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List of Patents Published/ Awarded- Academic Year- 2022-23

S. No	Name of the Teacher	Patent Number	Title of the Patent
01	Dr. Nitta Kumar Swamy, Mr. Gajendra Singh Thakur, Mr. Hitesh Kumar Sonkar	202211035080 A	Machine Learning Based Approach for Implementing the Concept of Precision from Lung Cancer Diagnosis to Treatment
02	Dr. Nitta Kumar Swamy, Dr. Poonam Verma	202211033609 A	Robotics Based Smart System to Protect the Crops from Negative Effects of Pesticides and Fertilizers
03	Dr. Nitta Kumar Swamy, Dr. Poonam Verma	202211034054 A	A New Bandaging Concept Integrated with Nano Particles to Support for Healing of Wounds In Diabetic Patients
04	Dr. Poonam Verma	202211035284 A	Deep Learning Based Approach to Analyze the Growth of Mushroom Per Quantity of Seeds and Factors Impacting Their Yield
05	Dr. Launl Raman Adil, Mr. Sabdev, Ms. Lalita Sahu , Mr. Yugal Kisbore Rajput, Mr. Asbwani Sahu, Mr. Rajendra Sahu	202421032920 A	Innovative Process for The Rapid Degradation of Plastics Using Engineered Bacterial Strains
06	Dr. P. Vishvnathan, Dr. Gokul Prasad, Dr. Ram Krishna, Deshmukh, Mr. Sunil Kumar Sahu, Ms. Rann Verma	202421032923 A	Enhanced Animal Tracking Device With Environmental Adaptability
07	Dr. Gokul Prasad, Dr. P. Vishvnathan, Mr. Laxmikant, Ms. Rekha Sahu, Mr. Hemani Pandey	202421032925 A	Automated Wildlife Monitoring System Using Ai-Based Image Recognition
08	Dr. Poonam Verma, Dr. Laxmi Raman Adil,	202421032927 A	Novel Antibiotic Compounds Derned From Marine Microorganisms for The

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	Dr. N Kumar Swamy, Mr. Lukeshwar Kumar Sahu, Mr. Rameshwar Nishad , Ms. Lalita Sahu		Treatment of Multidrug-Resistant Bacterial Infections
09	Dr. N Kumar Swamy, Dr. Ram Krishna Deshmukh, Mr. Sunil Kumar Sahu, Ms. Rekha Sahu, Mr. Hemant Pandey, Ms. Ranu Verma,	202421032928 A	Nanostructured Alloy Compositions for Improved Superconductivity
10	Dr. Abha Mahalwar, Mr. Takeshwar Kaushik, Mr. Vagesh Kumar, Mr. Khemanshu Sahu, Mr. Dushyant Yadav, Mr. Sanjeev Jangde,	202421032931 A	High-Density Server Cooling System Using Phase Change Materials

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :19/06/2022

(21) Application No.202211035080 A
(43) Publication Date : 01/07/2022

(54) Title of the invention : MACHINE LEARNING BASED APPROACH FOR IMPLEMENTING THE CONCEPT OF PRECISION FROM LUNG CANCER DIAGNOSIS TO TREATMENT

(51) International classification :G01N0033574000, G06T0007110000, A61K0039395000, C12Q0001688600, H04J0011000000
(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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(57) Abstract :
Machine Learning based approach for Implementing the concept of Precision from Lung Cancer Diagnosis to treatment is the proposed invention. The proposed invention focuses on analyzing the exact condition of lung cancer through precise diagnosis technique. Based on the stage of lung cancer the treatment for lung cancer is decided and precision medicine techniques are adapted.

No. of Pages : 13 No. of Claims : 6

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ROBOTICS BASED SMART SYSTEM TO PROTECT THE CROPS FROM NEGATIVE EFFECTS OF PESTICIDES AND FERTILIZERS

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/06/2022

(21) Application No.202211033609 A
(43) Publication Date : 01/07/2022

(54) Title of the invention : ROBOTICS BASED SMART SYSTEM TO PROTECT THE CROPS FROM NEGATIVE EFFECTS OF PESTICIDES AND FERTILIZERS

(51) International classification :G06K0009620000, H04L0029060000, G06Q0010060000, C08J0005180000, G06Q0050020000
(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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(57) Abstract :
Robotics based smart system to protect the Crops from Negative Effects of Pesticides and Fertilizers is the proposed invention. The invention focuses on analyzing the advantages and disadvantages of pesticides and fertilizers on crops. The proposed invention aims at implementing Robotic technology is applied to analyze the crop growth and crop yield. The proposed will support for smooth agricultural practices.

No. of Pages : 14 No. of Claims : 3

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Title of the invention : A NEW BANDAGING CONCEPT INTEGRATED WITH NANO PARTICLES TO SUPPORT FOR HEALING OF WOUNDS IN DIABETIC PATIENTS

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/06/2022

(21) Application No.202211034054 A
(43) Publication Date : 01/07/2022

(54) Title of the invention : A NEW BANDAGING CONCEPT INTEGRATED WITH NANO PARTICLES TO SUPPORT FOR HEALING OF WOUNDS IN DIABETIC PATIENTS

(51) International classification :A61K0031519000, A61K0031517000, A61K0031530000, A61K0031403000, A61K0031498500
(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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(57) Abstract :
A New Bandaging concept integrated with Nano Particles to support for Healing of Wounds in Diabetic Patients is the proposed invention. The invention aims at introducing a new bandaging aspect for diabetic patients. Diabetic patients are targeted since the wound healing ability is less in Diabetic patients. The Suitable Nano Particle is Selected and delivered to the wound region through the concept of drug delivery. Healing of wounds in Diabetic patients is fastened through therapeutic treatment.

No. of Pages : 13 No. of Claims : 3

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DEEP LEARNING BASED APPROACH TO ANALYZE THE GROWTH OF MUSHROOM PER QUANTITY OF SEEDS AND FACTORS IMPACTING THEIR YIELD

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :20/06/2022

(21) Application No.202211035284 A

(43) Publication Date : 01/07/2022

(54) Title of the invention : DEEP LEARNING BASED APPROACH TO ANALYZE THE GROWTH OF MUSHROOM PER QUANTITY OF SEEDS AND FACTORS IMPACTING THEIR YIELD

(51) International classification :G06K0009620000, G06N0003040000, G06K0009000000, G06N0003080000, G06N0020000000

(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
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(57) Abstract :
Deep Learning based approach to analyze the Growth of Mushroom per Quantity of Seeds and Factors impacting their yield is the proposed invention. The invention aims at analyzing the quality of mushroom seeds by comparing their physical appearance with trained data sets of deep learning algorithms. The proposed invention also focuses on analyzing the growth per quantity of seeds and factors responsible for improving their growth.

No. of Pages : 14 No. of Claims : 4

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :25/04/2024

(21) Application No.202421032920 A

(43) Publication Date : 31/05/2024

(54) Title of the invention : INNOVATIVE PROCESS FOR THE RAPID DEGRADATION OF PLASTICS USING ENGINEERED BACTERIAL STRAINS

(51) International classification :C12N0001200000, C02F0003340000, B09C0001100000, C02F0001720000, C09D0005160000
(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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(57) Abstract :
The rapid accumulation of plastic waste has emerged as a critical environmental challenge, necessitating innovative solutions for its efficient degradation and management. This patent application presents a novel approach utilizing engineered bacterial strains for the accelerated breakdown of plastics. Through genetic modification, these strains are empowered to produce enzymes capable of efficiently degrading various plastic polymers, including PET, PP, PE, PS, and PVC. By harnessing the power of microbial biocatalysis, the process offers rapid degradation rates, thereby reducing the long-term persistence of plastic waste in the environment. The method's versatility enables its application across diverse settings, from municipal waste treatment facilities to marine environments. Moreover, the environmentally benign degradation products generated through this process mitigate the negative impacts of plastic pollution on ecosystems and human health. Overall, this innovative process represents a significant advancement in sustainable waste management and environmental remediation, offering a promising solution to the global challenge of plastic pollution. Accompanied Drawing [FIGS. 1-2]

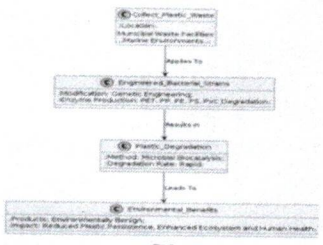

Fig. 1

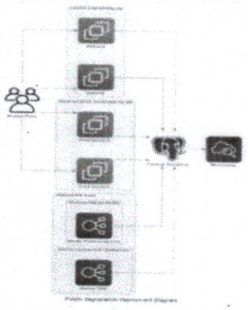

Fig. 2

No. of Pages : 20 No. of Claims : 10

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :25/04/2024

(21) Application No.202421032923 A

(43) Publication Date : 31/05/2024

(54) Title of the invention : ENHANCED ANIMAL TRACKING DEVICE WITH ENVIRONMENTAL ADAPTABILITY

(51) International classification :G05D0001020000, A01K0029000000, A01K0005020000, G06N0005040000, A01G0025160000

(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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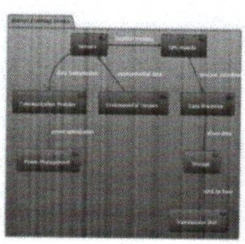
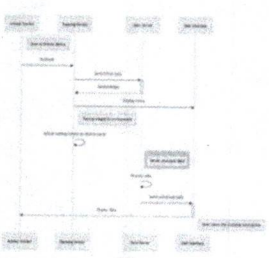
Address of Applicant :Assistant Professor, Faculty of Sciences, ISBM University, Nawapara (Kosmi), Block & Tehsil- Chhura, Gariaband, Chhattisgarh, 493996, India ---------- ----------

(57) Abstract :
The present invention discloses an enhanced animal tracking device with environmental adaptability, designed to address the limitations of existing tracking technologies. By integrating advanced sensors, communication modules, and power management systems, the device offers improved accuracy, durability, and adaptability to diverse environmental conditions. This innovation holds significant potential for advancing the field of zoology and wildlife research by enabling more precise and comprehensive tracking of animal behavior across various habitats. Accompanied Drawing [FIGS. 1-2]





No. of Pages : 22 No. of Claims : 10

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :25/04/2024

(21) Application No.202421032925 A

(43) Publication Date : 31/05/2024

(54) Title of the invention : AUTOMATED WILDLIFE MONITORING SYSTEM USING AI-BASED IMAGE RECOGNITION

(51) International classification :H04N0007180000, G06Q0030020000, G06N0003040000, G06N0003080000, G06N0005040000

(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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(57) Abstract :
The Automated Wildlife Monitoring System (AWMS) described herein presents a novel approach to wildlife conservation through the integration of AI-based image recognition technology. By deploying a network of cameras equipped with motion sensors in target areas, the system captures images and videos of wildlife activities. These data are then analyzed in real-time using advanced AI algorithms trained to identify and classify various species, behaviors, and population trends. The AWMS offers several advantages, including increased efficiency, accuracy, and cost-effectiveness compared to traditional monitoring methods. With its ability to provide real-time monitoring capabilities and actionable insights, the AWMS has wide-ranging applications in conservation biology, environmental monitoring, and wildlife management. Overall, the AWMS represents a significant step forward in wildlife monitoring technology, empowering stakeholders with the tools needed to safeguard biodiversity and preserve natural ecosystems. Accompanied Drawing [FIGS. 1-2]

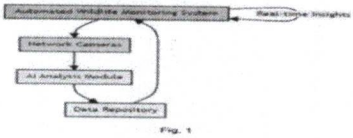

Fig. 1

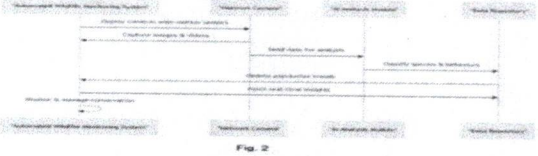

Fig. 2

No. of Pages : 21 No. of Claims : 10

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :25/04/2024

(21) Application No.202421032927 A

(43) Publication Date : 31/05/2024

(54) Title of the invention : NOVEL ANTIBIOTIC COMPOUNDS DERIVED FROM MARINE MICROORGANISMS FOR THE TREATMENT OF MULTIDRUG-RESISTANT BACTERIAL INFECTIONS

(51) International classification :A61P31/04, C07K1/14, C07K2/00, C12N1/20, C12Q1/04

(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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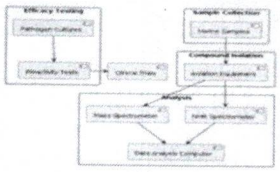
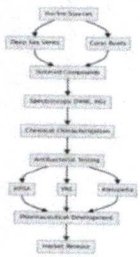
(57) Abstract :

The present invention relates to the discovery and development of novel antibiotic compounds derived from marine microorganisms, offering a potent solution to the escalating global challenge of multidrug-resistant bacterial infections. These newly identified compounds are isolated from unique marine sources, such as deep-sea vents and coral reefs, and have been shown to possess strong antibacterial activity specifically targeting pathogens resistant to existing antibiotics. The chemical structures of these compounds are distinct and have been characterized through various spectroscopic methods, including nuclear magnetic resonance (NMR) and mass spectrometry (MS). The primary novelty lies in their mechanism of action which disrupts essential bacterial processes, thereby overcoming resistance mechanisms. This invention provides a promising therapeutic avenue for treating severe infections caused by bacteria such as Methicillin-resistant Staphylococcus aureus (MRSA), Vancomycin-resistant Enterococci (VRE), and Carbapenem-resistant Klebsiella pneumoniae. The application encompasses the compounds themselves, methods of their isolation and purification, and their use in pharmaceutical compositions for effective treatment of multidrug-resistant infections. Accompanied Drawing [FIGS. 1-2]





No. of Pages : 23 No. of Claims : 10

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ISBM UNIVERSITY ★ BAND (C.G.)

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/04/2024

(21) Application No.202421032928 A
(43) Publication Date : 31/05/2024

(54) Title of the invention : NANOSTRUCTURED ALLOY COMPOSITIONS FOR IMPROVED SUPERCONDUCTIVITY

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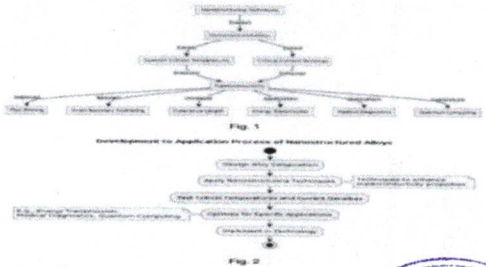
(51) International classification :B82Y30/00, B82Y40/00
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(57) Abstract :
The present invention discloses novel nanostructured alloy compositions tailored to enhance superconductivity. By leveraging nanostructuring techniques and precise alloy formulations, these compositions exhibit superior critical temperatures and critical current densities compared to conventional superconductors. Through careful engineering at the nanoscale, the alloys demonstrate enhanced flux pinning, reduced grain boundary scattering, and increased coherence length, paving the way for advanced applications in energy transmission, medical diagnostics, and quantum computing. This innovation represents a significant leap forward in the field of superconductivity, offering promising solutions to longstanding challenges and opening new avenues for technological advancement. Accompanied Drawing [FIGS. 1-2]



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

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :25/04/2024

(21) Application No.202421032931 A

(43) Publication Date : 31/05/2024

(54) Title of the invention : HIGH-DENSITY SERVER COOLING SYSTEM USING PHASE CHANGE MATERIALS

(51) International classification :H05K0007200000, G06F0001200000, F28D0020020000, G06F0012086600, C09K0005060000

(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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3)Mr. Vagesh Kumar
4)Mr. Khemanshu Sahu
5)Mr. Dushyant Yadav
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(57) Abstract :
The present invention introduces a high-density server cooling system employing phase change materials (PCMs) to efficiently manage the heat generated by servers in data center environments. By leveraging the latent heat absorption properties of PCMs, the cooling system effectively mitigates the challenges posed by high-density server configurations. This innovative approach enhances hardware reliability, prolongs operational lifespan, and substantially reduces energy consumption and associated operating costs in data center cooling. The system's modular design offers scalability and adaptability to varying server densities, ensuring optimal performance under diverse operational conditions. Accompanied Drawing [FIGS. 1-2]

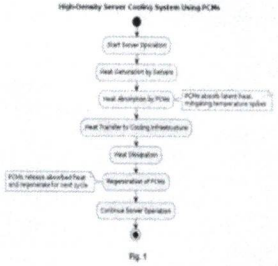

Fig. 1

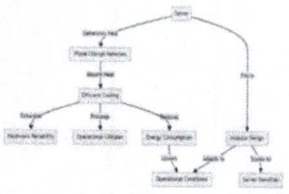

Fig. 2

No. of Pages : 22 No. of Claims : 10

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