applicant : NA
(51) International classification	G06T0005000000, A61B0006030000	(72)Name of Inventor :
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Filing Date	INA	Madhya Pradesh 482003 Jabalpur
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(61) Patent of Addition to	.NT A	University, SATNA, Madhya Pradesh – 485001 SATNA
Application Number	INA	3)Dr. Nipun Silawat
Filing Date	INA	Address of Applicant : Principal Scientist, M.P. Council of Science and Technology, Bhopal,
(62) Divisional to Application	·NT A	Madhya Pradesh 462003 Bhopal
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Filing Date	INA	Address of Applicant :Asst. Professor, Department of Computer Science, College of
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		Tekanpur, Gwalior, Madhya Pradesh 475005 Gwalior
		6)Akrati Sharma
		Address of Applicant :Assistant Professor, Jagran Lakecity University, Bhopal, Madhya
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		7)Sweta Gupta
		Address of Applicant : Assistant Professor, Jagran Lakecity University, Bhopal, Madhya
		Pradesh 462044 Bhopal

(57) Abstract :

The present invention generally relates to a system for skin cancer prediction an acquisition unit for acquiring images from a camera; a pre-processing unit for removing noise and unwanted hair from the skin lesion thereby enhancing image parameters by removing and reducing the unwanted parts of the image or the background to intensify the image quality by increasing its visibility; a segmentation processing unit for separating the region of interest of the image by considering each pixel of the image with a similar attribute; a feature extraction unit for extracting a set of features from the skin lesions using Asymmetry, Border, Color, Diameter, (ABCD) and Grey Level Co-occurrence Matrix (GLCM) technique; and a control unit comprises a MSVM classifier for classifying the input images into one or more of a cancer, non-cancer, or early cancer stage of the image upon comparing the set of features with a pre-stored images and features values.



Figure 1





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The Patent Office Journal No. 20/2022 Dated 20/05/2022

30918

(19) INDIA

(22) Date of filing of Application :11/03/2022

(43) Publication Date : 20/05/2022

(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED VIRTUAL ATOM SIMULATOR WITH A CONTROLLED ENVIRONMENT FOR A GROUP OF VIRTUAL ATOMS

 (51) International classification (86) International Application No Filing Date (87) International Publication No (61) Patent of Addition to Application Number Filing Date (62) Divisional to Application Number Filing Date 	:G06T0019000000, G06N002000000, G09B0005060000, G09B0009000000, G09B0019000000 :NA :NA :NA :NA :NA :NA :NA	 (71)Name of Applicant : (71)Name of Applicant : (71)Name of Applicant : Professor & Head -Department of English Government Girls College Betul M.P (7)Name of Applicant : Professor & Head -Department of English Government Girls College Betul M.P (7)Name of Applicant : (7)Dr. Vinod Patidar (9)Dr. Pushpinder Singh Patheja (7)Dr. Kuldeep Singh (9)Purnesh Sharma Name of Applicant : NA (7)Name of Inventor : (7)Dr. Ashish Gupta Address of Applicant : Professor & Head -Department of English Government Girls College Betul M.P (7)Name of Inventor : (7)Dr. Ashish Gupta Address of Applicant :Ph.D. scholar Computer Science and Engineering Amity University, Gwalior, M.P (7)Name of Bitter Professor Department of Computer Science & Engineering, Scope College of Engineering, Bhopal MP
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(57) Abstract :

Artificial Intelligence Based Virtual Atom Simulator with a Controlled Environment for a Group of Virtual Atoms Artificial Intelligence Based Virtual Atom Simulator is made with a Controlled Environment for a Group of Virtual Atoms to facilitate a virtual atom simulation with the blend of Artificial Intelligence technology and to provide a facility to the users to test atom simulation with a group of atoms and a controlled environment. The simulator creates a more interacting way of learning and education for science community and support a pathway of a new and advanced education system for users with advanced technology and can be compatible with futuristic technology. The simulator is also a supportive application which can be used with augmented reality and virtual reality platforms



No. of Pages : 4 No. of Claims : 5



निर्गमन सं. 18/2021	शुक्रवार	दिनांक: 30/04/2021
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पेटेंट कार्यालय का एक प्रकाशन PUBLICATION OF THE PATENT OFFICE

The Patent Office Journal No. 18/2021 Dated 30/04/2021

21378

(12) PATENT APPLICATION PUBLICATION

Home

(19) INDIA

(22) Date of filing of Application :11/03/2021

(43) Publication Date : 30/04/2021

(54) Title of the invention : AUGMENTED REALITY AND ARTIFICIAL INTELLIGENCE BASED VISUAL LEARNING EDUCATION SYSTEM FOR DEAF PEOPLE WITH OPTIONAL SIGN LANGUAGE TOOL

 (51) International classification (31) Priority Document No (32) Priority Date (33) Name of priority country (86) International Application No Filing Date (87) International Publication No (61) Patent of Addition to Application Number Filing Date (62) Divisional to Application Number Filing Date 	:G09B0021000000, G02B0027010000, G06K0009620000, G06N00200000000 :NA :NA :NA :NA :NA :NA :NA :NA :NA :NA	 (71)Name of Applicant : Dr. Amol Ramesh Ranadive Address of Applicant :B-401, Synnove Palladium, Near Nilamber Palms,Bhayli, Vadodara - 391 410, GUJARAT Gujarat India Dr. Akhilesh A. Waoo Dr. Ashishkumar Maganbhai Parejiya Dr. Santosh Pawar Dr. Kuldeep Singh Dr Reva Mishra T)Dr Ashok Sharma (72)Name of Inventor : Dr. Akhilesh A. Waoo Dr. Akhilesh A. Waoo (72)Name of Inventor : Dr. Ashishkumar Maganbhai Parejiya Dr. Akhilesh A. Waoo Dr. Akhilesh A. Waoo
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(57) Abstract :

In our invention there is a Visual Learning Education System which is based on Artificial Intelligence and it uses Augmented Reality to display its output, it also has an Optional Sign Language Tool by which a deaf user can also know the sign of that item if it exists. Through our application a user can use his or her mobile to detect the given pattern of that content and then artificial intelligence will help to identify that item and will launch the particular learning content.

No. of Pages : 8 No. of Claims : 5



निर्गमन सं. 47/2022	शुक्रवार	दिनांकः 25/11/2022
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पेटेंट कार्यालय का एक प्रकाशन PUBLICATION OF THE PATENT OFFICE

The Patent Office Journal No. 47/2022 Dated 25/11/2022

(22) Date of filing of Application :09/11/2022

(43) Publication Date : 25/11/2022

(54) Title of the invention : AI AND THE INTERNET OF THINGS (IOT) ARE USED TOGETHER TO MAKE A SAFE ROUTING ALGORITHM FOR MOBILE AD-HOC NETWORKS THAT SAVES ENERGY

(51) International classification (86) International Application No Filing Date (87) International Publication No (61) Paten of Addition to Application Number Filing Date (62) Divisional to Application Number Filing Date	:H04W0084180000,H04L0067120000,H04W0040100000, H04W0004380000,A61B0005000000 :PCT// :01/01/1900 : NA :NA :NA :NA :NA :NA	 (71)Name of Applicant : 1)Mr.T R Arunkumar Address of Applicant : Assistant Professor, Department of Computer Science, Rani Channamma University, Bhutaramanahatti, Karmataka Belagavi Pin: 591 156 Karnataka India 2)Ms. Srilatha Toomula 3)Mr. Chirumamilla Siva Sai Kumar 4)Dr. G. Hemanth Kumar Yadav 5)Dr. Bhaskar Vijayrao Patil 6)Amitabha Mandal 7)Dr. Akhilesh A. Waoo 8)Mr. MD KERAMOT HOSSAIN MONDAL 9)Manas Kumar Roy 10)Dr.S.Vimalnath 11)Mr. Annam Karthik 12)Dr. Harikumar Pallathadka Name of Applicant : NA 72Name of Inventor : 1)Mr.T R Arunkumar Address of Applicant : ASSistant Professor, Department of Computer Science, Rani Channamma University, Bhutaramanahatti, Karmataka Belagavi Pin: 591 156 Karnataka India 2)Ms. Srilatha Toomula Address of Applicant : Assistant Professor, Department of Computer Science, Rani Channamma University, Bhutaramanahatti, Karmataka Belagavi Pin: 591 156 Karnataka India 2)Ms. Srilatha Toomula Address of Applicant : Assistant Professor RBVRR Women's College, (Autonomous), Narayanaguda, Hlyderabad Pin: 50029 Telangana India 3)Mr. Chirumamilla Siva Sai Kumar Address of Applicant : Assistant Professor Srinivasa Ramanujan Institute of technology, Rotarypuram Village, B.K. Samudram Mandal, Ananthapuramu Pin:515701 Andhra Pradesh India
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		Address of Applicant: Director and Professor Manipur International University, Ghari, Imphal, Imphal West, Imphal Pin: 795140 Manipur India

(57) Abstract : AI AND THE INTERNET OF THINGS (IOT) ARE USED TOGETHER TO MAKE A SAFE ROUTING ALGORITHM FOR MOBILE AD-HOC NETWORKS THAT SAVES ENERGY ABSTRACT Numerous new devices that can be used to monitor and manage a variety of systems are accelerating the development of electronic technology. The proliferation of Internet of Things devices is intimately associated with the development of information and communication technologies over the past several decades. The information gathered by WSNs, which are comprised of low-cost smart devices, is crucial to the expansion of the Internet of Things. Low power loss networks and wireless sensor networks are two of the most vital components of the Internet of Things. As AI advances and more people adopt it, wireless sensors are more incorporated into networks and industrialised. As a result of the routing strategy's high energy consumption, different network nodes consume varying amounts of energy. This difficulty is resolved by the algorithm protocol's inclination to converge on the local optimal solution.

No. of Pages : 11 No. of Claims : 9

पेटेंट कार्यालय शासकीय जर्नल

OFFICIAL JOURNAL OF THE PATENT OFFICE

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The Patent Office Journal No. 24/2023 Dated 16/06/2023

(12) PATENT APPLICATION PUBLICATION

Home

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 16/06/2023

(54) Title of the invention : MULTIPURPOSE ELECTRIC AND ELECTRONIC DEVICE CONTROLLER USING SPECIALLY DESIGNED CIRCUITRY BOARD WITH ARTIFICIAL INTELLIGENCE BASED SUPPORTING SOFTWARE APPLICATION TO CONTROL INPUT-OUTPUT SIGNALS WITH ANALYZED DATA

(51) International classification	:G06N0005040000, G06N0005020000, H04W0004800000, G06N0020000000, G06N0003020000	 (71)Name of Applicant : 1)Dr. Manmohan Singh Address of Applicant :Plot No. 99 Kabir colony Multai Dist Betul state M.P-460661, M.P, India. Madhya Pradesh India 2)Dr.Pushpinder Singh Patheja
(31) Priority Document No	:NA	3)Dr. Akhilesh A. Waoo
(32) Priority Date	:NA	4)Dr.Ashish Gupta
(33) Name of priority country	:NA	5)Dr.Falguni Amol Ranadive
(86) International Application No	:NA	6)Mr. Aditya R Chandre
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)Dr. Manmohan Singh
(61) Patent of Addition to Application Number Filing Date	:NA :NA	2)Dr.Pushpinder Singh Patheja 3)Dr. Akhilesh A. Waoo 4)Dr.Ashish Gupta
(62) Divisional to Application Number	:NA	5)Dr.Falguni Amol Ranadive
Filing Date	:NA	6)Mr. Aditya R Chandre

(57) Abstract :

Multipurpose Electric and Electronic Device Controller Using Specially Designed Circuitry Board with Artificial Intelligence Based Supporting Software Application to Control Input-Output Signals with Analyzed Data The innovation provide effective controlling and analysis tool with a facility of circuitry board to get and control connected devices. The circuitry board with effective analysis tool based on artificial intelligence record data like Duration, Electricity Consumption, When and How many times a device is used and analyze it through artificial intelligence tool. The innovation support and promote new and advanced way of educational, experimental aspects in the field of electric, electronic and artificial intelligence. Innovation also support developers community by making a supportive circuit based on artificial intelligence which can be utilized by present and futuristic technologies. Database is collected from various electric and electronic devices by connecting to port in the circuit board. Then a user will get an analyzed data by using Artificial Intelligence based tool.

No. of Pages : 14 No. of Claims : 5



पेटेंट कार्यालय शासकीय जर्नल

OFFICIAL JOURNAL OF THE PATENT OFFICE

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The Patent Office Journal No. 39/2023 Dated 29/09/2023

(19) INDIA

(22) Date of filing of Application :26/07/2023

(54) Title of the invention : AI-ENABLED IMAGE PROCESSING SYSTEM FOR MEDICAL DIAGNOSTICS

		 (71)Name of Applicant : 1)Prof. (Dr.) Akhilesh A. Waoo Address of Applicant : Associate Deap and Head Professor. Department of
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		3)Ms. Arifa Anjum
		4)Mr. Swapnil Justin
		5)Amit Kumar Yadav
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(51) International	:G06T0007000000, G16H0030400000,	7)AKS University
classification	G16H0050200000, A61B0005000000,	Name of Applicant : NA
	A61B0005020000	Address of Applicant : NA
(86) International	:NA	(72)Name of Inventor :
Application No	:NA	1)Prof. (Dr.) Akhilesh A. Waoo
Filing Date		Address of Applicant :Associate Dean and Head, Professor, Department of
(8/) International	: NA	Computer Science and Engineering, AKS University, SATNA, Madnya Pradesn-
(61) Patent of Addition to		403001, IIIula SATINA
Application Number	:NA	Address of Applicant Professor Department of Computer Science and
Filing Date	:NA	Engineering AKS University SATNA Madhya Pradesh-485001 India SATNA
(62) Divisional to		
Application Number	:NA	3)Ms. Arifa Anium
Filing Date	:NA	Address of Applicant PhD Scholar, Department of Computer Science, AKS
6		University, Satna, Madhya Pradesh-485001, India Satna
		4)Mr. Swapnil Justin
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		University, Satna, Madhya Pradesh-485001, India Satna
		5)Amit Kumar Yadav
		Address of Applicant :PhD Scholar, Department of Computer Science, AKS
		University, Satna, Madhya Pradesh-485001, India Satna
		6)Pawan Kumar Gupta
		Address of Applicant :PhD Scholar, Department of Computer Science, AKS
		University, Satna, Madhya Pradesh-485001, India Satna

(57) Abstract :

The present invention relates to an AI-enabled image processing system designed to improve medical diagnostics through the analysis of medical images. The system utilizes artificial intelligence algorithms and machine learning techniques to assist medical professionals in diagnosing various medical conditions by processing and interpreting medical images with high accuracy and efficiency. The system is particularly well-suited for applications in radiology, pathology, and other medical imaging fields.



No. of Pages : 18 No. of Claims : 10

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The Patent Office Journal No. 40/2023 Dated 06/10/2023

(12) PATENT APPLICATION PUBLICATION(19) INDIA

(22) Date of filing of Application :07/09/2023

(43) Publication Date : 06/10/2023

(21) Application No.202321060106 A

(54) Title of the invention : ASSEMBLY AND METHOD FOR CONVERSION OF PLASTIC WASTE INTO COLOURLESS HYDROCARBON OIL

(51) International classification	:F23G0005027000, C10G0001100000, A61K0008310000, C10B0053070000, A61M0011040000	 (71)Name of Applicant : 1)Mr. Anant Kumar Soni Address of Applicant :Pro Chancellor, AKS University, Madhya Pradesh, India anantsoni1971@gmail.com
 (86) International Application No Filing Date (87) International Publication No (61) Patent of Addition to Application Number Filing Date (62) Divisional to Application Number Filing Date 	:NA :NA :NA :NA :NA :NA	 2)Dr. Shailendra Yadav 3)AKS University Satna Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Mr. Anant Kumar Soni Address of Applicant :Pro Chancellor, AKS University, Madhya Pradesh, India anantsoni1971@gmail.com 2)Dr. Shailendra Yadav Address of Applicant :Head Department of Chemistry, AKS University, Satna, Madhya Pradesh India syshailendra5@gmail.com

(57) Abstract :

The present invention discloses assembly and method for conversion of plastic(polythene) waste into colourless hydrocarbon oil as fuel by single step pyrolysis. An assembly for converting plastic waste into colourless hydrocarbon oil comprising; pyrolysis vessel, electric furnace or other heating furnace, steel rods, removable lid, vapour outlet pipe, condenser, water chamber, gas chamber, chromatographic column and a receiving chamber. The said assembly is developed using locally available resources and man power, hence is cost effective and easy to operate. The invention further discloses a method for converting plastic waste into colourless hydrocarbon oil wherein the one step pyrolysis method does not involve further distillation and the obtained colourless hydrocarbon oil can be utilized directly as a fuel or as a solvent.



No. of Pages : 16 No. of Claims : 7



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The Patent Office Journal No. 47/2023 Dated 24/11/2023

(22) Date of filing of Application :18/10/2023

(43) Publication Date : 24/11/2023

(54) Title of the invention : A SYSTEM AND PROCESS FOR REMEDIATION OF WASTE WATER DURING COAL BED METHANE PRODUCTION

 (51) International classification (86) International Application No Filing Date (87) International Publication No (61) Patent of Addition to Application Number Filing Date (62) Divisional to Divisional to Publication Number 	:C02F0001420000, B09C0001080000, C02F0001660000, E21B0043000000, C02F0001520000 :NA :NA :NA :NA	 (71)Name of Applicant : AKS University Satna Address of Applicant :AKS University Sherganj, Panna Road, Satna, Madhya Pradesh Dr. Dhirendra Pal Dr. Shailendra Yadav Mr. Anant Kumar Soni Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : Dr. Dhirendra Pal Address of Applicant :NA Address of Applicant :NA Yadav Solitation (2000) Name of Inventor : Dr. Dhirendra Pal Address of Applicant :NA
Filing Date (62) Divisional to Application Number	:NA :NA	2)Dr. Shailendra Yadav Address of Applicant Head Department of Chemistry, AKS
Filing Date	:NA	University, Satna, Madhya Pradesh India 3)Mr. Anant Kumar Soni Address of Applicant :Pro Chancellor, AKS University, Madhya Pradesh, India

(57) Abstract :

The present invention discloses the system and process for remediation of wastewaters from coal bed methane (CBM) production. The present invention relates to the system and process for treating waste water from coal bed methane production sites containing high concentrations of soluble salts like sodium and / or other cations and converting the same into processed water that has significantly reduced salt load, electrical conductance and sodium adsorption ratio (SAR) rendering it safe for agricultural use and aquatic life when discharged into water streams. It further discloses remediation process of CBM produced water of high sodium concentration to well below the acceptable regulatory limits based on ion-exchange technology for removal of ionic impurities from water.

No. of Pages : 22 No. of Claims : 9



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60744

(12) PATENT APPLICATION PUBLICATION

(22) Date of filing of Application :03/07/2023

(43) Publication Date : 15/09/2023

(54) Title of the invention : MARBLE MINE AND PLASTIC WASTE BASED NIGHT GLOWING EMULSION PAINT

		(71)Name of Applicant :
(51) International	:C09D0005020000, C10G0001100000,	1)Mr. Anant Kumar Soni
(J1) International	A61Q0019000000, C10N0040040000,	Address of Applicant : Pro Chancellor, AKS University,
classification	C10B0053070000	Madhya Pradesh, India
(86) International	·NA	2)Dr. Shailendra Yadav
Application No	·NA	3)AKS University Satna
Filing Date	.INA	Name of Applicant : NA
(87) International	• N A	Address of Applicant : NA
Publication No : INA		(72)Name of Inventor :
(61) Patent of Addition	·NI A	1)Dr. Shailendra Yadav
to Application Number	NA	Address of Applicant :Head Department of Chemistry, AKS
Filing Date	.INA	University, Satna, Madhya Pradesh India
(62) Divisional to	• NI A	syshailendra5@gmail.com
Application Number	.INA	2)Mr. Anant Kumar Soni
Filing Date	INA	Address of Applicant : Pro Chancellor, AKS University, Madhya
		Pradesh, India anantsoni1971@gmail.com

(57) Abstract :

The present inventionrelates to themethod of preparation of night glowing emulsion paint from waste of marble mine and single use polyethylene. The method includes mixing of marble mines and single use polyethylene waste in which initially marble mines waste is converted into the average size particles of 5-micron, 12 micron and 30 microns by mechanical grinder by mechanical grinder while plastic waste is dried and converted into hydrocarbon oil by pyrolysis; the converted wastes are mixed together with further addition of emulsifying agent, dispersion agent, wetting agent, preservatives, thickening agent, binding agent and glowing agent.

No. of Pages : 10 No. of Claims : 7

पेटेंट कार्यालय शासकीय जर्नल

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The Patent Office Journal No. 50/2022 Dated 16/12/2022

(22) Date of filing of Application :09/06/2021

(43) Publication Date : 16/12/2022

(54) Title of the invention : CORDYCEPS MILITARIS BASED HERBAL FORMULATION FOR PREVENTING THE LUNG CANCER AND SARS-COV-2

(51) International classification	:A61K0036068000, A23L0031000000, A61K0036074000, A61K0035748000, A61K0036906800	 (71)Name of Applicant : 1)AKS UNIVERSITY Address of Applicant :DEPARTMENT OF BIOTECHNOLOGY, AKS UNIVERSITY, SATNA, Madhya Pradesh-485001, INDIA Madhya Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)ANANT KUMAR SONI
(33) Name of priority country	:NA	2)KAMLESH CHOURE
(86) International Application No	:NA	3)SOURABH SINGH GOUR
Filing Date	:NA	4)VIVEK AGNIHOTRI
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a novel herbal formulation for prevention of lung cancer and diseases of corona virus. The herbal formulation comprises Cordyceps militaris powder, Ganoderma lucidum powder, Shiitake mushroom powder, Spirullina (Arthrospira platensis) powder and Ginger powder.

No. of Pages : 38 No. of Claims : 6

पेटेंट कार्यालय शासकीय जर्नल

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The Patent Office Journal No. 22/2023 Dated 02/06/2023

(12) PATENT APPLICATION PUBLICATION

(19) INDIA(22) Date of filing of Application :25/04/2023

(43) Publication Date : 02/06/2023

(54) Title of the invention : ANTIBACTERIAL NOVEL 1H-INDAZOLE SCHIFF BASE DERIVATIVES

(51) Internationalclassification(86) International	:A61P 310400, C07C 490200, C07C 512400, C07D 315600, C09D 051400	 (71)Name of Applicant : 1)Rajiv Gandhi Institute of Pharmacy, AKS University Address of Applicant :Rajiv Gandhi Institute of Pharmacy, AKS University, Sherganj, Panna Road, Satna (MP)-485001
Application No	INA ·NA	Name of Applicant : NA
Filing Date	.114	Address of Applicant : NA
(87) International Publication No	: NA	(72)Name of Inventor : 1)Dr. Surva Prakash Gunta
(61) Patent of Addition to	:NA	Address of Applicant :Rajiv Gandhi Institute of Pharmacy, AKS
Filing Date	:NA	University, Sherganj, Panna Road, Satna (MP)-485001
(62) Divisional to	:NA	2)Mr. Digvijay Singh
Filing Date	:NA	Address of Applicant :Rajiv Gandhi Institute of Pharmacy, AKS University, Sherganj, Panna Road, Satna (MP)-485001

(57) Abstract :

The present invention discloses a novel 1H-Indazole Schiff base derivatives represented by the following structural formula (1) having anti-bacterial activity.



No. of Pages : 17 No. of Claims : 6



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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :14/06/2023

(43) Publication Date : 01/09/2023

(54) Title of the invention : "A NEW ANALYTICAL METHOD FOR ESTIMATING PHYTOCONSTITUENT NARINGIN BY HIGH PERFORMANCE LIQUID CHROMATOGRAPHY: DEVELOPMENT AND VALIDATION"

(51) International classification	:G01N0030020000, G01N0030060000, G01N0030600000, G06F0009448000, C08K0005341700	 (71)Name of Applicant : 1)Rajiv Gandhi Institute of Pharmacy, AKS University Address of Applicant :Rajiv Gandhi Institute of Pharmacy, AKS University, Sherganj, Panna Road, Satna (MP)-485001
(86) InternationalApplication NoFiling Date(87) International	:NA :NA	 Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor :
Publication No (61) Patent of Addition to Application Number Filing Date	: NA ¹ :NA ¹ :NA	1)Mr. Santosh Kumar Address of Applicant :Rajiv Gandhi Institute of Pharmacy, AKS University, Sherganj, Panna Road, Satna (MP)-485001
(62) Divisional to Application Number Filing Date	:NA :NA	2)Dr. Surya Prakash Gupta Address of Applicant :Rajiv Gandhi Institute of Pharmacy, AKS University, Sherganj, Panna Road, Satna (MP)-485001

(57) Abstract :

The present invention relates to a new analytical method for estimating phytoconstituent naringin by high performance liquid chromatography. Further invention to the proposed RP HPLC method is found suitable for the estimation of naringin in dosage forms (capsules) and is simple, selective, reproducible and accurate with good precision and can be successfully applied to routine analytical purpose

No. of Pages : 15 No. of Claims : 2

The Patent Office Journal No. 35/2023 Dated 01/09/2023

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA(22) Date of filing of Application :14/06/2023

(43) Publication Date : 01/09/2023

(54) Title of the invention : "LAVENDER ESSENTIAL OIL LOADED LIPID NANOPARTICLES COMPOSITION"

(51) International classification	:A61K0009127000, A61K0009510000, A61K0008340000, A61K0009000000, A61K0008390000	 (71)Name of Applicant : 1)Rajiv Gandhi Institute of Pharmacy, AKS University Address of Applicant :Rajiv Gandhi Institute of Pharmacy, AKS University, Shergani, Panna Road, Satna (MP)-485001
 (86) International Application No Filing Date (87) International Publication No 	:NA :NA : NA	Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Mr. Sumit Pandey
(61) Patent of Addition to Application Number Filing Date	:NA :NA	Address of Applicant :Rajiv Gandhi Institute of Pharmacy, AKS University, Sherganj, Panna Road, Satna (MP)-485001
(62) Divisional to Application Number Filing Date	:NA :NA	2)Dr. Surya Prakash Gupta Address of Applicant :Rajiv Gandhi Institute of Pharmacy, AKS University, Sherganj, Panna Road, Satna (MP)-485001

(57) Abstract :

The present invention relates to composition of lipid nanoparticles encapsulated with lavender oil (LEO-SLNs) with an objective to improve its stability and oral bioavailability. Further invention relates to process for preparation of the LEO-SLNs is achieved using probe-sonication method. The optimization of the LEO-SLNs is done using 23 factorial approaches. The three factors used included concentration of the lipid, concentration of the surfactant and time of sonication. Each factor is studied at two levels (low and high). Total 8 formulations are prepared and the two response factors used are particle size and encapsulation efficiency. The particle size of the formulations ranged between 98 ± 3.000 to 126 ± 5.5677 nm. The encapsulation efficiency of the SLNs ranged between 75.8 ± 0.1736 to 89.4 ± 0.3055 %. The particle size and zeta potential of the formulation LEO-SLN2 are 98 ± 3.000 nm and -21.8 ± 3.36 mV respectively. The stability of LEO-SLN2 is studied by storing at 4 ± 1 °C for 30 days. The particle size remained stable at the end of the study with drug entrapment of 87.3%. This suggests that the SLNs prepared are stable on storage. The IC50 value of the LEO-SLN2 against DPPH and Hydroxy radical is found to be $57.89 \mu g/mL$ and $107.33 \mu g/mL$ respectively.

No. of Pages : 17 No. of Claims : 3

पेटेंट कार्यालय शासकीय जर्नल

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(12) PATENT APPLICATION PUBLICATION

(22) Date of filing of Application :07/09/2023

(43) Publication Date : 06/10/2023

(54) Title of the invention : VALIDATION OF REVERSE PHASE HIGH PERFORMANCE LIQUID CHROMATOGRAPHIC METHOD FOR SIMULTANEOUS ESTIMATION OF LIGNOCAINE AND ADRENALINE IN INJECTION

(51) International classification	:G01N0030020000, A61K0031137000, G01N0030060000, A61K0031167000, G01N0030860000	 (71)Name of Applicant : 1)Rajiv Gandhi Institute of Pharmacy, AKS University Address of Applicant :Rajiv Gandhi Institute of Pharmacy, AKS University, Sherganj, Panna Road, Satna (MP)-485001
(86) International Application No Filing Date	:NA :NA	 Name of Applicant : NA Address of Applicant : NA
(87) International Publication No	: NA	(72)Name of Inventor :1)Piyush Tiwari
(61) Patent of Addition to Application Number Filing Date	:NA :NA	Address of Applicant :Rajiv Gandhi Institute of Pharmacy, AKS University, Sherganj, Panna Road, Satna (MP)-485001
(62) Divisional to Application Number Filing Date	:NA :NA	2)Dr. Surya Prakash Gupta Address of Applicant :Rajiv Gandhi Institute of Pharmacy, AKS University, Sherganj, Panna Road, Satna (MP)-485001

(57) Abstract :

The present invention relates to new RP-HPLC method was developed for the simultaneous estimation of adrenaline and lignocaine in formulation as well as bulk and it was validated as per ICH guidelines. The chromatogram for was found to be satisfactory on symmetry C-18 (4.6×150 mm, 5μ Hypersil column) using mobile phase composed of Methanol-Water (80:20, pH adjusted to 5.0 with orthophosphoric acid) at a flow rate of 0.8 ml/min and the detection wavelength of 254 nm. The retention time of adrenaline was found to be 1.450 min and that of lignocaine was found to be 2.707 min. The system suitability parameters proved that the proposed method is suitable for estimation of both the drugs under study. The theoretical plates for separation were found to be 2985 for adrenaline and 5392 for lignocaine. The linearity for adrenaline was good and the recovery of drugs was found to be within the acceptance limits of 80-120%. The LOD and LOQ for adrenaline were found to be 0.0559µg/ml and 0.169 µg/ml respectively. The LOD and LOQ for lignocaine was found to be 0.015 µg/ml and 0.047µg/ml respectively. The proposed RP HPLC method was found suitable for the estimation of adrenaline and lignocaine in fixed dose combination dosage forms (injection) and is simple, selective, reproducible and accurate with good precision and can be successfully applied to routine analytical purpose

HC

Figure 1Structure of Adrenaline

No. of Pages : 16 No. of Claims : 3



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(12) PATENT APPLICATION PUBLICATION

(22) Date of filing of Application :04/11/2023

(43) Publication Date : 15/12/2023

(54) Title of the invention : "SYNTHESIS OF NOVEL 4-(1H-BENZO [D] IMIDAZOL-1-YL)-3-NITRO-N-PHENYLBENZAMIDE DERIVATIVES FOR TREATING TUBERCULOSIS"

 (51) International classification (86) International Application No Filing Date (87) International Publication No (61) Patent of Addition to Application Number Filing Date (62) Divisional to Application Number Filing Date 	:A61P0031060000, C07D0249080000, C07D0233560000, C07D0231120000, A01N0043500000 :NA :NA :NA : NA :NA :NA :NA :NA	 (71)Name of Applicant : 1)Rajiv Gandhi Institute of Pharmacy, AKS University Address of Applicant :Rajiv Gandhi Institute of Pharmacy, AKS University, Sherganj, Panna Road, Satna (MP)-485001 Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Shikha Singh Address of Applicant :Rajiv Gandhi Institute of Pharmacy, AKS University, Sherganj, Panna Road, Satna (MP)-485001 2)Roshni Tiwari Address of Applicant :Rajiv Gandhi Institute of Pharmacy, AKS University, Sherganj, Panna Road, Satna (MP)-485001
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(57) Abstract :

The present invention relates to a preparation of novel 4-(1h-benzo [d] imidazol-1-yl)-3-nitro-n-phenylbenzamide derivatives represented by the following structural formula (1) for the treatment of tuberculosis.

No. of Pages : 18 No. of Claims : 6



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60744

(12) PATENT APPLICATION PUBLICATION

(22) Date of filing of Application :17/06/2023

(43) Publication Date : 15/09/2023

(54) Title of the invention : SYNTHESIS, CHARACTERIZATION AND ANTI-BACTERIAL ACTION OF NOVEL BENZOXAZOLE-ISATIN CONJUGATES

(51) International classification	:A61P0031040000, A61K0047540000, G03F0007038000, A61K0047550000, C09D0183140000	 (71)Name of Applicant : 1)Rajiv Gandhi Institute of Pharmacy, AKS University Address of Applicant :Rajiv Gandhi Institute of Pharmacy, AKS University, Sherganj, Panna Road, Satna (MP)-485001
(86) International Application No Filing Date	:NA :NA	Name of Applicant : NA Address of Applicant : NA
(87) International Publication No	: NA	(72)Name of Inventor :1)Ms. Anjil Chaurasiya
(61) Patent of Addition to Application Number Filing Date	:NA :NA	Address of Applicant :Rajiv Gandhi Institute of Pharmacy, AKS University, Sherganj, Panna Road, Satna (MP)-485001
(62) Divisional to Application Number Filing Date	:NA :NA	2)Dr. Surya Prakash Gupta Address of Applicant :Rajiv Gandhi Institute of Pharmacy, AKS University, Sherganj, Panna Road, Satna (MP)-485001

(57) Abstract :

The present invention relates to synthesis, characterization and anti-bacterial action of novel benzoxazole-isatin conjugates.



Figure 1 Projected benzoxazole-isatin conjugates

No. of Pages : 13 No. of Claims : 2

(22) Date of filing of Application :02/05/2023

(43) Publication Date : 28/07/2023

(54) Title of the invention : A METHOD FOR BIOLOGICAL EVALUATION OF IBUPROFEN DERIVATIVE AGAINST COLON AND BREAST CANCER CELL-LINES

 (51) International classification (86) International Application No Filing Date (87) International Publication No (61) Patent of Addition to Application Number Filing Date (62) Divisional to Application Number Filing Date Filing Date 	:A61K 311920, A61N 050600, A61P 350000, C12Q 016876, G06T 070000 :NA :NA :NA :NA :NA :NA :NA	 (71)Name of Applicant : (71)Name of Applicant :Professor School of Pharmaceutical Sciences, Om Sterling Global University, NH-52, Chandigarh Road, Hisar, Haryana. Pin code: -125001
		Maharashtra. Pin code: 442914

(57) Abstract :

A METHOD FOR BIOLOGICAL EVALUATION OF IBUPROFEN DERIVATIVE AGAINST COLON AND BREAST CANCER CELL-LINES The method consisting a drug's value is unchanged by the derivative, although it has improved 5 therapeutic characteristics. Creating a mixture of solid ibuprofen and at least one base, then executing a basically dry reaction between the ibuprofen and the base are the steps in a technique for making solubilized ibuprofen that is preferentially granulated. Ibuprofen and paracetamol are the only pharmaceutically efficacious ingredients in the dosage form, and their weight ratio is roughly twelve parts to about eighty-eight parts. Enough fumaric acid is added 10 to the mixture to lessen the typical burn sensation brought on by derivatives of propionic acid. A technique for identifying a breast tissue cell proliferative disease by checking the methylation status of nucleic acids taken from a subject. The relative copy numbers of the nucleic acid sequences in the one or more subject genomes as a function of position along the reference chromosome spread are calculated by comparing the intensity of the signals from 15 each labelled subject nucleic acid and the differences in the ratios between different signals from the labelled subject nucleic acid sequences.

No. of Pages : 19 No. of Claims : 1

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ISSUE NO. 15/2024	FRIDAY	DATE: 12/04/2024

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(12) PATENT APPLICATION PUBLICATION

(22) Date of filing of Application :14/03/2024

(43) Publication Date : 12/04/2024

(54) Title of the invention : "TRAMADOL LOADED MICRONEEDLES FOR CONTROLLED RELEASE"

(51) Internationalclassification(86) InternationalApplication No	:A61M0037000000, A61K0009000000, A61K0031135000, A61P0029000000, A61P0025040000 :NA	 (71)Name of Applicant : 1)Rajiv Gandhi Institute of Pharmacy, AKS University Address of Applicant :Rajiv Gandhi Institute of Pharmacy, AKS University, Sherganj, Panna Road, Satna (MP)-485001 Name of Applicant : NA
Filing Date (87) International Publication No	:NA : NA	Address of Applicant : NA (72)Name of Inventor : 1)Dr. Surya Prakash Gupta
(61) Patent of Addition to Application Number Filing Date	:NA :NA	Address of Applicant :Rajiv Gandhi Institute of Pharmacy, AKS University, Sherganj, Panna Road, Satna (MP)-485001
(62) Divisional to Application Number Filing Date	:NA :NA	2)Miss. Neelu Dubey Address of Applicant :Rajiv Gandhi Institute of Pharmacy, AKS University, Sherganj, Panna Road, Satna (MP)-485001

(57) Abstract :

The present invention relates to prepare dissolvable microneedle formulations loaded with Tramadol and other pharmaceutical acceptable excipients. Further invention relates to assess the physical characteristics and in vitro anti-inflammatory activity of microneedle formulations loaded with Tramadol. Another invention relates to anti-inflammatory action of the microneedle patches is determined using in vitro albumin denaturation assay method. Furthermore invention relates to microneedles are produced using 15 and 20% PVA and 2.5% chitosan presented the highest mechanical strength and could retain the shape of the needle even on pressure applied by 1000g weight. In present investigation Tramadol released in a biphasic manner from the microneedles with an initial burst release within 3 hours release almost 50% of drug. The microneedle patches loaded with Tramadol exhibited the inhibition of albumin denaturation comparable to pure Tramadol. The TMN5 had shown the inhibition capacity (77.38 ± 8.639%) whereas TMN6 exhibited inhibition capacity of (79.17 ± 7.912%). The inhibition protein denaturation by100 µg/mL solution of standard drug Tramadol was found to be 89.53 ± 6.531%.

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



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The Patent Office Journal No. 14/2022 Dated 08/04/2022

(19) INDIA

(22) Date of filing of Application :21/03/2022

(43) Publication Date : 08/04/2022

(54) Title of the invention : LIGHT WEIGHT ALUMINIUM - BORON CARBIDE (B4C/AL) SUPER ALLOY

 (51) International classification (86) International Application No Filing Date (87) International Publication No (61) Patent of Addition to Application Number Filing Date (62) Divisional to Application Number Filing Date 	:C04B0035563000, C22C0021000000, C04B0035628000, C08K0003380000, C09D0001000000 :NA :NA :NA :NA :NA :NA :NA :NA	 (71)Name of Applicant : (71)Name of Applicant : Assistant Professor, Department of Mechanical Engineering, Shri Ram Institute of Technology, Jabalpur, Madhya Pradesh – 482002 India
		Engineering & Technology, AKS university, Satna (M.P) – 485001 India

(57) Abstract :

Described herein is a unique composition of Aluminium Boron carbide (B4C/AI) metal matrix composite comprising:boron carbide; and aluminum,wherein, the B4C/AI alloy is light in weight and shows improved electrical conductivity. Further described is a process for preparing the Aluminium Boron Carbide alloy and its application in engineering industries.





No. of Pages : 17 No. of Claims : 10



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41032

(22) Date of filing of Application :30/03/2024

(43) Publication Date : 03/05/2024

(54) Title of the invention : "SYNTHESIS OF IMIDAZOLE-OXAZEPINE BY ULTH	RASONICATION METHOD"
	(71)Name of Applicant : 1)Dr. Surya Prakash Gupta Address of Applicant :Professor and Director, Rajiv Gandhi Institute of

Pharmacy, AKS University, Sherganj, Panna Road, Satna (MP)-485001
 Pharmacy, AKS University, Sherganj, Panna Road, Satna (MP)-485001

(57) Abstract :

The present invention relates to the synthesis of imidazole-oxazepine conjugates by using ultrasonic irradiation. The imidazole-oxazepine conjugate compounds (SIOaj) were synthesized starting from imidazole, subsequent nucleophilic substitution reaction of a solution of imidazole with ethyl chloro acetate, followed by hydrazinated to obtain an acetohydrazide. The acetohydrazide was subjected to Schiff's reaction with various aromatic aldehydes leading to the formation of a Schiff's base which was then subjected to cycloaddition reaction with maleic anhydride leading to ring expansion and formation of 1,3-oxazepine-conjugated imidazole. Further, treatment with aniline derivatives resulting in imidazole-oxazepine conjugate compounds (SIOa-j).



Fig.1 1H NMR spectra of SIO_f

No. of Pages : 39 No. of Claims : 9

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The Patent Office Journal No. 18/2024 Dated 03/05/2024

41032

(22) Date of filing of Application :30/03/2024

(43) Publication Date : 03/05/2024

(54) Title of the invention : "SYNTHESIS OF BENZIMIDAZOLE -OXAZEPINE BY MICROWAVE IRRADIATION METHOD"

 (51) International classification (86) International Application No Filing Date (87) International Publication No (61) Patent of Addition to Application Number Filing Date (62) Divisional to Application Number Filing Date 	:A61K31/4164, A61K31/4178, C07D489/00 :NA :NA : NA :NA :NA :NA :NA	 (71)Name of Applicant : 1)Dr. Surya Prakash Gupta Address of Applicant :Professor and Director, Rajiv Gandhi Institute of Pharmacy, AKS University, Sherganj, Panna Road, Satna (MP)-485001
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(57) Abstract :

The present invention relates to the synthesis of benzimidazole-oxazepine conjugates by using ultrasonic irradiation. The benzimidazole-oxazepine conjugate compounds (SBOa-j) were synthesized starting from imidazole, subsequent nucleophilic substitution reaction of a solution of imidazole with ethyl chloro acetate, followed by hydrazinated to obtain an acetohydrazide. The acetohydrazide was subjected to Schiff's reaction with various aromatic aldehydes leading to the formation of a Schiff's base which was then subjected to cycloaddition reaction with maleic anhydride leading to ring expansion and formation of 1,3-oxazepine-conjugated benzimidazole. Further, treatment with aniline derivatives resulting in imidazole-oxazepine conjugate compounds (SBOa-j).



Fig.1 - NMR spectra of SBOa

No. of Pages : 39 No. of Claims : 9

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The Patent Office Journal No. 20/2023 Dated 19/05/2023

36819

(19) INDIA(22) Date of filing of Application :29/03/2023

(43) Publication Date : 19/05/2023

(54) Title of the invention : THERAPEUTIC DERIVATIVES OF SULPHAMETHOXAZOLE

(57) Abstract :

"THERAPEUTIC DERIVATIVES OF SULPHAMETHOXAZOLE" Sulfamethoxazole (SMX) belong to the sulfonamide group of antibiotic. Synthetic procedures have been successfully developed for the generation of the target compounds were used six different aromatic para benzaldehydes of (H, OH, OCH3, NO2, Cl & N(CH3)2), and following multi steps reaction procedure. The preliminary study of antimicrobial activity was done on different strains of bacteria and showed that the final compounds M3(a-f) have significant activity compared with standard drug (Sulfamethoxazole), have moderate to good activity.

No. of Pages : 12 No. of Claims : 5

पेटेंट कार्यालय शासकीय जर्नल

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The Patent Office Journal No. 12/2024 Dated 22/03/2024

(12) PATENT APPLICATION PUBLICATION

(22) Date of filing of Application :22/02/2024

(43) Publication Date : 22/03/2024

(54) Title of the invention : "MECHANICAL GRINDING ASSISTED MICROWAVE ASSEMBLY FOR SYNTHESIS OF ORGANIC COMPOUNDS"

(57) Abstract :

The present invention relates to the mechanical grinding assisted microwave assembly for synthesizing of organic compounds. In the present invention, disclosed herein is mechanical grinding assisted microwave assembly which is based on combination of both the methods in which synthesis of organic compounds done by mechanical grinding as well as microwave heating simultaneously. The said assembly in the present invention provides combined effect of microwave irradiation and mechanical grinding thereby making it suitable for high temperature occurring reaction.

No. of Pages : 17 No. of Claims : 8



पेटेंट कार्यालय शासकीय जर्नल

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The Patent Office Journal No. 26/2024 Dated 28/06/2024

(19) INDIA

(22) Date of filing of Application :13/05/2024

(43) Publication Date : 28/06/2024

(54) Title of the invention : "NANO-BIOFORMULATION OF MICROBIAL CONSORTIUM TO ENHANCE THE SHELF-LIFE OF LIQUID BIOFERTILIZER"

 (51) International classification (86) International Application No Filing Date (87) International Publication No (61) Patent of Addition to Application Number Filing Date (62) Divisional to Application Number Filing Date 	:C05F11/08, C12N1/20, C05G3/00, C05G3/80, A01N63/20, A01N63/27 :NA :NA : NA :NA :NA :NA :NA :NA	 (71)Name of Applicant : (71)Name of Applicant : (71)Name of Applicant : (71)Name of Applicant : (72)Name of Applicant : (72)Name of Inventor : (72)Name of Applicant : (72)Name of Inventor : (72)Name of Inv
		Address of Applicant Pro Unancellor, AKS University, Madhya Pradesh, India

(57) Abstract : The present invention comprises development of nano-bioformulation of microbial consortium to enhance the shelf-life of liquid biofertilizer and retained its quality during longer storage period. Further invention relates to bacterial species isolated from chicken hizosphere and the development of novel nano-bioformulation for liquid biofertilizers contains microbial consortium (Pseudomonas aeruginosa & Rhizobium tarimense) using nano-cellulose with cell-protectants. Another invention relates to nanocellulose encapsulates the bacterial cells that protects it from desiccation and provides the safe environment to encapsulated cells for viability under nutrient stress conditions. The novel formulation assures the liquid biofertilizers to maintained the higher viable counts of the bacterial cells during longer storage conditions upto 2 years. The novel formulation retained the quality of the biofertilizer during longer storage condition, wherein the analysis of microbial quality at different intervals to zero month to 24 months in terms of viable cell counts and having the enhanced plant growth promoting activities during the longer storage conditions that makes this formulation for high quality biofertilizers after production.

No. of Pages : 18 No. of Claims : 6