

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201931004151 A

(19) INDIA

(22) Date of filing of Application :01/02/2019

(43) Publication Date : 19/06/2020

(54) Title of the invention : ROBOTIC SERVICE SYSTEM FOR RAILWAY COACHES (SWAB RAILWAYS)

(51) International classification :A61B0034300000,  
H04N0021218000,  
H04N0021218700,  
H04N0007180000,  
G09C0001000000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number:NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

**1)Centurion University of Technology & Management  
(CUTM)**

Address of Applicant :Alluri Nagar Village, P.O- R Sitapur,  
Via- Uppalada, Paralakhemundi, Gajapati- 761211, Odisha, India

(72)Name of Inventor :

**1)Avinash Seekoli  
2)Debasish Mohanty  
3)S.Ranjit Rao**

(57) Abstract :

Title: Robotic Service System for Railway Coaches The present disclosure discloses a robotic service system that automatically cleans the targeted railway coaches while sending live video feed and monitors different parameters of the railway coaches that include humidity, gas, temperature and thereof. The robotic service system has the ability to communicate bit to bit information wirelessly about the train at any moment with railway personnel. The information may include real-time image capturing which is then communicated with the railway personnel. Further, a controlling means is configured to receive and execute instructions sent from the railway personnel. Thus, the disclosure provides a safety servicing and data collecting robot thereby preventing many accidents and life threatening issues at a low cost.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201931032613 A

(19) INDIA

(22) Date of filing of Application :12/08/2019

(43) Publication Date : 19/06/2020

(54) Title of the invention : CORIANDER EXTRACT FOR BONE CANCER

(51) International classification :A61K0036230000,  
A61K0031474500,  
A61K0048000000,  
A61K0041000000,  
A61K0009480000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)**Name of Applicant :**  
**1)Centurion University of Technology & Management (CUTM)**  
Address of Applicant :At-Alluri Nagar Village, PO-R. Sitapur, Via-Uppalada, Paralakhemundi-761211, Gajapati District, Odisha, India  
(72)**Name of Inventor :**  
**1)Preetha Bhadra**

(57) Abstract :

The proposed disclosure provides a therapeutically effective coriander (Coriandrum Sativum) composition for targeted gene therapy with proven pharmacological activities for the treatment of particular bone cancer. The formulation of coriander (Coriandrum Sativum) composition comprises of herbal extracts such as Decene (6DJC) and 2- Bornyl acetate (5ZF4) extracted from the root of coriander. The composition helps in inhibiting DNA damage, preventing cancer cell migration and promoting cancer cell death or boost the immune system. The composition has the capability of removing toxins from the body by relieving fluid retention. The composition is formulated as tablets, capsules and thereof which is a cost effective drug without having any harmful side effects for normal cells. The composition helps in providing better molecular docking scores when compared to conventional extracts.

No. of Pages : 19 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201931032614 A

(19) INDIA

(22) Date of filing of Application :12/08/2019

(43) Publication Date : 19/06/2020

(54) Title of the invention : SYZYGIUM AROMATICUM EXTRACTS FOR OVARIAN CANCER

(51) International classification :A61K0036610000,  
A23L0033105000,  
A61K0031198000,  
A61K0048000000,  
A21D0002360000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

**1)Centurion University of Technology & Management (CUTM)**

Address of Applicant :At-Alluri Nagar Village, PO-R. Sitapur, Via-Uppalada, Paralakhemundi-761211, Gajapati District, Odisha, India

(72)Name of Inventor :

**1)Preetha Bhadra**

(57) Abstract :

The proposed disclosure provides a therapeutically effective Syzygium aromaticum (clove) composition for targeted gene therapy with proven pharmacological activities for the treatment of ovarian cancer. The formulation of Syzygium aromaticum (clove) composition comprises of herbal extracts such as kaempferol and protein. In specific, protein may include either 5AUX or 5AV2 or 5AV3 or 4DET. The composition has the capability of being used as anti-oxidant property that helps in removing free radicals. The composition can be formulated as tablets, capsules and thereof which is a cost effective drug without having any harmful side effects for normal cells. The composition helps in providing better molecular docking score when compared to conventional extracts in Syzygium aromaticum.

No. of Pages : 21 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201931032615 A

(19) INDIA

(22) Date of filing of Application :12/08/2019

(43) Publication Date : 19/06/2020

(54) Title of the invention : METHI EXTRACT FOR LIVER CANCER

(51) International classification :A61K0048000000,  
A61K0041000000,  
A61K0031708000,  
A61K0031417800,  
A61K0009480000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

**1)Centurion University of Technology & Management (CUTM)**

Address of Applicant :At-Alluri Nagar Village, PO-R. Sitapur, Via-Uppalada, Paralakhemundi-761211, Gajapati District, Odisha, India

(72)Name of Inventor :

**1)Preetha Bhadra**

(57) Abstract :

The proposed disclosure provides a therapeutically effective Fenurgreek (Methi) composition for targeted gene therapy with proven pharmacological activities for the treatment of liver cancer. The formulation of Fenurgreek (Methi) composition comprises of herbal extracts such as linalool, sotolon and coumarin. The composition has the capability of being used as anti-oxidant and anti microbes. The composition is formulated as tablets, capsules and thereof which is a cost effective drug without having any harmful side effects for normal cells. The formulated drug can also be used for preparing different skin and hair products. The composition helps in providing better molecular docking scores when compared to conventional extracts in Fenurgreek.

No. of Pages : 21 No. of Claims : 7



(12) PATENT APPLICATION PUBLICATION

(21) Application No.201931032616 A

(19) INDIA

(22) Date of filing of Application :12/08/2019

(43) Publication Date : 19/06/2020

(54) Title of the invention : BACOPA MONNIERI EXTRACTS FOR LUNG CANCER

(51) International classification :A61K0036800000,  
A61K0041000000,  
A61K0009480000,  
A61K0036680000,  
A61K0031416400

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application  
Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

**1)Centurion University of Technology & Management  
(CUTM)**

Address of Applicant :At-Alluri Nagar Village, PO-R. Sitapur,  
Via-Uppalada, Paralakhemundi-761211, Gajapati District, Odisha,  
India

(72)Name of Inventor :

**1)Preetha Bhadra**

(57) Abstract :

The proposed disclosure provides a therapeutically effective Bacopa monnieri (Bramhi) composition for targeted gene therapy with proven pharmacological activities for the treatment of lung cancer. The formulation of Bacopa monnieri (Bramhi) composition comprises of herbal extract such as Alpha alanine-6HUG. The composition has the capability of being used as anti-oxidant property that helps in removing free radicals. The composition can be formulated as tablets, capsules and thereof which is a cost effective drug without having any harmful side effects for normal cells. The composition helps in providing better molecular docking score when compared to conventional extracts in Bacopa monnieri.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201931041144 A

(19) INDIA

(22) Date of filing of Application :11/10/2019

(43) Publication Date : 19/06/2020

(54) Title of the invention : SOLAR SUGARCANE JUICER WITH CUSTOMIZED COOLING AND ADDITIVE DOSAGE DESIGN

(51) International classification	:A47J0019020000, A23N0001000000, A23L0002040000, F24S0060300000, C13B0020160000	(71) <b>Name of Applicant :</b> <b>1)CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT (CUTM)</b> Address of Applicant :At-Alluri Nagar Village, PO-R Sitapur, Via-Uppalada, Paralakhemundi- 761211, Gajapati Dist. Odisha, India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Nimay Chandra Giri</b>
(33) Name of priority country	:NA	<b>2)Bishnu Prasad Mishra</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Title: Solar Sugarcane Juicer with Customized Cooling and Additive Dosage Design The present disclosure discloses a sugarcane juicer machine with customized cooling and additive dosage design that offers a ready to serve sugarcane juice. The juicer machine is powered using solar energy which is used in any remote part of the world. The juicer machine comprises of a juice extractor, a clarifier, a cooling unit and an additive dosage selector. The cooling unit further comprises of a brine tank, plurality of Peltier cells and plurality of helical coils. The clarifier may include a centrifugal clarifier that aid in separating the solids from the extracted juice. The plurality of Peltier cells are powered by the solar power supply that aid in customized cooling the brine solution as per customer requirement. The juicer provide different levels of cooling and different flavors for taste enhancement. The additive dosage selector is incorporated to add different customized additives as per customer requirement to the cooled juice to make it tastier. The juice is blended with other taste improvers that provide health benefits to cure or prevent some diseases. The solar sugarcane juicer machine provides a hygiene sugarcane juice at an affordable price that can be assured to all rural, semi urban and urban population.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201931045677 A

(19) INDIA

(22) Date of filing of Application :11/11/2019

(43) Publication Date : 19/06/2020

(54) Title of the invention : AUTOMATIC FAULT CONTROL SYSTEM INTEGRATED 3D PRINTER

(51) International classification	:G06F0011070000, H02M0001320000, B41J0003407000, G01R0031360000, A42B0003040000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number:	NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)**Name of Applicant :**  
**1)Centurion University of Technology & Management (CUTM)**  
 Address of Applicant :At-Alluri Nagar Village, PO-R. Sitapur, Via-Uppalada, Paralakhemundi- 761211, Gajapati District, Odisha, India.

(72)**Name of Inventor :**  
**1)Suman Kumar Sudhanshu**

(57) Abstract :  
 Title: Automatic Fault Control System Integrated 3D Printer The present disclosure discloses an automatic fault control system integrated 3D printer which automatically monitors different parameters, assesses and corrects faults within the printer during printing of an object. The control system comprises a parameter monitoring module, a remedy application module, a fault communication module, a controller and a power module. The parameter monitoring module is configured to assess faults during printing and the fault communication module is configured to communicate the assessed faults wirelessly to the remedy application module. The remedy application module can be linked either as a mobile application or a server application or the like which provides remedies to faults occurred during printing. Further, the controller is configured to process received remedies and to correct faults occurred during printing without discontinuing the process of printing.

No. of Pages : 15 No. of Claims : 6



(12) PATENT APPLICATION PUBLICATION

(21) Application No.201931049814 A

(19) INDIA

(22) Date of filing of Application :03/12/2019

(43) Publication Date : 19/06/2020

(54) Title of the invention : A DEVICE FOR DETECTION OF FOOD TOXINS

(51) International classification :A23L0005200000,  
A23P0030200000,  
G01N0033558000,  
A23K0050400000,  
B01J0020220000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number:NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

**1)Centurion University of Technology and Management (CUTM)**

Address of Applicant :Alluri Nagar Village, PO-R Sitapur, Via-Uppalada, Paralakhemundi-761211, Gajapati Dist, Odisha, India

(72)Name of Inventor :

**1)Preetha Bhadra**

(57) Abstract :

The present disclosure discloses a cost-effective sensing device that detects food toxins i.e., Aflatoxin B1 in agricultural plants, food and feed products with ease and can be used by the farmers. The device comprises a body 101, a paper roll casing 102, a guiding and rolling means 103, a sample collecting means 104, an ejection means, a cutting means 105, and a paper outlet 106. The device is cost-effective and aids in detecting Aflatoxin in food and feed products based on capillary rise principle. The device is capable of detecting minor changes in the pH of solution to thereby enhance the detection procedure of the affected cell. The device helps in detecting biochemical changes in agricultural plants, food, and feed products with reduced time-consumption.

No. of Pages : 17 No. of Claims : 9



(12) PATENT APPLICATION PUBLICATION

(21) Application No.201931051679 A

(19) INDIA

(22) Date of filing of Application :13/12/2019

(43) Publication Date : 19/06/2020

(54) Title of the invention : BIO-GAS CYLINDER MONITORING AND REPLACING SYSTEM IN MOBILE BIO-TOILETS

(51) International classification :C12M0001107000,  
A47K0011030000,  
C02F0003280000,  
C12M0001000000,  
G06Q0010060000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)Centurion University of Technology and Management (CUTM)**  
Address of Applicant :Alluri Nagar, PO-R.Sitapur, Via-Uppalada, Parlakhemundi-761211, Gajapathi Dist, Odisha, India

(72)Name of Inventor :  
**1)Pritam Das**  
**2)Jyoti Lal Lodhi**  
**3)N.Laxmidhar Reddy**

(57) Abstract :

Title: Bio-Gas Cylinder Monitoring and Replacing System in Mobile Bio-Toilets The present disclosure discloses an e-movable bio-toilet incorporated with monitoring and replacing system that alerts the driver to replace the cylinder once it is filled and simultaneously transmits wirelessly the bio-gas availability information to the gas inventory in real-time. The system 100 comprises a vehicle body 101, a toilet cabinet 102, a replaceable bio-gas cylinder 103, and a weight detection means 104, a pair of visual indication means 105, a signal transmitting means 106, and a dashboard controlling means. The system transmits the signal to the driver or the inventory either in an audibly or visually manner with colour representation of filling level indication of methane gas in the cylinder. The bio-gas monitoring and replacing system minimizes pollution by using electrical energy and generates good revenue by selling the methane gas that is extracted from the waste material.

No. of Pages : 15 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201931054080 A

(19) INDIA

(22) Date of filing of Application :27/12/2019

(43) Publication Date : 19/06/2020

(54) Title of the invention : TERMINALIA CHEBULA EXTRACT COMPOSITION FOR JAUNDICE

(51) International classification :A61K0036185000,  
A61K0008970000,  
A61K0048000000,  
A61K0008310000,  
A61K0008340000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

**1)Preetha Bhadra**

Address of Applicant :D/o Tapash Bhadra Babupara, Sir  
Ashutosh Sarani PO, Dist-Alipurduar, West Bengal-736121 India

**2)CENTURION UNIVERSITY OF TECHNOLOGY &  
MANAGEMENT (CUTM)**

(72)Name of Inventor :

**1)Preetha Bhadra**

**2)Atanu Deb**

(57) Abstract :

Terminalia Chebula Extract Composition for Jaundice The proposed disclosure provides a therapeutically effective terminalia chebula (Haritaki) composition for targeted gene therapy with proven pharmacological activities for the treatment of jaundice. The terminalia chebula extract Composition comprises of herbal extracts such as chebulagic acid, punicalagin and chebulanin. The proposed terminalia chebula (Haritaki) composition enhances glucuronidation process to thereby decrease the levels of bilirubin. The proposed composition is a cost effective drug with less harmful side effects for normal cells. The terminalia chebula (Haritaki) composition reduces the use of synthetic drugs.

No. of Pages : 19 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941032262 A

(19) INDIA

(22) Date of filing of Application :08/08/2019

(43) Publication Date : 03/07/2020

(54) Title of the invention : NANOPARTICLES FOR SINGLE CYLINDER SPARK IGNITION ENGINE

(51) International classification	:F02B 75/16	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)Dr.GURRAM ARUN MANOHAR</b>
(32) Priority Date	:NA	Address of Applicant :50-94-25/12, ARUN APARTMENTS
(33) Name of priority country	:NA	SHANTIPURAM, VISAKHAPATNAM, ANDHRA PRADESH-
(86) International Application No	:NA	530016, INDIA. Andhra Pradesh India
Filing Date	:NA	<b>2)Dr.G.Arun Manohar</b>
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	<b>1)Dr.GURRAM ARUN MANOHAR</b>
Filing Date	:NA	<b>2)Dr.G.Arun Manohar</b>
(62) Divisional to Application Number	:NA	<b>3)Dr.D.Nageswara Rao</b>
Filing Date	:NA	<b>4)Dr.D. NAGESWARA RAO</b>

(57) Abstract :

ABSTRACT: Title: Nanoparticles for Single Cylinder Spark Ignition Engine The present disclosure discloses usage of biodegradable sisal nanoparticles in the combustion chamber of a single cylinder spark ignition engine along with air fuel mixtures. The nanoparticle addition assembly 100 comprises a fuel measuring unit 101, an air measuring unit 102, a temperature measuring unit 103 and a nanoparticle regulating unit 104. The nanoparticle regulating unit 104 is configured to add biodegradable sisal nanoparticles into the cylinder. The nanoparticle regulating unit 104 further comprises a flow channel pipe 105, a storage chamber 106, and a valve 107 positioned before the storage chamber. The method allows a drop in the pollutant formations of CO and HC with the addition of sisal nanoparticles. The combustion efficiency is measured in terms of the maximum temperature attained in the cylinder.

No. of Pages : 27 No. of Claims : 10



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202031024943 A

(19) INDIA

(22) Date of filing of Application :13/06/2020

(43) Publication Date : 17/07/2020

(54) Title of the invention : A BIO-PESTICIDE COMPOSITION BASED ON PEPPERMINT EXTRACT AND ITS PREPARATION METHOD THEREOF

(51) International classification	:A01N63/00	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)Centurion University of Technology &amp; Management (CUTM)</b>
(32) Priority Date	:NA	Address of Applicant :At-Alluri Nagar Village, PO-R.Sitapur, Via-Uppalada, Paralakhemundi-761211, Gajapati District, Odisha, India.
(33) Name of priority country	:NA	(72)Name of Inventor :
(86) International Application No	:NA	<b>1)Preetha Bhadra</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure proposes a peppermint extract composition for the treatment of grey mould and microbial diseases in plants. The extract composition comprises pharmacophores such as menthone, menthofuran, beta pinen, and 1, 8 cineole that target endopolygalaturonases responsible for grey mould and microbial diseases in plants. The disclosure provides a peppermint extract composition for use as a potential biopesticide. The proposed composition provides a cost-effective drug with less harmful side effects for normal cells. Further, the composition aids to reduce the use of pesticides based on synthetic drugs.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202031024944 A

(19) INDIA

(22) Date of filing of Application :13/06/2020

(43) Publication Date : 17/07/2020

(54) Title of the invention : A BIOPESTICIDE COMPOSITION BASED ON BAEL EXTRACT AND ITS PREPARATION METHOD THEREOF

(51) International classification :A01N63/00  
(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

**1)Centurion University of Technology & Management (CUTM)**

Address of Applicant :At-Alluri Nagar Village, PO-R.Sitapur, Via-Uppalada, Paralakhemundi-761211, Gajapati District, Odisha, India.

(72)Name of Inventor :

**1)Preetha Bhadra**

(57) Abstract :

A Biopesticide Composition based on Bael Extract and its Preparation Method thereof The present disclosure proposes a potential biopesticide based on bael extract. The extract comprises of pharmacophores such as aegeline, skimmianine(1), d-limonene, marmelosin, allocryptopine to target different genes responsible for aphids in plants. The bael extract composition comprises 15 to 25 percentage of aegeline, 15 to 25 percentage of skimmianine(1), 15 to 25 percentage of d-limonene, 15 to 25 percentage of marmelosin, and 15 to 25 percentage of allocryptopine. The biopesticide extract composition interrupts with the enzymatic pathway of aphids by targeting the enzymes responsible. The bael extract composition is a cost-effective biopesticide with less harmful side effects for normal cells. The proposed composition reduces the use of pesticides based on synthetic drugs.

No. of Pages : 12 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202031024945 A

(19) INDIA

(22) Date of filing of Application :13/06/2020

(43) Publication Date : 17/07/2020

(54) Title of the invention : CUMIN EXTRACT BASED BIOPESTICIDE COMPOSITION

(51) International classification :A01N63/00  
(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)**Name of Applicant :**  
**1)Centurion University of Technology & Management (CUTM)**  
Address of Applicant :At-Alluri Nagar Village, PO-R. Sitapur, Via-Uppalada, Paralakhemundi-761211, Gajapati District, Odisha, India.  
(72)**Name of Inventor :**  
**1)Preetha Bhadra**

(57) Abstract :

The proposed disclosure provides a therapeutically effective cumin extract based biopesticide composition for targeted gene therapy with proven pharmacological activities for the treatment of wilt disease. The formulation of cumin extract based biopesticide composition comprises of pharmacophores such as berberine, p-coumaric, saponins and 4-isopropylbenzoic acid. The cumin composition is formulated as natural drug for microbial diseases in plants without harmful side effects for normal cells.

No. of Pages : 15 No. of Claims : 6



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202031024946 A

(19) INDIA

(22) Date of filing of Application :13/06/2020

(43) Publication Date : 17/07/2020

(54) Title of the invention : METHI EXTRACT BASED BIOPESTICIDE COMPOSITION

(51) International classification :A01N63/00  
(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

**1)Centurion University of Technology & Management (CUTM)**

Address of Applicant :At-Alluri Nagar Village, PO-R. Sitapur, Via-Uppalada, Paralakhemundi-761211, Gajapati District, Odisha, India.

(72)Name of Inventor :

**1)Preetha Bhadra**

(57) Abstract :

The proposed disclosure provides a therapeutically effective methi extract based biopesticide composition for targeted gene therapy with proven pharmacological activities for the treatment of purple blotch disease. The formulation of methi extract based biopesticide composition comprises of pharmacophores such as trigoneline, trimentylcoumarin, carpaine, choline, methyl coumarin, and trigocoumarin. The methi composition is formulated as natural drug for microbial diseases without harmful side effects for normal cells. The composition helps to aid future medicine to be completely allied to the pharmacophores and reduces the usage of synthetic drugs.

No. of Pages : 15 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202031027644 A

(19) INDIA

(22) Date of filing of Application :29/06/2020

(43) Publication Date : 17/07/2020

(54) Title of the invention : EXTRACTION OF BIOACTIVE PRINCIPLES FROM OECOPHYLLA SMARAGDINA BASED ANTIBACTERIAL COMPOSITION

(51) International classification	:A01N63/00	(71) <b>Name of Applicant :</b>
(31) Priority Document No	:NA	<b>1)Centurion University of Technology &amp; Management (CUTM)</b>
(32) Priority Date	:NA	Address of Applicant :At-Alluri Nagar Village, PO-R.Sitapur, Via-Uppalada, Parlakhemundi-761211, Gajapati District, Odisha, India.
(33) Name of priority country	:NA	(72) <b>Name of Inventor :</b>
(86) International Application No	:NA	<b>1)Chinmaya Chidananda Behera</b>
Filing Date	:NA	<b>2)Dr.Amulyaratna Behera</b>
(87) International Publication No	: NA	<b>3)Dr.Priyanka Das</b>
(61) Patent of Addition to Application Number	:NA	<b>4)Mrs.Suchismeeta Behera</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The proposed disclosure provides a therapeutically effective extraction of bioactive principles from n-hexane and methanolic extracts of Oecophylla Smaragdina based antibacterial composition and screened for binding affinities towards various bacterial proteins for the respective species. The composition has the capability of being used as anti-oxidant and anti-microbes. The composition enhances the inhibitory properties of extracted compounds when compared to available marketed compounds.

No. of Pages : 24 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202031027645 A

(19) INDIA

(22) Date of filing of Application :29/06/2020

(43) Publication Date : 17/07/2020

(54) Title of the invention : EXTRACTION OF BIOACTIVE PRINCIPLES FROM OECOPHYLLA SMARAGDINA BASED ANTICANCER COMPOSITION

(51) International classification :A61K36/00

(31) Priority Document No :NA

(32) Priority Date :NA

(33) Name of priority country :NA

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :

**1)Centurion University of Technology & Management (CUTM)**

Address of Applicant :At-Alluri Nagar Village, PO-R.Sitapur, Via-Uppalada, Parlakhemundi-761211, Gajapati District, Odisha, India.

(72)Name of Inventor :

**1)Chinmaya Chidananda Behera**

**2)Dr.Amulyaratna Behera**

**3)Dr.Priyanka Das**

**4)Mrs.Suchismeeta Behera**

(57) Abstract :

The proposed disclosure provides a therapeutically effective extraction of bioactive principles from n-hexane and methanolic extracts of Oecophylla Smaragdina based anticancer composition and screened for binding affinities towards 4EKL, 3W32, and in vitro anticancer by inhibition of human cancer cell line growth. The composition has the capability of being used as anti-oxidant and anti-microbes. The composition enhances the inhibitory properties of extracted compounds when compared to available marketed compounds.

No. of Pages : 20 No. of Claims : 10



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202031027646 A

(19) INDIA

(22) Date of filing of Application :29/06/2020

(43) Publication Date : 17/07/2020

(54) Title of the invention : EXTRACTION OF BIOACTIVE PRINCIPLES FROM OECOPHYLLA SMARAGDINA BASED ANTI-FUNGAL COMPOSITION

(51) International classification :A61K36/00  
(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

**1)Centurion University of Technology & Management (CUTM)**

Address of Applicant :At-Alluri Nagar Village, PO-R.Sitapur, Via-Uppalada, Parlakhemundi-761211, Gajapati District, Odisha, India.

(72)Name of Inventor :

**1)Chinmaya Chidananda Behera**

**2)Dr.Amulyaratna Behera**

**3)Mr.Suman Kumar Mekap**

**4)Mrs.Suchismeeta Behera**

(57) Abstract :

The proposed disclosure provides a therapeutically effective extraction of bioactive principles from n-hexane and methanolic extracts of Oecophylla Smaragdina based anti-fungal composition and screened for binding affinities towards various fungal proteins for the respective species. The composition has the capability of being used as anti-oxidant and anti-microbes. The composition enhances the inhibitory properties of extracted compounds when compared to available marketed compounds.

No. of Pages : 21 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202031027647 A

(19) INDIA

(22) Date of filing of Application :29/06/2020

(43) Publication Date : 17/07/2020

(54) Title of the invention : EXTRACTION OF BIOACTIVE PRINCIPLES FROM OECOPHYLLA SMARAGDINA BASED MULTI TARGETING ANTI-SARS COMPOSITION

(51) International classification :A61K36/00  
(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

**1)Centurion University of Technology & Management (CUTM)**

Address of Applicant :At-Alluri Nagar Village, PO-R.Sitapur, Via-Uppalada, Parlakhemundi-761211, Gajapati District, Odisha, India.

(72)Name of Inventor :

**1)Chinmaya Chidananda Behera**

**2)Dr.Amulyaratna Behera**

**3)Dr.Gurudutta Pattnaik**

**4)Mrs.Suchismita Behera**

(57) Abstract :

The proposed disclosure provides a therapeutically effective extraction of bioactive principles from n-hexane and methanolic extracts of Oecophylla Smaragdina based multi-targeting anti-SARS composition and screened for binding affinities towards various Severe Acute Respiratory Syndrome Coronavirus-2 (SARS CoV-2) proteins for the respective species. The composition has the capability of being used as anti-oxidant and anti-microbes. The composition enhances the inhibition of the replication and multiplication of virus in the host cells when compared to presently repurposed drug molecules for the disease.

No. of Pages : 22 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202031027660 A

(19) INDIA

(22) Date of filing of Application :30/06/2020

(43) Publication Date : 17/07/2020

(54) Title of the invention : COMPACT SEMI-AUTOMATIC PAPER PEN AND PENCIL MAKING MACHINE

(51) International classification :B43K29/00  
(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No :NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

**1)Centurion University of Technology & Management (CUTM)**

Address of Applicant :At-Alluri Nagar Village, PO-R.Sitapur, Via-Uppalada, Parlakhemundi-761211, Gajapati District, Odisha, India

(72)Name of Inventor :

**1)Amiya Singh**  
**2)Prem Shankar Pandey**  
**3)Ahmed Raza**  
**4)Jamaluddin Khan**  
**5)Rezuwan Khan**

(57) Abstract :

The present disclosure proposes a compact semi-automatic paper pen and pencil making machine that reuses waste paper to roll and produce eco-friendly pens and pencils. The paper pen and pencil making machine 1S00 comprises a mounting base 101, an idle axle 102 fixed on one side of the mounting base 101, a driving axle 103 fixed on the other side of the mounting base 101 and connected to the idle axle 102 through a conveyor belt 104, a motor 105 coupled to the driving axle 103, an upper pressure plate 106a fixed on top of the mounting base 101 above the conveyor belt 104 and a lower pressure plate 106b below the conveyor belt 104, plurality of screw and spring adjustment units 107 configured on either side of the pressure plates 106a and 106b to fasten them to the mounting base 101. The machine is of simple design that consumes less power and lower maintenance. The machine aids to make pencils or pens with easier and simple process that takes only few steps. Thus, the proposed paper pen and pencil making machine is lightweight, occupies less space, and is portable.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202031027661 A

(19) INDIA

(22) Date of filing of Application :30/06/2020

(43) Publication Date : 17/07/2020

(54) Title of the invention : EXTRACTION OF BIOACTIVE PRINCIPLES FROM OECOPHYLLA SMARAGDINA BASED ANTI-DIABETIC COMPOSITION

(51) International classification	:A61K45/00	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)Centurion University of Technology &amp; Management (CUTM)</b>
(32) Priority Date	:NA	Address of Applicant :At-Alluri Nagar Village, PO-R. Sitapur, Via-Uppalada, Paralakhemundi-761211, Gajapati District, Odisha, India
(33) Name of priority country	:NA	
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	<b>1)Chinmaya Chidananda Behera</b>
(87) International Publication No	: NA	<b>2)Dr.Amulyaratna Behera</b>
(61) Patent of Addition to Application Number	:NA	<b>3)Mr.Suman Kumar Mekap</b>
Filing Date	:NA	<b>4)Mrs.Suchismeeta Behera</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The proposed disclosure provides a therapeutically effective extraction of bioactive principles from n-hexane and methanolic extracts of Oecophylla Smaragdina based and screened for binding affinities towards human Peroxisome proliferator-activated receptor gamma for the respective species. The composition has the capability of being used as anti-oxidant and anti-microbes. The composition enhances the inhibitory properties of extracted compounds when compared to available marketed compounds.

No. of Pages : 24 No. of Claims : 10





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

Application Details

APPLICATION NUMBER	202031035686
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	19/08/2020
APPLICANT NAME	1 . DR.SATYABRATA DASH 2 . DR.HEMRAJ SAINI 3 . DR.SUJATA CHAKARVARTY 4 . SWARNAPRABHA JENA 5 . SUBRAT KUMAR PRADHAN 6 . MR.BARADA P.PANIGRAHY 7 . DR.SUBASH CH. NATH 8 . DR.SUSANTA KUMAR ROUT
TITLE OF INVENTION	AUTOMATED PORTABLE DIAGNOSTIC SYSTEM AND METHOD FOR THE PATIENTS IN COVID HOSPITALS
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	dash_satyabrata@yahoo.co.in
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	19/08/2020
PUBLICATION DATE (U/S 11A)	11/09/2020

Application Status

			<a href="#">View Documents</a>
--	--	--	--------------------------------



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

### Application Details

APPLICATION NUMBER	202031039046
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	10/09/2020
APPLICANT NAME	1 . DR.SATYABRATA DASH 2 . DR.HEMRAJ SAINI 3 . DR.SUJATA CHAKARVARTY 4 . SWARNAPRABHA JENA 5 . SUBRAT KUMAR PRADHAN 6 . MR.BARADA P.PANIGRAHY 7 . MR.SUBAS CH.NATH 8 . DR.SUSANTA KUMAR ROUT
TITLE OF INVENTION	METHOD AND AUTOMATED SAFETY EQUIPMENT FOR QUICK DETECTION OF BIOLOGICAL EVENTS OF HOSPITALIZED PATENTS FOR COVID THEREOF.
FIELD OF INVENTION	BIOTECHNOLOGY
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	dash_satyabrata@yahoo.co.in
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	10/09/2020
PUBLICATION DATE (U/S 11A)	16/10/2020

### Application Status