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CRITERION 3 - RESEARCH, INNOVATIONS AND EXTENSION

3.3.4 TOTAL NUMBER OF PATENTS/ COPYRIGHTS PUBLISHED/AWARDED/TECHNOLOGY-TRANSFERRED DURING THE LAST FIVE YEARS

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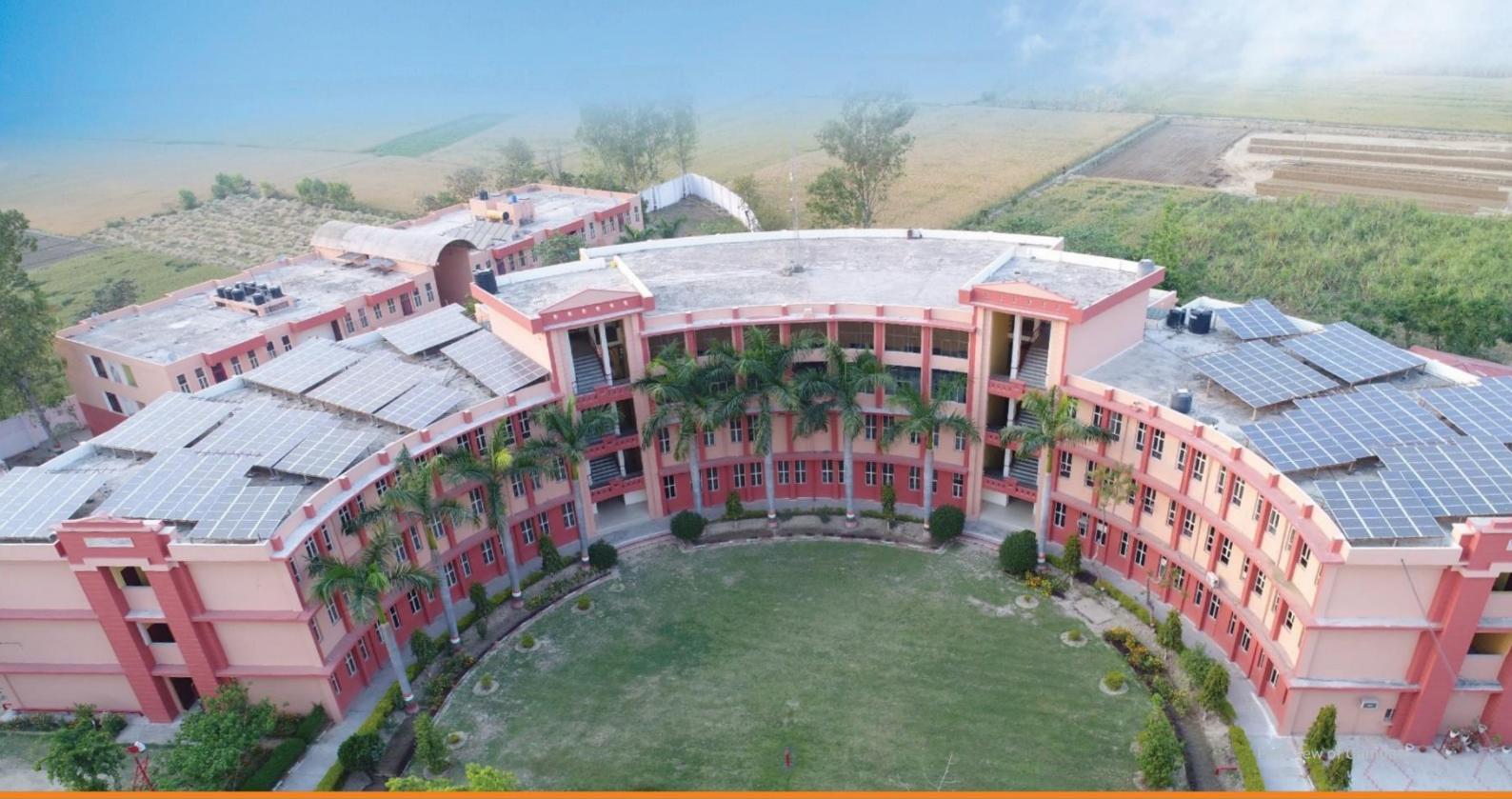

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This is to certify that the Patents/ Copyrights published/awarded during the last five years are mentioned below:

Sr. No	Name of the Patentor/ Copyright awardee	Patent/Copyright Number	Title of the patent/Copyright
1.	Mayank Yadav	408281-001	Apparatus For Detecting Neuropsychological Behavioural Activity In Rodents
2.	Ravikant Gupta, Mukesh Maithani, Mayank Yadav	399319-001	Distillation Apparatus For Extraction Of Volatile Oil
3.	Sarita Devi, Sachin Kumar, Prof. (Dr.) Ranjit Singh, Prof. (Dr.) Divya Prakash, Prof. (Dr.) Rajiv Dutta, Dr. Niladry Ghosh	202211057716 A	A Formulation For Treating Abscess And Method of Preparation Thereof
4.	Prof. Himani Bajaj	202311085808A	Doxorubicin Loaded Engineered Nanoparticles For Targeted Breast Cancer
5.	Ranjit Singh, Jyoti Saxena	Uk Design Patent Design #6330017	Smart Apparatus For Extraction Of Active Plant Constituents For Medicinal Purposes Grant Date
6.	Mr. Amitabh Tripathi, Dr. Bhupendra Chauhan, Dr. AlokMukerjee, Ms. Deepika Rani, Mr. Vipin Chaudhary, Mr. Nikunj Agarwal, Mr. Amit Kumar Mishra, Mr. Amit Kumar Singh, Mrs. Bhawana Singh	202311019886 A	Orodispersible Tablet Formulation Of Modafinil And Caffeine For Narcolepsy And Preparation Method Thereof
7.	Tarun Kumar, Ranjit Singh, Vinay Pandit	202311072263A	Doxorubicin Anchored PLGA Nanoparticles Against Breast Cancer
8.	Ms. Deepika Rani, Dr. Ranjit Singh, Mr. Vinit Kumar Sharma, Dr. Bhupendra Chauhan, Mr.	202311050465 A	Antifungal Combination Of Beauvericin And Miconazole For The Prevention Of Fungal Imfections

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	Vipin Chaudhary, Mr. Azhar Khan		
9.	Bharat Khurana	202311026848 A	Herbal Based Mosquito Repellent
10.	Ms. Deepika Rani, Dr. Ranjit Singh, Dr. Madan L. Kaushik, Dr. Bhupendra Chauhan, Mr. Vinit Kumar Sharma, Ms. VeenuChoudhary	202311027781 A	Fungicidal Combination For The Prevention Of C. Albicans Caused Oral Infections
11.	Dr. Himani Bajaj, Dr. MayankYadav, Dr. SeemaBisht Chauhan, DeepikaGhai, Dr. AshutoshBadola	202311027810 A	Methods And System For Preparing And Dispensing 3d Printed Pharmaceutical Formulations With Enhanced Drug Release And Bioavailability
12.	Bharat Khurana	202311027945 A	Instant Tea Tablet And Preparing Process
13.	Dr. Divya Prakash, Sarita Devi, Dr. Tarun Kumar Sharma, Mansi Saini	202211057716 A	Method For Degradation of Used Sanitary Pads
14.	HeranmoyMaity, Mousam Chatterjee, AritraBhowmik, Ms. MeenakshiKandwal, Ms. Anjali Rana, Dr. MayankYadav, Dr. Himani Bajaj, Ms. Rita Saini	202311005679 A	Novel Iot Based Smart Baby Monitor With Heart Rate & Oxygen As Sleep Quality Indicators
15.	Dr. Divya Prakash, Prof. Ranjit Singh, Prof. Tarun Sharma, Dr. JyotiSihag, AyushMadan	202111028653 A	System And Method For Monitoring Soil Quality Parameters
16.	DarshGautam, Ranjit Singh, Himanshu, Chaurasia, RiteshRana	202211012122A	Method For Preparation Of Solid Lipid Nanoparticles Gel For Topical Ocular Therapy
17.	Verma Preeti, Gupta Ajay Kumar, Chauhan Bhupendra, Rajendra A, Singh Anju	2022/07352(Republic Of South Africa)	A Composition And Methods For Synthesis Of 9 Substituted Purine Analogues

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Sr. No	Name of the Patentor/ Copyright awardee	Patent/Copyright Number	Title of the patent/Copyright
18.	Niladry S Ghosh, Jyoti and others	202211029646 A	2-Heterocyclic Substitutes 1h-Benjimidazole And Their Derivetives And Methods For Preparation Thereof
19.	Dr. Sarvesh Kumar, Dr. PeeushSinghal, Dr. RituVishnoiSinghal, Dr. Manisha, Dr. Vijay Jyoti Kumar, Prof. (Dr.) Ranjit Singh, Dr. SomeshThapliyal, Mr. LalatenduMohanty	202211020399A	Transdermal Patch Formulation And Preparation Thereof
20.	Ritesh, Ranjit Singh, HimanshuChaurasia, DarshGautam	202211009695A	Preparation And Characterization Of Dapagliflozen Loaded Polymeric Nanoparticles
21.	Zulphikar Ali, Jaiparkash	202111054366 A	Adaptive Breathing Exercise Device
22.	BhupendraChahan, Ranjit Singh	202111054367 A	Automated Gait Improvement Device
23.	Deepika Rani, Ranjit Singh	202111054368 A	Automated Blackhead Removal Device
24.	Niladry S Ghosh, MadanKaushik	202111054369 A	Automated Scoliosis Treatment Device
25.	ArifNaseer, MayankYadav	202111054370 A	Smart Ear Examination Device
26.	Dr. Ranjit Singh, Deepika Rani	202111054371 A	Hands-Free Mobility Aid Device
27.	MadanKaushik, ArifNaseer	202111054372 A	Spinal Pain Relief Based Exercising Device
28.	Dr. Ranjit Singh, Niladry Ghosh	202111054373 A	Automated Medication Administration Device
29.	ArifNaseer, Himani Bajaj	202111054374 A	Automated Paper Chromatography Device
30.	BhupendraChahan,, Zulphikar Ali	202111054375 A	Automated Column Chromatography Device
31.	Niladry S Ghosh, MadanKaushik	202111054393 A	Leg Exercising Device

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Sr. No	Name of the Patentor/ Copyright awardee	Patent/Copyright Number	Title of the patent/Copyright
32.	MayankYadav, Zulphikar Ali	202111054394 A	Oral Wound Curing Device
33.	Dr. Bhupendra Chauhan, Deepika Rani	202111054395 A	Neck Exercising Device
34.	Jaiparkash,, AnirudhDev Singh	202111054397 A	Back Pain Therapeutic Device
35.	Ranjit Singh, Himani Bajaj	202111054396 A	Automated Friability Testing Device
36.	Sanjay Kumar, Ranjit Singh, Hayat Mukthar	202111040977A	A Method For Preparing An Ointment For Burn Wound Healing From Shorea Robusta Roots Extract
37.	Anjana Devi, Himanshu Chaurasia	20211102836A	A Method For Optimization And Characterization Of Efinaconazole Transferosomal Gel
38.	Prof. Mahipal Singh, Prof. Rakesh Jain	202111018376 A	SINUSOIDAL VOLTAGE METER
39.	Ms. Pinki Singh, Dr. MadanKaushik, Ms. Deepika Rani, Dr. Ranjit Singh, Dr. Bhupendra Chauhan	202111054722A	Methods For The Estimation Of Favipiravir In Pharmaceutical Formulation
40.	NiladrySekhar Ghosh and Ranjit Singh	202011029257 A	Biogenic Synthesis Process Of Making Gold Nanoparticles Using PolygonatumVerticillatum
41.	Shoyab hussan	201811043306 A	A Pedal Powered Zeolite Cooling System and Methods Thereof
42.	NiladrySekhar Ghosh, Dr, Ritu M. Gilhotra, Dr. Ranjit Singh	201911045640 A	Synthesis Of Metallic Nanoparticles From Sheep Milk

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INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

सत्यमेव जयते

ORIGINAL
क्रम सं/ Serial No. : 163067

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

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

डिजाइन सं. / Design No. : 408281-001

तारीख / Date : 21/02/2024

पारस्परिकता तारीख / Reciprocity Date* :

देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो *APPARATUS FOR DETECTING NEUROPSYCHOLOGICAL BEHAVIORAL ACTIVITY IN RODENTS* से संबंधित है, का पंजीकरण, श्रेणी 24-02 में 1.Dr. Mayank Yadav 2. Dr Jeetendra Kumar Gupta 3.Shankar S Khandare 4.Dr. Laxmikant M.Purane 5.Omkar Ashok Devade 6.Dr Shyamalendu Tripathy 7.Dr Kamalakanta Ray 8.Dontha Swamy Charan के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

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

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

जारी करने की तिथि :
Date of Issue : 05/04/2024

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ORIGINAL
क्रम सं/ Serial No. : 151443

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

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डिजाइन सं. / Design No. : 399319-001

तारीख / Date : 06/11/2023

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

जारी करने की तिथि :
Date of Issue : 04/01/2024

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/10/2022

(21) Application No.202211057716 A
(43) Publication Date : 26/01/2024

(54) Title of the invention : "A FORMULATION FOR TREATING ABSCESS AND METHOD FOR PREPARATION THEREOF"

(51) International classification :A61K0035320000, A01N0047460000, A01N0065000000, A61K0008920000, A61P0031040000
(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)Shobhit University, Gangoh
Address of Applicant :Adarsh Babu Vijendra Marg Institutional Area, Gangoh Uttar Pradesh India Gangoh ---------- ----------
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Sarita Devi
Address of Applicant :Assistant Professor, School of Biological Engineering & Sciences, Shobhit University Gangoh Uttar Pradesh India 247341 Gangoh ---------- ----------
2)Sachin Kumar
Address of Applicant :Owner of Dairy farm, Village + Post – Machrauli, Dist.- Saharanpur Gangoh Uttar Pradesh India 247341 Gangoh ---------- ----------
3)Prof. (Dr.) Ranjit Singh
Address of Applicant :Vice Chancellor, Shobhit University, Gangoh Gangoh Uttar Pradesh India 247341 Gangoh ---------- ----------
4)Prof. (Dr.) Divya Prakash
Address of Applicant :Dean, School of Biological Engineering & Life Sciences, Shobhit deemed to be University, Meerut Uttar Pradesh India 250110 Meerut ---------- ----------
5)Prof. (Dr.) Rajiv Dutta
Address of Applicant :Dean, School of Biological Engineering & Sciences, Shobhit University Gangoh Uttar Pradesh India 247341 Gangoh ---------- ----------
6)Dr. Niladry Ghosh
Address of Applicant :Professor, Adarsh vijendra institute of Pharmaceutical Sciences, Shobhit University Gangoh Uttar Pradesh India 247341 Gangoh ---------- ----------

(57) Abstract :
"A FORMULATION FOR TREATING ABSCESS AND METHOD FOR PREPARATION THEREOF" The present invention relates to a formulation for the treatment of abscess and preparation method thereof. The formulation comprises of Mustard oil (Allyl isothiocyanate) and Ral safaid (Shorea robusta). The method of preparation of the formulation first comprise collecting mustard oil and Ral safaid. Ral safaid was washed in tap water and then air dried. Mustard oil was boiled and crushed Ral Safaid was added. The formed mixture was boiled until the consistency became semisolid and smooth. Next it was washed continuously with tap water while stirring until the creamy material and water got separated. The paste was cooled and applied twice a day approximately 10 gms at a time to the affected area. Topical application of the developed formulation reduced the size of abscess by about 40% after five days; and by about 95% after 10 days. It is very effective, low cost and time saving remedy for treating swelling in buffalo neck. Figure 1

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/12/2023

(21) Application No.202311085808 A
(43) Publication Date : 19/01/2024

(54) Title of the invention : DOXORUBICIN-LOADED ENGINEERED NANOPARTICLES FOR TARGETED BREAST CANCER THERAPY

(51) International classification :A61K0031704000, A61P0035000000, A61K0009510000, A61K0009500000, A61K0009000000
(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)Prof. (Dr.) Himani Bajaj
Address of Applicant :Professor, Adarsh Vijendra Institute of Pharmaceutical Sciences, Shobhit University, Gangoh, Saharanpur, Uttar Pradesh, Pin Code: 247341 ---------- ----------
2)Mrs. Shweta Sharma
3)Mrs. Kirti Goel
4)Ms. Naureen Afrose
5)Mr. Rideb Chakraborty
6)Mr.Arghya Paria
7)Mrs. Sancharee Mondal
8)Mr. Dibyajyoti Kalita
9)Mrs. Sunita Patidar
10)Mrs. Ekta Yadav
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Prof. (Dr.) Himani Bajaj
Address of Applicant :Professor, Adarsh Vijendra Institute of Pharmaceutical Sciences, Shobhit University, Gangoh, Saharanpur, Uttar Pradesh, Pin Code: 247341 ---------- ----------
2)Mrs. Shweta Sharma
Address of Applicant :Assistant Professor, Sachdeva College of Pharmacy, Gharuan, Mohali, Punjab, Pin Code: 140413 ---------- ----------
3)Mrs. Kirti Goel
Address of Applicant :Assistant Professor, Maharishi Markandeshwar College of Pharmacy, Maharishi Markandeshwar (Deemed to be University) Ambala, Haryana, Pin Code: 133207. ---------- ----------
4)Ms. Naureen Afrose
Address of Applicant :Assistant Professor, Bengal College of Pharmaceutical Sciences and Research, Basu Sarani Burdwan, Bidhannagar, Durgapur, West Bengal, Pin Code: 713212 ---------- ----------
5)Mr. Rideb Chakraborty
Address of Applicant :Assistant Professor, Bengal College of Pharmaceutical Sciences and Research, Basu Sarani Burdwan, Bidhannagar, Durgapur, West Bengal, Pin Code: 713212 ---------- ----------
6)Mr.Arghya Paria
Address of Applicant :Assistant Professor, Sanaka Educational Trust's Group of Institutions, Malandighi Durgapur, West Bengal, Pin Code: 713212 ---------- ----------
7)Mrs. Sancharee Mondal
Address of Applicant :Assistant Professor, School of Pharmacy, Techno India University, 2nd Floor EM-4, Sector-V, Salt Lake, Kolkata-700091, West Bengal, India ---------- ----------
8)Mr. Dibyajyoti Kalita
Address of Applicant :PhD Research Scholar, Assam down town University, Sankar Madhab Path, Gandhi Nagar, Panikhaiti, Guwahati, Assam, Pin Code: 781026 ---------- ----------
9)Mrs. Sunita Patidar
Address of Applicant :Associate Professor, Swami Vivekanand College of Pharmacy, Khandwa Road, Indore, Madhya Pradesh, Pin Code: 452020 ---------- ----------
10)Mrs. Ekta Yadav
Address of Applicant :Assistant Professor, Swami Vivekanand College of pharmacy, Khandwa Road, Indore, Madhya Pradesh, Pin Code: 452020. ---------- ----------

(57) Abstract :
The present invention relates to doxorubicin-loaded engineered nanoparticles designed for targeted breast cancer therapy. The formulation utilizes a 150 mg Poly(lactic-co-glycolic acid) (PLGA) matrix, ensuring sustained drug release, with a 5% Polyvinyl alcohol (PVA) stabilizer. Doxorubicin Hydrochloride (DOX) at 2 mg/mL is encapsulated in the PLGA matrix using Dichloromethane, employing a double emulsion technique. A 1% Calcium Chloride crosslinking agent promotes nanoparticle stability. Characterization via Dynamic Light Scattering and Transmission Electron Microscopy confirms uniformity and an 80 nm size. Encapsulation efficiency is measured at 75%. In vitro drug release kinetics demonstrate a sustained pattern, well-fitted to a first-order kinetic model ($k = 0.02\ h^{1}$). Cellular uptake studies reveal a threefold increase compared to traditional administration, showcasing the nanoparticles' enhanced efficiency.

No. of Pages : 15 No. of Claims : 4

Intellectual Property Office

Certificate of Registration for a UK Design

Design number: 6330017

Grant date: 14 December 2023

Registration date: 01 December 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. Ranjit Singh, Jyoti Saxena

in respect of the application of such design to:

Smart apparatus for extraction of active plant constituents for medicinal purposes

International Design Classification:
Version: 14-2023
Class: 24 MEDICAL AND LABORATORY EQUIPMENT
Subclass: 01 APPARATUS AND EQUIPMENT FOR DOCTORS, HOSPITALS AND LABORATORIES

Adam 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.

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1. IN202311019886 - ORODISPERSIBLE TABLET FORMULATION OF MODAFINIL AND CAFFEINE FOR NARCOLEPSY AND PREPARATION METHOD THEREOF

Office
India

Application Number
202311019886

Application Date
22.03.2023

Publication Number
202311019886

Publication Date
12.05.2023

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A

IPC
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Applicants
Shobhit University

Inventors
Mr. Amitabh Tripathi
Dr. Bhupendra Chauhan
Dr. Alok Mukerjee
Ms. Deepika Rani
Mr. Vipin Chaudhary
Mr. Nikunj Agarwal
Mr. Amit Kumar Mishra
Mr. Amit Kumar Singh
Mrs. Bhawana Singh

Title

(EN) ORODISPERSIBLE TABLET FORMULATION OF MODAFINIL AND CAFFEINE FOR NARCOLEPSY AND PREPARATION METHOD THEREOF

Abstract

(EN) ABSTRACTORODISPERSIBLE TABLET FORMULATION OF MODAFINIL AND CAFFEINE FOR NARCOLEPSY AND PREPARATION METHOD THEREOFThe present invention provides a modafinil and caffeine combined oral tablet composition, comprising of Modafinil 50 mg; Caffeine 50 mg; Sodium Starch Glycolate 40 mg; Menthol 20 mg; Microcrystalline Cellulose 2 mg; Saccharin sodium 3 mg; Magnesium stearate 2 mg; Talc 2 mg; Orange flavour 3 mg; and Mannitol 200 mg. The process for the preparation of modafinil and caffeine combined oral tablet, comprising of passing Modafinil, Caffeine, Sodium Starch Glycolate, Menthol, Saccharin sodium and mannitol through sieve before mixing; weighing accurate quantity of each ingredient and uniformly mixing by using a glass mortar and pestle and dry blending for a period of 10 minutes; adding alcoholic solution of Microcrystalline Cellulose to the mixture in a specified quantity and obtaining a wet coherent mass; passing the resulting wet mass through sieve no. 30 and collecting the granules; drying obtained granules and vacuum drying at temperature of 65°C for 24 h to speed up the sublimation of menthol; lubricating dried granules with required quantity of magnesium stearate and talc; and compacting the homogenous mixture into tablets on a rotary tablet machine. The composition of the present invention has potential usefulness as anti-narcoleptic agents.

(12) PATENT APPLICATION PUBLICATION
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(21) Application No.202311072263 A
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(54) Title of the invention : DOXORUBICIN ANCHORED PLGA NANOPARTICLES AGAINST BREAST CANCER

(51) International classification :A61K0009000000, A61K0009510000, A61K0039395000, A61K0031704000, A61K0047100000
(86) International Application No :NA
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Filing Date :NA

(71)**Name of Applicant :**
1)Mr. Tarun Kumar
Address of Applicant :Research Scholar, Adarsh Vijayndra Institute of Pharmaceutical Sciences, Shobhit University Gangoh, Saharanpur, UP, India Saharanpur ---------- ----------
2)Dr. Ranjit Singh
3)Dr. Vinay Pandit
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Mr. Tarun Kumar
Address of Applicant :Research Scholar, Adarsh Vijayndra Institute of Pharmaceutical Sciences, Shobhit University Gangoh, Saharanpur, UP, India Saharanpur ---------- ----------
2)Dr. Ranjit Singh
Address of Applicant :Vice- Chancellor, Shobhit University Gangoh, Saharanpur, UP, India Saharanpur ---------- ----------
3)Dr. Vinay Pandit
Address of Applicant :Professor & HOD, Department of Pharmaceutics, Laureate Institute of Pharmacy, Kathog, Himachal Pradesh-176031, India Kathog ---------- ----------

(57) Abstract :
ABSTRACT DOXORUBICIN ANCHORED PLGA NANOPARTICLES AGAINST BREAST CANCER The present disclosure relates to a pharmaceutical formulation comprising loading of doxorubicin into poly(lactic-co-glycolic acid) (PLGA) in the ratio of 50:50 to form nanoparticles protected by a viscous layer barrier. The present disclosure also relates to a method for preparing the pharmaceutical formulation. Figure 1

No. of Pages : 27 No. of Claims : 4

1. IN202311050465 - ANTIFUNGAL COMBINATION OF BEAUVERICIN AND MICONAZOLE FOR THE PREVENTION OF FUNGAL INFECTIONS

Office
India

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202311050465

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26.07.2023

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A

IPC
A61P C12Q A61K

Applicants
Shobhit University

Inventors
Ms. Deepika Rani
Dr. Ranjit Singh
Mr. Vinit Kumar Sharma
Dr. Bhupendra Chauhan
Mr. Vipin Chaudhary
Mr. Azhar Khan

Title
(EN) ANTIFUNGAL COMBINATION OF BEAUVERICIN AND MICONAZOLE FOR THE PREVENTION OF FUNGAL INFECTIONS

Abstract
(EN) ABSTRACTANTIFUNGAL COMBINATION OF BEAUVERICIN AND MICONAZOLE FOR THE PREVENTION OF FUNGAL INFECTIONSThe present invention provides a fungicidal combination, comprising a combination of Miconazole and Beauvericin in a synergistically effective amount together; wherein the Minimal Inhibitory Concentration of Miconazole reduced to 0.00095 µg/ml when used in combination with Beauvericin against C. albicans. The fungicidal combination, wherein the fungicidal combination is effective to prevent C. albicans infections. The fungicidal combination, wherein the different concentrations of fungicidal combinations used in the range of 0 to 10µg/ml. The fungicidal combination, wherein the Fractional Inhibitory Concentration of miconazole 0.0175 and Beauvericin is 0.0036 and fungicidal combination of Miconazole and Beauvericin is 0.0211. The fungicidal combination, wherein the amount of Miconazole used is 0.25 µg/mL and the Beauvericin is 8 µg/mL is effective against C. albicans. The fungicidal combination, wherein the synergism fungicidal combination of Miconazole and Beauvericin shows a potential antifungal therapy. The fungicidal combination, wherein the fungicidal combination of Miconazole and Beauvericin gave better antifungal efficacy in preventing C. albicans. An anti-microbial activity assay for determination of Minimum Inhibitory Concentration, comprising of taking 100 µl of fungal culture and C. albicans in defined wells of a 96 well plate; adding treatment compound of Beauvericin alone and different combinations for Beauvericin and Miconazole both in plates; using Fluconazole 5 µg/ml as Positive Control in plates; incubating the plates at 37°C for 24 hours and after adding 10µl of Alamar blue to the culture and further incubating for 12 hours; reading plate at 540 and 600nm and percentage viability of cells with respect to control using appropriate formula. The present invention provides combination for Beauvericin and Miconazole wherein Beauvericin acts as a potentiator of antifungal miconazole activity against C. albicans infections.

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(21) Application No 202311026848 A
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(54) Title of the invention : HERBAL BASED MOSQUITO REPELLENT

(51) International classification :A01M 130000, A01M 291200, A01N 650000, A61K 083400, A61Q 170200
(86) International Application No :PCT
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(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)Mr. Gaurav Khurana
Address of Applicant :Research Scholar CTU, Ludhiana & Associate Professor, Jcdm College of Pharmacy, Sirsa, Haryana 125055, India .....
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Mr. Gaurav Khurana
Address of Applicant :Research Scholar CTU, Ludhiana & Associate Professor, Jcdm College of Pharmacy, Sirsa, Haryana 125055, India sirsa .....
2)Dr. Saurabh Sharma
Address of Applicant :Director-Principal, Chandigarh College of Pharmacy, Landran,Punjab-140307, India Landran .....
3)Dr. Vir Vikram Sharma
Address of Applicant :Head & Principal, School of Pharmacy, CTU Ludhiana, Punjab-142024, India Ludhiana .....
4)Dr. Suchit Vardhan
Address of Applicant :Associate Professor, Mechanical Engineering Department, CTU University, Ludhiana, Punjab-142024, India Ludhiana .....
5)Dr. Bharat Khurana
Address of Applicant :Associate Professor, Pharmaceutics AVIPS, Shobhit University, Gangoh, Saharanpur, U.P.-247341, India. Gangoh .....
6)Dr. Daisy Arora
Address of Applicant :Professor, Panipat Institute of Engineering and Technology (PIET), Panipat, Haryana-132101,India panipat .....
7)Mrs. Komal Khurana
Address of Applicant :Associate Professor, Jcdm College of Pharmacy, Sirsa, Haryana-125055, India sirsa .....

(57) Abstract
HERBAL BASED MOSQUITO REPELLENT ABSTRACT The present invention relates to a method of making herbal based mosquito repellent. The composition of the present subject matter comprising, Neem Oil, Clove Oil, Citronella Oil, Ginger, Turmeric, Tulsi, Garlic with Peppermint Oil, Gum acacia, and herbs. The present formulation has antifungal and antibacterial properties too.

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

1. IN202311027781 - FUNGICIDAL COMBINATION FOR THE PREVENTION OF C. ALBICANS CAUSED ORAL INFECTIONS

Office
India

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202311027781

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IPC
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Applicants
Shobhit University

Inventors
Ms. Deepika Rani
Dr. Ranjit Singh
Dr. Madan L. Kaushik
Dr. Bhupendra Chauhan
Mr. Vinit Kumar Sharma
Ms. Veenu Choudhary

Title
(EN) FUNGICIDAL COMBINATION FOR THE PREVENTION OF C. ALBICANS CAUSED ORAL INFECTIONS

Abstract
(EN) ABSTRACTFUNGICIDAL COMBINATION FOR THE PREVENTION OF C. ALBICANS CAUSED ORAL INFECTIONSThe present invention provides a fungicidal combination, comprising, fungicidally effective amount of voriconazole; and fungicidally effective amount of beauvericin. The MIC [minimum inhibitory concentration] of voriconazole reduced to 0.0039µg/ml when used in combination with beauvericin against C. albicans. The different concentrations of fungicidal combinations of voriconazole and beauvericin used in the range of 0 to 10µg/ml. The fractional inhibitory concentration of fungicidal combination of voriconazole and beauvericin 0.023. The fungicidal combination, wherein the MIC of voriconazole reduced to 0.0039µg/ml when used in combination with beauvericin against C. albicans. The fungicidal combination of voriconazole and beauvericin of the present invention is effective in preventing C. albicans caused oral infections.

1. IN202311027810 - METHODS AND SYSTEMS FOR PREPARING AND DISPENSING 3D PRINTED PHARMACEUTICAL FORMULATIONS WITH ENHANCED DRUG RELEASE AND BIOAVAILABILITY

Office
India

Application Number
202311027810

Application Date
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202311027810

Publication Date
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IPC
A61F A61K

Applicants
Dr. Himani Bajaj
Dr. Mayank Yadav
Dr. Seema Bisht Chauhan
Deepika Ghai
Dr. Ashutosh Badola

Inventors
Dr. Himani Bajaj
Dr. Mayank Yadav
Dr. Seema Bisht Chauhan
Deepika Ghai
Dr. Ashutosh Badola

Title
(EN) METHODS AND SYSTEMS FOR PREPARING AND DISPENSING 3D PRINTED PHARMACEUTICAL FORMULATIONS WITH ENHANCED DRUG RELEASE AND BIOAVAILABILITY

Abstract
(EN) The present invention relates to methods and systems for preparing and dispensing 3D printed pharmaceutical formulations with enhanced drug release and bioavailability. The invention involves a novel approach to 3D printing of pharmaceutical formulations, wherein the drug release behaviour and bioavailability of the printed formulations are optimized through real-time adjustment of printing parameters based on drug release profiling. The system includes a 3D printer (102) and a drug release profiling module (104). The 3D printer (102) is configured to print pharmaceutical formulations layer by layer, using printing parameters such as printing speed, temperature, layer thickness, and material composition. The drug release profiling module (104) analyses the drug release profiles of the printed formulations and generates recommendations for optimizing the drug release behaviour.

1. IN202311027945 - INSTANT TEA TABLET AND ITS PREPARING PROCESS

Office
India

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202311027945

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Applicants
Mr. Gaurav Khurana

Inventors
Mr. Gaurav Khurana
Dr. Anupama Setia
Prof. Priyanka Siwach
Dr. Rakesh kumar Marwaha
Mr. Parveen Goyal
Dr. Naveen Goyal
Dr. Saurabh Sharma
Dr. Vir Vikram Sharma
Dr. Daisy Arora
Dr. Bharat Khurana
Dr Vineet Kumar Rai
Mrs. Komal Goswami

Title
(EN) INSTANT TEA TABLET AND ITS PREPARING PROCESS

Abstract
(EN) ABSTRACT INSTANT TEA TABLETS AND PREPARATION METHOD THEREOF The invention discloses instant tea tablets and a preparation method thereof. According to the invention, instant tea is mixed with auxiliary materials, and the mixture is processed into tablets. Therefore, instant tea tablets which are easy to carry are obtained. The instant tea tablets can be put into drinking water and directly drunk, and can be directly chewed.

1. IN202111052689 - METHOD FOR DEGRADATION OF USED SANITARY PADS

Office
India

Application Number
202111052689

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17.11.2021

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202111052689

Publication Date
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Publication Kind
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Applicants
Shobhit University

Inventors
Dr. Divya Prakash
Sarita Devi
Dr. Tarun Kumar Sharma
Mansi Saini

Title
(EN) METHOD FOR DEGRADATION OF USED SANITARY PADS

Abstract
(EN) The present invention relates to a method for the degradation of used sanitary pads in which the sanitary pads are washed with alcohol which soaks the blood cells from the mixture and the mixture is then drained into a container. The bulk of those pads is then washed with alcohol and the used alcohol can be used in cleaning of drains or as fuel in agriculture engines. The remaining pad material is bulk of wood pulp. The bulk is then suspended in boiling water which melts the plastic, after cold shock the melted plastic is easy to separate from the bulk of wood pulp.

1. IN202311005679 - NOVEL IOT BASED SMART BABY MONITOR, WITH HEART RATE & OXYGEN AS SLEEP QUALITY INDICATORS

Office
India

Application Number
202311005679

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Publication Date
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Applicants
Heranmoy Maity
Mousam Chatterjee
Aritra Bhowmik
Ms. Meenakshi Kandwal
Ms. Anjali Rana
Dr. Mayank Yadav
Dr. Himani Bajaj
Ms. Rita Saini

Inventors
Heranmoy Maity
Mousam Chatterjee
Aritra Bhowmik
Ms. Meenakshi Kandwal
Ms. Anjali Rana
Dr. Mayank Yadav
Dr. Himani Bajaj
Ms. Rita Saini

Title
[EN] NOVEL IOT BASED SMART BABY MONITOR, WITH HEART RATE & OXYGEN AS SLEEP QUALITY INDICATORS

Abstract
[EN] The present invention relates to a novel IOT based smart baby monitor system (100), with heart rate & oxygen as sleep quality indicators. The system (100) comprises an owlet dream sock configured to safely and accurately track the baby vitals. An owlet dream sock comprises a plurality of sensors and a controller. The plurality of sensors configured for monitoring baby vitals. the plurality of sensors comprises heart rate sensor, oxygen sensor, motion sensor, and wake up sensor. The controller operationally connected with the plurality of sensors, configured to manage the baby vitals through owlet dream application. These sleep quality indicators help to make adjustments to improve restful sleep for babies during every nap and bedtime.

1. IN202111028653 - SYSTEM AND METHOD FOR MONITORING SOIL QUALITY PARAMETERS

Office
India

Application Number
202111028653

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25.06.2021

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202111028653

Publication Date
24.02.2023

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A

IPC
G01N A01C H04W A01B H04L

Applicants
Shobhit University, Gangoh

Inventors
Dr. Divya Prakash
Prof. Ranjit Singh
Dr. Tarun Kumar Sharma
Dr Jyoti Sihag
Mr. Ayush Madan

Title
(EN) SYSTEM AND METHOD FOR MONITORING SOIL QUALITY PARAMETERS

Abstract
(EN) A system (100) for monitoring soil quality parameters, comprises a plurality of sensors (104) connected to a communication network (110), a monitoring server (112) connected with the plurality of sensors (104), through the communication network (110), a storage device (114) connected with the monitoring server (112). The monitoring server (112) includes an interface module (116), and a processor (118) operably connected to a memory unit (120). Further, a method (200) therefor includes monitoring and operating (210) collection of sensor data from the plurality of sensors (104), through the communication network (110), receiving (220) the sensor data from the plurality of sensors (104), through the communication network (110), determining (230) values of the soil quality parameters from the sensor data, and transmitting (240) values of the soil quality parameters to a user interface device (122).

1. IN202211012122 - METHOD FOR PREPARATION OF SOLID LIPID NANOPARTICLES GEL FOR TOPICAL OCULAR THERAPY

Office
India

Application Number
202211012122

Application Date
07.03.2022

Publication Number
202211012122

Publication Date
11.03.2022

Publication Kind
A

IPC
A61K

Applicants
Shobhit University

Inventors
DARSH GAUTAM
Dr. (Prof.) RANJIT SINGH
Dr. HIMANSHU CHAURASIA
RITESH RANA

Title
(EN) METHOD FOR PREPARATION OF SOLID LIPID NANOPARTICLES GEL FOR TOPICAL OCULAR THERAPY

Abstract
(EN) A method (100) to prepare a Lomefloxacin loaded SLN gel for the treatment of eye infection using (102) Stearic acid as solid lipid and Poloxamer 188 as surfactant, taking (104) Stearic acid, Poloxamer 188 and Propylene Glycol concentrations as independent variables and particle size and entrapment efficiency (EE) are dependent variables; optimizing (106) Lomefloxacin loaded SLN incorporating into chitosan (LSNG); dispersing (108) the required quantity of Chitosan of varying concentration in deionized water and keeping overnight to hydrate properly; utilizing (110) deionized water for making the volume; mixing (112) the weighed quantity of optimized Lomefloxacin-loaded solid lipid nanoparticles in gelling solution; preparing (114) nine batches of LSN loaded gel(LSNG1 to LSNG9).

REPUBLIC OF SOUTH AFRICA

REPUBLIEK VAN SUID AFRIKA

PATENTS ACT, 1978

CERTIFICATE

In accordance with section 44 (1) of the Patents Act, No. 57 of 1978, it is hereby certified that:

VERMA PREETI; GUPTA AJAY KUMAR; CHAUHAN BHUPENDRA; RAJENDIRAN A; SINGH ANJU

Has been granted a patent in respect of an invention described and claimed in complete specification deposited at the Patent Office under the number

2022/07352

A copy of the complete specification is annexed, together with the relevant Form P2.

In testimony thereof, the seal of the Patent Office has been affixed at Pretoria with effect from the 28th day of September 2022

.....

Registrar of Patents

MAHIPAL SINGH

Digitally signed by MAHIPAL SINGH
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Reason: your signing reason here
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1. IN202211029646 - 2-HETEROCYCLIC SUBSTITUTED-1H-BENZIMIDAZOLE AND THEIR DERIVATIVES AND METHOD FOR PREPARATION THEREOF

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India

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202211029646

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A61K C07D

Applicants
Adarsh Vijendra Institute of Pharmaceutical Sciences, Shobhit University

Inventors
Ms. Jyoti
Dr. Niladry Sekhar Ghosh

Title
(EN) 2-HETEROCYCLIC SUBSTITUTED-1H-BENZIMIDAZOLE AND THEIR DERIVATIVES AND METHOD FOR PREPARATION THEREOF

Abstract
(EN) The present invention relates to, a 2-Heterocyclic Substitited-1H-Benzimidazolecompound derivative was formed. The IUPAC name of the compound is 3-{2-[2-(1H-benzimidazol-2-yl)-2-oxoethyl]hydrazino}-2-(3-acetoxyphenyl-1-phenyl-1H-pyrazol-4-yl)-1,3-thiazolidin-4-one. The method for the preparation of 2-Heterocyclic Substitited-1H-Benzimidazolecompound, comprises the following steps: i) Synthesis of substituted 1-phenyl-2-(1-phenylethylidene)hydrazine (compound I), ii) Synthesis of substituted 3-substitutedphenyl-1-phenylpyrazole-4-carbaldehyde (compound II), iii) Synthesis of 1-(1H-benzimidazol-2-yl)ethanol, (compound III), iv) Synthesis of 1-(1H-benzimidazol-2-yl)ethanone (compound IV), v) Synthesis of 1-(1H-benzimidazol-2-yl)-2-chloroethanone (compound V), vi) Synthesis of 1-(1H-benzimidazol-2-yl)-2-hydrazinoethanone (compound VI), vii) Synthesizing substituted carbaldehydes (3-acetoxyphenyl-1-phenyl-1H-pyrazol-4-yl carbaldehyde (2-(1H-benzimidazol-2-yl)-2-oxoethyl]hydrazone, (compound VII), and viii) Synthesis of 3-{2-[2-(1H-benzimidazol-2-yl)-2-oxoethyl]hydrazino}-2-(3-acetoxyphenyl-1-phenyl-1H-pyrazol-4-yl]-1,3-thiazolidin-4-one (compound VIII).

1. IN202211020399 - TRANSDERMAL PATCH FORMULATION AND PREPARATION THEREOF

Office
India

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IPC
A61K

Applicants
Adarsh Vijendra Institute of Pharmaceutical Sciences, Shobhit University
Dr. Sarvesh Kumar

Inventors
Dr. Sarvesh Kumar
Dr. Peeush Singhal
Dr. Ritu Vishnoi Singhal
Dr. Manisha
Dr. Vijay Jyoti Kumar
Prof. (Dr.) Ranjit Singh
Dr. Somesh Thapliyal
Mr. Lalatendu Mohanty

Title
(EN) TRANSDERMAL PATCH FORMULATION AND PREPARATION THEREOF

Abstract
(EN) The present invention relates to a formulation of transdermal matrix patch. The transdermal matrix patch formulation comprises of methanolic extract of Ageratum conyzoides, hydroxypropyl methylcellulose, pectin, chitosan, sodium alginate, PEG 6000, glycerin, methanol and water. The invention also provides a process for preparation of the medicinal transdermal matrix patch, comprising of mixing methanolic extracts of Ageratum conyzoides with polymers solution, adding chitosan and stirring well the material using stirrer; casting the obtained uniform dispersion on glass petri plates; drying the petri plates at ambient temperature for 6-8 hours; removing dried films and cutting manually and storing. The prepared transdermal matrix patch was evaluated for its organoleptic characterization and in-vivo pharmacological studies. The transdermal matrix patch of present invention has potential usefulness for wound healing.

1. IN202211009695 - PREPARATION AND CHARACTERIZATION OF DAPAGLIFLOZIN LOADED POLYMERIC NANOPARTICLES

Office
India

Application Number
202211009695

Application Date
23.02.2022

Publication Number
202211009695

Publication Date
04.03.2022

Publication Kind
A

IPC
A61K | B01F | B82B | C07D

Applicants
Shobhit University

Inventors
RITESH
Dr.(Prof.) RANJIT SINGH
Dr. HIMANSHU CHAURASIA
DARSH GAUTAM

Title
(EN) PREPARATION AND CHARACTERIZATION OF DAPAGLIFLOZIN LOADED POLYMERIC NANOPARTICLES

Abstract
(EN) The preparation of formulation composition of Dapagliflozin Loaded Nanoparticles (100) using solvent diffusion (nanoprecipitation) method by dissolving (102) the PLGA (25 mg) and drug (10 mg) into 2.5 ml of acetone (104) and adding (106) the organic phase at the rate of 0.5ml/min into 5 ml of aqueous phase containing 0.25%w/v Pluronic F68 (108) with continuous (110) stirring on magnetic stirrer at room temperature. The continuous stirring is done until the organic solvent completely evaporated (112) and the NPs suspension are ultrasonicated at different interval (3-7 min at 60-80 kHz)(114) for one cycle and then it kept for cooling.

1. IN202111054366 - ADAPTIVE BREATHING EXERCISE DEVICE

Office
India

Application Number
202111054366

Application Date
25.11.2021

Publication Number
202111054366

Publication Date
10.12.2021

Publication Kind
A

IPC
A61M A63B

Applicants
Shobhit University

Inventors
Dr. Zulphikar Ali
Jai Parkash

Title
(EN) ADAPTIVE BREATHING EXERCISE DEVICE

Abstract
(EN) The present invention relates to an adaptive breathing exercise device including a handheld body 1 comprising of a chamber 2 having multiple conduits 3 connected to a mouthpiece 4 for performing oral breathing exercises, multiple hallow metallic balls 5 independently organized inside conduits 3 lifted by inhalation force, a pressure sensor 6 attached to mouthpiece 4 and linked with a microcontroller for determining user's inhaling pressure, an electromagnetic module 7 attached to conduit's 3 base for attracting or repelling metallic balls 5, a nosepiece 8 attached to chamber 2 for authorizing nasal breathing exercises, and multiple openings 9 designed inside mouthpiece 4 and nosepiece 8 and connected to a sanitization container 10 for performing sanitization before/after using the device.

1. IN202111054367 - AUTOMATED GAIT IMPROVEMENT DEVICE

Office
India

Application Number
202111054367

Application Date
25.11.2021

Publication Number
202111054367

Publication Date
10.12.2021

Publication Kind
A

IPC
A61B | A63B | G01C | A61H

Applicants
Shobhit University

Inventors
Dr. Bhupendra Chauhan
Dr. Ranjit Singh

Title
(EN) AUTOMATED GAIT IMPROVEMENT DEVICE

Abstract
(EN) The present invention relates to an automated gait improvement device comprising a telescopic frame 1 segregated into a first and second portion 2, 3, a thermal image capturing unit 4 linked with a display screen 5 enables to generate a specific user profile, a U-shaped support 6 with a harness 7 around torso aids to walk, a motorized yoke element 8 rotates to provide free body movement while walking, multiple motorized wheels 9 for moving in synchronization with body and leg movements performed, multiple sensors 10 and a pair of leg wearable 11 to detect body movements, stride length, changes in blood circulation and muscular strain, a pair of robotic arms 12 for holding the legs and provide assistance in walking, a vibration unit 13 generates an alert during inappropriate coordination, a speaker 14 to provide alert for incorrect body movements and delivering audio suggestions regarding advanced body movements.

1. IN202111054368 - AUTOMATED BLACKHEAD REMOVAL DEVICE

Office
India

Application Number
202111054368

Application Date
25.11.2021

Publication Number
202111054368

Publication Date
10.12.2021

Publication Kind
A

IPC
A61B A61Q H04M G06F

Applicants
Shobhit University

Inventors
Dr. Ranjit Singh
Deepika Rani

Title
(EN) AUTOMATED BLACKHEAD REMOVAL DEVICE

Abstract
(EN) An automated blackhead removal device, comprising a flat body 1 associated with the device that provides a platform to accommodate a patient, an image capturing module 2 installed over body 1 that takes images of patient's face, head gripper 3 arranged at body 1 and linked to microcontroller, based upon saved images, microcontroller derives size of patient's head and actuates gripper 3, a screen 5 fitted over body 1 to select between different types modes for removing blackhead, robotic arm 6 installed over a sliding rack 7 and fitted with suction unit 8, the microcontroller regulates movement of arm 6 to align suction unit 8, iris lid 9 attached at suction unit 8, based upon mode selected by patient, microcontroller adjusts diameter of lid 9 and a container 10 installed over robotic arm 6 filled with solution, wherein upon extraction of blackheads, microcontroller actuates a pump to disperse solution.

1. IN202111054369 - AUTOMATED SCOLIOSIS TREATMENT DEVICE

Office
India

Application Number
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Publication Kind
A

IPC
A61B G16H A61H

Applicants
Shobhit University

Inventors
Dr. Niladry Sekhar Ghosh
Dr. Madan Kaushik

Title
(EN) AUTOMATED SCOLIOSIS TREATMENT DEVICE

Abstract
(EN) An automated scoliosis treatment device comprising a flat base 1 for allowing a patient to lay down, a motorized hinge 13 in fabricated within the base 1 reclines and tilts the base 1, the base 1 is mapped with a touch interactive screen 2 that allows to create medical profile of the patient from patient's computing unit 3, multiple infrared lights 4 for emitting infrared radiations, an artificial intelligence based image capturing module 5 for capturing images of patient, a handle bar 6 configured at base 1 via a motorized ball and socket joint 7 for enabling patient to lay over the base 1, multiple rollers 8 attached at base 1 via a telescopic rods 9 to exhibit force over the patient's body, a pressure sensor 12 is also crafted within the rollers 8 that monitor exerted pressure, multiple sensors 10, 11 for measuring pain intensity and blood circulation respectively.

1. IN202111054370 - SMART EAR EXAMINATION DEVICE

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IPC
A61F A61B G01J A61M

Applicants
Shobhit University

Inventors
Dr. Arif Naseer
Dr. Mayank Yadav

Title
(EN) SMART EAR EXAMINATION DEVICE

Abstract
(EN) The present invention relates to a smart ear examination device comprising a handheld body 1 configured with a handle 2 which includes a thermal image capturing unit 3 for capturing images of the patient's ear and face for analyzing dimensional anatomy and facial expressions, several specula 4 arranged on a motorized disc 5 and aligned towards the auricle, a first set of sensors 6 for detecting angular orientation of the specula 4, a magnifying lens 7 coupled with a light source 8 for visualizing external auditory canal (EAC) and tympanic membrane (TM) of the ear, an insufflating unit 9 includes a pump 10 and connected to a nozzle 11 that imparts air puffs towards the tympanic membrane, a second set of sensors 12 for detecting vibrational mobility of the membrane, a display unit 13 for displaying information regarding causes of the abnormalities as per information acquired from a database server.

1. IN202111054371 - HANDS-FREE MOBILITY AID DEVICE

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India

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IPC
A61H G06F A61B B60N

Applicants
Shobhit University

Inventors
Dr. Ranjit Singh
Deepika Rani

Title
(EN) HANDS-FREE MOBILITY AID DEVICE

Abstract
(EN) The present invention relates to a hands-free mobility aid device including a frame 1 designed with a thigh support 2 and multiple fasteners 3 for keeping leg in knee-bent position, a button 4 organized on frame 1 and linked with a microcontroller for changing mode of the device, multiple linear shafts 5 connected to thigh support 2 through a solenoid actuator 6 for allowing user to walk in locked state and removes chance of interference while moving leg in unlocked state and a motorized hinge 7 arranged between shafts 5 and support 2 for leg alignment.

1. IN202111054372 - SPINAL PAIN RELIEF BASED EXERCISING DEVICE

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A63B A61F A61H G06F

Applicants
Shobhit University

Inventors
Dr. Madan Kaushik
Dr. Arif Naseer

Title
(EN) SPINAL PAIN RELIEF BASED EXERCISING DEVICE

Abstract
(EN) A spinal pain relief based exercising device, comprising a body 1 configured with telescopic platform 2, wherein a user lies down and aligns the platform 2 in contact with user's back, a microphone 3 coupled with a speaker 4 arranged on platform 2, wherein the microphone 3 captures voice commands provided by the user and speaker 4 provides audio suggestions regarding proper placement of the platform 2, multiple sensors 5, 6 integrated within body 1 for detecting nerve activity and blood flow rate in the back portion, a curved attachment 7 affixed with platform 2 for generating force towards the column, multiple pneumatic pins 8 arranged in attachment 7 for providing acupressure therapy on the back portion and a light source 9 installed on attachment 7, wherein the microcontroller generates commands to activate the source 9 for emitting light rays that help in providing heat therapy towards the user's back.

1. IN202111054373 - AUTOMATED MEDICATION ADMINISTRATION DEVICE

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Applicants
Shobhit University

Inventors
Dr. Ranjit Singh
Dr. Niladry Sekhar Ghosh

Title
(EN) AUTOMATED MEDICATION ADMINISTRATION DEVICE

Abstract
(EN) An automated medication administration device, comprises wearable band 1 worn around patient's arms, display unit 2 attached over band 1 that enables user to input dosage schedule and flow rate according to patient, vein illumination module 3 attached on band 1 for emitting light rays of specific wavelength and creates reference image represents location of peripheral veins, AI based image capturing unit 4 captures image of reference image which analyses thickness of vein and select the optimum vein location accordingly, a projection unit 5 attached over the wearable band 1 projects the color coordinated markings on the location to highlight vein of optimum thickness, motorized syringe 6 installed on a slider 7 attached over the band 1, the syringe 6 translates along with slider 7 to insert needle 8 within vein and plunger 9 of syringe 6 is operated by microcontroller for administrating medication of specific dose and flow rate.

1. IN202111054374 - AUTOMATED PAPER CHROMATOGRAPHY DEVICE

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IPC
G07F B65G C08G B65B G01F

Applicants
Shobhit University

Inventors
Dr. Arif Naseer
Himani Bajaj

Title
(EN) AUTOMATED PAPER CHROMATOGRAPHY DEVICE

Abstract
(EN) An automated paper chromatography device comprises of a housing 1 installed with a touch interactive display panel 2 for manually providing inputs regarding type of solutes to be tested, multiple containers 3 for storing various types of solutes, a capillary tubes 4 attached particularly to each container 3 operated by a motorized robotic arm 5 to dispense an amount of solutes to mark spots equidistant from each other on whatman paper, a conveyer 6 positioned next to containers 3 for transferring marked paper in proximity with a beaker 7 a telescopic gripper 8 attached at periphery of housing 1 used to place paper inside beaker 7, an IR sensor 9 mapped inside beaker 7 for determining presence of paper inside beaker 7, a pair of motorized telescopic arm 10 used for gripping paper, an AI based image capturing module 11 installed in beaker 7 for monitoring rising level of solutes.

1. IN202111054375 - AUTOMATED COLUMN CHROMATOGRAPHY DEVICE

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IPC
G01N B01D G06F

Applicants
Shobhit University

Inventors
Dr. Bhupendra Chauhan
Dr. Zulphikar Ali

Title
(EN) AUTOMATED COLUMN CHROMATOGRAPHY DEVICE

Abstract
(EN) An automated column chromatography device, comprising a housing 1 mapped with a column 2 configured on a stand 3 for separating molecules of a mixture, a touch interactive display panel 4 for enabling a user to input commands regarding mixture to be separated through the column 2, a telescopic gripper 5 for gripping ingredients and placing within the column 2 to prepare for carrying out the molecules separation, an artificial intelligence image capturing module 7 for monitoring passage of the mobile phase within the column 2 to allow separation of the molecules from the mixture, a motorized conveyor 8 assembled with plurality of flasks 9 positioned underneath the column 2 for collecting separated molecules dripping through outlet of the column 2, a stopcock 10 connected to the column 2 for providing passage of the separated molecules.

1. IN202111054393 - LEG EXERCISING DEVICE

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Applicants
Shobhit University

Inventors
Dr. Niladry Sekhar Ghosh
Dr. Madan Kaushik

Title
(EN) LEG EXERCISING DEVICE

Abstract
(EN) The present invention relates to a leg exercising device comprising a first 1 and second wearable body 2 adapted to be worn on calf and thigh portion of a user's leg respectively, wherein the body 1,2 are connected to each other via a motorized hinge 3 that assist in movement of the legs, multiple rigid bars 4 arranged inside the body 1,2 for providing support to the user legs, a strain sensor 5 installed on the body 1,2 for measuring strain while lifting the legs, a pneumatically actuated telescopic rod 6 connected to the first body 1, to position on ground and extends or retracts in accordance to with the determined height to assist the hinge 3 while lifting of the legs and a pair of photopletismograph 7 connected to each of the body 1,2 for detecting blood flow rate of the leg while lifting and lowering the leg.

1. IN202111054394 - ORAL WOUND CURING DEVICE

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A

IPC
A61C A61M A61B H01R

Applicants
Shobhit University

Inventors
Dr. Mayank Yadav
Dr.Zulphikar Ali

Title
(EN) ORAL WOUND CURING DEVICE

Abstract
(EN) The present invention relates to an oral wound curing device comprising a telescopic body 1 configured to be adapted within oral cavity of a user, such as the body 1 extends/retracts in accordance to dimensions of the oral cavity, a pressure sensor 2 in synchronization with an artificial intelligence protocol for continuously monitoring and adaptively learning pressure endured by the user while wearing the body 1, a computing unit installed with a user interface wirelessly associated with the microcontroller via a communication module, an artificial intelligence enabled image capturing module 3 installed within the body 1 for detecting wound type and location of the wound, and a telescopic nozzle 4 connected to the body 1 via motorized rack 5 arrangement for dispensing the determined medicine on the wound by sliding on the rack 5 on the detected location, wherein movement of the nozzle 4 are controlled by the user.

1. IN202111054395 - NECK EXERCISING DEVICE

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IPC
G06F A61H B61B A63B

Applicants
Shobhit University

Inventors
Dr. Bhupendra Chauhan
Deepika Sharma

Title
(EN) NECK EXERCISING DEVICE

Abstract
(EN) The present invention relates to a neck exercising device, comprising an adjustable platform 1[a] associated with the device to allow a user to perform exercise in various modes, a biometric sensor 2 installed over the platform 1[b] to unique user profile of the user, a touch interactive screen 3 mounted over the platform 1[b] for enabling the user to input medical history, a thermal imaging unit 4 mounted over the platform 1[b] for detecting height and pain in neck a flexible halter 5 paired with a frame 6 arranged over the platform 1[b] for placing mandible portion of the user, a pair of stretchable straps 7 connected to the frame 6 to provide stretching force, a metallic block 8 attached with the straps 7 for providing stretching force over the neck and plurality of electromagnets 9 attached with the platform 1[a] for altering force of stretching over the neck.

1. IN202111054396 - AUTOMATED FRIABILITY TESTING DEVICE

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202111054396

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IPC
A21B B07C H02K A01G F16H

Applicants
Shobhit University

Inventors
Dr. Ranjit Singh
Himani Bajaj

Title
(EN) AUTOMATED FRIABILITY TESTING DEVICE

Abstract
(EN) The present invention relates to an automated friability testing device comprising of a central housing 1 associated with the device, a pair of rotating drums 2 attached at opposite side of the housing 1 to provide rotation to the medicinal tablets/capsules for testing friability of the contained tablets/capsules, a pair of motor associated with the drums 2 to rotate the drums 2 at different speeds, multiple humidity sensor 3 to detect moisture content of the tablets/capsules, a pair of motor controller associated with a microcontroller to regulate speed of the drums 2, a pair of image capturing unit 4 integrated within each of the drums 2 to monitor the deformities caused on the tablets while rotating, a pair of primary containers 6 attached on the housing 1 in proximity to each of the drums 2 to store and dispense extra tablets of the same kind.

1. IN202111054397 - BACK PAIN THERAPEUTIC DEVICE

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IPC
A61M A61H B60R A61N

Applicants
Shobhit University

Inventors
Jai Parkash
Anirudhh Dev Singh

Title
(EN) BACK PAIN THERAPEUTIC DEVICE

Abstract
(EN) A back pain therapeutic device comprises of a body 1 installed with an AI (artificial intelligence) image capturing module 2 attached at periphery of a bed 3, a touch interactive display panel 4 integrated on body 1 is accessed by user to input commands for selecting therapy type, an electronically actuated nozzle 5 attached to body 1 by telescopic rod 6 to dispense lotion on back portion of user's body, a chamber 7 fabricated at body 1 for storing lotion, a telescopic roller massager 8 placed on edges of body 1 via a sliding rack 9 for evenly spreading dispensed lotion on back of user's body, a telescopic gripper 10 for gripping multiple therapeutic cups 11 placed on a tray 12 placed on body 1, a suction pump 13 mounted on gripper 10, for withdrawing air from cups 11 via a flexible protrusion 14 fabricated on top of cup 11.

1. IN202111040977 - A METHOD FOR PREPARING AN OINTMENT FOR BURN WOUND HEALING FROM SHOREA ROBUSTA ROOTS' EXTRACT

Office
India

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202111040977

Application Date
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Publication Date
17.09.2021

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A

IPC
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Applicants
Shobhit University, Gangoh

Inventors
Sanjay Kumar
Dr. Ranjit Singh
Dr.Hayat M. Mukthar

Title
[EN] A METHOD FOR PREPARING AN OINTMENT FOR BURN WOUND HEALING FROM SHOREA ROBUSTA ROOTS' EXTRACT

Abstract
[EN] The present disclosure relates to a method for preparing an ointment for burn wound healing from Shorea robusta roots extract. In an aspect, the method [100] for preparing an ointment for burn wound healing from Shorea robusta roots' extract comprises steps of collecting [102] matured roots of Shorea robusta, pre-processing [104] the collected roots [102] to prepare the collected roots for further processing, drying [106] the pre-processed roots [104] to remove all the moisture present in the rudimentary roots, preparing [108] an extract by extracting a coarse powder of the roots using the Soxhlation process, preparing an ointment [110] from the extract using a standard ointment base.

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(51) International classification : C07D4010400000, A61K0009000000, A61K0047100000, A61P0031100000, A61K0009040000

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(71) Name of Applicant :

1)Anjana Devi

Address of Applicant : Research Scholar, Amrit Vigyan Institute of Pharmaceutical Sciences, Shobhit University Gangoh Saharanpur, Uttar Pradesh Uttar Pradesh India

2)Dr.Himanshu chamoli

3)Dr. Shikha Rangra chandel

4)Dr. Ashwani kumar

5)Neetu Rani

6)Brijesh Kumar

7)Mrs. Parveen verma

8)Dr. Vineet Mittal

9)Davinder Kumar

10)Nanita yadav

11)Dr. Paresh Singhal

(72) Name of Inventor :

1)Anjana Devi

2)Dr.Himanshu chamoli

3)Dr. Shikha Rangra chandel

4)Dr. Ashwani kumar

5)Neetu Rani

6)Brijesh Kumar

7)Mrs. Parveen verma

8)Dr. Vineet Mittal

9)Davinder Kumar

10)Nanita yadav

11)Dr. Paresh Singhal

(57) Abstract :

The present disclosure relates to a method for optimizing and characterization of ethaconazole transfersomal gel formulation. In an aspect, the present disclosure relates to a method for optimization studies (102), developing transfersomes (104), by a solvent injection method, analyzing (106) the developed transfersomes (104) preparing transfersomal gel (108), by dispersion, hydration and sonication, evaluating ethaconazole loaded transfersomal gel (110), selecting optimum ethaconazole transfersomal gel (112), by an evaluation system (114), based on the particle size and entrapment efficiency, measuring the vesicle size, characterizing optimized ethaconazole transfersomal formulation (116), based on vesicular shape, morphology and partial differential equations (PDE), improved efficacy, diffusion studies.

No. of Pages : 29 No. of Claims : 4

1. IN202111018376 - SINUSOIDAL VOLTAGE METER

National Biblio. Data Description Claims Documents

PermaLink Machine translation

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G06G G01R H04L H05K H03F

Applicants
Shobhit University, Gangoh

Inventors
Prof. Mahipal Singh
Prof. Rakesh Jain

Title
(EN) SINUSOIDAL VOLTAGE METER

Abstract
(EN) Accordingly, embodiments herein disclose a sinusoidal voltage meter (100) including an all pass filter (102), a first squaring circuit (104), a second squaring circuit (106), a summing operational amplifier (108), and a square rooter circuit (110). The all pass filter (102) comprises an input end and an output end. The input end of the all pass filter (102) receives an input signal and the output end of the all pass filter (102) passes the input signal to an input end of the first squaring circuit (104). The second squaring circuit (106) comprises an input end for receiving the input signal. The summing operational amplifier (108) comprises an input end connected with an output end of the first squaring circuit (104) and an output end of the second squaring circuit (106). The summing operational amplifier (108) comprises an output end connected with an input end of the square rooter circuit (110).

https://patentscope.wipo.int/search/en/detail.jsf?docId=IN323786685&_cid=P20-LYJZDG-28376-1

1. IN202011029257 - BIOGENIC SYNTHESIS PROCESS OF MAKING GOLD NANOPARTICLES USING POLYGONATUM VERTICILLATUM"

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A

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C25D 3/48

Applicants
Shobhit University

Inventors
Niladry Sekhar Ghosh
Prof. Ranjit Singh

Title
(EN) BIOGENIC SYNTHESIS PROCESS OF MAKING GOLD NANOPARTICLES USING POLYGONATUM VERTICILLATUM"

Abstract
(EN) The present invention relates to a biogenic synthesis process of making gold nanoparticles using Polygonatum verticillatum.It is an object of the present invention to provide a simple and improved cost effective biogenic synthesis of making gold nanoparticles using plants extracts especially from a unique species i.e. polygonatum vertillatum that overcomes the deficiencies of the prior art. The present invention relates to a Biogenic synthesis of gold nanoparticles from Polygonatum vertillatum leaves extract using novel process characterised in that process having microwave heating for 3 minutes followed by filtration step, then adding with gold chloride solution (1:1) ratio; such addition done at 27 degree C with rotaryshaker maintainted at120 ppm. The nanosynthesis of golden nanoparticle occurs from golden ions showing transition from golden to purple color. The proteins present in Polygonatum vertillatum leaves extract act as reducing agent for reducing golden ion to make gold nanoparticle. These nanoparticle may be having cytotoxicity effect as well.

1. IN201811043306 - "A PEDAL POWERED ZEOLITE COOLING SYSTEM AND METHODS THEREOF"

Office
India

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201811043306

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201811043306

Publication Date
03.07.2020

Publication Kind
A

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F16K | B62M | F25B | B01J

Applicants
Shobhit University

Inventors
Shoyab hussan

Title
(EN) "A PEDAL POWERED ZEOLITE COOLING SYSTEM AND METHODS THEREOF"

Abstract
(EN) The present invention relates to a pedal powered zeolite cooling system and methods thereof. The pedal powered zeolite cooling system and methods thereof comprises a pedal power arrangement, at least one air compressor, at least one evaporation tank, cold chamber, a zeolite unit, plurality of valve, at least one solar heating apparatus. The pedal power arrangement further comprise of a pedal, a ring, a motor, a chain and at least two gear. The plurality valve is further comprise of valve 1 and valve 2. The zeolite unit further comprise of zeolite tank and zeolite component.

1. IN201911045640 - SYNTHESIS OF METALLIC NANOPARTICLES FROM SHEEP MILK

Office
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Applicants
Niladry Sekhar Ghosh
Dr Ritu M Gilhotra
Dr Ranjit Singh

Inventors
Niladry Sekhar Ghosh
Dr Ritu M Gilhotra
Dr Ranjit Singh

Title
(EN) SYNTHESIS OF METALLIC NANOPARTICLES FROM SHEEP MILK

Abstract
(EN) The present invention is about the biosynthesis of metallic nanoparticles with sheep milk as a catalyst. The present research is based on the use of Sheep milk as a catalyst or as a reducing agent in the synthesis of AuNP. The morphological studies of the biosynthesized Gold nanoparticles are done using UV-vis, HRTEM, & FESEM techniques. The nanoparticles formation takes place within short time as the reaction is completed within few minutes. The XRD confirm the crystallinity of the particles. The stability studies of the colloidal nanoparticle"s solution are done using zeta potential analysers which confirm that the solution is stable for many weeks. The process can meet the above-mentioned need in the art for simple, cost-effective, Rapid, Stable processes for producing Gold metal nanoparticles.

1. IN202111054722 - METHODS FOR THE ESTIMATION OF FAVIPIRAVIR IN PHARMACEUTICAL FORMULATION

Office
India

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202111054722

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26.11.2021

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03.12.2021

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G01N

Applicants
Shobhit University

Inventors
Ms. Pinki Singh
Dr. Madan Kaushik
Ms. Deepika Rani
Dr. Ranjit Singh
Dr. Bhupendra Chauhan

Title
(EN) METHODS FOR THE ESTIMATION OF FAVIPIRAVIR IN PHARMACEUTICAL FORMULATION

Abstract
(EN) The present invention provides a high performance liquid chromatography method for the determination of Favipiravir. The present invention provides a fast, simple, accurate, precise, and linear stability-indicating high performance liquid chromatography method for the validation of favipiravir. The developed method of the present invention can be used for routine quality control analysis. The present invention also provides an analytical methods, conditions and the mobile phase solvents for good resolution for favipiravir. The developed method of present invention has short run time and retention time of around 4?min. The method of present invention is robust enough to reproduce accurate and precise results under different chromatographic conditions.