

**LIST OF PATENTS FILED FROM  
R V NORTHLAND INSTITUTE DADRI, G.B. NAGAR**

<b>Serial No.</b>	<b>Publication Date</b>	<b>Type of IPR</b>	<b>Title of Invention</b>
1	15.11.2019	Patent	NANO GEL FORMULATION AND A METHOD THEREOF
2	26.06.2020	Patent	HERBAL NANO PARTICULATE INTRANASAL DELIVERY SYSTEM
3	03.07.2020	Patent	NANOEMULSIFIED TOPICAL FORMULATION WITH ENHANCED WOUND HEALING
4	25.03.2022	Patent	WEARABLE SENSORS BASED MISDIAGNOSIS OF PARKINSON'S DISEASE PREDICTION METHOD USING AND ARTIFICIAL INTELLIGENCE
5	14.03.2023	Design	APPARATUS FOR SYNTHESIS OF NANOPARTICLES
6	01.06.2023	Design	PORTABLE 3D PRINTER FOR DEVELOPMENT OF NANOFIBRES
7	21.07.2023	Design	EXPIRED MEDICINES BURNING MACHINE

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911038399 A

(19) INDIA

(22) Date of filing of Application :23/09/2019

(43) Publication Date : 15/11/2019

(54) Title of the invention : NANOGEL FORMULATION AND A METHOD THEREOF

(51) International classification	:A61K 9/00 A61K 47/00 A61K 31/00	(71)Name of Applicant : 1) <b>Galgotias University</b> Address of Applicant :Plot No. 2, Sector 17-A, Yamuna Expressway Greater Noida 203201, District Gautam Buddh Nagar (U.P.), India. Uttar Pradesh India 2) <b>R.V. Northland Institute</b> Address of Applicant : G.T. Road, Dadri Greater Noida- 203207, District- Gautam Buddh Nagar (U.P.). India.
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1) <b>Dr. Solendra Kumar</b>
(33) Name of priority country	:NA	2) <b>Dr. Sanjar Alam</b>
(86) International Application No	:NA	3) <b>Ramji Gupta</b>
Filing Date	:NA	4) <b>Dr. P.K Sharma</b>
(87) International Publication No	:NA	5) <b>Dr. Pradeep Sharma</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a nanogel formulation for transdermal delivery of phytochemical active agents and a method of preparation of the same. The formulation is based on nanoemulsion for increasing the solubility and bioavailability of an active agent. The nanogel formulation comprises of a phytochemical active agent, an oil phase, a surfactant, a cosurfactant, an aqueous phase and a gelling agent. The nanogel formulation is prepared by a method comprising of following steps: a) dissolving an effective quantity of the phytochemical active agent in the oil phase to form a active agent loaded oil phase, b) adding the surfactant: cosurfactant mixture (Smix) and the aqueous phase to the active agent loaded oil phase to form a nanoemulsion, and c) adding the gelling agent to the nanoemulsion to obtain the nanogel formulation.

No. of Pages : 19 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201811048676 A

(19) INDIA

(22) Date of filing of Application :21/12/2018

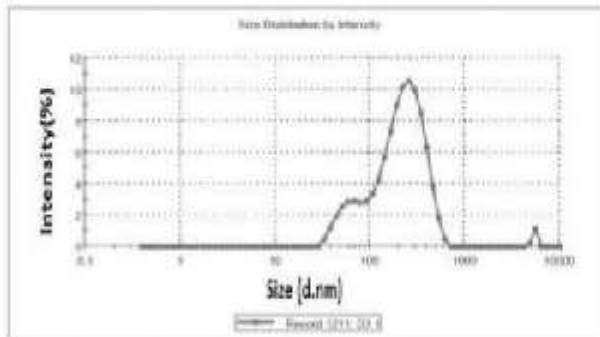
(43) Publication Date : 26/06/2020

(54) Title of the invention : HERBAL NANO PARTICULATE INTRANASAL DELIVERY SYSTEM

(51) International classification	:A61K0031120000, A61K0009000000, A61K0009510000, B82Y0005000000, A61K0009140000	(71)Name of Applicant : 1)ALAM, SANJAR Address of Applicant :C/o R.V. Northland Institute, GT Rd, Chithera, Dadri, Greater Noida-203207, Uttar Pradesh, India Uttar Pradesh India
(31) Priority Document No	:NA	2)CHAUHAN, NITESH
(32) Priority Date	:NA	3)BAJAJ, UMAKANT
(33) Name of priority country	:NA	4)SAHOO, JAGANNATH
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)ALAM, SANJAR
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides a stable and effective herbal nanoparticulate curcumin delivery system to be administered through intranasal (i.n.) route. The optimized curcumin loaded nanoparticles is having size of 183 nm with curcumin: polymer ratio 1:1. The shelf life of curcumin loaded nanoparticle in refrigerated stage (8°C) and at room temperature (25°C) is 2.02 years and 8 years respectively.



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201811049133 A

(19) INDIA

(22) Date of filing of Application :26/12/2018

(43) Publication Date : 03/07/2020

(54) Title of the invention : NANOEMULSIFIED TOPICAL FORMULATION WITH ENHANCED WOUND HEALING EFFICACY

(51) International classification	:A61K0009000000, A61K0047100000, A61K0031120000, A61K0047140000, A61K0009107000	(71)Name of Applicant : 1)ALAM, Sanjar Address of Applicant :C/o R.V. Northland Institute, GT Rd, Chithera, Dadri, Greater Noida-203207, Uttar Pradesh, India Uttar Pradesh India
(31) Priority Document No	:NA	2)KUMAR, Sokindra
(32) Priority Date	:NA	3)SHARMA, Pradeep Kumar
(33) Name of priority country	:NA	4)ARORA, Mahek
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)ALAM, Sanjar
(87) International Publication No	: NA	2)KUMAR, Sokindra
(61) Patent of Addition to Application Number	:NA	3)SHARMA, Pradeep Kumar
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides a nanoemulsified topical formulation comprising of herbal drug curcumin, surfactant, co-surfactant, gelling agent and distilled water with enhanced wound healing activity, cellular permeability and better stability. Preferably, the nanoemulsified topical formulation is in the form of a gel and is having average droplet size of about 46.249 nm to 94.032 nm. The nanoemulsified topical formulation (in gel form) of the present invention is stored in a refrigerator and away from sunlight in a closed amber colored container.



No. of Pages : 19 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241015284 A

(19) INDIA

(22) Date of filing of Application :19/03/2022

(43) Publication Date : 25/03/2022

(54) Title of the invention : Wearable Sensors based Misdiagnosis of Parkinson's Disease perdition method using and Artificial Intelligence (AI)

(31) International classification	:A61B0005000000, A61B0005110000, G16H0050200000, A61E0031198000, G06N0020000000
(36) International Application No	:PCT//
Filing Date	:01/01/1900
(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
(71)Name of Applicant :	1)Dr. S. Kamatchi Address of Applicant :Associate Professor & Head, Department of Electronics and Communication Engineering Jeppiaar Institute of Technology, Sriperumbudur, Chennai Pin: 631604 State: Tamil Nadu Country: India ----- 2)Dr.V.R.Balasaraswathi 3)Dr.M.Shobana 4)Mrs.C.Fancy 5)Dr. S. Saravanan 6)Dr. Sanjar Alam 7)Ms.R.Benazir Begam Name of Applicant : NA Address of Applicant : NA
(72)Name of Inventor :	1)Dr. S. Kamatchi Address of Applicant :Associate Professor & Head, Department of Electronics and Communication Engineering Jeppiaar Institute of Technology, Sriperumbudur, Chennai Pin: 631604 State: Tamil Nadu Country: India ----- 2)Dr.V.R.Balasaraswathi Address of Applicant :Assistant Professor Department of Networking and Communications School of Computing SRM Institute of Science and Technology Kattankulathur Pin: 603203 State: Tamil Nadu Country: India ----- 3)Dr.M.Shobana Address of Applicant :Assistant Professor Department of Networking and Communications School of Computing SRM Institute of Science and Technology Kattankulathur Pin: 603203 State: Tamil Nadu Country: India ----- 4)Mrs.C.Fancy Address of Applicant :Assistant Professor Department of Networking and Communications School of Computing SRM Institute of Science and Technology Kattankulathur Pin: 603203 State: Tamil Nadu Country: India ----- 5)Dr. S. Saravanan Address of Applicant :Assistant professor & Research Guide, PG and Research Department of commerce, Dr. Ambedkar Government Arts College (Autonomous, Affiliated to University of Madras) vyasarpedi, Chennai Pin: 600039 State: Tamil Nadu Country: India ----- 6)Dr. Sanjar Alam Address of Applicant :Principal and Professor Dept of Pharmaceutics R.V. Northland Institute Dabri Greater Noida U.P. Pin: 203207 State: Uttar Pradesh Country: India ----- 7)Ms.R.Benazir Begam Address of Applicant :Assistant Professor, Department of ECE, Rajalakshmi Engineering College, Thandalam, Chennai Pin: 602105 State: Tamil Nadu Country: India -----

(57) Abstract :

Wearable Sensors based Misdiagnosis of Parkinson's Disease perdition method using and Artificial Intelligence (AI) Abstract: Parkinson's disease is a neurological condition affecting the extrapyramidal nervous system. It is only second to Alzheimer's in terms of how it affects the brain. The first signs and symptoms may occur far before retirement age, making it impossible to continue working for an extended period of time. It might be difficult to distinguish between PD and other conditions since they can be confounded. Wearable sensors and artificial intelligence are used to develop a system that offers a second view if a subject fails a test. Motion data was acquired from people suffering from Parkinson's disease (PD) and other extrapyramidal disorders who wore sensors that observed their movements. Patients with Parkinson's disease are compared to other people with the same condition, rather than to healthy controls. Wearable technologies for diagnosing Parkinson's disease can be tested using this method to determine their accuracy. There are a variety of machine learning approaches that can help improve the accuracy of a Parkinson's disease diagnosis by analyzing and classifying data from patients' tremors. When bradykinesia and tremor are examined, Parkinson's disease can be distinguished from other illnesses (f1 score 0.88). A human being is a living being (f1 score of 0.88). Because of the technology's closed-loop nature, you can quickly build routines that are most effective for diagnosing your health. It was determined that 56 of the people who sought medical help were positive.

No. of Pages : 12 No. of Claims : 7



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

### Design Application Details

**Application Number:**

381487-001

**Cbr Number:**

203293

**Cbr Date:**

14/03/2023 21:25:14

**Applicant Name:**

1. Dr. Sanjar Alam    2. Dr. Sumit Sharma    3. Mr. Lalit Parihar  
4. Mr. Yatendra Kumar    5. Mohammad Rashid    6. Dr. Azhar Iqbal  
7. Dr. Swamita Arora    8. Dr. Priyanka Bansal    9. Dr. Babita Aggarwal  
10. Dr. Munish Garg Monga

### Design Application Status

**Application Status:**

Application Accepted, Certificate of Design not Generated.

[Back \(/DesignApplicationStatus/\)](#)

Disclaimer: Application status is available for the application filed on or after 1st April 2009 with application no 222230. The information under " Design Application Status" is dynamically retrieved and is under testing, therefore the information retrieved by this system is not valid for any legal proceedings under the Design Act 2000. In case of any discrepancy you may contact the appropriate Patent Office or send your comments to following email IDs:

Design Office, Kolkata : [controllerdesign.ipo@nic.in](mailto:controllerdesign.ipo@nic.in)

Controller General of Patents, Designs and Trademarks



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

### Design Application Details

**Application Number:**

387456-001

**Cbr Number:**

206841

**Cbr Date:**

01/06/2023 22:10:21

**Applicant Name:**

1. Prof. (Dr.) Sanjar Alam    2. Dr. Mohammad Fazil    3. Mr. Surya Pratap  
4. Mr. Rajeev    5. Ms. Pratiksha Chaudhary    6. Ms. Akshoo Rathi  
7. Ms. Lucky Mangal    8. Mr. Nitin Kaushik    9. Ms. Ayasha Saiffi  
10. Ms. Anamika Vats    11. Mr. Mohit Nagar

### Design Application Status

**Application Status:**

Application Accepted, Certificate of Design not Generated.

[Back \(/DesignApplicationStatus/\)](#)

Disclaimer: Application status is available for the application filed on or after 1st April 2009 with application no 222230. The information under " Design Application Status" is dynamically retrieved and is under testing, therefore the information retrieved by this system is not valid for any legal proceedings under the Design Act 2000. In case of any discrepancy you may contact the appropriate Patent Office or send your comments to following email IDs:

Design Office, Kolkata : [controllerdesign.ipo@nic.in](mailto:controllerdesign.ipo@nic.in)

Controller General of Patents, Designs and Trademarks



July 21, 2023

The Controller of Patents & Designs  
The Patent Office  
Bouddhik Sampada Bhawan  
4<sup>th</sup> Floor, CP-2, Sector - V  
Salt Lake City  
Kolkata – 700091

**NEW DESIGN APPLICATION**

Re: Applicants: **R. V. NORTHLAND INSTITUTE, PROF. (DR.) SANJAR ALAM, MR. YATENDRA KUMAR, MOHAMMAD RASHID, DR. SWAMITA ARORA, MR. LALIT PARIHAR, MR. JITENDRA CHAUDHARY, MR. LOVE GUPTA, MR. ANUJ KUMAR, MR. HARSHVARDHAN, DR. SUMIT SHARMA**

Class: **24-01**

Title: **EXPIRED MEDICINE BURNING MACHINE**

Dear Sir/Madam,

We are pleased to submit herewith following documents for registration of a new design in class 24-01, in respect of “EXPIRED MEDICINE BURNING MACHINE” in the name **R. V. NORTHLAND INSTITUTE, PROF. (DR.) SANJAR ALAM, MR. YATENDRA KUMAR, MOHAMMAD RASHID, DR. SWAMITA ARORA, MR. LALIT PARIHAR, MR. JITENDRA CHAUDHARY, MR. LOVE GUPTA, MR. ANUJ KUMAR, MR. HARSHVARDHAN, DR. SUMIT SHARMA** under the Designs Act, 2000:

1. Application Form 1 in duplicate; and
2. Formal Representations.

The prescribed fee in respect of the application is also submitted herewith.