

Number of Patents awarded during the last five years:

Name of the Faculty/student author of the patent	Patent Number	Published /Granted	Date of Award	Patenet Awarding Agency	Title of patents
Dr. Sarla Saklani	Patent Application No. 4233/DEL/ 2015, The patent office Journal No. 25/2017	Published	23/6/2017	Govt. of India, The patent office	A FORMULATION COMPRISING SATYRIUM NAPALENSE AND METHOD OF PREPARING THE SAME
Dr. Sarla Saklani	Patent Application No. 201911034168A, The patent office Journal No. 36/2019	Published	6/9/2019	Govt. of India, The patent office	FORMULATION OF ANTI-DIABETIC HERBAL TABLETS FROM METHANOLIC PLANT ACT OF CLEMATIS BUCHANANIANA
Prof. DS Negi and Rajnikant Sharma	201911023688 A	Published	6/14/2019	Govt. of India, The patent office	ANTIFEEDANT COMPOSITION OF BOENNINGHAUSENIAAL BIFLORA AND METHODS THEREOF
Amit Kumar, Dr. G K Joshi	201911009283 A	Published	5/4/2019	Govt. of India, The patent office	A FORMULATION FOR PROMOTING GROWTH IN CULTURE OR IN FIELD
Prof. DS Negi and Faheem Kahn	202011004587	Published	3/2/2020	Govt. of India, The patent office	ANTIDIABETIC HERBAL FORMULATION PREPARED FROM MELIAAZEDARACHAND METHODS THEREOF
Dr. Sarla Saklani	Patent Application No.202011056345, Patent No. 399109	Granted	14/06/2022	Govt. of India, The patent office	FORMULATION OF ANTI-EPILEPTIC HERBAL COMPOSITION COMPRISING EXTRACI TYNIA ANNUA AND ALBIZIA LEBBECK
Dr Alok Sagar Gautam	2021102643	Granted	07/07/2021	Australian Govt., IP Australia	A SYSTEM FOR MULTI-DIRECTIONAL DISINFECTION OF OBJECT AND A METHOD THERE OF
Semalty Ajay, Semalty Mona, Adhikari Lokesh, Pandey Mukesh and Mishra Himanshu	2021107428	Granted	15/12/2021	Australian Govt., IP Australia	HERBAL HAIR OIL FORMULATION FOR ANDORGENETIC ALOPECIA A NOVEL PROCESS TO PRODUCE A NOVEL AND

					EFFECTIVE HERBAL OIL
Dr Alok Sagar Gautam	202111051851	Published	26/11/2021	Govt. of India, The patent office	COPLANAR WAVEGUIDE FED CLOVER SHAPED ANTENNA FOR BIOMEDICAL APPLICATIONS
Prof. Anoop Pandey	202111049235 A	Published	26/11/2021	Govt. of India, The patent office	A MANAGEMENT SYSTEM AND METHOD FOR MULTIMEDIA COMMERCE SYSTEM
Dr Alok Sagar Gautam	202111053834 A	Published	03/12/2021	Govt. of India, The patent office	PROBABILISTIC METHOD IN APPLIED MATHEMATICS FOR RESTRUCTURING POWER SYSTEMS
Dr Brijesh Gangil	2021107058	Granted	24/8/2021	Australian Govt., IP Australia	A METHOD FOR FABRICATING NATURAL FIBER REINFORCED EPOXY COMPOSITES AND EVALUATING VARIOUS PROPERTIES OF THE FABRICATED COMPOSITES
Dr. Rahul Kunwar Singh, Preeti Singh & Rahul Negi	2021104039	Granted	30/3/2022	Australian Govt., IP Australia	A DEVICE ALGFLOW TO REDUCE CARBON DIOXIDE LEVELS IN THE ATMOSPHERE
Dr. Vijay Jyoti Kumar	202211005703 A	Published	11/02/2022	Govt. of India, The patent office	MUCILAGE FROM SAPINDUS MUKOROSSI FRUITS USEFUL AS FOOD AND PHARMACEUTICAL EXCIPIENTS
Dr Alok Sagar Gautam	202241008796 A	Published	11/03/2022	Govt. of India, The patent office	INTELLIGENT CAREGIVER WIRELESS MONITOR AND MOTION SENSOR FOR SAFE HOME SYSTEM APPLICABLE FOR ELDERLY PEOPLE
Prof. Anoop Pandey	202211012888 A	Published	18/03/2022	Govt. of India, The patent office	A METHOD FOR BUSINESS GROWTH THROUGH INNOVATIVE PRODUCT DESIGNS AND

					TECHNOLOGY SOLUTIONS
Dr. Vijay Jyoti Kumar	202211020399A	Published	15/04/2022	Govt. of India, The patent office	TRANSDERMAL PATCH FORMULATION AND PREPARATION THEREOF
Prof. D.S. Negi and Poonam Negi	202211027939 A	Published	20/05/2022	Govt. of India, The patent office	PLANT DERIVED ANTIFEEDANT AGENTS AGAINST POLYPHAGOUS PEST SPODOPTERA LITURA
Dr. Sarla Saklani	Patent Application No.202211035654 A	Published	01/07/2022	Govt. of India, The patent office	A POLYHERBAL FORMULATION FOR THE TREATMENT OF DIABETES MELLITUS AND ITS ASSOCIATED COMPLICATIONS
Dr. Sarla Saklani	Patent Application No.202211039591 A	Published	22/07/2022	Govt. of India, The patent office	SATYRIUM NEPALENSE EXTRACT ACTING AGAINST CANCER AND METHOD FOR PREPARATION THEREOF
Dr Alok Sagar Gautam	202231059626	Published	21/10/2022	Govt. of India, The patent office	HYBRID NANOPARTICLES BASED PHOTOCATALYTIC COATING, ITS PRODUCTION PROCESS AND USE THEREOF
Dr Manoj Kumar Gupta	20 2022 100 826	Published	14/2/2022	Federal Republic of Germany	ZUSAMMENSETZUNG ZUR HERSTELLUNG VON MIT KIEFERNNADELASCHEPARTIKELN VERSTÄRKTEM OBERFLÄCHENVERBUND
Dr Alok Sagar Gautam	202231034123 A	Published	07/08/2022	Govt. of India, The patent office	NANOPARTICLES BASED COMPOSITE DISINFECTANT, ITS FORMULATION AND ITS APPLICATIONS
Semalty Ajay, Semalty Mona, HNBGU, Rahul	309685	Granted	22/3/2019	Govt. of India, The patent office	A NOVEL SYNERGISTIC HERBAL FORMULATION OF WITHANIA SOMNIFERA FOR ANTIHYPERLIPIDEMIC AND ANTI OBESITY

				ACTIVITY
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(12) PATENT APPLICATION PUBLICATION

(21) Application No. 4233/DEL/2015 A

(19) INDIA

(43) Publication Date : 23/06/2017

(22) Date of filing of Application : 22/12/2015

(54) Title of the invention : A FORMULATION COMPRISING SATYRIUM NAPAENSE AND METHOD OF PREPARING THE SAME

(51) International classification

:B01F
15/00

(71) Name of Applicant :
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(31) Priority Document No

:NA

(32) Priority Date

:NA

(33) Name of priority country

:NA

(86) International Application No
Filing Date

:NA

(72) Name of Inventor :

(87) International Publication No

:NA

1) SARLA SAKLANI
2) ABHAY PRAKASH MISHRA

(61) Patent of Addition to Application Number

:NA

Filing Date

:NA

(62) Divisional to Application Number

:NA

Filing Date

:NA

(57) Abstract :

The invention provides the formulation comprising at least one component selected from the extract of tubers derived from Satyrium nepalense and dietically acceptable diluents, vehicles, carriers or mixtures thereof and method of preparing the formulation.

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

*Self Attested
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DIA

Date of filing of Application :24/08/2019

(43) Publication Date : 06/09/2019

Title of the invention : FORMULATION OF ANTI-DIABETIC HERBAL TABLETS FROM METHANOLIC PLANT EXTRACT OF CLEMATIS BUCHANANIANA

International classification	:A61K1/00	(71)Name of Applicant :
Priority Document No	:NA	1)Dr. Upendra Prasad Bhatt
Priority Date	:NA	Address of Applicant :Department of Chemistry, H.N.
Name of priority country	:NA	Garhwal (A Central University) Srinagar Garhwal Uttarakhand
International Application No	:NA	India Uttarakhand India
Filing Date	:NA	2)Dr. Subhash Chandra
International Publication No	:NA	3)Dr. Sarla Saklani
Content of Addition to Application Number	:NA	4)Prof. Rajendra Prasad Bahuguna
Filing Date	:NA	(72)Name of Inventor :
Divisional to Application Number	:NA	1)Dr. Upendra Prasad Bhatt
Filing Date	:NA	2)Dr. Subhash Chandra
		3)Dr. Sarla Saklani
		4)Prof. Rajendra Prasad Bahuguna

Abstract :

The invention provides the formulation comprising at least one component selected from the extract of aerials derived from Clematis buchaniana and dietically acceptable diluents, vehicles, carriers or mixtures thereof and method of preparing the said formulation.

Pages : 27 No. of Claims : 8

Self Attested
[Signature]

Title of the invention : FORMULATION OF ANTI-EPILEPTIC HERBAL COMPOSITION COMPRISING EXTRACT
:TYNIA ANNUA AND ALBIZIA LEBBECK

International classification	:A61K 36/48 A61K 36/185 A61K 36/28	(71)Name of Applicant : 1)Dr. Sarla Saklani Address of Applicant :Department of Pharmaceutical Chemistry, H.N.B. Garhwal University, Srinagar Garhwal, Uttarakhand, India. PIN 246174 Uttarakhand India 2)Dr. Neeti Srivastav
Priority Document No	:NA	(72)Name of Inventor :
Priority Date	:NA	1)Dr. Sarla Saklani
Name of priority country	:NA	2)Dr. Neeti Srivastav
International Application No	:NA	
Filing Date	:NA	
International Publication No	:NA	
Patent of Addition to Application Number	:NA	
Filing Date	:NA	
Divisional to Application Number	:NA	
Filing Date	:NA	

Abstract :

vention provides novel formulation comprising the plant extracts of Albizia lebeck and Martynia annua, showing synergis
1 compared to combined activity with their individual results. The pharmaceutical anti-epileptic herbal formulation, comprise
olic extracts of leaves of Martynia annua and Albizia lebeck along with pharmaceutically acceptable excipients. The herbal
osition of the invention is free from side-effects. The formulation is very stable and economic. The composition of the invent
bal and plant based which can emerge as a preferred alternative for chronic diseases like epilepsy due to their moderate costs.
: side effects, easy availability and no drug resistance.

of Pages : 30 No. of Claims : 6

self Attested
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(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211039591 A

(19) INDIA

(22) Date of filing of Application :11/07/2022

(43) Publication Date : 22/07/2022

(54) Title of the invention : SATYRIUM NEPALENSE EXTRACT ACTING AGAINST CANCER AND METHOD FOR PREPARATION THEREOF

<p>(51) International classification :A61K0036898000, A61K0009200000, A61K0009160000, A61K0047120000, B01J0020300000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Monika Kawra Address of Applicant :Uttarakhand Technical University, Dehradun Uttarakhand India 248001 Dehradun -----</p> <p>2)Dr. Sarla Saklani 3)Dr. Versha Parcha Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Monika Kawra Address of Applicant :Uttarakhand Technical University, Dehradun Uttarakhand India 248001 Dehradun -----</p> <p>2)Dr. Sarla Saklani Address of Applicant :Head, Department of pharmaceutical Chemistry H.N.B.G.U Srinagar Garhwal, Srinagar Uttarakhand India Srinagar -----</p> <p>3)Dr. Versha Parcha Address of Applicant :Department of Pharmaceutical Chemistry & Chemistry, Dolphin (P. G.) Institute of Biomedical and Natural Sciences, Dehradun Uttarakhand India 248001 Dehradun -----</p>
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(57) Abstract :

The present invention relates to Satyrium nepalense root extract acting against cancer. The method for the preparation of Satyrium nepalense extract tablets acting as an anti-cancer agent, comprises steps of: i) collecting crude extract of Satyrium nepalense in the range of 10% to 15% w/v, spray dried maltodextrin powder in the range of 70% to 75% w/v, starch in the range of 5% to 6% w/v and magnesium stearate in the range of 10% to 15% w/v and crushing to form a fine powder, ii) preparing granules by adding Polyvinylpyrrolidone (PVP) and Isopropyl alcohol in sufficient quantities, iii) sieving the obtained granules through a sieve and drying said sieved granules; and iv) compressing said dried granules to form tablets.

No. of Pages : 23 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211035654 A

(19) INDIA

(22) Date of filing of Application :21/06/2022

(43) Publication Date : 01/07/2022

(54) Title of the invention : A POLYHERBAL FORMULATION FOR THE TREATMENT OF DIABETES MELLITUS AND ITS ASSOCIATED COMPLICATIONS

<p>(51) International classification :A61K0036185000, A61K0036488000, A61P0003100000, A61K0036899000, A61K0009200000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Sarla Saklani Address of Applicant :Assistant Professor & HoD, Department of Pharmaceutical Chemistry, H.N.B Garhwal (A Central University) Srinagar Garhwal Uttarakhand, India Pin 246174 Srinagar Garhwal -----</p> <p>2)Dr. Subhash Chandra 3)Dr. Dinesh Prasad Saklani 4)Dr. Prabhakar Prasad Badoni 5)Mrs. Shrivatsa Semwal 6)Dr. Abhishek Mathur Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Sarla Saklani Address of Applicant :Assistant Professor & HoD, Department of Pharmaceutical Chemistry, H.N.B Garhwal (A Central University) Srinagar Garhwal Uttarakhand, India Pin 246174 Srinagar Garhwal -----</p> <p>2)Dr. Subhash Chandra Address of Applicant :Assistant Professor, Department of Pharmaceutical Chemistry, H.N.B Garhwal (A Central University) Uttarakhand, India Pin 246174 Srinagar Garhwal -----</p> <p>3)Dr. Dinesh Prasad Saklani Address of Applicant :Professor, Department of History & Archeology, H.N.B Garhwal (A Central University) Srinagar Garhwal Uttarakhand, India Pin 246174 Srinagar Garhwal -----</p> <p>4)Dr. Prabhakar Prasad Badoni Address of Applicant :Professor & HoD, Department of Chemistry, Pauri Campus, H.N.B Garhwal (A Central University) Srinagar Garhwal Uttarakhand, India Pin 246174 Pauri -----</p> <p>5)Mrs. Shrivatsa Semwal Address of Applicant :Research Scholar, Department of Education, H.N.B Garhwal (A Central University) , Uttarakhand, India Pin 246174 Srinagar Garhwal -----</p> <p>6)Dr. Abhishek Mathur Address of Applicant :Scientist, Technical and R&D), Prathista PIL – MNC, Hyderabad, Telangana, India 500010 India Hyderabad -----</p>
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(57) Abstract :

The present invention relates to a polyherbal formulation for preventing and treating diabetes and the associated complications such as renal complications, oxidative damage to the heart and its blood vessels, hypertension. A Polyherbal tablet for the treatment of diabetes and associated complications comprising of Polyherbal extract of various plants, Lactose, Starch, Magnesium Stearate and Talc. The present formulation decreases blood glucose level with the passage of time of dosing and repeated dosing of plant extracts.

No. of Pages : 23 No. of Claims : 4



पेटेंट कार्यालय, भारत सरकार

The Patent Office, Government Of India

पेटेंट प्रमाण पत्र

Patent Certificate

(पेटेंट नियमान्वली का नियम 74)

(Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No. : 447934
आवेदन सं. / Application No. : 4233/DEL/2015
फाइल करने की तारीख / Date of Filing : 22/12/2015
पेटेंटी / Patentee : HEMWATI NANDAN BAHUGUNA GARHWAL UNIVERSITY

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित *A FORMULATION COMPRISING SATYRIUM NAPALENSE AND METHOD OF PREPARING THE SAME* नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आन तारीख दिसम्बर 2015 के बर्दसने दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled *A FORMULATION COMPRISING SATYRIUM NAPALENSE AND METHOD OF PREPARING THE SAME* as disclosed in the above mentioned application for the term of 20 years from the 22nd day of December 2015 in accordance with the provisions of the Patents Act, 1970.



पेटेंट नियंत्रक
Controller of Patents

अनुदान की तारीख : 29/08/2023
Date of Grant :

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, दिसम्बर 2017 के बर्दसने दिन को और उसके पश्चात प्रत्येक वर्ष में उसी दिन देना होगा।
Note - The fees for renewal of this patent, if it is to be maintained, will fall / has fallen due on 22nd day of December 2017 and on the same day in every year thereafter.



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GEOGRAPHICAL INDICATIONS



सत्यमेव जयते

भारत सरकार
GOVERNMENT OF INDIA

पेटेंट कार्यालय
THE PATENT OFFICE

पेटेंट प्रमाणपत्र
PATENT CERTIFICATE
(Rule 74 of The Patents Rules)

क्रमांक : 011147375
SL No :



पेटेंट सं. / Patent No. : 399109
आवेदन सं. / Application No. : 202011056345
फाइल करने की तारीख / Date of Filing : 24/12/2020
पेटेंटी / Patentee : 1.Dr. Sarla Saklani 2.Dr. Neeti Srivastav

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित FORMULATION OF ANTI-EPILEPTIC HERBAL COMPOSITION COMPRISING EXTRACTS OF MARTYNIA ANNUA AND ALBIZIA LEBBECK नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख दिसम्बर 2020 के चौबीसवें दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled FORMULATION OF ANTI-EPILEPTIC HERBAL COMPOSITION COMPRISING EXTRACTS OF MARTYNIA ANNUA AND ALBIZIA LEBBECK as disclosed in the above mentioned application for the term of 20 years from the 24th day of December 2020 in accordance with the provisions of the Patents Act,1970.



अनुदान की तारीख : 14/06/2022
Date of Grant :

पेटेंट नियंत्रक
Controller of Patent

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

Note. - The fees for renewal of this patent, if it is to be maintained will fall / has fallen due on 24th day of December 2022 and on the same day in every year thereafter.

Title of the invention : FORMULATION OF ANTI-EPILEPTIC HERBAL COMPOSITION COMPRISING EXTRACT
:TYNIA ANNUA AND ALBIZIA LEBBECK

International classification	:A61K 36/48 A61K 36/185 A61K 36/28	(71)Name of Applicant : 1)Dr. Sarla Saklani Address of Applicant :Department of Pharmaceutical Chemistry, H.N.B. Garhwal University, Srinagar Garhwal, Uttarakhand, India. PIN 246174 Uttarakhand India 2)Dr. Neeti Srivastav
Priority Document No	:NA	(72)Name of Inventor :
Priority Date	:NA	1)Dr. Sarla Saklani
Name of priority country	:NA	2)Dr. Neeti Srivastav
International Application No	:NA	
Filing Date	:NA	
International Publication No	:NA	
Patent of Addition to Application Number	:NA	
Filing Date	:NA	
Divisional to Application Number	:NA	
Filing Date	:NA	

Abstract :

vention provides novel formulation comprising the plant extracts of Albizia lebeck and Martynia annua, showing synergis
1 compared to combined activity with their individual results. The pharmaceutical anti-epileptic herbal formulation, comprise
olic extracts of leaves of Martynia annua and Albizia lebeck along with pharmaceutically acceptable excipients. The herbal
osition of the invention is free from side-effects. The formulation is very stable and economic. The composition of the invent
bal and plant based which can emerge as a preferred alternative for chronic diseases like epilepsy due to their moderate costs.
: side effects, easy availability and no drug resistance.

of Pages : 30 No. of Claims : 6

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Application Details

APPLICATION NUMBER	201911023688
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	14/06/2019
APPLICANT NAME	1 . RAJNI KANT SHARMA 2 . DEVENDRA SINGH NEGI
TITLE OF INVENTION	ANTIFEEDANT COMPOSITION OF BOENNINGHAUSENIAALBIFLORA AND METHODS THEREOF
FIELD OF INVENTION	BIOTECHNOLOGY
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ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	27/04/2022
PUBLICATION DATE (U/S 11A)	21/06/2019

Application Status

APPLICATION STATUS

Application Awaiting Examination

[View Documents](#)



Application Details

APPLICATION NUMBER	202011004587
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	03/02/2020
APPLICANT NAME	1 . Prof.(Dr.) D.S. Negi 2 . Dr. Mohd Faheem Khan
TITLE OF INVENTION	ANTIDIABETIC HERBAL FORMULATION PREPARED FROM MELIAAZEDARACHAND METHODS THEREOF
FIELD OF INVENTION	BIOTECHNOLOGY
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	27/04/2022
PUBLICATION DATE (U/S 11A)	14/02/2020

Application Status

APPLICATION STATUS	Application Awaiting Examination
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[View Documents](#)

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211027939 A

(19) INDIA

(43) Publication Date : 20/05/2022

(22) Date of filing of Application :16/05/2022

(54) Title of the invention : PLANT DERIVED ANTIFEEDANT AGENTS AGAINST POLYPHAGOUS PEST SPODOPTERA LITURA

(51) International classification :A61K0036539000, A61K0036530000, A01N0065000000, A01K0067033000, A23K0050900000
(86) International Application No Filing Date :NA :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number Filing Date :NA :NA
(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :

PLANT DERIVED ANTIFEEDANT AGENTS AGAINST POLYPHAGOUS PEST SPODOPTERA LITURA In this present invention, the two plants scutellaria scandens (Lamiaceae) and hyptis suaveolens (Lamiaceae) were collected in flowering season from Uttarakhand Himalaya. The collected plant material was dried in shade and then extracted with 80% ethanol using soxhlet apparatus. Larvae of the pest were collected from field and cultured on castor leaves in lab. The different extract alone and in combination were tested against third instar larvae of Spodoptera litura by leaf dip method. Extracts were dissolved in small quantity of ethanol and diluted with water containing 0.05% Triton X100. small leaf disc of castor leaves were prepared and dipped in each extract for around 20 sec. the leaf discs dipped only in water is taken as control. On dried leaf discs 5 larvae of pest were released. Three replicates were maintained. Larval weight was taken after 5 days of treatment.

No. of Pages : 14 No. of Claims : 6



Australian Government

IP Australia

CERTIFICATE OF GRANT INNOVATION PATENT

Patent number: 2021102643

The Commissioner of Patents has granted the above patent on 7 July 2021, and certifies that the below particulars have been registered in the Register of Patents.

Name and address of patentee(s):

Alok Sagar Gautam of Department of Physics, Hemvati Nandan Bahuguna Garhwal University (A Central University) Srinagar, Garhwal Uttarakhand 246174 India

Sanjeev Kumar of Department of Physics, Hemvati Nandan, Bahuguna Garhwal University, (A Central University) Srinagar Garhwal Uttarakhand 246174 India

Title of invention:

A SYSTEM FOR MULTI-DIRECTIONAL DISINFECTION OF OBJECT AND A METHOD THERE OF

Name of inventor(s):

Gautam, Alok Sagar and Kumar, Sanjeev

Term of Patent:

Eight years from 18 May 2021

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



Dated this 7th day of July 2021

Commissioner of Patents

PATENTS ACT 1990

The Australian Patents Register is the official record and should be referred to for the full details pertaining to this IP Right.

Extracts from the Patents Act, 1990

Sect 120(1A) Infringement proceedings in respect of an innovation patent cannot be started unless the patent has been certified.

Sec 128 **Application for relief from unjustified threats**

- (1) Where a person, by means of circulars, advertisements or otherwise, threatens a person with infringement proceedings or other similar proceedings a person aggrieved may apply to a prescribed court, or to another court having jurisdiction to hear and determine the application, for:
- (a) a declaration that the threats are unjustifiable; and
 - (b) an injunction against the continuance of the threats; and
 - (c) the recovery of any damages sustained by the applicant as a result of the threats.
- (2) Subsection (1) applies whether or not the person who made the threats is entitled to, or interested in, the patent or a patent application.

Sec 129A **Threats related to an innovation patent application or innovation patent and courts power to grant relief.**

Certain threats of infringement proceedings are always unjustifiable.

- (1) If:
- (a) a person:
 - (i) has applied for an innovation patent, but the application has not been determined; or
 - (ii) has an innovation patent that has not been certified; and
 - (b) the person, by means of circulars, advertisements or otherwise, threatens a person with infringement proceedings or other similar proceedings in respect of the patent applied for, or the patent, as the case may be; then, for the purposes of an application for relief under section 128 by the person threatened, the threats are unjustifiable.

Courts power to grant relief in respect of threats made by the applicant for an innovation patent or the patentee of an uncertified innovation patent

- (2) If an application under section 128 for relief relates to threats made in respect of an innovation patent that has not been certified or an application for an innovation patent, the court may grant the application the relief applied for.

Courts power to grant relief in respect of threats made by the patentee of certified innovation patent

- (3) If an application under section 128 for relief relates to threats made in respect of a certified innovation patent, the court may grant the applicant the relief applied for unless the respondent satisfies the court that the acts about which the threats were made infringed, or would infringe, a claim that is not shown by the applicant to be invalid.

Schedule 1 **Dictionary**

certified, in respect of an innovation patent other than in section 19, means a certificate of examination issued by the Commissioner under paragraph 101E(e) in respect of the patent

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111051851 A

(19) INDIA

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

(43) Publication Date : 26/11/2021

(54) Title of the invention : COPLANAR WAVEGUIDE FED CLOVER SHAPED ANTENNA FOR BIOMEDICAL APPLICATIONS

(51) International classification : H01Q0001380000, H01Q0001480000, H01Q0001400000, H01Q0001360000, H01Q0009420000

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

(37) International Publication No : NA

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

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

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2)Dr. Alok Sagar Gautam
3)Dr. Ch. V. Ramana Murthy
4)V. KUSHICK
5)Dr. Achyut Shankar
6)B. Shivalal Patro
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
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Address of Applicant :Assistant Professor, Department of Computer Science , Government Bikram College of Commerce, Lehal colony, Patiala, Patiala, India - 147001 -----
2)Dr. Alok Sagar Gautam
Address of Applicant :Assistant Professor, Department of Physics, Hemvati Nandan Bahugana Garhwal University (A Central University) Srinagar Garhwal, Uttarakhand, India - 246174 -----
3)Dr. Ch. V. Ramana Murthy
Address of Applicant :Professor of Applied Mathematics, Department of Applied Mathematics, Koperu Lakshmaiah Education Foundation, Greenfields, Vaddarwaram, Andhra Pradesh, India - 522502 -----
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Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering, Saranathan College of Engineering, Venkateswara Nagar, Panjappur, Tiruchirappalli, Tamilnadu, India - 620012 -----
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(57) Abstract :
The present invention relates to a coplanar waveguide fed clover shaped antenna for biomedical applications. A novel flexible implantable coplanar waveguide fed clover leaf shaped monopole antenna for ISM band biomedical applications is presented with a compact size of 14 x 12 x 0.65 mm . Hence it can be embedded into human body liquid conveniently. The resonant frequency of the in body antenna is ISM band (2450 MHz) and the bandwidth is 210 MHz from the measurements. Due to superior permittivity and quality factor of the ceramic substrates, implantable antenna exhibit lower return loss, good VSWR, better impedance matching at 50 Ω with CPW structure. Therefore, the proposed antenna is the suitable structure for ISM band frequency of 2.45 GHz for the field of biomedical engineering applications.

No. of Pages : 7 No. of Claims : 3

Self Attested
[Signature]

(12) PATENT APPLICATION PUBLICATION

(21) Application No. 202111053834 A

(19) INDIA

(22) Date of filing of Application : 23/11/2021

(43) Publication Date : 03/12/2021

(54) Title of the invention : PROBABILISTIC METHOD IN APPLIED MATHEMATICS FOR RESTRUCTURING POWER SYSTEMS

(51) International classification : G06Q0040040000, G06Q0050060000, G06Q0040060000, H04L0025497000, H02J0003060000

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

(87) International Publication No : NA

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

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

(71) Name of Applicant :

1) Dr. Mukesh Grover

Address of Applicant : Assistant Professor, Department of Mathematics, Maharaja Ranjit Singh Punjab Technical University, Bathinda, Punjab, INDIA -----

2) Prof. Jay Prakash Tiwari

3) Dr. Rojalini Patro

4) Dr. Manoj Dubey

5) Dr. S. Vimal

6) Dr. Alok Sagar Gautam

Name of Applicant : NA

Address of Applicant : NA

(72) Name of Inventor :

1) Dr. Mukesh Grover

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3) Dr. Rojalini Patro

Address of Applicant : Assistant Professor (HOD) Mathematics, NIIS Group of Institutions, Patrapada, Bhubaneswar 751019 India -----

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Address of Applicant : Associate Professor, Department of Mathematics, IPSA, IES, Indore -----

5) Dr. S. Vimal

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6) Dr. Alok Sagar Gautam

Address of Applicant : Assistant Professor, Department of Physics, Hemvati Nandan Bahuguna Garhwal University (A Central University) Srinagar Garhwal Uttarakhand India- 246174 -----

(57) Abstract :

The present invention relates to a probabilistic method in applied mathematics for restructuring power systems. Power restructuring, a systematic running of modifying the rules and instructions that control the power market to impart consumers for the option of power producing, those are may be traders and allowing rivalry within the traders. Deregulation improves the stock rate and usage. Due to gain in the electric market, the power rates are likely to come down which welfare the consumers. The achievements in system engineering in advancing power system reliability and security over the last three decades, accomplished by taking full advantages of advances in computer, communication, and control technologies, are truly remarkable.

No. of Pages : 8 No. of Claims : 1

(54) Title of the invention : HYBRID NANOPARTICLES BASED PHOTOCATALYTIC COATING, ITS PRODUCTION PROCESS AND USE THEREOF.

<p>(51) International classification :B01J0035000000, B82Y0030000000, B01J0035100000, B01J0021060000, B01J0035020000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)Chittaranjan Bhakat Address of Applicant :Department of Chemistry, National Institute of Technology Jamshedpur, Jharkhand, India - 831014 --- ----- 2)Dr. Balram Ambade 3)Dr. Alok Sagar Gautam Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Chittaranjan Bhakat Address of Applicant :Department of Chemistry, National Institute of Technology Jamshedpur, Jharkhand, India - 831014 ----- -- ----- 2)Dr. Balram Ambade Address of Applicant :Associate Professor, Department of Chemistry, National Institute of Technology, Jamshedpur, Jharkhand - 831014 ----- 3)Dr. Alok Sagar Gautam Address of Applicant :Assistant Professor, Department of Physics, Hemvati Nandan Bahuguna Garhwal University (A Central University), Srinagar, Garhwal, Uttarakhand, India -246174 ----- -----</p>
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(57) Abstract :

In this present invention, we have disclosed a novel hybrid nanoparticle copper-silver-zinc-titanium dioxide based Nano Photocatalyst coating for commercial application as a nano coating, which is water-based. The antimicrobial activity of metal nanoparticles is well known. Ag, Cu and ZnO incorporated in this formulation along with titanium dioxide nanoparticles. The nanoparticle-based coating solution manufactured with this technique is useful for spray coating applications. Nanoparticles have a very high surface-to-volume ratio when compared to their bulk counterparts, which has a significant impact on their properties. The coating forms a thin layer on the coated substrate and acts as a barrier. It does not require pre-activation to initiate photocatalytic activity. Silver and copper nanoparticles are non-toxic and have fast sterilization. These nanoparticles not only protect against bacteria, viruses, fungus, and VOCs, but also help prevent cross-contamination. The hybrid nanoparticles adhere to any surface and provide a self-cleaning effect, also known as photocatalytic effects. The characterization of nanoparticles is done via UV-visible spectrophotometer, SEM, TEM, and XRD analysis

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202231034123 A

(19) INDIA

(22) Date of filing of Application :14/06/2022

(43) Publication Date : 08/07/2022

(54) Title of the invention : Nanoparticles based composite disinfectant, its formulation and its applications

(51) International classification :B82Y0030000000, A01N0059160000, B82Y0040000000, A61L0009140000, A01N0059000000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

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

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

(71)Name of Applicant :

1)Dr. Balram Ambade

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2)Mr. Chittaranjan Bhakat

3)Dr. Alok Sagar Gautam

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Balram Ambade

Address of Applicant :Associate Professor, Department of Chemistry, National Institute of Technology, Jamshedpur, Jharkhand – 831014, India -----

2)Mr. Chittaranjan Bhakat

Address of Applicant :Department of Chemistry, National Institute of Technology Jamshedpur, Jharkhand – 831014, India -----

3)Dr. Alok Sagar Gautam

Address of Applicant :Assistant Professor, Department of Physics, Hemvati Nandan Bahuguna Garhwal University (A Central University), Srinagar, Garhwal, Uttarakhand, India-246174 -----

(57) Abstract :

In this invention, we have disclosed a novel nanoparticles composite based disinfectant for commercial application as a nano disinfectant which is completely water-based and can be diluted with distilled water for further applications. A variety of nanoparticles can be incorporated in this formulation such as Ag, Cu, Zn, Au, Co, Ni, etc based on its properties. The nanoparticles-based disinfectant manufactured with this technique is useful in all possible applications: spray, coating, fogging, etc. the nanoparticles have a high surface-to-volume ratio as compared to their bulk counterpart, due to their nano-size it is easily absorbed by all types of surfaces, silver-based disinfectants are non-toxic and fast sterilization. These nanoparticles not only protect from bacteria, viruses, and fungus but also help prevent cross-contamination. Silver nanoparticles adhere to the cell wall of the cytoplasmic membrane and disrupt its development which ultimately kills the microbes characterization of nanoparticles is done via UV-visible spectrophotometer, TEM analysis.

No. of Pages : 8 No. of Claims : 3

(54) Title of the invention : Intelligent caregiver wireless monitor and motion sensor for safe home system applicable for elderly people

<p>(51) International classification :G06K0009000000, G08B0021040000, G06K0009620000, G08B0029180000, G08B0025000000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)S ARUN Address of Applicant :SUBRAMANIYA BHARATHI ST ,BALAJI NAGAR NAGAR , ANAKAPUTHUR ,CHENNAI -----</p> <p>2)Ramesh Mishra,Institute of Engineering Technology Dr Rammanohar Lohia Avadh University</p> <p>3)Dr. Sanjeet Pandey,Dr Rammanohar Lohia Avadh University</p> <p>4)Partha Sarkar ,Research Scholar,NIT</p> <p>5)VNR Vignana Jyothi Institute of Engineering and Technology</p> <p>6)Dr G.S.Thakur,MANIT</p> <p>7)Dr Alok Sagar Gautam,Hemvati Nandan Bahuguna Garhwal University</p> <p>8)Suparba Tapna,Durgapur Institute of Advanced Technology & Management</p> <p>9)Dr. Sanjive Tyagi,Subharti Institute of Technology and Engineering</p> <p>10)Dr. Sumit Kumar,</p> <p>11)Mohit kumar,student Galgotias university</p> <p>12)Surendra Singh Chauhan,Galgotias University</p> <p>13)Dr.Vineet Kumar Singh,Institute of Engineering and Technology Dr Rammanohar Lohia Avadh University</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Ramesh Mishra,Institute of Engineering Technology Dr Rammanohar Lohia Avadh University Address of Applicant :Assistant Professor Electronics and Communication Institute of Engineering Technology Dr Rammanohar Lohia Avadh University Ayodhya, Uttar Pradesh India 224001 -----</p> <p>2)Dr. Sanjeet Pandey,Dr Rammanohar Lohia Avadh University Address of Applicant :Assistant Professor, Bachelor of computer science Dr Rammanohar Lohia Avadh University Ayodhya, Uttar Pradesh Uttar Pradesh India 224001 -----</p> <p>3)Partha Sarkar Research Scholar,NIT Address of Applicant :Department of ECE NIT Durgapur India -----</p> <p>4)Dr. Ranjan Kumar Senapati,VNR Vignana Jyothi Institute of Engineering and Technology Address of Applicant :Professor, Department of ECE VNR Vignana Jyothi Institute of Engineering and Technology Hyderabad Telengana India 500 090 -----</p> <p>5)Dr G.S.Thakur,MANIT Address of Applicant :MBC Department MANIT Near Kali Mata Mandir Bhopal, Madhya Pradesh India 462003 -----</p> <p>6)Dr Alok Sagar Gautam,Hemvati Nandan Bahuguna Garhwal University Address of Applicant :Assistant Professor Department of Physics Hemvati Nandan Bahuguna Garhwal University (A Central University) Srinagar Garhwal Uttarakhand India -----</p> <p>7)Suparba Tapna,Durgapur Institute of Advanced Technology & Management Address of Applicant :Assistant Professor Department-ECE Durgapur Institute of Advanced Technology & Management India -----</p> <p>8)Dr. Sanjive Tyagi,Subharti Institute of Technology and Engineering Address of Applicant :Associate Professor Subharti Institute of Technology and Engineering Swami Vivekanand Subharti University Meerut, Uttar Pradesh India -----</p> <p>9)Dr. Sumit Kumar, Address of Applicant :Pune Maharashtra India -----</p> <p>10)Mohit kumar,student Galgotias university Address of Applicant :student Galgotias university BCA student greater noida,U.P India -----</p> <p>11)Surendra Singh Chauhan,Galgotias University Address of Applicant :Assistant Professor Galgotias University Greater Noida U.P. India -----</p> <p>12)Dr.Vineet Kumar Singh,Institute of Engineering and Technology Dr Rammanohar Lohia Avadh University Address of Applicant :Assistant Professor Information Technology Institute of Engineering and Technology Dr Rammanohar Lohia Avadh University Ayodhya, Uttar Pradesh India 224001 -----</p>
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(57) Abstract :

As elderly people require care and support to live a healthy and secure existence free of anxieties and worry, it is critical to prioritise older people today. Inadequate knowledge of elderly people's growing behavioural trends at home leads to their relatives' harassment of them. We've developed a feasible home security system for the elderly that can be put in their houses here. We built a smart home security system that incorporates pedestrian monitoring, facial recognition, and fall detection, utilising open-source hardware for cameras and networks. To recognise moving objects, we employ the KNN model context subtraction method in conjunction with the open source OpenCV library and combine it with hog-svm to construct a pedestrian tracking module. To extract facial characteristics, a trained vggnet-16 neural network model is employed, followed by the development of a face recognition module suitable for international alarm intrusion. On the basis of the original openpose, the caffnet model was modified to the mobilenet model for human motion recognition. At 18 key places on the body trunk, information on the location of six key points was gathered, and the role of fall detection was realised by integrating the SVM classifier. By integrating the GSM module, the details of the elderly man's residence and fall would be communicated for the first time to the elderly man's family members, who can completely ensure the elderly man's safety. According to our experiment, face recognition's fall behaviour recognition performance is strong; the face recognition rate can reach 85 percent, the fall behaviour recognition rate can reach more than 90 percent, and the fall false alarm rate is less than 10% for strangers and elders. As such, the recommended strategy should be applied in practise.

No. of Pages : 12 No. of Claims : 6

Title of the invention : A FORMULATION FOR PROMOTING GROWTH IN CULTURE OR IN FIELD

International classification	:A01N	(71)Name of Applicant :
Priority Document No	:NA	1)Amit Kumar
Priority Date	:NA	Address of Applicant :Research Scholar (Biotechnology),
Name of priority country	:NA	H.N.B. Garhwal University, Vikashpuri Colony Old Kabirmath
International Application No	:NA	Lahartara Varanasi- 221103 Uttar Pradesh India Uttar Pradesh
Filing Date	:NA	India
International Publication No	: NA	2)Dr. G.K. Joshi
Patent of Addition to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Amit Kumar
Divisional to Application Number	:NA	2)Dr. G.K. Joshi
Filing Date	:NA	

Abstract :
 Formulation for promoting growth in culture or in field, said formulation prepared from plant parts of weeds Parthenium hysterophorus or Lantana camara. Leaves were collected from Parthenium hysterophorus or Lantana camara. Weeds are air dried, followed by crushing to a powder by a grinder. The leaf powder was then treated with an oxidizing agent and grinded to make a formulation. The invention solves the need of disposing the weeds.

No. of Pages : 13 No. of Claims : 10



Australian Government

IP Australia

CERTIFICATE OF GRANT INNOVATION PATENT

Patent number: 2021107058

The Commissioner of Patents has granted the above patent on 1 December 2021, and certifies that the below particulars have been registered in the Register of Patents.

Name and address of patentee(s):

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Sandeep Kumar of Mechanical Engineering Department, S.O.E.T, H.N.B Garhwal University Srinagar- Garhwal 246174 India

K.K.S. Mer of Director, IT, Gopeshwar, Chamoli Uttarakhand India

Vinay Kumar Patel of Department of Mechanical Engineering, Govind Ballabh Pant Institute of Engineering and Technology Ghurdauri Pauri Garhwal 246001 India

Title of invention:

A METHOD FOR FABRICATING NATURAL FIBER REINFORCED EPOXY COMPOSITES AND EVALUATING VARIOUS PROPERTIES OF THE FABRICATED COMPOSITES

Name of inventor(s):

Gangil, Brijesh; Kumar, Sandeep; Mer, K. K. S. and Patel, Vinay Kumar

Term of Patent:

Eight years from 24 August 2021

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



Dated this 1st day of December 2021

Commissioner of Patents

PATENTS ACT 1990

The Australian Patents Register is the official record and should be referred to for the full details pertaining to this IP Right.

Urkunde

über die Eintragung des
Gebrauchsmusters Nr. 20 2022 100 826

Bezeichnung:

Zusammensetzung zur Herstellung von mit Kiefernadelaschepartikeln
verstärktem Oberflächenverbund

IPC:

C22C 1/05

Inhaber/Inhaberin:

Gupta, Manoj Kumar, Dr., Tehri Garhwal, Uttarakhand, IN
Rajput, Nitesh Singh, Dr., Jaipur, Rajasthan, IN
Rakesh, Pawan Kumar, Dr., Banka, Bihar, IN

Tag der Anmeldung:

14.02.2022

Tag der Eintragung:

03.03.2022

Die Präsidentin des Deutschen Patent- und Markenamts

Cornelia Rudloff-Schäffer

Cornelia Rudloff-Schäffer



München, 03.03.2022

(12) PATENT APPLICATION PUBLICATION

(21) Application No.2896/DEL/2012 A

(19) INDIA

(22) Date of filing of Application :18/09/2012

(43) Publication Date : 18/04/2014

(54) Title of the invention : SYNERGISTIC HERBAL HAIR GROWTH FORMULATION FOR ALOPECIA

(51) International classification

:A61K

(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

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4)TEJ PRAKASH SEVAK

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1)MONA SEMALTY

2)TEJ PRAKASH SEVAK

3)AJAY SEMALTY

4)YUVERAJ SINGH TANWAR

5)MOHAN SINGH MANIYARI RAWAT

(57) Abstract :

Disclosed herein a synergistic and cost effective topical herbal hair growth formulation comprising combination of roots extract and leaves extract of *Urtica dioica*, useful for treating Alopecia Also disclosed herein the process for preparation of said formulation. The said formulation improves the hair anagenic population and extends the anagen phase in hair growth cycle.

No. of Pages : 28 No. of Claims : 9



**INTELLECTUAL
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GEOGRAPHICAL INDICATIONS



सत्यमेव जयते

भारत सरकार
GOVERNMENT OF INDIA

पेटेंट कार्यालय
THE PATENT OFFICE

पेटेंट प्रमाणपत्र
PATENT CERTIFICATE
(Rule 74 Of The Patents Rules)

क्रमांक : 011111900
SL No :



पेटेंट सं. / Patent No. : 309685
आवेदन सं. / Application No. : 2965/DEL/2012
फाइल करने की तारीख / Date of Filing : 24/09/2012
पेटेंटी / Patentee : 1.H.N.B. GARHWAL UNIVERSITY, SRINAGAR
(GARHWAL), (A CENTRAL UNIVERSITY), 2.SEMALTY,
AJAY 3.KUMAR, RAHUL 4.SEMALTY, MONA

प्रमाणित किया जाता है कि पेटेंटी को उपरोक्त आवेदन में यथाप्रकटित A NOVEL SYNERGISTIC HERBAL FORMULATION OF WITHANIA SOMNIFERA FOR ANTIHYPERLIPIDEMIC AND ANTI OBESITY ACTIVITY नामक आविष्कार के लिए, पेटेंट अधिनियम, १९७० के उपबंधों के अनुसार आज तारीख 24th day of September 2012 से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled A NOVEL SYNERGISTIC HERBAL FORMULATION OF WITHANIA SOMNIFERA FOR ANTIHYPERLIPIDEMIC AND ANTI OBESITY ACTIVITY as disclosed in the above mentioned application for the term of 20 years from the 24th day of September 2012 in accordance with the provisions of the Patents Act,1970.



अनुदान की तारीख : 22/03/2019
Date of Grant :

पेटेंट नियंत्रक
Controller of Patent

OKSupta

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, 24th day of September 2014 को और उसके पश्चात प्रत्येक वर्ष में उसी दिन देय होगी।

Note. - The fees for renewal of this patent, if it is to be maintained will fall / has fallen due on 24th day of September 2014 and on the same day in every year thereafter.



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सत्यमेव जयते

भारत सरकार
GOVERNMENT OF INDIA

पेटेंट कार्यालय
THE PATENT OFFICE

पेटेंट प्रमाणपत्र
PATENT CERTIFICATE
(Rule 74 of The Patents Rules)

क्रमांक : 011158840
SL No :



पेटेंट सं. / Patent No. : 426371
आवेदन सं. / Application No. : 2896/DEL/2012
फाइल करने की तारीख / Date of Filing : 18/09/2012
पेटेंटी / Patentee : 1.H.N.B. GARHWAL UNIVERSITY, SRINAGAR
(GARHWAL), (A CENTRAL UNIVERSITY), 2.MONA
SEMALTY 3.AJAY SEMALTY 4.TEJ PRAKASH SEVAK
et al. et al.

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित SYNERGISTIC HERBAL HAIR GROWTH FORMULATION FOR ALOPECIA नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख सितम्बर 2012 के अठारहवें दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled SYNERGISTIC HERBAL HAIR GROWTH FORMULATION FOR ALOPECIA as disclosed in the above mentioned application for the term of 20 years from the 18th day of September 2012 in accordance with the provisions of the Patents Act, 1970.



अनुदान की तारीख : 22/03/2023
Date of Grant :

पेटेंट नियंत्रक
Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, सितम्बर 2014 के अठारहवें दिन को और उसके पश्चात प्रत्येक वर्ष में उसी दिन देय होगी।

Note. - The fees for renewal of this patent, if it is to be maintained will fall / has fallen due on 18th day of September 2014 and on the same day in every year thereafter.

(12) PATENT APPLICATION
PUBLICATION

(21) Application No.202211005703 A

(19) INDIA

(22) Date of filing of Application :02/02/2022 (43) Publication Date : 11/02/2022

(54) Title of the invention : MUCILAGE FROM SAPINDUS MUKOROSI FRUITS
USEFUL AS FOOD AND PHARMACEUTICAL EXCIPIENTS

<p>(51) International classification :A61K0036770000, A61K0009200000, A61Q0019080000, A61K0009480000, A61K0047360000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Peeush Singhal Address of Applicant :Assistant Professor, Department of Pharmaceutical Sciences, Gurukul Kangri (Deemed to be University), Haridwar, Uttarakhand, 249404, India ----- -----</p> <p>2)Dr. Ritu Vishnoi Singhal 3)Dr. Sarvesh Kumar 4)Dr. Vijay Jyoti Kumar 5)Dr. Rajneesh Dutt Kaushik 6)Dr. Prasanna Kumar Kar</p> <p>(72)Name of Inventor : 1)Dr. Peeush Singhal Address of Applicant :Assistant Professor, Department of Pharmaceutical Sciences, Gurukul Kangri (Deemed to be University), Haridwar, Uttarakhand, 249404, India ----- -----</p> <p>2)Dr. Ritu Vishnoi Singhal Address of Applicant :Assistant Professor, Department of Botany, Chinmaya Degree College, BHEL Ranipur, Haridwar, Uttarakhand, 249403, India ----- ----- -</p>
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(57) Abstract :

The present invention relates to plant mucilage from Sapindus mukorossi fruits. The present invention also relates to a process for extracting and separating mucilage gum from Sapindus mukorossi fruits. The mucilage gum from fruits of Sapindus mukorossi of present invention has particles in size range of 75–125 μm . The pH of the 1% w/v powder dispersion of mucilage gum from fruits of Sapindus mukorossi of present invention is 6.45 ± 0.02 . The swelling index of gum is 5.71 ± 0.09 % and the swelling capacity is 18.17 ± 0.19 % w/w. The mucilage gum extracted from Sapindus mukorossi of present invention are useful as food and pharmaceutical excipients. The mucilage gum extracted from Sapindus mukorossi of present invention has potential usefulness as excipients in pharmaceutical dosage forms like tablets, capsules and syrups.

No. of Pages : 25 No. of Claims : 7

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पेटेंट कार्यालय का एक प्रकाशन
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(54) Title of the invention : METHOD FOR PREPARATION OF AGERATUM CONYZOIDES PLANT EXTRACT AND ITS PHARMACOLOGICAL EVALUATION

(51) International classification :A61K0036280000, A61K0036532000, F26B0005040000, A01N0065000000, A61K0035320000

(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

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Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

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Address of Applicant :Assistant Professor, Department of Pharmaceutical Sciences, Gurukul Kangri (Deemed to be University), Haridwar, Uttarakhand, India, Pin-249404 -----

3)Dr. Ritu Vishnoi

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4)Dr. Pramod Kumar

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Address of Applicant :Vice Chancellor & Director, Shobhit University, Adarsh Institutional Area, Babu Vijendra Marg, Gangoh, Distt. Saharanpur, Uttar Pradesh, India, Pin- 247341 -----

(57) Abstract :

The present invention relates to a method for preparation of Ageratum conyzoides plant extract. The process for the preparation of methanolic extracts of Ageratum conyzoides, comprising of drying and powdering Ageratum conyzoides leaves to obtain coarse powder, extracting dry powder of sample using n-hexane, chloroform, ethyl acetate, methanol and water for 72 hours followed by filtration; evaporating the solvents under reduced pressure and obtain a semi solid mass; finally vacuum drying the sample to yield a residue. The extract of present invention was evaluated for antibacterial, wound healing and anti-inflammatory activity of plant extract of Ageratum conyzoides. The extracts of Ageratum conyzoides, wherein the minimum inhibitory concentration against Streptococcus pneumoniae and Klebisella pneumoniae is 128 µg/ml with hexane extract of Ageratum conyzoides, klebisella pneumoniae and staphylococcus aureus is 32µg/ml in chloroform extract of Ageratum conyzoides, pseudomonas aeruginosa is 16 µg/ml in methanolic extract of Ageratum conyzoides and staphylococcus aureus is 8 µg/ml in chloroform and hexane extract of Ageratum conyzoides.

No. of Pages : 22 No. of Claims : 8

(54) Title of the invention : TRANSDERMAL PATCH FORMULATION AND PREPARATION THEREOF

<p>(51) International classification :A61K0009700000, A61K0036280000, A61K0036532000, A61K0009000000, A61K0047360000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Adarsh Vijendra Institute of Pharmaceutical Sciences, Shobhit University Address of Applicant :Adarsh Institutional Area, Babu Vijendra Marg, Gangoh, Distt. Saharanpur, Uttar Pradesh, India-247341 -----</p> <p>2)Dr. Sarvesh Kumar Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Sarvesh Kumar Address of Applicant :Adarsh Vijendra Institute of Pharmaceutical Sciences, Shobhit University, Adarsh Institutional Area, Babu Vijendra Marg, Gangoh, Distt. Saharanpur, Uttar Pradesh, India, 247341 -----</p> <p>2)Dr. Peeush Singhal Address of Applicant :Assistant Professor, Department of Pharmaceutical Sciences, Gurukul Kangri (Deemed to be University), Haridwar, Uttarakhand, India, 249404 -----</p> <p>3)Dr. Ritu Vishnoi Singhal Address of Applicant :Assistant Professor, Department of Botany, Chinmaya Degree College, BHEL Ranipur, Haridwar, Uttarakhand, India, 249403 -----</p> <p>4)Dr. Manisha Address of Applicant :Associate Professor & Head of Botany Department, Chinmaya Degree College, Haridwar, Uttarakhand, India, 249407 -----</p> <p>5)Dr. Vijay Jyoti Kumar Address of Applicant :Associate Professor, Department of Pharmaceutical sciences, H. N. B. Garhwal (A Central University), Chauras Campus, P. O. Kilkileshwar, District Tehri Garhwal, Uttarakhand, India, 249161 -----</p> <p>6)Prof. (Dr.) Ranjit Singh Address of Applicant :Vice Chancellor & Director, Adarsh Vijendra Institute of Pharmaceutical Sciences, Shobhit University, Gangoh, Babu Vijendra Marg, Gangoh, Distt. Saharanpur, Uttar Pradesh, India, 247341 -----</p> <p>7)Dr. Somesh Thapliyal Address of Applicant :Assistant Professor, Department of Pharmaceutical Sciences, H. N. B. Garhwal (A Central University), Chauras Campus, P. O. Kilkileshwar, District Tehri Garhwal, Uttarakhand, India, 249161 -----</p> <p>8)Mr. Lalatendu Mohanty Address of Applicant :Department of Pharmaceutical Sciences, H. N. B. Garhwal (A Central University), Chauras Campus, P. O. Kilkileshwar, District Tehri Garhwal, Uttarakhand, India, 249161 -----</p>
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(57) Abstract :

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.

No. of Pages : 35 No. of Claims : 3



Australian Government

IP Australia

CERTIFICATE OF GRANT INNOVATION PATENT

Patent number: 2021107428

The Commissioner of Patents has granted the above patent on 15 December 2021, and certifies that the below particulars have been registered in the Register of Patents.

Name and address of patentee(s):

AJAY SEMALTY of HNB Garhwal University Chauras campus Srinagar India

MONA SEMALTY of Department of Pharmaceutical Sciences, HNB Garhwal University (A Central University)
SRINAGAR GARHWAL 246174 India

Title of invention:

HERBAL HAIR OIL FORMULATION FOR ANDORGENETIC ALOPECIA: A NOVEL PROCESS TO PRODUCE
A NOVEL AND EFFECTIVE HERBAL OIL

Name of inventor(s):

SEMALTY, AJAY; SEMALTY, MONA; ADHIKARI, LOKESH; PANDEY, MUKESH and MISHRA, HIMANSHU

Term of Patent:

Eight years from 25 August 2021

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



Dated this 15th day of December 2021

Commissioner of Patents

PATENTS ACT 1990

The Australian Patents Register is the official record and should be referred to for the full details pertaining to this IP Right.

डॉ. अजय और डॉ. मोना सेमल्टी के शोध को मिला पेटेंट, दोनों प्रोफेसर का यह शोध गढ़वाल विवि के लिए भी उपलब्धि

अश्वगंधा के बीजों से बनी दवा से रुक सकता है मोटापा

जागरण संवाददाता, श्रीनगर गढ़वाल: अश्वगंधा के बीजों को लेकर गढ़वाल केंद्रीय विश्वविद्यालय के फार्मसी विभाग के डॉ. अजय सेमल्टी और डॉ. मोना सेमल्टी के शोध को भारतीय पेटेंट मिल गया है। गढ़वाल विश्वविद्यालय के लिए यह एक विशिष्ट उपलब्धि भी है। भारत सरकार के पेटेंट कार्यालय ने इसे लेकर डॉ. अजय सेमल्टी और डॉ. मोना सेमल्टी को पेटेंट प्रमाणपत्र भी प्रदान कर दिया गया है। इन दोनों शोधार्थी फैकल्टियों ने स्वयं अपने संसाधनों से लगभग चार साल तक किए गए शोध के बल पर यह उपलब्धि

प्राप्त की है।

अश्वगंधा के बीजों से दवा का जो कांबिनेशन फार्मूलेशन इन दोनों शोधकर्ताओं ने बनाया है, वह पेटेंट हो गया है। डॉ. अजय सेमल्टी ने कहा कि इस शोध कार्य से उनके बनाए गए फार्मूलेशन से यह सिद्ध हुआ है कि अश्वगंधा के बीज मानव शरीर में लिक्विड प्रोफाइल स्तर को जहां नियंत्रित करता है, वहीं मोटापे को रोकने में भी यह बहुत सहायक है। अश्वगंधा के बीजों के इस फार्मूलेशन से बनी दवा से लगभग 40 प्रतिशत तक मोटापा कम किया जा सकता है।



डॉ. अजय सेमल्टी।

जंक फूड के इस दौर में डॉ. अजय सेमल्टी और डॉ. मोना सेमल्टी की इस उपलब्धि को विशेष भी बताया जा रहा



डॉ. मोना सेमल्टी।

है। गढ़वाल केंद्रीय विवि के फार्मसी विभाग के डॉ. अजय सेमल्टी और डॉ. मोना सेमल्टी ने कहा कि यदि संसाधन

और सहयोग मिला तो आने वाले समय में इस पेटेंट को और आगे बढ़ाने पर भी शोध कार्य किया जाएगा। उनके इस शोध कार्य को भारत सरकार के विज्ञान मंत्रालय के नेशनल रिसर्च डेवलपमेंट काउंसिल ने भी सराहा है।

नेशनल बायोडाइवर्सिटी अथॉरिटी चेन्नई के अनुमोदन के उपरान्त भारत सरकार के पेटेंट कार्यालय में उनके इस शोध को 22 मार्च को पेटेंट कर दिया। उनकी यह उपलब्धि गढ़वाल विवि के लिए एक विशिष्ट उपलब्धि भी मानी जा रही है। डॉ. अजय सेमल्टी का कहना है कि अभी तक बाजार में मोटापे

को कम करने के लिए जो हर्बल दवा उपलब्ध होती है, वह पांच वा उससे अधिक हर्बल प्लांट्स के मिश्रण से बनी होती है जबकि पेटेंट हुई उनकी यह दवा मात्र एक ही प्लांट के बीजों के तत्वों से बनी है, जिसकी गुणवत्ता भी अच्छी है। डॉ. मोना सेमल्टी के अब तक 60 से अधिक शोध पत्र और चार पुस्तकें भी प्रकाशित हो चुकी हैं। इस शोध कार्य में उनके सहयोगी रहे राहुल कुमार वर्तमान में भारत सरकार के कर्नाटक एंटीबायोटिक्स लिमिटेड बंगलौर में सीनियर प्रोडक्शन एग्जीक्यूटिव के पद पर कार्यरत हैं।



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Patent number: 2021104039

The Commissioner of Patents has granted the above patent on 30 March 2022, and certifies that the below particulars have been registered in the Register of Patents.

Name and address of patentee(s):

Preeti Singh of Department of Microbiology, H.N.B. Garhwal University Srinagar (Garhwal) 246174 India

Title of invention:

A DEVICE ALGFLOW TO REDUCE CARBON DIOXIDE LEVELS IN THE ATMOSPHERE

Name of inventor(s):

Singh, Preeti; Negi, Rahul and Kunwar Singh, Rahul

Term of Patent:

Eight years from 10 July 2021

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



Dated this 30th day of March 2022

Commissioner of Patents

PATENTS ACT 1990

The Australian Patents Register is the official record and should be referred to for the full details pertaining to this IP Right.

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(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111049235 A

(19) INDIA

(22) Date of filing of Application :28/10/2021

(43) Publication Date : 26/11/2021

(54) Title of the invention : A MANAGEMENT SYSTEM AND METHOD FOR MULTIMEDIA COMMERCE SYSTEM.

<p>(51) International classification :G06F0009445000, G06Q0030060000, H04W0004600000, G06Q0030020000, H04N0019152000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No :NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Manpreet Kaur Address of Applicant :Associate Professor, SGT University , Gurugram Faculty of Commerce and Management, House No. 2925, Sector-23, Gurugram, Haryana , 122017, INDIA ----- 2)Dr. Purvi Pujari 3)Mrs. Priyeta Priyadarshini 4)Dr. M. Padmavathi 5)Dr. Geetika Madaan 6)Dr. Rachana Saxena 7)Dr. Anoop Pandey 8)Dr. Surya Kant Pal 9)Ms. Revati Ramrao Rautrao 10)Dr. Sukhmeet Kaur Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Manpreet Kaur Address of Applicant :Associate Professor, SGT University , Gurugram Faculty of Commerce and Management, House No. 2925, Sector-23, Gurugram, Haryana , 122017, INDIA ----- 2)Dr. Purvi Pujari Address of Applicant :Associate Professor, DEPT. OF Management, Bharati Vidyapeeth's Institute of Management Studies and Research, Sector-8, CBD Belapur ,Navi Mumbai , Maharashtra , 400614, INDIA ----- 3)Mrs. Priyeta Priyadarshini Address of Applicant :Assistant Professor, DEPT. OF Management, Bharati Vidyapeeth's Institute of Management Studies and Research, Sector-8, CBD Belapur ,Navi Mumbai , Maharashtra , 400614, INDIA ----- 4)Dr. M. Padmavathi Address of Applicant :Professor And Head Of The Department, School Of Management, Sri Krishna College Of Technology , Coimbatore , Tamilnadu 641042, INDIA ----- 5)Dr. Geetika Madaan Address of Applicant :Assistant Professor, University Center for Research & Development, Chandigarh University , Chandigarh University , NH-95, Ludhiana - Chandigarh State Hwy , Chandigarh , Punjab , 140413, INDIA ----- 6)Dr. Rachana Saxena Address of Applicant :Professor, Dept. of Management, 44/4, District Fund Road, Behind Big Bazaar, Javanagar 9th Block , Bengaluru , Karnataka , 560069, INDIA ----- 7)Dr. Anoop Pandey Address of Applicant :Professor, Dept. Of Commerce , BGR Campus, Pauri HNB Garhwal University , Pauri , Uttarakhand , 246001, INDIA ----- 8)Dr. Surya Kant Pal Address of Applicant :Assistant Professor, Dept. of University School of Business-Industry Collaborated Program, H. No. 118, Sandaura, Hariharganj- Pratapgarh , Uttar Pradesh , 230304, INDIA ----- 9)Ms. Revati Ramrao Rautrao Address of Applicant :Assistant Professor, Dept. Of Management, RM Dhariwal Sinhgad Management School , Pune , Maharashtra , 412209, INDIA ----- 10)Dr. Sukhmeet Kaur Address of Applicant :Assistant Professor, Dept. of Dr. Vishwanath Karad MIT World Peace University, MIT-World Peace University, S.No.124, Paud Road, Kothrud , Pune , Maharashtra , 411038, INDIA -----</p>
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(57) Abstract :
The management system and method for multimedia commerce comprising to the management system of the commerce E-commerce system. More particularly present invention relates to the included digital platform as a flexible and extensible Applications Programming Interface (API) pushed platform this is able to seamlessly integrating a plurality of purposeful structures throughout network offerings and capabilities with using its supporting members. Also a) presenting connectivity and preserving plurality of application configuration parameters for helping a network infrastructure of said included digital platform, wherein each of the plurality of software configuration parameters contain parameters related to content material control, safety guide, catalog control, multiplatform support, local patron aid, notifications guide, process management, problem control, order control, and performance management at least one quit utility is evolved primarily based on a plurality of virtual functionalities, in which stated plurality of virtual functionalities accommodates a minimum considered one of tool analytics, far off movement safety.

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

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PUBLICATION OF THE PATENT OFFICE

(22) Date of filing of Application :09/03/2022

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(54) Title of the invention : A METHOD FOR BUSINESS GROWTH THROUGH INNOVATIVE PRODUCT DESIGNS AND TECHNOLOGY SOLUTIONS

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(57) Abstract :
The present invention relates to a method (100) for business growth through innovative product designs and technology solutions. The method (100) comprising the step of creating innovative product designs (101) to help the people to avail benefits in exchange for money, to increase the value of goods/products, to improve the physical appearance; generates standard technology solutions (111) use advance technology using digital marketing, AI and ML to enhance the quality and performance of any business; follow government policies (122); select suitable plant location and capacity planning (123) to develop an effective business strategy of the plant and location plays an important role; consider cultural and social factors (124) to provide deep analysis on cultural diversities and social factors before launching any product or service in the market. The method (100) for business growth through innovative product designs and technology solutions to improve business intelligence.

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