पेटेंट कार्यालय

शासकीय जर्नल

OFFICIAL JOURNAL OF THE PATENT OFFICE

निर्गमन सं. 01/2021	शुक्रवार	दिनांकः 01/01/2021
ISSUE NO. 01/2021	FRIDAY	DATE: 01/01/2021

पेटेंट कार्यालय का एक प्रकाशन PUBLICATION OF THE PATENT OFFICE

(19) INDIA

(22) Date of filing of Application :24/11/2020

(54) Title of the invention : ANTI-THEFT SYSTEM FOR BAGS :G06F (71)Name of Applicant : 1)Desh Bhagat University 21/32 Address of Applicant :NH1, Mandi Gobindgarh, Punjab-A45C (51) International classification 147301, India Punjab India 13/24 (72)Name of Inventor : G06K 1)Dr. Shalini Gupta 9/00 (31) Priority Document No :NA 2)Dr. Inderpreet Kaur (32) Priority Date :NA 3)Dr. Manpreet Singh Manna (33) Name of priority country :NA (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

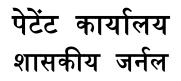
(57) Abstract :

Filing Date

An anti-theft system for bags, comprising a fingerprint sensor integrated with a microcontroller and mounted on a bag, to capture and compare the fingerprints of a user with a pre-stored database, wherein the microcontroller is interfaced with an electromagnetic lock that is activated to lock/unlock the bag, a vibration sensor connected to the microcontroller that detects movement of the bag caused while being snatched by a thief, wherein a buzzer is actuated to produce a sound signal to alerts the user and other person(s) in the surroundings, a suction unit interfaced with microcontroller and mounted on the bag, wherein the suction unit adheres to the body of the user in order to prevent the thief from snatching the bag and a shock generating unit embodied in the bag that is actuated to generate a shock via a button associated with a user interface in order to retrieve the bag.

:NA

No. of Pages : 13 No. of Claims : 8



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(19) INDIA

(22) Date of filing of Application :21/01/2021

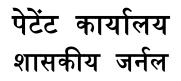
(54) Title of the invention : HYBRID ELECTRICITY GENERATION SYSTEM

(51) International classification	:F24D 19/10 F24S 23/30 F02C 6/18	 (71)Name of Applicant : 1)Desh Bhagat University Address of Applicant :NH1, Mandi Gobindgarh, Punjab 147301, India. Punjab India (72)Name of Inventor : 1)Dr. Inderpreet Kaur
(31) Priority Document No	:NA	2)Dr. Manpreet Singh Manna
(32) Priority Date	:NA	3)Dr. Amandeep Singh Oberoi
(33) Name of priority country	:NA	4)Dr. Sunil Kumar Singla
(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 :

A hybrid electricity generation system, comprising a casing 1 stored with water that is categorized into a first 4, second 3 and third convective zone 2 based on amount of salinity gradient, wherein the third convective zone 2 absorbs maximum radiations/heat from sun, multiple Fresnel lens 9 for concentrating radiations/heat of sun directly into the water to increase temperature level of the water, multiple nanoparticles 10 dissolved in water present in the third convective zone 2 for conveying high amounts of thermal energy upon absorbing the heat/radiations and a thermoelectric generator 6 having a primary 7 and secondary side 8 associated with water, wherein the dissolved water is supplied to the primary side 7 via an insulated conduit 5, whereas the secondary side 8 is maintained at a cooler temperature that in return generates electricity due to temperature difference in between the side(s) of the generator 6 via seebeck effect.

No. of Pages : 14 No. of Claims : 5



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The Patent Office Journal No. 10/2021 Dated 05/03/2021

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/01/2021

(43) Publication Date : 05/03/2021

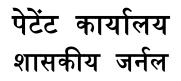
(54) Title of the invention : SUSTAINABLE ELECTRICITY GENERATION SYSTEM SYSTEM

(51) International classification	:F03G0007080000, H01M0010460000, H01M0008065600, H01L0031042000, H01M0008066800	
(31) Priority Document No	:NA	1)Dr. Inderpreet Kaur
(32) Priority Date	:NA	2)Dr. Manpreet Singh Manna
(33) Name of priority country	:NA	3)Dr. Amandeep Singh Oberoi
(86) International Application No	:NA	4)Dr. Sunil Kumar Singla
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A sustainable electricity generation system including a solar module 1 installed at public lavatory for generating electricity during day, a urine storage tank embodied within the lavatory for storing urinated solution, a gas production chamber 2 having at least two electrodes 6, 7 and connected to the tank, receiving urinated solution through an electromechanical valve to produce hydrogen gas ultimately stored in a compressed gas cylinder 3, a chemical sensor fabricated in the chamber to detect urea concentration which is maintained in the chamber through a microcontroller directing the valve, an imaging unit installed in the chamber for detecting working capacity of the electrodes, an electrode replacement unit 10 fitted to the chamber for replacing electrodes based on their working capacity, and an energy generation module 4 connected to the cylinder for utilizing hydrogen gas along with atmospheric oxygen to generate voltage for power consumption by the lavatory at night.

No. of Pages : 16 No. of Claims : 5



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(22) Date of filing of Application :21/01/2021

(54) Title of the invention : HEALTH MONITORING SYSTEM

(51) International classification	5/00 G08B 21/04 G01G	 (71)Name of Applicant : 1)Desh Bhagat University Address of Applicant :NH1, Mandi Gobindgarh, Punjab- 147301, India Punjab India (72)Name of Inventor : 1)Dr. Zong Sinch
(31) Priority Document No(32) Priority Date(33) Name of priority country	19/50 :NA :NA :NA	 1)Dr. Zora Singh 2)Dr. Inderpreet Kaur 3)Dr. Manpreet Singh Manna 4)Dr. Sandeep Singh
(86) International Application No Filing Date	:NA :NA	
(87) International Publication No(61) Patent of Addition to Application NumberFiling Data	: NA :NA ·NA	
Filing Date (62) Divisional to Application Number Filing Date	:NA :NA :NA	

(57) Abstract :

The present invention relates to a health monitoring system, comprising of an examination module placed around a dining area that determines various physical parameters of a user by taking multiple images and processing them in a sequential manner, a weight sensor integrated with the system that determines weight of the user, a processing unit linked with the module that fetches data from the examination module and compares with the three elements included in doshas that are vaat, pit and kapha in order to determine the imbalance in the doshas, a display unit paired with the processing unit that on the basis of degree of imbalance in the doshas, suggests suitable diet and body posture during and after meal in order to rectify the imbalance in the doshas.

No. of Pages : 13 No. of Claims : 8



Register of Patents Patents Act 1990

Innovation Patent

Patent no: 2021100050

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Title:	MACHINE LEARNING AND I0T BASED AUTONOMOUS CAR JACK
Term:	Eight years from 6 January 2021
Date Granted:	10 March 2021
Date Certified:	
Date of Patent:	6 January 2021
Status:	GRANTED

Expiry Date:6 January 2029Date Ceased:January 2029Date Revoked:Image: Constraint of the second sec



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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :03/09/2020

(43) Publication Date : 25/09/2020

(54) Title of the invention : SECURE SECRET KEY SHARING BASED ASYMMETRIC CRYPTOGRAPHY WITH BLOCKCHAIN FOR INTERNET OF THINGS

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(51) International classification	H04L0009320000,	2)Prof. (Dr.) Meenakshi Sharma
(H04W0004700000,	
	H04L0009060000	4)Dr Arvind Kumar
(31) Priority Document No	:NA	5)Prof Jayant Shekar
(32) Priority Date	:NA	6)Rajnish Kumar Mishra
(33) Name of priority country	:NA	7)Aditya Tandon
(86) International Application No	:NA	8)Dr.R.Lakshmana Kumar
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)Dr. Manpreet Singh Manna
(61) Patent of Addition to Application Numb	er:NA	2)Prof. (Dr.) Meenakshi Sharma
Filing Date	:NA	3)Prof.(Dr.)B. Balamurugan
(62) Divisional to Application Number	:NA	4)Dr Arvind Kumar
Filing Date	:NA	5)Prof Jayant Shekar
-		6)Rajnish Kumar Mishra
		7)Aditya Tandon
		8)Dr.R.Lakshmana Kumar

(57) Abstract :

The Internet of Things (IoT) can see as a network of physical devices, with the capability to gather and distribute various types of data in any time, location, context and medium. In an IoT, the distributed devices use sensors to monitor different conditions, such as sound, temperature, pressure, vibration, pollutants, and movement, to name a few. Sensor nodes in IoT are dependable for distributing information with low power expenditure, a high degree of trustworthiness, with high autonomy stage, and high performance. This information can reflect in numerous regions for which IoT proposed as a solution to various requirements. Privacy, security, autonomy and reliability are the most significant necessities in IoT systems. If these problems are not assured, the IoT system could be vulnerable to malicious users and malicious usage. In centralized IoT systems, risks and attacks are superior, particularly when data is broadcasted between devices and disseminated with other organizations. This work presents a decentralized system that assures the security and autonomy of an IoT system to evade these types of circumstances. The proposed method assists defending data availability and integrity using the security benefits offered by blockchain and the use of cryptographic tools. In this work, an asymmetric cryptography scheme proposed to enhance the confidentiality and integrity of the data travelling over the network. The proposed method carried out through the communication of data between the main data receiver and physical devices. In asymmetric cryptography, the public key used for encryption and secret key used for decryption. Therefore, source IoT device share secret key to destination IoT device is necessary. Secure secret key sharing refers to any method for sharing a secret among a group of devices, each of which allows a share of the secret. The secret can reconstruct when the shares merged. The precision of the proposed method was calculated on humidity and temperature sensing IoT. The achieved outcomesconfirm that the scheme fulfils the major necessities of an IoT system. It is independent, safe to distribute and transmitdata between users and devices, has confidentiality, it is trustworthy, and the data is obtainable in the infrastructure. Moreover, this study shows that the scheme is less vulnerable to the most common attacks against IoT systems, for example, linking attack, Distributed Denial of Service (DDoS) attack and man in the middle.

No. of Pages : 12 No. of Claims : 4

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Patent is certified (patent is now enforceable)

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Manpreet Singh Manna

Associate Professor Department of EIE Sant Longowal Institute of Engg. & Tech (Deemed University by MHRD, GOI), Longowal,Sangrur, Punjab - 148106 India

2020101845	
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