CRITERION-III

EVIDENCE(S), AS PER SOP

METRIC No. 3.4.3	Number of Patents published/awarded during the year
• Award letters/notifications to Ph.D. students	

Australian Government
IP Australia

CERTIFICATE OF GRANT
INNOVATION PATENT

Patent number: 2021106678

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):

Manju Rawat Singh of University Institute of Pharmacy, Pt. Ravishankar Shukla University Raipur India

Deependra Singh of University Institute of Pharmacy, Pt. Ravishankar Shukla University Raipur India

K. K. Sahu of SOS in Biotechnology, Pt. Ravishankar Shukla University Raipur India

Madhulika Pradhan of University Institute of Pharmacy, Pt. Ravishankar Shukla University Raipur India

Krishna Yadav of University Institute of Pharmacy, Pt. Ravishankar Shukla University Raipur India

Title of invention:

A method of preparation of Triamcinolone Acetonide encapsulated nanostructured lipid carriers for psoriasis treatment.

Name of inventor(s):

Singh, Manju Rawat; Singh, Deependra; Sahu, K. K.; Pradhan, Madhulika and Yadav, Krishna

Term of Patent:

Eight years from 23 August 2021

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

COMMONWEALTH OF AUSTRALIA
AUSTRALIA
PATENT OFFICE

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.

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:

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Schedule 1 **Dictionary**

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Australian Government

IP Australia

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INNOVATION PATENT

Patent number: 2021106679

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Name and address of patentee(s):

Manju Rawat Singh of University Institute of Pharmacy, Pt. Ravishankar Shukla University Raipur India

Deependra Singh of University Institute of Pharmacy, Pt. Ravishankar Shukla University Raipur India

K. K. Sahu of SOS in Biotechnology, Pt. Ravishankar Shukla University Raipur India

Shikha Shrivastava of University Institute of Pharmacy, Pt. Ravishankar Shukla University Raipur India

Title of invention:

Enzyme loaded navigated nanomatrix systems to the inflamed synovial locus for the treatment of rheumatoid arthritis.

Name of inventor(s):

Singh, Manju Rawat; Singh, Deependra; Sahu, K. K. and Shrivastava, Shikha

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Eight years from 23 August 2021

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COMMONWEALTH OF AUSTRALIA AUSTRALIA PATENT OFFICE

Dated this 17th day of November 2021

Commissioner of Patents

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Schedule 1 **Dictionary**

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(12) INNOVATION PATENT (11) Application No. **AU 2021105878 A4**
(19) AUSTRALIAN PATENT OFFICE

(54) Title
METHOD AND SYSTEM FOR CLOCK SYNCHRONIZATION IN IOT NETWORKS USING BAYESIAN ESTIMATION

(51) International Patent Classification(s)
G06F 1/12 (2006.01) *G06K 9/62* (2006.01)

(21) Application No: **2021105878** (22) Date of Filing: **2021.08.19**

(45) Publication Date: **2021.12.02**
(45) Publication Journal Date: **2021.12.02**
(45) Granted Journal Date: **2021.12.02**

(71) Applicant(s)
Shruti Sharma

(72) Inventor(s)
Sharma, Shruti;Thakur, Kavita;Sinha, Ganesh R.

(74) Agent / Attorney
Shruti Sharma, S92/460 Jones Street, Suite 125, Ultimo, NSW, 2007, AU

(12) INNOVATION PATENT
(19) AUSTRALIAN PATENT OFFICE

(11) Application No. **AU 2021105950 A4**

(54) Title
A DNN BASED METHOD TO APPROXIMATE RESOURCE ALLOCATION IN A CELL-FREE MASSIVE MIMO NETWORK

(51) International Patent Classification(s)
H04W 72/04 (2009.01) ***H04B 7/0413*** (2017.01)
G06N 3/04 (2006.01) ***H04W 28/02*** (2009.01)
G06N 3/08 (2006.01) ***H04W 88/08*** (2009.01)

(21) Application No: **2021105950** (22) Date of Filing: **2021.08.19**

(45) Publication Date: **2021.11.25**
(45) Publication Journal Date: **2021.11.25**
(45) Granted Journal Date: **2021.11.25**

(71) Applicant(s)
Shruti Sharma

(72) Inventor(s)
Sharma, Shruti;Thakur, Kavita;Sharma, Alok

(74) Agent / Attorney
Shruti Sharma, S92/460 Jones Street, Suite 125, Ultimo, NSW, 2007, AU

Bundesrepublik Deutschland

Urkunde

über die Eintragung des
Gebrauchsmusters Nr. 20 2022 101 502

Bezeichnung:
Ein abwärts gerichtetes Noma-System mit Interferenzunterdrückung in einem kognitiven Funknetz zur Verbesserung der spektralen Effizienz

IPC:
H04W 72/04

Inhaber/Inhaberin:
Mandal, Sunandan, Durg, Chhattisgarh, IN
Sharma, Ashutosh, Suwon, Gyeonggi-do, KR
Sharma, Shruti, Suwon, Gyeonggi-do, KR
Sinha, Ganesh Ram, Risali Bhilai, Chhattisgarh, IN
Thakur, Kavita, Dr., Raipur, Chhattisgarh, IN
Vyas, Prafulla, Raipur, Chhattisgarh, IN

Tag der Anmeldung:
22.03.2022

Tag der Eintragung:
05.04.2022

Die Präsidentin des Deutschen Patent- und Markenamts

Cornelia Rudloff-Schäffer

Cornelia Rudloff-Schäffer

München, 05.04.2022

Die Voraussetzungen der Schutzfähigkeit werden bei der Eintragung eines Gebrauchsmusters nicht geprüft.
Den aktuellen Rechtsstand und Schutzumfang entnehmen Sie bitte dem DPMAregister unter www.dpma.de.

Copyright Office
Government of India

सत्यमेव जयते

Extracts from the Register of Copyrights

Dated : 04/07/2022

1.	Registration Number	:	**L-116642/2022**
2.	Name, address and nationality of the applicant	:	DR. SANJAY TIWARI & DR. SWATI SAHU , PHOTONICS RESEARCH LABORATORY, SCHOOL OF STUDIES IN ELECTRONICS & PHOTONICS, INSTITUTE OF RENEWABLE ENERGY TECHNOLOGY & MANAGEMENT, PT. RAVISHANKAR SHUKLA UNIVERSITY, RAIPUR, CHHATTISGARH, INDIA-492010 INDIAN
3.	Nature of the applicant's interest in the copyright of the work	:	AUTHOR
4.	Class and description of the work	:	LITERARY/ DRAMATIC WORK THIS WORK EMPLOYED THE GROUPINGS OF THE OPTICAL TRANSFER MATRIX METHOD AND AN ELECTRICAL METHOD TO SIMULATE MAPBI3XCLX PEROVSKITE/SILICON BASED TANDEM SOLAR CELLS THROUGH SCAPS1D SIMULATION.
5.	Title of the work	:	COUPLED OPTICAL AND ELECTRICAL SIMULATION OF EFFICIENT MAPBI3-XCLX PEROVSKITE/SILICON SOLAR CELLS
6.	Language of the work	:	ENGLISH
7.	Name, address and nationality of the author and if the author is deceased, date of his decease	:	DR. SANJAY TIWARI & DR. SWATI SAHU , PHOTONICS RESEARCH LABORATORY, SCHOOL OF STUDIES IN ELECTRONICS & PHOTONICS, INSTITUTE OF RENEWABLE ENERGY TECHNOLOGY & MANAGEMENT, PT. RAVISHANKAR SHUKLA UNIVERSITY, RAIPUR, CHHATTISGARH, INDIA-492010 INDIAN
8.	Whether the work is published or unpublished	:	UNPUBLISHED
9.	Year and country of first publication and name, address and nationality of the publisher	:	N.A.
10.	Years and countries of subsequent publications, if any, and names, addresses and nationalities of the publishers	:	N.A.
11.	Names, addresses and nationalities of the owners of various rights comprising the copyright in the work and the extent of rights held by each, together with particulars of assignments and licences, if any	:	DR. SANJAY TIWARI & DR. SWATI SAHU , PHOTONICS RESEARCH LABORATORY, SCHOOL OF STUDIES IN ELECTRONICS & PHOTONICS, INSTITUTE OF RENEWABLE ENERGY TECHNOLOGY & MANAGEMENT, PT. RAVISHANKAR SHUKLA UNIVERSITY, RAIPUR, CHHATTISGARH, INDIA-492010 INDIAN
12.	Names, addresses and nationalities of other persons, if any, authorised to assign or licence of rights comprising the copyright	:	N.A.
13.	If the work is an 'Artistic work', the location of the original work, including name, address and nationality of the person in possession of the work. (In the case of an architectural work, the year of completion of the work should also be shown).	:	N.A.
14.	If the work is an 'Artistic work' which is used or capable of being used in relation to any goods or services, the application should include a certification from the Registrar of Trade Marks in terms of the provision to Sub-Section (i) of Section 45 of the Copyright Act, 1957.	:	N.A.
15.	If the work is an 'Artistic work', whether it is registered under the Designs Act 2000 if yes give details.	:	N.A.
16.	If the work is an 'Artistic work', capable of being registered as a Designs Act 2000.whether it has been applied to an industrial process and ,if yes ,the number of times	:	N.A.
17.		:	

L 8356/2022-CO/L

Date of Application : 20/04/2022

Date of Receipt : 20/04/2022

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Registrar of Copyrights

5:43 PM
ViewJournal (16).pdf

No. of Pages : 42 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/01/2022

(21) Application No.202221001677 A
(43) Publication Date : 04/03/2022

(54) Title of the invention : SB-DOPED BASNO3 AS NOVEL ELECTRON TRANSPORT LAYER FOR EFFICIENT LOW-COST DYE-SENSITIZED SOLAR CELLS.

(51) International classification	:H01G0009200000, H01L0051000000, C07D0213220000, H01G0009000000, H01G0011620000
(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

(71)**Name of Applicant :**
1)Swati Sahu
Address of Applicant :Photonic Research Laboratory, S.O.S. in Electronics & Photonic, Institute of Renewable Energy Technology & Management, Pt. Ravishankar Shukla University, Raipur (C.G.), India ---------- ----------
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Sanjay Tiwari
Address of Applicant :Photonics Research Laboratory, School of Studies in Electronics & Photonics, Institute of Renewable Energy Technology & Management Pt. Ravishankar Shukla University, Raipur (C.G.), India ---------- ----------
2)Swati Sahu
Address of Applicant :Photonics Research Laboratory, School of Studies in Electronics & Photonics, Institute of Renewable Energy Technology & Management Pt. Ravishankar Shukla University, Raipur (C.G.), India ---------- ----------

(57) Abstract :
Novel Sb-doped BaSnO3 as electron transport material (ETM) and their application as a substitute of photoanode in dye-sensitized solar cells (DSSCs). Field of invention: The present invention relates to dye-sensitized solar cells (DSSC) involving an Sb-doped BaSnO3 as a novel electron transporting material. More especially, the invention relates to the fabrication & characterization of dye-sensitized solar cell that utilizes an Sb-doped BaSnO3 as a novel electron transporting material.

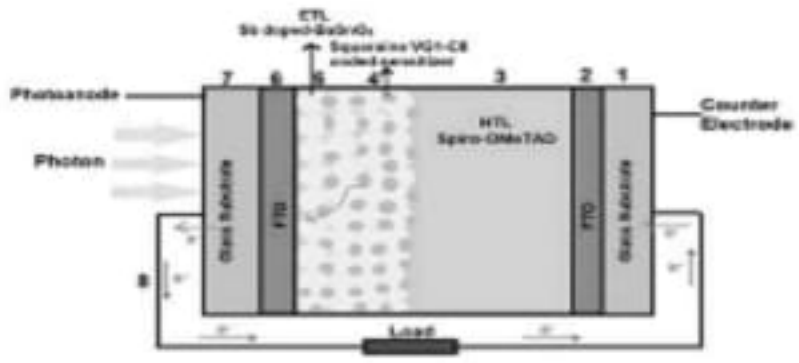

Figure 10

No. of Pages : 6 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/01/2022

(21) Application No.202221001771 A
(43) Publication Date : 04/03/2022

(54) Title of the invention : A SYSTEM FOR SUPER LARGE-SCALE INTEGRATION VLSI METHOD THEREOF

Australian Government

IP Australia

CERTIFICATE OF GRANT

INNOVATION PATENT

Patent number: 2021106679

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

Name and address of patentee(s):

Manju Rawat Singh of University Institute of Pharmacy, Pt. Ravishankar Shukla University Raipur India

Deependra Singh of University Institute of Pharmacy, Pt. Ravishankar Shukla University Raipur India

K. K. Sahu of SOS in Biotechnology, Pt. Ravishankar Shukla University Raipur India

Shikha Shrivastava of University Institute of Pharmacy, Pt. Ravishankar Shukla University Raipur India

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Name of inventor(s):

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INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

सत्यमेव जयते

क्रमांक : 022118424
SL No :

भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE

पेटेंट प्रमाणपत्र
PATENT CERTIFICATE

(Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No.	:	398487
आवेदन सं. / Application No.	:	202121035556
फाइल करने की तारीख / Date of Filing	:	06/08/2021
पेटेंटी / Patentee	:	1.SHAILENDRA SHEKHAR JADIYA 2.NEERAJ UPMANYU 3.ARULMOZHI SATHIYANARAYANAN 4.VISHAL JAIN

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित "BILAYER PHARMACEUTICAL TABLET COMPRISING SULFASALAZINE AND PREPARATION THEREOF" नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख अगस्त 2021 के छठे 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 "BILAYER PHARMACEUTICAL TABLET COMPRISING SULFASALAZINE AND PREPARATION THEREOF" as disclosed in the above mentioned application for the term of 20 years from the 6th day of August 2021 in accordance with the provisions of the Patents Act,1970.

एकस्य कार्यालय THE PATENT OFFICE GOVT.OF INDIA भारत सरकार

अनुदान की तारीख :
Date of Grant : 03/06/2022

पेटेंट नियंत्रक
Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, अगस्त 2023 के छठे दिन को और उसके पश्चात प्रत्येक वर्ष मे उसी दिन देय होगी।

Note. - The fees for renewal of this patent, if it is to be maintained will fall / has fallen due on 6th day of August 2023 and on the same day in every year thereafter.

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

सत्यमेव जयते

क्रमांक : 022117024
SL No :

भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE

पेटेंट प्रमाणपत्र
PATENT CERTIFICATE

(Rule 74 Of The Patents Rules)

पेटेंट सं. / Patent No.	:	390798
आवेदन सं. / Application No.	:	202021026574
फाइल करने की तारीख / Date of Filing	:	23/06/2020
पेटेंटी / Patentee	:	1.Singh Deependra 2.Singh Manju 3.Patel Satish

प्रमाणित किया जाता है कि पेटेंटी को उपरोक्त आवेदन में यथाप्रकटित A method of preparing a scaffold with the composition consisting of arginine
nanoparticles and natural triterpenoid-lupeol नामक आविष्कार के लिए, पेटेंट अधिनियम, १९७० के उपबंधों के अनुसार आज तारीख 23rd day of June 2020 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 method of preparing a scaffold with the composition consisting of arginine nanoparticles and natural triterpenoid-lupeol as disclosed in the above mentioned application for the term of 20 years from the 23rd day of June 2020 in accordance with the provisions of the Patents Act,1970.

एकस्य कार्यालय THE PATENT OFFICE GOVT.OF INDIA भारत सरकार

अनुदान की तारीख :
Date of Grant : 28/02/2022

पेटेंट नियंत्रक
Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, **23rd day of June 2022** को और उसके पश्चात प्रत्येक वर्ष मे उसी दिन देय होगी।

Note. - The fees for renewal of this patent, if it is to be maintained will fall / has fallen due on 23rd day of June 2022 and on the same day in every year thereafter.

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(57) Abstract :

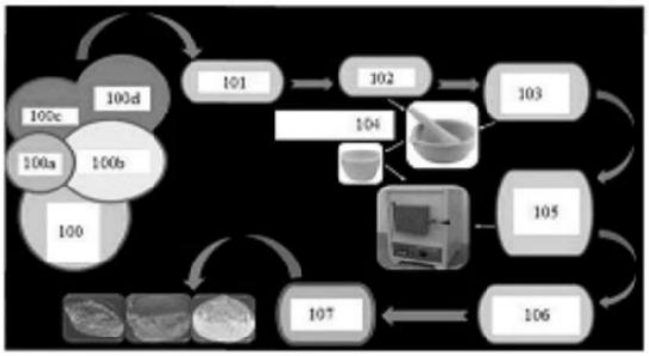

Figure 1

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