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E-COPIES OF LETTER PATENT PUBLISHED/ GRANTED IN THE YEAR 2024

Mangalayatan University

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S. No.	Patent Application No.	Status of Patent (Published/Granted)	Inventor/s Name	Title of the Patent	Patent Published Dated/ Granted Date
1	20 2411016014 A	Published	Dr. Kishan Pal Singh	Biocomposite material composed using coconut coir with reinforcement of epoxy resin material	05-04-24
2	20 2024 101 102.3	Granted	Dr. Kishan Pal Singh	Gym-Based Electrical Generation System With Integrated Kinetic Energy Conversion (Elektrizitätserzeugungssystem Für Fitnessstudios Mit Integrierter Kinetischer Energieumwandlung)	21-03-24
3	20 2411065957	Published	Mr. Love Kumar, Dr. Manoj Varsney	System and Method for Automated Parking Management Using RFID and IOT with Mobile Communication Integration	18-10-24

पेटेंट कार्यालय
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(54) Title of the invention : BIO-COMPOSITE MATERIAL COMPOSED USING COCONUT COIR WITH REINFORCEMENT OF EPOXY RESIN MATERIALS

(51) International classification :B32B27/38, C08J5/04, C08J5/06, C08J5/24, C08L63/00, C08L97/02
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(57) Abstract :
A bio-composite material and method for its preparation are disclosed. The material consists of coconut coir fibers treated with epoxy resin and hardener, then mixed with an epoxy resin matrix to form a composite. This composite exhibits improved mechanical properties, including hardness and load-weight ratio, surpassing those of aluminum alloys. The preparation involves a hand layup technique, and adjustments in the fiber length allow for tailored mechanical properties. The material is eco-friendly and biodegradable.

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

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über die Eintragung des
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(54) Title of the invention : SYSTEM AND METHOD FOR AUTOMATED PARKING MANAGEMENT USING RFID AND IOT WITH MOBILE COMMUNICATION INTEGRATION

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(57) Abstract :
The present invention relates to a system and method for automated parking management that integrates Radio Frequency Identification (RFID) technology, the Internet of Things (IoT), and mobile communication. The system includes RFID tags associated with vehicles, RFID readers positioned at entry and exit points of a parking facility, and a central server connected to an IoT network. The server processes real-time data to dynamically allocate parking spaces, track vehicle duration, and manage gate access. The invention also includes a mobile application that allows users to reserve parking spaces, check availability, make payments, and receive navigation support to their allocated spots. The system automates the entire parking process, enhancing efficiency, security, and user convenience. This innovative approach offers a scalable and cost-effective solution for modern parking management challenges.

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