



MANGALAYATAN
UNIVERSITY

Learn Today to Lead Tomorrow

NAAC
GRADE A+

Accredited University

**E-COPIES OF LETTER PATENT
PUBLISHED/ GRANTED IN THE YEAR
2023**



Mangalayatan University

**Extended NCR, 33rd Milestone, Aligarh-Mathura Highway
Beswan, Aligarh - 202146, Uttar Pradesh, India**

S. No.	Patent Application No.	Status of Patent (Published/Granted)	Inventor/s Name	Title of the Patent	Patent Published Dated/Granted Date
1	202023104040	Granted	Dr. Debaprasad Dev, Dr. Iti Gontia, Dr. Ravi Kant, Dr. Rojalini Samanta, Dr. Suraj Sharma; Dr. Dinesh Kumar Sharma,	Novel antibacterial composition and its synthesis thereof (Neue antibakterielle Zusammensetzung und ihre Synthese)	21-08-23
2	202023104202	Granted	Dr. Debaprasad Dev, Dr. Iti Gontia, Dr. Ravi Kant, Dr. Rojalini Samanta, Dr. Suraj Sharma; Dr. Dinesh Kumar Sharma,	A novel antifungal composition and its synthesis thereof (Eine neue antimykotische Zusammensetzung und ihre Synthese)	22-08-23
3	202023104247	Granted	Dr. Debaprasad Dev, Dr. Iti Gontia, Dr. Ravi Kant, Dr. Rojalini Samanta, Dr. Suraj Sharma; Dr. Dinesh Kumar Sharma,	Formulation of Novel Organoantimony as Fungicides and its Synthesis thereof (Formulierung Von Neuem Organoantimon als Fungizid und Seine Synthese)	28-08-23
4	202023104344	Granted	Dr. Debaprasad Dev, Dr. Iti Gontia, Dr. Ravi Kant , Dr. Rojalini Samanta, Dr. Suraj Sharma; Dr. Dinesh Kumar Sharma,	Novel Antitumor Formulation and Its Synthesis thereof (Neue Antitumor-Formulierung Und Ihre Synthese)	01-09-23
5	202023104469	Granted	Dr. Debaprasad Dev, Dr. Iti Gontia, Dr. Ravi Kant , Dr. Rojalini Samanta, Dr. Suraj Sharma; Dr. Dinesh Kumar Sharma ,	Bio medicinal composition of a novel arsenical compound as antitumor and its synthesis thereof (Biomedizinische Zusammensetzung einer neuen arsenhaltigen Verbindung als Antitumormittel und ihre Synthese)	21-08-23
6	202023104470	Granted	Dr. Debaprasad Dev, Dr. Iti Gontia, Dr. Ravi Kant, Dr. Rojalini Samanta, Dr. Suraj Sharma; Dr. Dinesh Kumar Sharma,	Formulation of novel arsenical as antibacterial and its synthesis thereof (Formulierung eines neuen Arseniks als antibakterielles Mittel und seine Synthese)	21-08-23
7	202023104627	Granted	Dr. Debaprasad Dev, Dr. Iti Gontia, Dr. Ravi Kant , Dr. Rojalini Samanta, Dr. Suraj Sharma; Dr. Dinesh Kumar Sharma ,	Novel Organoarsenic Composition and Its Antifungal Efficacy against Pathogenic Fungi (Neuartige Organoarsen-Zusammensetzung und ihre antimykotische Wirksamkeit gegen pathogene Pilze)	12-09-23

8	202023104628	Granted	Dr. Debaprasad Dev, Dr. Iti Gontia, Dr. Ravi Kant , Dr. Rojalini Samanta, Dr. Suraj Sharma; Dr. Dinesh Kumar Sharma ,	Composition of an organoarsenic compound for enhanced fungicidal activity and method of synthesis thereof (Zusammensetzung aus einer organoarsenischen Verbindung mit erhöhter fungizider Wirkung und Verfahren zu deren Herstellung)	12-09-23
9	202023104619	Granted	Dr. Debaprasad Dev, Dr. Iti Gontia, Dr. Ravi Kant , Dr. Rojalini Samanta, Dr. Suraj Sharma; Dr. Dinesh Kumar Sharma ,	Composition of Novel Organobismuth(iii) Compounds and Method of Preparation Thereof using Specific Reaction Condition (Zusammensetzung von neuen Organobismuth(iii)-Verbindungen und Verfahren zu ihrer Herstellung unter Verwendung spezifischer Reaktionsbedingungen)	04-09-23
10	202023104620	Granted	Dr. Debaprasad Dev, Dr. Iti Gontia, Dr. Ravi Kant , Dr. Rojalini Samanta, Dr. Suraj Sharma; Dr. Dinesh Kumar Sharma ,	Composition of a heterocyclic bismuthine compound for biomedical applications (Zusammensetzung einer heterozyklischen Wismutverbindung für biomedizinische Anwendungen)	12-09-23
11	202311026412	Published	Dr. Dinesh Kumar Sharma, Dr. Ravi Kant , Dr. Shailesh Narayan, Dr. Debaprasad Dev, Dr. Suraj Sharma, Dr. Iti Gontia	A novel antibacterial and its synthesis thereof	19-05-23
12	202311026418	Published	Dr. Dinesh Kumar Sharma, Dr. Ravi Kant , Dr. Shailesh Narayan, Dr. Debaprasad Dev, Dr. Suraj Sharma, Dr. Iti Gontia	A novel antifungal and its synthesis thereof	19-05-23
13	202311026419	Published	Dr. Dinesh Kumar Sharma, Dr. Ravi Kant , Dr. Shailesh Narayan, Dr. Debaprasad Dev, Dr. Suraj Sharma, Dr. Iti Gontia	A novel organoantimony as fungicides and its synthesis thereof	19-05-23
14	202311026421	Published	Dr. Dinesh Kumar Sharma, Dr. Ravi Kant , Dr. Shailesh Narayan, Dr. Debaprasad Dev, Dr. Suraj Sharma, Dr. Iti Gontia	A novel antitumor and its synthesis thereof	19-05-23
15	202311026681	Published	Dr. Dinesh Kumar Sharma, Dr. Ravi Kant , Dr. Shailesh Narayan, Dr. Debaprasad Dev, Dr. Suraj Sharma, Dr. Iti Gontia	A novel organoarsenic as fungicides and its synthesis thereof	19-05-23

16	202311026656	Published	Dr. Dinesh Kumar Sharma, Dr. Ravi Kant, Dr. Shailesh Narayan, Dr. Debaprakash Dev, Dr. Suraj Sharma, Dr. Iti Gontia	A novel arsenical as antibacterial and its synthesis thereof	26-05-23
17	202311026657	Published	Dr. Dinesh Kumar Sharma, Dr. Ravi Kant, Dr. Shailesh Narayan, Dr. Debaprakash Dev, Dr. Suraj Sharma, Dr. Iti Gontia	Antifungal efficacy of a novel arsenical and its synthesis thereof	26-05-23
18	202311026703	Published	Dr. Dinesh Kumar Sharma, Dr. Ravi Kant, Dr. Shailesh Narayan, Dr. Debaprakash Dev, Dr. Suraj Sharma, Dr. Iti Gontia	A novel arsenical as antitumor and its synthesis thereof	26-05-23
19	202311051708	Published	Dr. Kishan Pal Singh, Bhuvnesh Kumar Sharma	Gym pull down machine for electricity generation	01-09-23

Urkunde

über die Eintragung des
Gebrauchsmusters Nr. 20 2023 104 040

Bezeichnung:

Neue antibakterielle Zusammensetzung und ihre Synthese

IPC:

A01N 55/02

Inhaber/Inhaberin:

Dev, Debaprasad, Dr., Kolkata, West Bengal, IN
Goatia, Iti, Dr., Jabalpur, Madhya Pradesh, IN
Himalayan University, Itanagar, Itanagar, Arunachal Pradesh, IN
Kant, Ravi, Dr., Lucknow, Uttar Pradesh, IN
Mangalayatan University, Aligarh, Aligarh, Uttar Pradesh, IN
Mangalayatan University, Jabalpur, Jabalpur, Madhya Pradesh, IN
Samanta, Rojalini, Dr., Ranchi, Jharkhand, IN
Sharma, Dinesh Kumar, Dr., Mathura, Uttar Pradesh, IN
Sharma, Suraj, Dr., Jorethang, Sikkim, IN
Sikkim Professional University, Tadong, Gangtok, Sikkim, IN
Usha Martin University, Ranchi, Ranchi, Jharkhand, IN

Tag der Anmeldung:

19.07.2023

Tag der Eintragung:

21.08.2023

Die Präsidentin des Deutschen Patent- und Markenamts



Eva Schewior
München, 21.08.2023



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

Urkunde

über die Eintragung des Gebrauchsmusters Nr. 20 2023 104 202

Bezeichnung:

Eine neue antimykotische Zusammensetzung und ihre Synthese

IPC:

A61K 31/29

Inhaber/Inhaberin:

Dev, Debaprasad, Dr., Kolkata, West Bengal, IN
Goatia, Iti, Dr., Jabalpur, Madhya Pradesh, IN
Himalayan University, Itanagar, Itanagar, Arunachal Pradesh, IN
Kant, Ravi, Dr., Lucknow, Uttar Pradesh, IN
Mangalayatan University, Aligarh, Aligarh, Uttar Pradesh, IN
Mangalayatan University, Jabalpur, Jabalpur, Madhya Pradesh, IN
Samanta, Rojalini, Dr., Ranchi, Jharkhand, IN
Sharma, Dinesh Kumar, Dr., Mathura, Uttar Pradesh, IN
Sharma, Suraj, Dr., Jorethang, Sikkim, IN
Sikkim Professional University, Tadong, Gangtok, Sikkim, IN
Usha Martin University, Ranchi, Ranchi, Jharkhand, IN

Tag der Anmeldung:

27.07.2023

Tag der Eintragung:

22.08.2023

Die Präsidentin des Deutschen Patent- und Markenamts



Eva Schewior
München, 22.08.2023



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

Urkunde

über die Eintragung des
Gebrauchsmusters Nr. 20 2023 104 247

Bezeichnung:

Formulierung von neuem Organoantimon als Fungizid und seine Synthese

IPC:

C07F 9/92

Inhaber/Inhaberin:

Dev, Debaprasad, Dr., Kolkata, West Bengal, IN
Goatia, Iti, Dr., Jabalpur, Madhya Pradesh, IN
Himalayan University, Itanagar, Itanagar, Arunachal Pradesh, IN
Kant, Ravi, Dr., Lucknow, Uttar Pradesh, IN
Mangalayatan University, Aligarh, Aligarh, Uttar Pradesh, IN
Mangalayatan University, Jabalpur, Jabalpur, Madhya Pradesh, IN
Samanta, Rojalini, Dr., Ranchi, Jharkhand, IN
Sharma, Dinesh Kumar, Dr., Mathura, Uttar Pradesh, IN
Sharma, Suraj, Dr., Jorethang, Sikkim, IN
Sikkim Professional University, Tadong, Gangtok, Sikkim, IN
Usha Martin University, Ranchi, Ranchi, Jharkhand, IN

Tag der Anmeldung:

27.07.2023

Tag der Eintragung:

28.08.2023

Die Präsidentin des Deutschen Patent- und Markenamts



Eva Schewior
München, 28.08.2023



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

— Bundesrepublik Deutschland —

Urkunde

über die Eintragung des
Gebrauchsmusters Nr. 20 2023 104 343

Bezeichnung:

Neue Antitumor-Formulierung und ihre Synthese

IPC:

C07F 9/90

Inhaber/Inhaberin:

Dev, Debaprasad, Dr., Kolkata, West Bengal, IN
Goatia, Iti, Dr., Jabalpur, Madhya Pradesh, IN
Himalayan University, Itanagar, Itanagar, Arunachal Pradesh, IN
Kant, Ravi, Dr., Lucknow, Uttar Pradesh, IN
Mangalayatan University, Aligarh, Aligarh, Uttar Pradesh, IN
Mangalayatan University, Jabalpur, Jabalpur, Madhya Pradesh, IN
Samanta, Rojalini, Dr., Ranchi, Jharkhand, IN
Sharma, Dinesh Kumar, Dr., Mathura, Uttar Pradesh, IN
Sharma, Suraj, Dr., Jorethang, Sikkim, IN
Sikkim Professional University, Tadong, Gangtok, Sikkim, IN
Usha Martin University, Ranchi, Ranchi, Jharkhand, IN

Tag der Anmeldung:

01.08.2023

Tag der Eintragung:

01.09.2023

Die Präsidentin des Deutschen Patent- und Markenamts

Eva Schewior

Eva Schewior
München, 01.09.2023



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

Urkunde

über die Eintragung des Gebrauchsmusters Nr. 20 2023 104 469

Bezeichnung:

Biomedizinische Zusammensetzung einer neuen arsenhaltigen Verbindung als
Antitumormittel und ihre Synthese

IPC:

A61K 31/285

Inhaber/Inhaberin:

Dev, Debaprasad, Dr., Kolkata, West Bengal, IN
Goatia, Iti, Dr., Jabalpur, Madhya Pradesh, IN
Himalayan University, Itanagar, Itanagar, Arunachal Pradesh, IN
Kant, Ravi, Dr., Lucknow, Uttar Pradesh, IN
Mangalayatan University, Aligarh, Aligarh, Uttar Pradesh, IN
Mangalayatan University, Jabalpur, Jabalpur, Madhya Pradesh, IN
Samanta, Rojalini, Dr., Ranchi, Jharkhand, IN
Sharma, Dinesh Kumar, Dr., Mathura, Uttar Pradesh, IN
Sharma, Suraj, Dr, Jorethang, Sikkim, IN
Sikkim Professional University, Tadong, Gangtok, Sikkim, IN
Usha Martin University, Ranchi, Ranchi, Jharkhand, IN

Tag der Anmeldung:

07.08.2023

Tag der Eintragung:

21.08.2023

Die Präsidentin des Deutschen Patent- und Markenamts



Eva Schewior
München, 21.08.2023



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

Urkunde

über die Eintragung des Gebrauchsmusters Nr. 20 2023 104 470

Bezeichnung:

Formulierung eines neuen Arseniks als antibakterielles Mittel und seine
Synthese

IPC:

A61K 31/285

Inhaber/Inhaberin:

Dev, Debaprasad, Dr., Kolkata, West Bengal, IN
Goatia, Iti, Dr., Jabalpur, Madhya Pradesh, IN
Himalayan University, Itanagar, Itanagar, Arunachal Pradesh, IN
Kant, Ravi, Dr., Lucknow, Uttar Pradesh, IN
Mangalayatan University, Aligarh, Aligarh, Uttar Pradesh, IN
Mangalayatan University, Jabalpur, Jabalpur, Madhya Pradesh, IN
Samanta, Rojalini, Dr., Ranchi, Jharkhand, IN
Sharma, Dinesh Kumar, Dr., Mathura, Uttar Pradesh, IN
Sharma, Suraj, Dr, Jorethang, Sikkim, IN
Sikkim Professional University, Tadong, Gangtok, Sikkim, IN
Usha Martin University, Ranchi, Ranchi, Jharkhand, IN

Tag der Anmeldung:

07.08.2023

Tag der Eintragung:

21.08.2023

Die Präsidentin des Deutschen Patent- und Markenamts



Eva Schewior
München, 21.08.2023



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

Urkunde

über die Eintragung des Gebrauchsmusters Nr.
20 2023 104 626

Bezeichnung:

Neuartige Organoarsen-Zusammensetzung und ihre antimykotische
Wirksamkeit gegen pathogene Pilze

IPC:

C07F 9/74

Inhaber/Inhaberin:

Dev, Debaprasad, Dr., Kolkata, West Bengal, IN
Goatia, Iti, Dr., Jabalpur, Madhya Pradesh, IN
Himalayan University, Itanagar, Itanagar, Arunachal Pradesh, IN
Kant, Ravi, Dr., Lucknow, Uttar Pradesh, IN
Mangalayatan University, Aligarh, Aligarh, Uttar Pradesh, IN
Mangalayatan University, Jabalpur, Jabalpur, Madhya Pradesh, IN
Samanta, Rojalini, Dr., Ranchi, Jharkhand, IN
Sharma, Dinesh Kumar, Dr., Mathura, Uttar Pradesh, IN
Sharma, Suraj, Dr., Jorethang, Sikkim, IN
Sikkim Professional University, Tadong, Gangtok, Sikkim, IN
Usha Martin University, Ranchi, Ranchi, Jharkhand, IN

Tag der Anmeldung:

14.08.2023

Tag der Eintragung:

12.09.2023

Die Präsidentin des Deutschen Patent- und Markenamts



Eva Schewior



München, 12.09.2023

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

Urkunde

über die Eintragung des Gebrauchsmusters Nr.
20 2023 104 628

Bezeichnung:

Zusammensetzung aus einer organoarsenischen Verbindung mit erhöhter
fungizider Wirkung

IPC:

C07F 9/74

Inhaber/Inhaberin:

Dev, Debaprasad, Dr., Kolkata, West Bengal, IN
Goatia, Iti, Dr., Jabalpur, Madhya Pradesh, IN
Himalayan University, Itanagar, Itanagar, Arunachal Pradesh, IN
Kant, Ravi, Dr., Lucknow, Uttar Pradesh, IN
Mangalayatan University, Aligarh, Aligarh, Uttar Pradesh, IN
Mangalayatan University, Jabalpur, Jabalpur, Madhya Pradesh, IN
Samanta, Rojalini, Dr., Ranchi, Jharkhand, IN
Sharma, Dinesh Kumar, Dr., Mathura, Uttar Pradesh, IN
Sharma, Suraj, Dr., Jorethang, Sikkim, IN
Sikkim Professional University, Tadong, Gangtok, Sikkim, IN
Usha Martin University, Ranchi, Ranchi, Jharkhand, IN

Tag der Anmeldung:

14.08.2023

Tag der Eintragung:

12.09.2023

Die Präsidentin des Deutschen Patent- und Markenamts



Eva Schewior

München, 12.09.2023



(C)

Bundesrepublik Deutschland

Urkunde

über die Eintragung des
Gebrauchsmusters Nr. 20 2023 104 619

Bezeichnung:

Zusammensetzung von neuen Organobismuth(iii)- Verbindungen

IPC:

C07F 9/94

Inhaber/Inhaberin:

Dev, Debaprasad, Dr., Kolkata, West Bengal, IN
Goatia, Iti, Dr., Jabalpur, Madhya Pradesh, IN
Himalayan University, Itanagar, Itanagar, Arunachal Pradesh, IN
Kant, Ravi, Dr., Lucknow, Uttar Pradesh, IN
Mangalayatan University, Aligarh, Aligarh, Uttar Pradesh, IN
Mangalayatan University, Jabalpur, Jabalpur, Madhya Pradesh, IN
Samanta, Rojalini, Dr., Ranchi, Jharkhand, IN
Sharma, Dinesh Kumar, Dr., Mathura, Uttar Pradesh, IN
Sharma, Suraj, Dr., Jorethang, Sikkim, IN
Sikkim Professional University, Tadong, Gangtok, Sikkim, IN
Usha Martin University, Ranchi, Ranchi, Jharkhand, IN

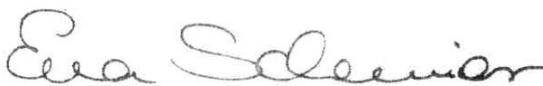
Tag der Anmeldung:

15.08.2023

Tag der Eintragung:

04.09.2023

Die Präsidentin des Deutschen Patent- und Markenamts



Eva Schewior

München, 04.09.2023



Urkunde

über die Eintragung des Gebrauchsmusters Nr.
20 2023 104 620

Bezeichnung:

Zusammensetzung einer heterozyklischen Wismutverbindung für
biomedizinische Anwendungen

IPC:

C07F 9/94

Inhaber/Inhaberin:

Dev, Debaprasad, Dr., Kolkata, West Bengal, IN
Goatia, Iti, Dr., Jabalpur, Madhya Pradesh, IN
Himalayan University, Itanagar, Itanagar, Arunachal Pradesh, IN
Kant, Ravi, Dr., Lucknow, Uttar Pradesh, IN
Mangalayatan University, Aligarh, Aligarh, Uttar Pradesh, IN
Mangalayatan University, Jabalpur, Jabalpur, Madhya Pradesh, IN
Samanta, Rojalini, Dr., Ranchi, Jharkhand, IN
Sharma, Dinesh Kumar, Dr., Mathura, Uttar Pradesh, IN
Sharma, Suraj, Dr., Jorethang, Sikkim, IN
Sikkim Professional University, Tadong, Gangtok, Sikkim, IN
Usha Martin University, Ranchi, Ranchi, Jharkhand, IN

Tag der Anmeldung:

15.08.2023

Tag der Eintragung:

12.09.2023

Die Präsidentin des Deutschen Patent- und Markenamts



Eva Schewior

München, 12.09.2023



पेटेंट कार्यालय
शासकीय जर्नल

OFFICIAL JOURNAL
OF
THE PATENT OFFICE

निर्गमन सं. 20/2023

ISSUE NO. 20/2023

शुक्रवार

FRIDAY

दिनांक: 19/05/2023

DATE: 19/05/2023

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311026412 A

(19) INDIA

(22) Date of filing of Application :09/04/2023

(43) Publication Date : 19/05/2023

(54) Title of the invention : A NOVEL ANTIBACTERIAL AND ITS SYNTHESIS THEREOF

(51) International classification :A61K 310500, A61K 380700, A61P 310400, C07D 910400, C09D 051400
(86) International Application No :PCT//
Filing Date :01/01/1900
(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)Mangalayatan University, Aligarh

Address of Applicant :Mangalayatan University, Aligarh-202145, Uttar Pradesh, India Aligarh -----

2)Usha Martin University, Ranchi

3)Mangalayatan University, Jabalpur

4)Himalayan University, Itanagar

5)Sikkim Professional University, Tadong

6)Dr. Dinesh Kumar Sharma

7)Dr. Ravi Kant

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Dinesh Kumar Sharma

Address of Applicant :Department of Applied Sciences, Mangalayatan University, Aligarh-202145, India Aligarh -----

2)Dr. Ravi Kant

Address of Applicant :Department of Applied Sciences, Mangalayatan University, Aligarh-202145, India Aligarh -----

3)Dr. Sailesh Narayan

Address of Applicant :, Department of Pharmacy, Usha Martin University, Ranchi-835103, Jharkhand, India Ranchi -----

4)Dr. Debaprasad Dev

Address of Applicant :Department of Chemistry, Himalayan University, Itanagar-791111, Arunachal Pradesh, India Itanagar -

5)Dr. Suraj Sharma

Address of Applicant :College of Pharmacy, Sikkim Professional University, Tadong, Gangtok-737102, Sikkim, India Gangtok -----

6)Dr. Iti Goatia

Address of Applicant :Department of Agriculture Microbiology, Mangalayatan University, Jabalpur-483001, M. P., India Jabalpur -----

(57) Abstract :

The present invention discloses a modified method for the synthesis of novel organic derivatives of antimony. The method involves the addition of glycine to the stirring solution of diphenylantimony(III) chloride in the presence of trimethylamine in toluene, followed by stirring and refluxing. The resulting flocculent white precipitate is filtered off and the filtrate is concentrated under vacuum conditions to obtain a light off-white solid, which is recrystallized by petroleum ether. The newly synthesized organoantimony compounds were characterized and evaluated for their antibacterial activity against pathogenic bacterial strains. The results indicate significant antibacterial activity and reduced toxicity compared to inorganic antimony compounds. The present invention provides a simple and efficient method for the synthesis of organic derivatives of antimony with potential antimicrobial applications in the field of medicine, agriculture, and industry.

No. of Pages : 14 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311026418 A

(19) INDIA

(22) Date of filing of Application :09/04/2023

(43) Publication Date : 19/05/2023

(54) Title of the invention : A NOVEL ANTIFUNGAL AND ITS SYNTHESIS THEREOF

(51) International classification :A61K 090800, A61K 311900, A61K 314720, A61K 471000, A61P 311000
(86) International Application No :PCT//
Filing Date :01/01/1900
(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)Mangalayatan University, Aligarh

Address of Applicant :Mangalayatan University, Aligarh-202145, Uttar Pradesh, India Aligarh -----

2)Usha Martin University, Ranchi

3)Mangalayatan University, Jabalpur

4)Himalayan University, Itanagar

5)Sikkim Professional University, Tadong

6)Dr. Dinesh Kumar Sharma

7)Dr. Ravi Kant

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Dinesh Kumar Sharma

Address of Applicant :Department of Applied Sciences, Mangalayatan University, Aligarh-202145, India Aligarh -----

2)Dr. Ravi Kant

Address of Applicant :Department of Applied Sciences, Mangalayatan University, Aligarh-202145, India Aligarh -----

3)Dr. Sailesh Narayan

Address of Applicant :Department of Pharmacy, Usha Martin University, Ranchi-835103, Jharkhand, India Ranchi -----

4)Dr. Debaprasad Dev

Address of Applicant :Department of Chemistry, Himalayan University, Itanagar-791111, Arunachal Pradesh, India Itanagar -

5)Dr. Suraj Sharma

Address of Applicant :College of Pharmacy, Sikkim Professional University, Tadong, Gangtok-737102, Sikkim, India Gangtok ----

6)Dr. Iti Goatia

Address of Applicant :Department of Agriculture Microbiology, Mangalayatan University, Jabalpur-483001, M. P., India Jabalpur -----

(57) Abstract :

The present invention relates to a novel antifungal compound and its synthesis thereof. The invention provides a modified method for synthesizing a novel derivative of antimony that exhibits potent antifungal activity against pathogenic strains of fungus. The method involves the reaction of phenylantimony(III)dichloride with glycine in the presence of trimethylamine in toluene under anhydrous oxygen-free nitrogen atmosphere, followed by refluxing to ensure the completion of the reaction. The resulting compound was characterized by various analytical techniques and exhibited potent antifungal activity against pathogenic strains of fungus. The invention offers a promising alternative for the treatment of fungal infections with reduced side effects.

No. of Pages : 13 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311026419 A

(19) INDIA

(22) Date of filing of Application :09/04/2023

(43) Publication Date : 19/05/2023

(54) Title of the invention : A NOVEL ORGANOANTIMONY AS FUNGICIDES AND ITS SYNTHESIS THEREOF

(51) International classification :C07F 099000, C07F 099200, C08F 100000, C08F 970000, H01M 045870
(86) International Application No :PCT//
Filing Date :01/01/1900
(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)Mangalayan University, Aligarh

Address of Applicant :Mangalayan University, Aligarh-202145, Uttar Pradesh, India Aligarh -----

2)Usha Martin University, Ranchi

3)Mangalayan University, Jabalpur

4)Himalayan University, Itanagar

5)Sikkim Professional University, Tadong

6)Dr. Dinesh Kumar Sharma

7)Dr. Ravi Kant

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Dinesh Kumar Sharma

Address of Applicant :Department of Applied Sciences, Mangalayan University, Aligarh-202145, India Aligarh -----

2)Dr. Ravi Kant

Address of Applicant :Department of Applied Sciences, Mangalayan University, Aligarh-202145, India Aligarh -----

3)Dr. Sailesh Narayan

Address of Applicant :Department of Pharmacy, Usha Martin University, Ranchi-835103, Jharkhand, India Ranchi -----

4)Dr. Debaprasad Dev

Address of Applicant :Department of Chemistry, Himalayan University, Itanagar-791111, Arunachal Pradesh, India Itanagar -

5)Dr. Suraj Sharma

Address of Applicant :College of Pharmacy, Sikkim Professional University, Tadong, Gangtok-737102, Sikkim, India Gangtok -----

6)Dr. Iti Goatia

Address of Applicant :Department of Agriculture Microbiology, Mangalayan University, Jabalpur-483001, M. P., India Jabalpur -----

(57) Abstract :

The present invention discloses a novel organoantimony compound that has been synthesized by a modified method. The novel organoantimony compound was characterized for its fungicidal activity against pathogenic strains of fungus and found to have improved fungicidal activity compared to existing fungicides. The synthesis method involves adding glycine to a stirring solution of phenylantimony(III)dichloride in the presence of trimethylamine in toluene, stirring the mixture under anhydrous oxygen-free nitrogen atmosphere, and filtering off the resulting precipitate. The invention also provides a method for using the novel organoantimony compound as a fungicide and a composition comprising the novel compound and a carrier or adjuvant. This invention is useful in controlling fungal infections in plants and plant products in an environmentally friendly manner.

No. of Pages : 15 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311026421 A

(19) INDIA

(22) Date of filing of Application :09/04/2023

(43) Publication Date : 19/05/2023

(54) Title of the invention : A NOVEL ANTITUMOR AND ITS SYNTHESIS THEREOF

(51) International classification :A61K 314700, A61P 011800, A61P 350000, C07D 871400, C12N 012000
(86) International application No :PCT//
Filing Date :01/01/1900
(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)Mangalayatan University, Aligarh

Address of Applicant :Mangalayatan University, Aligarh-202145, Uttar Pradesh, India Aligarh -----

2)Usha Martin University, Ranchi

3)Mangalayatan University, Jabalpur

4)Himalayan University, Itanagar

5)Sikkim Professional University, Tadong

6)Dr. Dinesh Kumar Sharma

7)Dr. Ravi Kant

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Dinesh Kumar Sharma

Address of Applicant :Department of Applied Sciences, Mangalayatan University, Aligarh-202145, India Aligarh -----

2)Dr. Ravi Kant

Address of Applicant :Department of Applied Sciences, Mangalayatan University, Aligarh-202145, India Aligarh -----

3)Dr. Sailesh Narayan

Address of Applicant :Department of Pharmacy, Usha Martin University, Ranchi-835103, Jharkhand, India Ranchi -----

4)Dr. Debaprasad Dev

Address of Applicant :Department of Chemistry, Himalayan University, Itanagar-791111, Arunachal Pradesh, India Itanagar -

5)Dr. Suraj Sharma

Address of Applicant :College of Pharmacy, Sikkim Professional University, Tadong, Gangtok-737102, Sikkim, India Gangtok -----

6)Dr. Iti Goatia

Address of Applicant :Department of Agriculture Microbiology, Mangalayatan University, Jabalpur-483001, M. P., India Jabalpur -

(57) Abstract :

The present invention discloses a novel antitumor and its synthesis through a modified method of organic derivatives of antimony. The method of synthesis involves stirring diphenylantimony(III) chloride OR phenylantimony(III) dichloride OR phenylantimony(III) dichloride with glycine in the presence of trimethyl amine in toluene, followed by refluxing the solution to produce the organic derivatives of antimony. The synthesized compounds were characterized using various analytical techniques and evaluated for their antitumor activity against cancer cell lines. The novel antitumor compound exhibited potent antitumor activity against a wide range of cancer cell lines and low cytotoxicity towards normal cells, making it a promising candidate for the development of new and effective cancer therapeutics.

No. of Pages : 19 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311026681 A

(19) INDIA

(22) Date of filing of Application :11/04/2023

(43) Publication Date : 19/05/2023

(54) Title of the invention : NOVEL ORGANOARSENIC AS FUNGICIDES AND ITS SYNTHESIS THEREOF

(51) International classification :A61K 312850, A61K 314550, A61K 316000, C07C 515400, C07C 515600
(86) International Application No :PCT/
Filing Date :01/01/1900
(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)Mangalayatan University, Aligarh

Address of Applicant :Mangalayatan University, Aligarh-202145, Uttar Pradesh, India Aligarh -----

2)Usha Martin University, Ranchi

3)Mangalayatan University, Jabalpur

4)Himalayan University, Itanagar

5)Sikkim Professional University, Tadong

6)Dr. Dinesh Kumar Sharma

7)Dr. Ravi Kant

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Dinesh Kumar Sharma

Address of Applicant :Department of Applied Sciences, Mangalayatan University, Aligarh-202145, India Aligarh -----

2)Dr. Ravi Kant

Address of Applicant :Department of Applied Sciences, Mangalayatan University, Aligarh-202145, India Aligarh -----

3)Dr. Sailesh Narayan

Address of Applicant :Department of Pharmacy, Usha Martin University, Ranchi-835103, Jharkhand, India Ranchi -----

4)Dr. Debaprasad Dev

Address of Applicant :Department of Chemistry, Himalayan University, Itanagar-791111, Arunachal Pradesh, India Itanagar -

5)Dr. Suraj Sharma

Address of Applicant :College of Pharmacy, Sikkim Professional University, Tadong, Gangtok-737102, Sikkim, India Gangtok -----

6)Dr. Itri Goatia

Address of Applicant :Department of Agriculture Microbiology, Mangalayatan University, Jabalpur-483001, M. P., India Jabalpur -----

(57) Abstract :

The present invention relates to a novel organoarsenic compound and its method of synthesis for use as a fungicide. The method involves adding glycine to a stirring solution of phenylarsenic(III)dichloride in the presence of trimethylamine under anhydrous oxygen-free nitrogen atmosphere. The resulting compound has demonstrated strong fungicidal activity against pathogenic strains of fungi. The invention provides a promising solution for controlling and preventing fungal infections in agriculture and other applications. The invention also includes methods of controlling fungal infections, treating fungal infections in subjects, determining the fungicidal activity of the compound, and producing pharmaceutical compositions comprising the compound..

No. of Pages : 12 No. of Claims : 1

पेटेंट कार्यालय
शासकीय जर्नल

OFFICIAL JOURNAL
OF
THE PATENT OFFICE

निर्गमन सं. 21/2023
ISSUE NO. 21/2023

शुक्रवार
FRIDAY

दिनांक: 26/05/2023
DATE: 26/05/2023

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311026656 A

(19) INDIA

(22) Date of filing of Application :11/04/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : A NOVEL ARSENICAL AS ANTIBACTERIAL AND ITS SYNTHESIS THEREOF

(51) International classification :A61K 312850, A61P 011600, A61P 011800, A61P 130800, A61P 350000
(86) International Application No :PCT//
Filing Date :01/01/1900
(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)Mangalayatan University, Aligarh

Address of Applicant :Mangalayatan University, Aligarh-202145, Uttar Pradesh, India Aligarh -----

2)Usha Martin University, Ranchi

3)Mangalayatan University, Jabalpur

4)Himalayan University, Itanagar

5)Sikkim Professional University, Tadong

6)Dr. Dinesh Kumar Sharma

7)Dr. Ravi Kant

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Dinesh Kumar Sharma

Address of Applicant :Department of Applied Sciences, Mangalayatan University, Aligarh-202145, India Aligarh -----

2)Dr. Ravi Kant

Address of Applicant :Department of Applied Sciences, Mangalayatan University, Aligarh-202145, India Aligarh -----

3)Dr. Sailesh Narayan

Address of Applicant :Department of Pharmacy, Usha Martin University, Ranchi-835103, Jharkhand, India Ranchi -----

4)Dr. Debaprasad Dev

Address of Applicant :Department of Chemistry, Himalayan University, Itanagar-791111, Arunachal Pradesh, India Itanagar -

5)Dr. Suraj Sharma

Address of Applicant :College of Pharmacy, Sikkim Professional University, Tadong, Gangtok-737102, Sikkim, India Gangtok -----

6)Dr. Iti Goatia

Address of Applicant :Department of Agriculture Microbiology, Mangalayatan University, Jabalpur-483001, M. P., India Jabalpur -----

(57) Abstract :

This invention relates to a novel organoarsenic compound with potent antibacterial activity and a modified method for its synthesis. The compound was synthesized by adding glycine to a stirring solution of diphenylarsenic(III) chloride in the presence of trimethyl amine in toluene, followed by filtration and recrystallization. The synthesized compound was tested for antibacterial activity against pathogenic bacterial strains and exhibited potent activity. Spectral analysis using IR, NMR, and mass spectroscopy confirmed the structure of the compound. The invention provides a new and effective antibacterial agent with low toxicity and is useful in combating drug-resistant bacterial strains..

No. of Pages : 12 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311026657 A

(19) INDIA

(22) Date of filing of Application :11/04/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : ANTIFUNGAL EFFICACY OF A NOVEL ARSENICAL AND ITS SYNTHESIS THEREOF

(51) International classification :A61K 312850, A61P 011600, A61P 011800, A61P 130800, A61P 311000
(86) International application No :PCT//
Filing Date :01/01/1900
(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)Mangalayatan University, Aligarh

Address of Applicant :Mangalayatan University, Aligarh-202145, Uttar Pradesh, India Aligarh -----

2)Usha Martin University, Ranchi

3)Mangalayatan University, Jabalpur

4)Himalayan University, Itanagar

5)Sikkim Professional University, Tadong

6)Dr. Dinesh Kumar Sharma

7)Dr. Ravi Kant

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Dinesh Kumar Sharma

Address of Applicant :Department of Applied Sciences, Mangalayatan University, Aligarh-202145, India Aligarh -----

2)Dr. Ravi Kant

Address of Applicant :Department of Applied Sciences, Mangalayatan University, Aligarh-202145, India Aligarh -----

3)Dr. Sailesh Narayan

Address of Applicant :Department of Pharmacy, Usha Martin University, Ranchi-835103, Jharkhand, India Ranchi -----

4)Dr. Debaprasad Dev

Address of Applicant :Department of Chemistry, Himalayan University, Itanagar-791111, Arunachal Pradesh, India Itanagar -

5)Dr. Suraj Sharma

Address of Applicant :College of Pharmacy, Sikkim Professional University, Tadong, Gangtok-737102, Sikkim, India Gangtok -----

6)Dr. Iti Goatia

Address of Applicant : Department of Agriculture Microbiology, Mangalayatan University, Jabalpur-483001, M. P., India Jabalpur -----

(57) Abstract :

The present invention discloses a novel organoarsenic compound and its antifungal efficacy against pathogenic fungi, particularly *Candida albicans* and *Aspergillus fumigatus*. The compound is synthesized by a noble route using amino acid as a starting material and characterized by spectral analysis. The method for synthesizing the compound is straightforward and can be easily scaled up for industrial production. The antifungal efficacy of the compound is evaluated using standard methods, such as the disk diffusion assay and the broth microdilution assay. The results demonstrate that the novel organoarsenic compound has potent antifungal activity against pathogenic fungi. The invention provides a promising candidate for further development as a therapeutic agent for the treatment of fungal infections.

No. of Pages : 13 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application : 11/04/2023

(21) Application No. 202311026703 A

(43) Publication Date : 26/05/2023

(54) Title of the invention : A NOVEL ARSENICAL AS ANTITUMOR AND ITS SYNTHESIS THEREOF

(51) International classification : A61K 312850, A61P 011600, A61P 011800, A61P 130800, A61P 350000
(86) International Application No : PCT//
Filing Date : 01/01/1900
(87) International Publication : 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) Mangalayatan University, Aligarh

Address of Applicant : Mangalayatan University, Aligarh-202145, Uttar Pradesh, India Aligarh -----

2) Usha Martin University, Ranchi

3) Mangalayatan University, Jabalpur

4) Himalayan University, Itanagar

5) Sikkim Professional University, Tadong

6) Dr. Dinesh Kumar Sharma

7) Dr. Ravi Kant

Name of Applicant : NA

Address of Applicant : NA

(72) Name of Inventor :

1) Dr. Dinesh Kumar Sharma

Address of Applicant : Department of Applied Sciences, Mangalayatan University, Aligarh-202145, India Aligarh -----

2) Dr. Ravi Kant

Address of Applicant : Department of Applied Sciences, Mangalayatan University, Aligarh-202145, India Aligarh -----

3) Dr. Sailesh Narayan

Address of Applicant : Department of Pharmacy, Usha Martin University, Ranchi-835103, Jharkhand, India Ranchi -----

4) Dr. Debaprasad Dev

Address of Applicant : Department of Chemistry, Himalayan University, Itanagar-791111, Arunachal Pradesh, India Itanagar -----

5) Dr. Suraj Sharma

Address of Applicant : College of Pharmacy, Sikkim Professional University, Tadong, Gangtok-737102, Sikkim, India Gangtok -----

6) Dr. Iti Goatia

Address of Applicant : Department of Agriculture Microbiology, Mangalayatan University, Jabalpur-483001, M. P., India Jabalpur -----

(57) Abstract :

The present invention relates to a novel arsenical compound which has significant antitumor/anti-cell proliferation activity against human breast cancer (MCF-7) and mammary cancer (EVSA-7) cell lines. The present invention also provides a method for synthesizing the compound. The method involves the use of diphenylarsenic(III) chloride OR phenylarsenic(III) dichloride, glycine OR phenylarsenic(III) dichloride, and trimethylamine in toluene under anhydrous oxygen-free nitrogen atmosphere, followed by filtration and recrystallization. The present invention further includes the use of the compound as an antitumor/anti-cell proliferation agent against human breast cancer (MCF-7) and mammary cancer (EVSA-7) cell lines. The novel compound has potential as a new and effective anticancer agent against human breast cancer (MCF-7) and mammary cancer (EVSA-7) cell lines.

No. of Pages : 17 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311051708 A

(19) INDIA

(22) Date of filing of Application :01/08/2023

(43) Publication Date : 01/09/2023

(54) Title of the invention : GYM PULL DOWN MACHINE FOR ELECTRICITY GENERATION

(51) International classification :A63B0021000000, H02K0007180000, A63B0022060000, A63B0023120000, A63B0021220000
(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. Kishan Pal Singh
Address of Applicant :Mangalayatan University, Aligarh Uttar Pradesh India Aligarh -----
2)Bhuvnesh Kumar Sharma
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Dr. Kishan Pal Singh
Address of Applicant :Mangalayatan University, Aligarh Uttar Pradesh India Aligarh -----
2)Bhuvnesh Kumar Sharma
Address of Applicant :Lecturer, Department of Mechanical Engineering, M. G. Polytechnic, Hathras Uttar Pradesh India Hathras -----

(57) Abstract :

“GYM PULL DOWN MACHINE FOR ELECTRICITY GENERATION” The present invention relates to a gym pull-down machine that converts human mechanical energy into electrical energy. The gym-based power generation system, includes a gym pull-down machine with a frame structure and a pull-down bar for users to perform exercises, a first shaft (Shaft-A) and a second shaft (Shaft-B) mounted at the top of the frame structure in a parallel arrangement, a freewheel sprocket and chain drive system connecting the pull-down bar to the first shaft (Shaft-A), a heavy-duty rickshaw pipe rim mounted on the first shaft (Shaft-A) to act as a flywheel, storing and regulating the rotational energy, a DC dynamo connected to the flywheel by a cotton rope drive, wherein the rotational energy from the flywheel is converted into electrical energy by the DC dynamo, and a charging circuit, including an IC, a capacitor, and diodes, to charge a battery using the electrical energy generated by the DC dynamo.

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