(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/09/2022

(21) Application No.202211052282 A

(43) Publication Date : 16/09/2022

(54) Title of the invention : MACHINE LEARNING-BASED METHODOLOGY FOR DATABASE MIGRATION IN CLOUD COMPUTING ENVIRONMENT

(51) International classification	:G06F0816230000, H04L6029080000, H04L0012240000, G06F0009500000, H04L0012911000
(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 discloses a system based on machine learning for database migration in a cloud computing environment and the method thereof. The method and system include, but are not limited to, a processing unit coupled with a memory unit for further having a plurality of database migration modules in a cloud network and a computation server provided in a cloud network for configuring and determining a weight function for each of a plurality of hosts connected in a cloud network with dependence on the current resource utilization to database storage and management system and further, predicted resource utilization and cause allocation of a cloud computing resource in dependence on the determined weight function.

No. of Pages : 8 No. of Claims : 7

Application Details

APPLICATION NUMBER	202211052282
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	13/09/2022
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TITLE OF INVENTION	MACHINE LEARNING-BASED METHODOLOGY FOR DATABASE MIGRATION IN CLOUD COMPUTING ENVIRONMENT
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	16/09/2022

Application Status

APPLICATION STATUS

Awaiting Request for Examination

View Documents

Filed → Published → RQ Filed → Under Examination → Disposed

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Department for Promotion of Industry and Internal Trade
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INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
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Application Details

APPLICATION NUMBER	202241051840
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	11/09/2022
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TITLE OF INVENTION	Novel 5G communication microstrip patch antenna for broadcasting and navigation application
FIELD OF INVENTION	ELECTRONICS
E-MAIL (As Per Record)	mail2patentipr@gmail.com
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	16/09/2022

Application Status

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :04/12/2022

(21) Application No.202221069895 A

(43) Publication Date : 30/12/2022

(54) Title of the invention : SYSTEM TO ASSESS AND IDENTIFY THE CASUALTY OF THE WOUND TISSUE USING ARTIFICIAL INTELLIGENCE

(51) International classification : A61B0005000000, G06N0020000000, A61P0017020000, G06T0007000000, G06T0007110000

(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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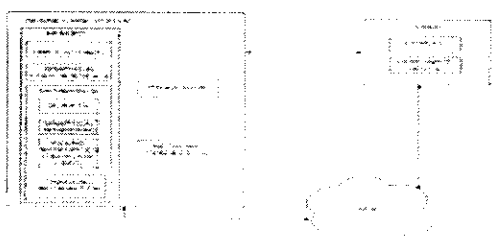
(57) Abstract :
This invention describes a wound analysing and treating system with a machine-learning-based approach for automated analysis of wound tissue from optical coherence tomography images. The process applies to all types of wounds, requires no manual input, and can produce clinically relevant metrics for the assessment of wound healing. The method addresses the need for automating and enriching the assessment of wounds and wound healing for improved monitoring of patients suffering from chronic injuries. This machine learning model will help identify and locate different tissue compartments present within a wound at variable depths previously not identified. It is directed to treat various forms of breaks in skin tissue and chronic surface tissue wounds.



No. of Pages : 20 No. of Claims : 9

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Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
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INTELLECTUAL PROPERTY INDIA
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Application Details

APPLICATION NUMBER	202221069895
APPLICATION TYPE	ORDINARY APPLICATION
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TITLE OF INVENTION	SYSTEM TO ASSESS AND IDENTIFY THE CASUALTY OF THE WOUND TISSUE USING ARTIFICIAL INTELLIGENCE
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	30/12/2022

Application Status

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/12/2022

(21) Application No.202241071994 A
(43) Publication Date : 30/12/2022

(54) Title of the invention : Artificial Intelligence and IoT based Automatic rainfall detection and alert system at early stages using rainfall threshold, WSN, Cloud and Machine learning algorithms

(51) International classification :H04L0067120000, B60S0001080000, G06N0020000000, H04L0012280000, H04W0004700000
(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

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(57) Abstract :
Artificial Intelligence and IoT based Automatic rainfall detection and alert system at early stages using rainfall threshold, WSN, Cloud and Machine learning algorithms ABSTRACT An Internet of Things device is a sensor-equipped piece of hardware that can transfer data from one thing to another or to people over the internet (IoT device for short). The Internet of Things (IoT) category comprises wireless sensors, software, actuators, and hardware components. By unifying everything into a single, consistent architecture, the Internet of Things aims to provide us with control over our immediate surroundings and keep us abreast of any changes. Using an ATTiny85 microcontroller and a rain sensor, the objective of this inquiry is to develop a rain-activated alarm system. Even though the notion is straightforward, its success will have far-reaching effects. Numerous farming, agriculture, and irrigation-related projects, such as weather stations, can profit from it. This project can be combined with a home automation system to automatically close the windows if it starts to rain. This method can also help windshield wipers on automobiles, especially those used on luxury vehicles such as Teslas

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

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Ministry of Commerce & Industry,
Government of India

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Application Details

APPLICATION NUMBER	202241071994
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	13/12/2022
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TITLE OF INVENTION	Artificial Intelligence and IoT based Automatic rainfall detection and alert system at early stages using rainfall threshold, WSN, Cloud and Machine learning algorithms
FIELD OF INVENTION	MECHANICAL ENGINEERING
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	30/12/2022

Application Status

APPLICATION STATUS

Awaiting Request for Examination

View Documents

➡ Filed ➡ Published ➡ RQ Filed ➡ Under Examination ➡ Disposed

In case of any discrepancy in status, kindly contact ipo-helpdesk@nic.in

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :26/06/2022

(21) Application No.202221036594 A

(43) Publication Date : 02/12/2022

(54) Title of the invention : A VEHICLE-TO-VEHICLE ALERTING MECHANISM EQUIPPED SWAPPABLE ELECTRIC BATTERY SYSTEM TO NOTIFY REQUIREMENTS.

(51) International classification	:G06G06N0020000000, B60L0058130000, B60L0053800000, B60L0050640000, H02J0003000000
(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 :

This invention describes a smart swappable battery system designed for electric vehicle powering, equipped with the mechanism to predict the charge capacity and to broadcast a request using Vehicle-to-vehicle communication to another electric vehicle to notify the requirement of battery power. The system is designed with the capability of detecting and predicting the battery power level using a machine learning program to estimate the Kilometers it will be able to travel based on the speed of the vehicle. TITLE: A Vehicle-to-vehicle alerting mechanism equipped with a swappable electric battery system to notify requirements.

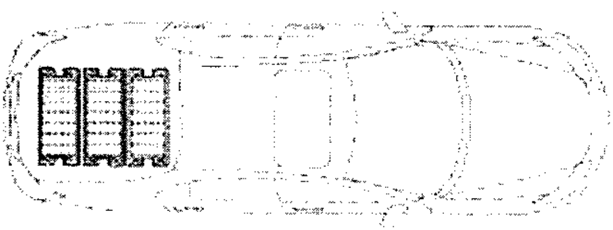

FIGURE - 1

No. of Pages : 23 No. of Claims : 8

INTELLECTUAL PROPERTY **INDIA**
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

सत्यमेव जयते

क्रम सं/SL No :022144590

पेटेंट कार्यालय,भारत सरकार | The Patent Office, Government Of India

पेटेंट प्रमाण पत्र | Patent Certificate

(पेटेंट नियमावली का नियम 74) | (Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No.	:	538748
आवेदन सं. / Application No.	:	202221036594
फाइल करने की तारीख / Date of Filing	:	26/06/2022
पेटेंटी / Patentee	:	1.Dr. Neha Verma 2.Dr. Pankaj Dadheech 3.Jatin Kumar Gupta 4.Dr. Brijesh Patel

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित *A VEHICLE-TO-VEHICLE ALERTING MECHANISM EQUIPPED SWAPPABLE ELECTRIC BATTERY SYSTEM TO NOTIFY REQUIREMENTS.* नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख जून 2022 के छब्बीसवें 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 *A VEHICLE-TO-VEHICLE ALERTING MECHANISM EQUIPPED SWAPPABLE ELECTRIC BATTERY SYSTEM TO NOTIFY REQUIREMENTS.* as disclosed in the above mentioned application for the term of 20 years from the 26th day of June 2022 in accordance with the provisions of the Patents Act,1970.

अनुदान की तारीख : 21/05/2024
Date of Grant :

उच्चार की पंडित
पेटेंट नियंत्रक
Controller of Patents

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, जून 2024 के छब्बीसवें 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 26th day of June 2024 and on the same day in every year thereafter.

*चूंकि पेटेंटी व आविष्कारकों की संख्या अधिक है, पेटेंटी व आविष्कारकों के नाम पृष्ट संख्या 2 पर जारी हैं।
*Since the Number of Patentees / Inventors is more, the name of Patentees / Inventors are continued on Page No. 2

Application Details

APPLICATION NUMBER	202221036594
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	26/06/2022
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TITLE OF INVENTION	A VEHICLE-TO-VEHICLE ALERTING MECHANISM EQUIPPED SWAPPABLE ELECTRIC BATTERY SYSTEM TO NOTIFY REQUIREMENTS.
FIELD OF INVENTION	ELECTRONICS
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	25/09/2022
PUBLICATION DATE (U/S 11A)	02/12/2022
FIRST EXAMINATION REPORT DATE	09/12/2022
Date Of Certificate Issue	21/05/2024
POST GRANT JOURNAL DATE	24/05/2024
REPLY TO FER DATE	29/04/2023

Application Status

APPLICATION STATUS

Granted Application, Patent Number :538748

E-Register Order(s)/Decision(s) View Documents

➡ Filed ➡ RQ Filed ➡ Published ➡ Under Examination ➡ Disposed

US 20220335739A1

(19) **United States**

(12) **Patent Application Publication**

(10) **Pub. No.: US 2022/0335739 A1**

(43) **Pub. Date: Oct. 20, 2022**

Bhatia et al.

(54) **CHARACTER AND SYMBOL RECOGNITION SYSTEM FOR VEHICLE SAFETY**

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(21) Appl. No.: **17/809,443**

(22) Filed: **Jun. 28, 2022**

Publication Classification

(51) **Int. Cl.**

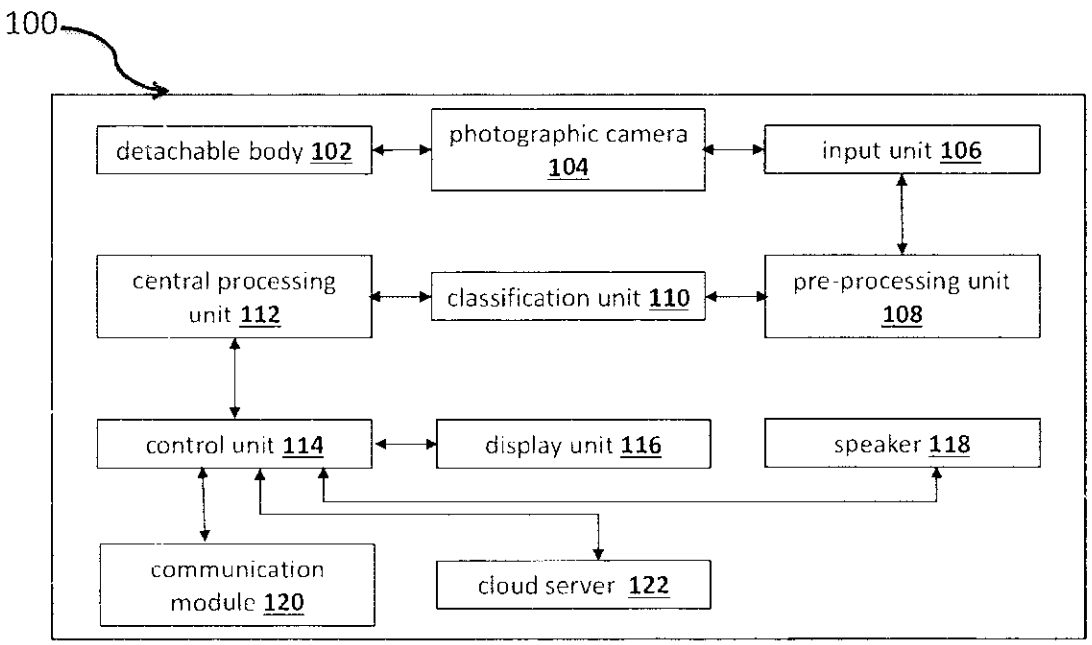
G06V 30/148	(2006.01)
G06V 20/62	(2006.01)
G06V 20/56	(2006.01)
G06V 10/82	(2006.01)
B60R 11/04	(2006.01)

(52) **U.S. Cl.**

CPC ***G06V 30/153*** (2022.01); ***G06V 20/52*** (2022.01); ***G06V 20/56*** (2022.01); ***G06V 10/82*** (2022.01); ***B60R 11/04*** (2013.01)

(57) **ABSTRACT**

The character and symbol recognition system comprises a detachable body having a photographic camera to capture real time image of one of sheet or poster comprising of printed and handwritten characters and symbols; an input unit to acquire the real time captured image; a pre-processing unit to detect a character and symbol region; a classification unit equipped with at least two channel neural network based on CNN and LSTM to separate the character and symbol region; a central processing unit to calculate weights for transitions to the candidates thereby generate one of a first character or first symbol string transition data based on a set of the candidates and the weights; and a control unit to detect one or both of the printed and handwritten characters and symbols thereby display the detected information on a display unit and play the detected information on a speaker to alert a rider.



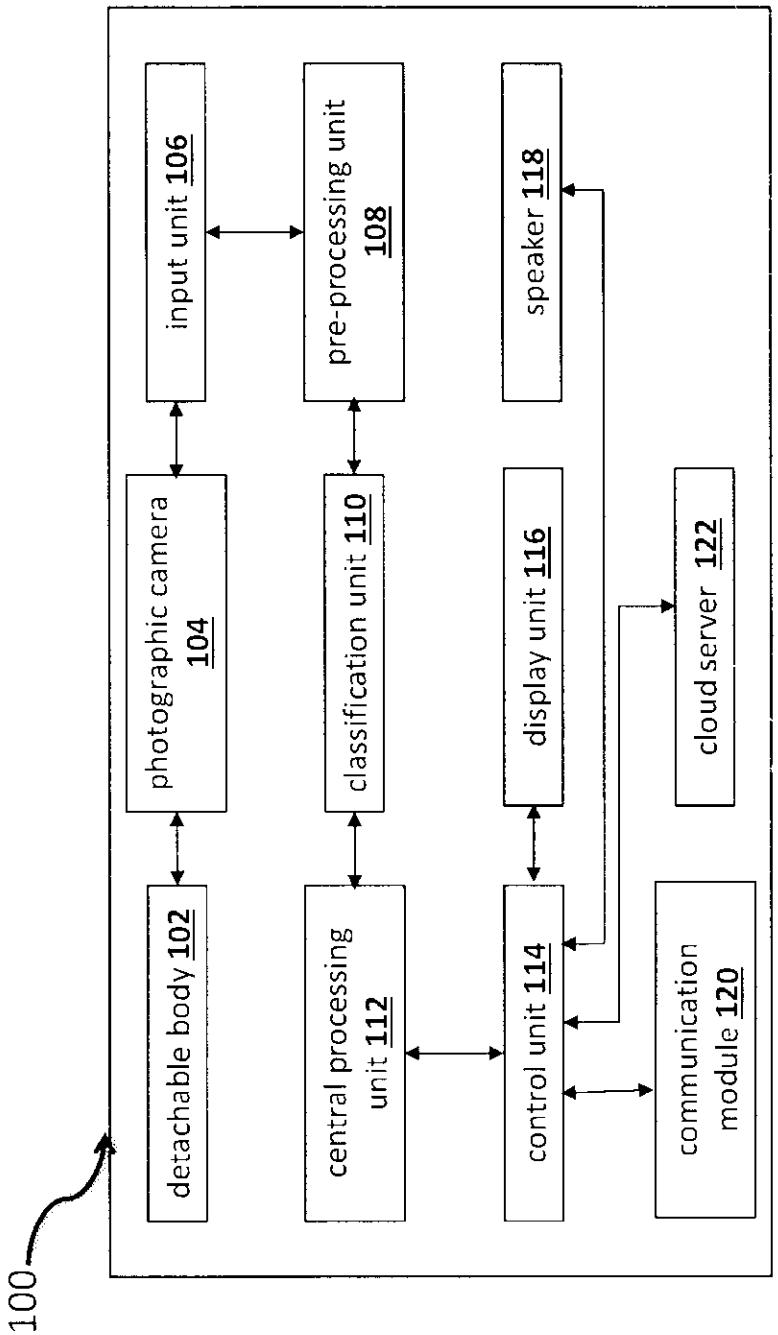

100
detachable body 102
photographic camera 104
input unit 106
central processing unit 112
classification unit 110
pre-processing unit 108
control unit 114
display unit 116
speaker 118
communication module 120
cloud server 122

Figure 1

CHARACTER AND SYMBOL RECOGNITION SYSTEM FOR VEHICLE SAFETY

FIELD OF THE INVENTION

[0001] The present disclosure relates to digital character recognition, in more details, a character and symbol recognition system for vehicle safety.

BACKGROUND OF THE INVENTION

[0002] In spite of the prevalence of technological media in today's world, a significant quantity of written communications, such as books, bank checks, contracts, and so on, is still done on paper. The automation of information extraction, classification, search, and retrieval of documents is becoming increasingly popular.

[0003] One of the first and most effective uses of pattern recognition was the recognition of printed characters using computers. For more than three decades, researchers have been working on optical character recognition (OCR). Hundreds of thousands of ways have been developed to deal with the recognition of machine-printed and handwritten characters in various scripts. The problem can be regarded solved for machine-printed Latin characters, at least when the degree of noise is modest. In cases where quality imagery is available, machine-printed character recognition rates often surpass 9%.

[0004] However, dealing with handwritten letters and sentences is tough, especially when the visuals are chaotic. Handwriting identification is tough due to the fact that there are as many different handwriting styles as there are persons. In fact, it's usually assumed that each person's handwriting is unique to them. Handwriting Identification is a forensic science subject that studies the identification or verification of the writer of a particular handwritten document. It is founded on the idea that no two people's handwritings are identical. This means that a handwritten character/word might assume an excessive number of different shapes, making identification difficult even for humans. In the view of the forgoing discussion, it is clearly portrayed that there is a need to have a character and symbol recognition system for vehicle safety.

SUMMARY OF THE INVENTION

[0005] The present disclosure seeks to provide a character and symbol recognition system for guiding and alerting riders about road safety precautions.

[0006] In an embodiment, a character and symbol recognition system for vehicle safety is disclosed. The system includes a detachable body having a photographic camera installed on a top/front side of a vehicle to capture real time image of one of sheet or poster comprising of printed and handwritten characters and symbols. The system further includes an input unit connected to the photographic camera to acquire the real time captured image. The system further includes a pre-processing unit to detect a character and symbol region from the real time captured image. The system further includes a classification unit equipped with at least two channel neural network based on CNN (Convolutional Neural Network) and LSTM (Long- and Short-Term Memory Network) to separate the character and symbol region on a character-by-character basis and recognize the characters and symbols on character-by-character basis in separated regions and generate one or more character recognition and symbol recognition result candidates for each character and symbol. The system further includes a central processing unit coupled to the classification unit to receive the candidates and calculate weights for transitions to the candidates thereby generate one of a first character string transition data or a first symbol string transition data based on a set of the candidates and the weights, wherein consecutively perform state transitions based one of the first character string transition data or first symbol string transition data and collect the weights in each state transition to calculate a cumulative weight for each state transition for generating one or more state transition results signal based on the cumulative weight. The system further includes a control unit to receive the generated one or more state transition results signal to detect one or both of the printed and handwritten characters and symbols thereby display the detected information on a display unit and play the detected information on a speaker to alert a rider.

[0007] In another embodiment, the weights are revised on each of the candidates character size.

[0008] In another embodiment, the generated first character string transition data and first symbol string transition data comprises a first epsilon transition from an initial state of a character and symbol string transition to the candidate, a second epsilon transition from the candidate to a final state of the character and symbol string transition, and a third epsilon transition for skipping the candidate on a character-by-character basis.

[0009] In another embodiment, the separation of the character and symbol region is performed on at least two step upon deploying the at least two channel neural network based on CNN and LSTM to avoid any error.

[0010] In another embodiment, the output of both of the at least two channel neural network is compared and in case of any difference the separation of the character and symbol region is repeated to eliminate the error.

[0011] In another embodiment, the detected information is displayed and played to alert the rider about the instructions provided for the riders on the bank of the road to avoid accidents.

[0012] In another embodiment, the field of view of the photographic camera preferably ranges from 80° to 140°, which is optionally increased by deploying more cameras or camera with higher field of view.

[0013] In another embodiment, the pre-processing unit further comprises removal of margin, rule-line, noise and skew correction.

[0014] In another embodiment, a cloud server wirelessly connected to the control unit through a communication module to receive and store the detected information in multiple formats including images, text, and audio.

[0015] In another embodiment, the weights are calculated by taking character string transition data or the first symbol string transition data of pre-stored characters and symbols registered in a language database.

[0016] An object of the presem disclosure is to perform character recognition from a scene image with high accuracy and at high speed.

[0017] Another object of the present disclosure is to guide and alert riders about road safety precautions.

[0018] Yet another object of the presem invention is to deliver an expeditious and cost-effective character and symbol recognition system for vehicle safety.

[0019] To further clarify advantages and features of the present disclosure, a more particular description of the invention will be rendered by reference to specific embodiments thereof, which is illustrated in the appended drawings. It is appreciated that these drawings depict only typical embodiments of the invention and are therefore not to be considered limiting of its scope. The invention will be described and explained with additional specificity and detail with the accompanying drawings.

BRIEF DESCRIPTION OF FIGURES

[0020] These and other features, aspects, and advantages of the present disclosure will become better understood when the following detailed description is read with reference to the accompanying drawings in which like characters represent like parts throughout the drawings, wherein:

[0021] FIG. 1 illustrates a block diagram of a character and symbol recognition system for vehicle safety in accordance with an embodiment of the present disclosure.

[0022] Further, skilled artisans will appreciate that elements in the drawings are illustrated for simplicity and may not have necessarily been drawn to scale. For example, the flow charts illustrate the method in terms of the most prominent steps involved to help to improve understanding of aspects of the present disclosure. Furthermore, in terms of the construction of the device, one or more components of the device may have been represented in the drawings by conventional symbols, and the drawings may show only those specific details that are pertinent to understanding the embodiments of the present disclosure so as not to obscure the drawings with details that will be readily apparent to those of ordinary skill in the art having benefit of the description herein.

DETAILED DESCRIPTION

[0023] For the purpose of promoting an understanding of the principles of the invention, reference will now be made to the embodiment illustrated in the drawings and specific language will be used to describe the same. It will nevertheless be understood that no limitation of the scope of the invention is thereby intended, such alterations and further modifications in the illustrated system, and such further applications of the principles of the invention as illustrated therein being contemplated as would normally occur to one skilled in the art to which the invention relates.

[0024] It will be understood by those skilled in the art that the foregoing general description and the following detailed description are exemplary and explanatory of the invention and are not intended to be restrictive thereof.

[0025] Reference throughout this specification to "an aspect", "another aspect" or similar language means that a particular feature, structure, or characteristic described in connection with the embodiment is included in at least one embodiment of the present disclosure. Thus, appearances of the phrase "in an embodiment", "in another embodiment" and similar language throughout this specification may, but do not necessarily, all refer to the same embodiment.

[0026] The terms "comprises", "comprising", or any other variations thereof, are intended to cover a non-exclusive inclusion, such that a process or method that comprises a list of steps does not include only those steps but may include other steps not expressly listed or inherent to such process or method. Similarly, one or more devices or sub-systems or elements or structures or components proceeded by "comprises . . . a" does not, without more constraints, preclude the existence of other devices or other sub-systems or other elements or other structures or other components or additional devices or additional sub-systems or additional elements or additional structures or additional components.

[0027] Unless otherwise defined, all technical and scientific terms used herein have the same meaning as commonly understood by one of ordinary skill in the art to which this invention belongs. The system, methods, and examples provided herein are illustrative only and not intended to be limiting.

[0028] Embodiments of the present disclosure will be described below in detail with reference to the accompanying drawings.

[0029] Referring to FIG. 1, a block diagram of a character and symbol recognition system for vehicle safety is illustrated in accordance with an embodiment of the present disclosure. The system **100** includes a detachable body **102** having a photographic camera **104** installed on a top/front side of a vehicle to capture real time image of one of sheet or poster comprising of printed and handwritten characters and symbols. The detachable body **102** can be attached with any of the vehicles including two-wheelers, four-wheelers or big trucks etc.

[0030] In an embodiment, an input unit **106** is connected to the photographic camera **104** to acquire the real time captured image.

[0031] In an embodiment, a pre-processing unit **108** is connected to the input unit **106** to detect a character and symbol region from the real time captured image. The pre-processing unit **108** further includes at least one operation selected from the group consisting of slant correction, binarization, vertical filling inside each connected components and removing isolated blocks.

[0032] In an embodiment, a classification unit **110** is equipped with at least two channel neural network based on CNN (Convolutional Neural Network) and LSTM (Long- and Short-Term Memory Network) to separate the character and symbol region on a character-by-character basis and recognize the characters and symbols on character-by-character basis in separated regions and generate one or more character recognition and symbol recognition result candidates for each character and symbol.

[0033] In an embodiment, a central processing unit **112** is coupled to the classification unit **110** to receive the candidates and calculate weights for transitions to the candidates thereby generate one of a first character string transition data or a first symbol string transition data based on a set of the candidates and the weights, wherein consecutively perform state transitions based one of the first character string transition data or first symbol string transition data and collect the weights in each state transition to calculate a cumulative weight for each state transition for generating one or more state transition results signal based on the cumulative weight.

[0034] In an embodiment, a control unit **114** is connected to the central processing unit **112** to receive the generated one or more state transition results signal to detect one or both of the printed and handwritten characters and symbols thereby display the detected information on a display unit **116** and play the detected information on a spvaker **118** to alert a rider.

[0035] In an exemplary embodiment, the alert may include cautions about a sharp left turn, cautions the driver about a narrow road, indicates the driver about a narrow bridge on the road ahead, a sign indicates that pedestrians should cross the road and the like.

[0036] In another embodiment, the weights are revised on each of the candidates character size.

[0037] In another embodiment, the generated first character string transition data and first symbol string transition data comprises a first epsilon transition from an initial state of a character and symbol string transition to the candidate, a second epsilon transition from the candidate to a final state of the character and symbol string transition, and a third epsilon transition for skipping the candidate on a character-by-character basis.

[0038] In another embodiment, the separation of the character and symbol region is performed on at least two step upon deploying the at least two channel neural network based on CNN and LSTM to avoid any error.

[0039] In another embodiment, the output of both of the at least two channel neural network is compared and in case of any difference the separation of the character and symbol region is repeated to eliminate the error.

[0040] In another embodiment, the detected information is displayed and played to alert the rider about the instructions provided for the riders on the bank of the road to avoid accidents.

[0041] In another embodiment, the field of view of the photographic camera **104** preferably ranges from 80° to 140°, which is optionally increased by deploying more cameras or camera with higher field of view.

[0042] In another embodiment, the pre-processing unit **108** further comprises removal of margin, rule-line, noise and skew correction.

[0043] In another embodiment, a cloud server **122** wirelessly connected to the control unit **114** through a communication module **120** to receive and store the detected information in multiple formats including images, text, and audio.

[0044] In another embodiment, the weights are calculated by taking character string transition data or the first symbol string transition data of pre-stored characters and symbols registered in a language database.

[0045] The drawings and the forgoing description give examples of embodiments. Those skilled in the art will appreciate that one or more of the described elements may well be combined into a single functional element. Alternatively, certain elements may be split into multiple functional elements. Elements from one embodiment may be added to another embodiment. For example, orders of processes described herein may be changed and are not limited to the manner described herein. Moreover, the actions of any flow diagram need not be implemented in the order shown; nor do all of the acts necessarily need to be performed. Also, those acts that are not dependent on other acts may be performed in parallel with the other acts. The scope of embodiments is by no means limited by these specific examples. Numerous variations, whether explicitly given in the specification or not, such as differences in structure, dimension, and use of material, are possible. The scope of embodiments is at least as broad as given by the following claims.

[0046] Benefits, other advantages, and solutions to problems have been described above with regard to specific embodiments. However, the benefits, advantages, solutions to problems, and any component(s) that may cause any benefit, advantage, or solution to occur or become more pronounced are not to be construed as a critical, required, or essential feature or component of any or all the claims.

1. A character and symbol recognition system for vehicle safety, the system comprises:

a detachable body having a photographic camera installed on a top/front side of a vehicle to capture real time image of one of sheet or poster comprising of printed and handwritten characters and symbols;

an input unit connected to the photographic camera to acquire the real time captured image;

a pre-processing unit to detect a character and symbol region from the real time captured image;

a classification unit equipped with at least two channel neural network based on CNN (Convolutional Neural Network) and LSTM (Long- and Short-Term Memory Network) to separate the character and symbol region on a character-by-character basis and recognize the characters and symbols on character-by-character basis in separated regions and generate one or more character recognition and symbol recognition result candidates for each character and symbol;

a central processing unit coupled to the classification unit to receive the candidates and calculate weights for transitions to the candidates thereby generate one of a first character string transition data or a first symbol string transition data based on a set of the candidates and the weights, wherein consecutively perform state transitions based one of the first character string transition data or first symbol string transition data and collect the weights in each state transition to calculate a cumulative weight for each state transition for generating one or more state transition results signal based on the cumulative weight; and

a control unit to receive the generated one or more state transition results signal to detect one or both of the printed and handwritten characters and symbols thereby display the detected information on a display unit and play the detected information on a speaker to alert a rider.

2. The system of claim **1**, wherein the weights are revised on each of the candidates character size.

3. The system of claim **1**, wherein the generated first character string transition data and first symbol string transition data comprises a first epsilon transition from an initial state of a character and symbol string transition to the candidate, a second epsilon transition from the candidate to a final state of the character and symbol string transition, and a third epsilon transition for skipping the candidate on a character-by-character basis.

4. The system of claim **1**, wherein the separation of the character and symbol region is performed on at least two step upon deploying the at least two channel neural network based on CNN and LSTM to avoid any error.

5. The system of claim **1**, wherein the output of both of the at least two channel neural network is compared and in case of any difference the separation of the character and symbol region is repeated to eliminate the error.

6. The system of claim **1**, wherein the detected information is displayed and played to alert the rider about the instructions provided for the riders on the bank of the road to avoid accidents.

7. The system of claim 1, wherein the field of view of the photographic camera preferably ranges from 80° to 140°, which is optionally increased by deploying more cameras or camera with higher field of view.

8. The system of claim 1, wherein the pre-processing unit further comprises removal of margin, rule-line, noise and skew correction.

9. The system of claim 1, wherein a cloud server wirelessly connected to the control unit through a communication module to receive and store the detected information in multiple formats including images, text, and audio.

10. The system of claim 1, wherein the weights are calculated by taking character string transition data or the first symbol string transition data of pre-stored characters and symbols registered in a language database.

* * * * *

Title: **CHARACTER AND SYMBOL RECOGNITION SYSTEM FOR VEHICLE SAFETY**

Document Type and Number: United States Patent Application 20220335739 **Kind Code:** A1

Abstract: The character and symbol recognition system comprises a detachable body having a photographic camera to capture real time image of one of sheet or poster comp symbols, an input unit to acquire the real time captured image; a pre-processing unit to detect a character and symbol region; a classification unit equipped with at le and LSTM to separate the character and symbol region, a central processing unit to calculate weights for transitions to the candidates thereby generate one of a first based on a set of the candidates and the weights, and a control unit to detect one or both of the printed and handwritten characters and symbols thereby display the the detected information on a speaker to alert a rider.

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Application Number: 17/809443

Publication Date: 10/20/2022

Filing Date: 06/28/2022

View Patent Images: Download PDF 20220335739

Export Citation: Click for automatic bibliography generation

International Classes: *G06V30/148 B60R11/04 G06V10/82 G06V20/56 G06V20/62*

Claims: 1. A character and symbol recognition system for vehicle safety, the system comprises: a detachable body having a photographic camera installed on a top/front sid sheet or poster comprising of printed and handwritten characters and symbols; an input unit connected to the photographic camera to acquire the real time captured character and symbol region from the real time captured image; a classification unit equipped with at least two channel neural network based on CNN (Convolutiona Term Memory Network) to separate the character and symbol region on a character-by-character basis and recognize the characters and symbols on character-by-c one or more character recognition and symbol recognition result candidates for each character and symbol; a central processing unit coupled to the classification uni for transitions to the candidates thereby generate one of a first character string transition data or a first symbol string transition data based on a set of the candidates state transitions based one of the first character string transition data or first symbol string transition data and collect the weights in each state transition to calculate generating one or more state transition results signal based on the cumulative weight; and a control unit to receive the generated one or more state transition results handwritten characters and symbols thereby display the detected information on a display unit and play the detected information on a speaker to alert a rider.

2. The system of claim 1, wherein the weights are based on each of the candidates character size.

3. The system of claim 1, wherein the generated first character string transition data and first symbol string transition data comprises a first epsilon transition from an state for the candidates second epsilon transition from the candidate to a final state of the character and symbol string transition, and a third epsilon transition f character state.

4. The system of claim 1, wherein the separation of the character and symbol region is performed on at least two step upon deploying the at least two channel neural error.

5. The system of claim 1, wherein the output of both of the at least two channel neural network is compared and in case of any difference the separation of the chara the error.

6. The system of claim 1, wherein the detected information is displayed and played to alert the rider about the instructions provided for the riders on the bank of the r

7. The system of claim 1, wherein the field of view of the photographic camera preferably ranges from 80° to 140°, which is optionally increased by deploying more c

8. The system of claim 1, wherein the pre-processing unit further comprises removal of margin, rule-line, noise and skew correction.

9. The system of claim 1, wherein a cloud server wirelessly connected to the control unit through a communication module to receive and store the detected informat audio.

10. The system of claim 1, wherein the weights are calculated by taking character string transition data or the first symbol string transition data of pre-stored characte database.

Description:

FIELD OF THE INVENTION

The present disclosure relates to digital character recognition, in more details, a character and symbol recognition system for vehicle safety.

BACKGROUND OF THE INVENTION

In spite of the prevalence of technological media in today's world, a significant quantity of written communications, such as books, bank checks, contracts, and sc on information extraction, classification, search, and retrieval of documents is becoming increasingly popular.

One of the first and most effective uses of pattern recognition was the recognition of printed characters using computers. For more than three decades, researchers recognition (OCR). Hundreds of thousands of ways have been developed to deal with the recognition of machine-printed and handwritten characters in various scrip machine-printed Latin characters, at least when the degree of noise is modest. In cases where quality imagery is available, machine-printed character recognition rat

However, dealing with handwritten letters and sentences is tough, especially when the visuals are chaotic. Handwriting identification is tough due to the fact that ther there are persons. In fact, it's usually assumed that each person's handwriting is unique to them. Handwriting identification is a forensic science subject that studies t particular handwritten document. It is founded on the idea that no two people's handwritings are identical. This means that a handwritten character/word might assur making identification difficult even for humans. In the view of the forgoing discussion, it is clearly portrayed that there is a need to have a character and symbol recog

SUMMARY OF THE INVENTION

The present disclosure seeks to provide a character and symbol recognition system for guiding and alerting riders about road safety precautions.

In an embodiment, a character and symbol recognition system for vehicle safety is disclosed. The system includes a detachable body having a photographic camera capture real time image of one of sheet or poster comprising of printed and handwritten characters and symbols. The system further includes an input unit connected time captured image. The system further includes a pre-processing unit to detect a character and symbol region from the real time captured image. The system furth least two channel neural network based on CNN (Convolutional Neural Network) and LSTM (Long- and Short-Term Memory Network) to separate the character and and recognize the characters and symbols on character-by-character basis in separated regions and generate one or more character recognition and symbol recogn symbol. The system further includes a central processing unit coupled to the classification unit to receive the candidates and calculate weights for transitions to the c character string transition data or a first symbol string transition data based on a set of the candidates and the weights, wherein consecutively perform state transitior data or first symbol string transition data and collect the weights in each state transition to calculate a cumulative weight for each state transition for generating one c cumulative weight. The system further includes a control unit to receive the generated one or more state transition results signal to detect one or both of the printed a display the detected information on a display unit and play the detected information on a speaker to alert a rider.

In another embodiment, the weights are revised on each of the candidates character size.

In another embodiment, the generated first character string transition data and first symbol string transition data comprises a first epsilon transition from an initial stat the candidate, a second epsilon transition from the candidate to a final state of the character and symbol string transition, and a third epsilon transition for skipping th

In another embodiment, the separation of the character and symbol region is performed on at least two step upon deploying the at least two channel neural network.

In another embodiment, the output of both of the at least two channel neural network is compared and in case of any difference the separation of the character and s

In another embodiment, the detected information is displayed and played to alert the rider about the instructions provided for the riders on the bank of the road to avo

In another embodiment, the field of view of the photographic camera preferably ranges from 80° to 140°, which is optionally increased by deploying more cameras or

In another embodiment, the pre-processing unit further comprises removal of margin, rule-line, noise and skew correction.

In another embodiment, a cloud server wirelessly connected to the control unit through a communication module to receive and store the detected information in real

In another embodiment, the weights are calculated by taking character string transition data or the first symbol string transition data of pre-stored characters and sym

An object of the present disclosure is to perform character recognition from a scene image with high accuracy and at high speed.

Another object of the present disclosure is to guide and alert riders about road safety precautions.

Yet another object of the present invention is to deliver an expeditious and cost-effective character and symbol recognition system for vehicle safety.

To further clarify advantages and features of the present disclosure, a more particular description of the invention will be rendered by reference to specific embodime drawings. It is appreciated that these drawings depict only typical embodiments of the invention and are therefore not to be considered limiting of its scope. The inve additional specificity and detail with the accompanying drawings.

BRIEF DESCRIPTION OF FIGURES

These and other features, aspects, and advantages of the present disclosure will become better understood when the following detailed description is read with refer characters represent like parts throughout the drawings, wherein:

FIG. 1 illustrates a block diagram of a character and symbol recognition system for vehicle safety in accordance with an embodiment of the present disclosure.

Further, skilled artisans will appreciate that elements in the drawings are illustrated for simplicity and may not have necessarily been drawn to scale. For example, th most prominent steps involved to help to improve understanding of aspects of the present disclosure. Furthermore, in terms of the construction of the device, one or represented in the drawings by conventional symbols, and the drawings may show only those specific details that are pertinent to understanding the embodiments of drawings with details that will be readily apparent to those of ordinary skill in the art having benefit of the description herein.

DETAILED DESCRIPTION

For the purpose of promoting an understanding of the principles of the invention, reference will now be made to the embodiment illustrated in the drawings and spec will nevertheless be understood that no limitation of the scope of the invention is thereby intended, such alterations and further modifications in the illustrated system the invention as illustrated therein being contemplated as would normally occur to one skilled in the art to which the invention relates.

It will be understood by those skilled in the art that the foregoing general description and the following detailed description are exemplary and explanatory of the inve thereof.

Reference throughout this specification to "an aspect", "another aspect" or similar language means that a particular feature, structure, or characteristic described in c least one embodiment of the present disclosure. Thus, appearances of the phrase "in an embodiment", "in another embodiment" and similar language throughout thi refer to the same embodiment.

The terms "comprises", "comprising", or any other variations thereof, are intended to cover a non-exclusive inclusion, such that a process or method that comprises a but may include other steps not expressly listed or inherent to such process or method. Similarly, one or more devices or sub-systems or elements or structures or c not, without more constraints, preclude the existence of other devices or other sub-systems or other elements or other structures or other components or additional d elements or additional structures or additional components.

Unless otherwise defined, all technical and scientific terms used herein have the same meaning as commonly understood by one of ordinary skill in the art to which t examples provided herein are illustrative only and not intended to be limiting.

Embodiments of the present disclosure will be described below in detail with reference to the accompanying drawings.

Referring to FIG. 1, a block diagram of a character and symbol recognition system for vehicle safety is illustrated in accordance with an embodiment of the present d body **102** having a photographic camera **104** installed on a top/front side of a vehicle to capture real time image of one of sheet or poster comprising of printed and h detachable body **102** can be attached with any of the vehicles including two-wheelers, four-wheelers or big trucks etc.

In an embodiment, an input unit **106** is connected to the photographic camera **104** to acquire the real time captured image.

In an embodiment, a pre-processing unit **108** is connected to the input unit **106** to detect a character and symbol region from the real time captured image. The pre-p operation selected from the group consisting of slant correction, binarization, vertical filling inside each connected components and removing isolated blonks.

In an embodiment, a classification unit **110** is equipped with at least two channel neural network based on CNN (Convolutional Neural Network) and LSTM (Long- an character and symbol region on a character-by-character basis and recognize the characters and symbols on character-by-character basis in separated regions and symbol recognition result candidates for each character and symbol.

In an embodiment, a central processing unit **112** is coupled to the classification unit **110** to receive the candidates and calculate weights for transitions to the candida string transition data or a first symbol string transition data based on a set of the candidates and the weights, wherein consecutively perform state transitions based o first symbol string transition data and collect the weights in each state transition to calculate a cumulative weight for each state transition for generating one or more cumulative weight.

In an embodiment, a control unit **114** is connected to the central processing unit **112** to receive the generated one or more state transition results signal to detect one and symbols thereby display the detected information on a display unit **116** and play the detected information on a speaker **118** to alert a rider.

In an exemplary embodiment, the alert may include cautions about a sharp left turn, cautions the driver about a narrow road, indicates the driver about a narrow brid pedestrians should cross the road and the like.

In another embodiment, the weights are revised on each of the candidates character size.

In another embodiment, the generated first character string transition data and first symbol string transition data comprises a first epsilon transition from an initial stat the candidate, a second epsilon transition from the candidate to a final state of the character and symbol string transition, and a third epsilon transition for skipping th

In another embodiment, the separation of the character and symbol region is performed on at least two step upon deploying the at least two channel neural network.

In another embodiment, the output of both of the at least two channel neural network is compared and in case of any difference the separation of the character and s

In another embodiment, the detected information is displayed and played to alert the rider about the instructions provided for the riders on the bank of the road to avo

In another embodiment, the field of view of the photographic camera **104** preferably ranges from 80° to 140°, which is optionally increased by deploying more camer.

In another embodiment, the pre-processing unit **108** further comprises removal of margin, rule-line, noise and skew correction.

In another embodiment, a cloud server **122** wirelessly connected to the control unit **114** through a communication module **120** to receive and store the detected infor and audio.

In another embodiment, the weights are calculated by taking character string transition data or the first symbol string transition data of pre-stored characters and sym

The drawings and the foregoing description give examples of embodiments. Those skilled in the art will appreciate that one or more of the described elements may w Alternatively, certain elements may be split into multiple functional elements. Elements from one embodiment may be added to another embodiment. For example, o changed and are not limited to the manner described herein. Moreover, the actions of any flow diagram need not be implemented in the order shown; nor do all of th those acts that are not dependent on other acts may be performed in parallel with the other acts. The scope of embodiments is by no means limited by these specific explicitly given in the specification or not, such as differences in structure, dimension, and use of material, are possible. The scope of embodiments is at least as bro.

Benefits, other advantages, and solutions to problems have been described above with regard to specific embodiments. However, the benefits, advantages, solution cause any benefit, advantage, or solution to occur or become more pronounced are not to be construed as a critical, required, or essential feature or component of a

Previous Patent: IMAGE PROCESSING SYSTEM, IMAGE PROCESSING METHOD, AND STORAGE MEDIUM

Next Patent: DATA HIDING FOR SPOT COLORS ON SUBSTRATES

CHARACTER AND SYMBOL RECOGNITION SYSTEM FOR VEHICLE SAFETY

Jun 28, 2022

The character and symbol recognition system comprises a detachable body having a photographic camera to capture real time image of one of sheet or poster comprising of printed and handwritten characters and symbols; an input unit to acquire the real time captured image; a pre-processing unit to detect a character and symbol region; a classification

unit equipped with at least two channel neural network based on CNN and LSTM to separate the character and symbol region; a central processing unit to calculate weights for transitions to the candidates thereby generate one of a first character or first symbol string transition data based on a set of the candidates and the weights; and a control unit to detect one or both of the printed and handwritten characters and symbols thereby display the detected information on a display unit and play the detected information on a speaker to alert a rider.

Skip to: Description · Claims · Patent History · Patent History

Description

FIELD OF THE INVENTION

The present disclosure relates to digital character recognition, in more details, a character and symbol recognition system for vehicle safety.

BACKGROUND OF THE INVENTION

In spite of the prevalence of technological media in today's world, a significant quantity of written communications, such as books, bank checks, contracts, and so on, is still done on paper. The automation of information extraction, classification, search, and retrieval of documents is becoming increasingly popular.

One of the first and most effective uses of pattern recognition was the recognition of printed characters using computers. For more than three decades, researchers have been

working on optical character recognition (OCR). Hundreds of thousands of ways have been developed to deal with the recognition of machine-printed and handwritten characters in various scripts. The problem can be regarded solved for machine-printed Latin characters, at least when the degree of noise is modest. In cases where quality imagery is available, machine-printed character recognition rates often surpass 9%.

However, dealing with handwritten letters and sentences is tough, especially when the visuals are chaotic. Handwriting identification is tough due to the fact that there are as many different handwriting styles as there are persons. In fact, it's usually assumed that each person's handwriting is unique to them. Handwriting Identification is a forensic science subject that studies the identification or verification of the writer of a particular handwritten document. It is founded on the idea that no two people's handwritings are identical. This means that a handwritten character/word might assume an excessive number of different shapes, making identification difficult even for humans. In the view of the forgoing discussion, it is clearly portrayed that there is a need to have a character and symbol recognition system for vehicle safety.

SUMMARY OF THE INVENTION

The present disclosure seeks to provide a character and symbol recognition system for guiding and alerting riders about road safety precautions.

In an embodiment, a character and symbol recognition system for vehicle safety is disclosed. The system includes a detachable body having a photographic camera installed on a top/front side of a vehicle to capture real time image of one of sheet or poster comprising of printed and handwritten characters and symbols. The system further includes an input unit connected to the photographic camera to acquire the real time captured image. The system further includes a pre-processing unit to detect a character and symbol region from the real time captured image. The system further includes a classification unit equipped with at least two channel neural network based on CNN (Convolutional Neural Network) and LSTM (Long- and Short-Term Memory Network) to separate the character and symbol region on a character-by-character basis and recognize the characters and symbols on character-by-character basis in separated regions and generate one or more character recognition and symbol recognition result candidates for each character and symbol. The system further includes a central processing unit coupled to the classification unit to receive the candidates and calculate weights for transitions to the candidates thereby generate one of a first character string transition data or a first symbol string transition data based on a set of the candidates and the weights, wherein

consecutively perform state transitions based one of the first character string transition data or first symbol string transition data and collect the weights in each state transition to calculate a cumulative weight for each state transition for generating one or more state transition results signal based on the cumulative weight. The system further includes a control unit to receive the generated one or more state transition results signal to detect one or both of the printed and handwritten characters and symbols thereby display the detected information on a display unit and play the detected information on a speaker to alert a rider.

In another embodiment, the weights are revised on each of the candidates character size.

In another embodiment, the generated first character string transition data and first symbol string transition data comprises a first epsilon transition from an initial state of a character and symbol string transition to the candidate, a second epsilon transition from the candidate to a final state of the character and symbol string transition, and a third epsilon transition for skipping the candidate on a character-by-character basis.

In another embodiment, the separation of the character and symbol region is performed on at least two step upon deploying the at least two channel neural network based on CNN and LSTM to avoid any error.

In another embodiment, the output of both of the at least two channel neural network is compared and in case of any difference the separation of the character and symbol region is repeated to eliminate the error.

In another embodiment, the detected information is displayed and played to alert the rider about the instructions provided for the riders on the bank of the road to avoid accidents.

In another embodiment, the field of view of the photographic camera preferably ranges from 80° to 140°, which is optionally increased by deploying more cameras or camera with higher field of view.

In another embodiment, the pre-processing unit further comprises removal of margin, rule-line, noise and skew correction.

In another embodiment, a cloud server wirelessly connected to the control unit through a communication module to receive and store the detected information in multiple formats including images, text, and audio.

In another embodiment, the weights are calculated by taking character string transition data or the first symbol string transition data of pre-stored characters and symbols registered in a language database.

An object of the present disclosure is to perform character recognition from a scene image with high accuracy and at high speed.

Another object of the present disclosure is to guide and alert riders about road safety precautions.

Yet another object of the present invention is to deliver an expeditious and cost-effective character and symbol recognition system for vehicle safety.

To further clarify advantages and features of the present disclosure, a more particular description of the invention will be rendered by reference to specific embodiments thereof, which is illustrated in the appended drawings. It is appreciated that these drawings depict only typical embodiments of the invention and are therefore not to be considered limiting of its scope. The invention will be described and explained with additional specificity and detail with the accompanying drawings.

BRIEF DESCRIPTION OF FIGURES

These and other features, aspects, and advantages of the present disclosure will become better understood when the following detailed description is read with reference to the accompanying drawings in which like characters represent like parts throughout the drawings, wherein:

FIG. 1 illustrates a block diagram of a character and symbol recognition system for vehicle safety in accordance with an embodiment of the present disclosure.

Further, skilled artisans will appreciate that elements in the drawings are illustrated for simplicity and may not have necessarily been drawn to scale. For example, the flow charts illustrate the method in terms of the most prominent steps involved to help to improve understanding of aspects of the present disclosure. Furthermore, in terms of the construction of the device, one or more components of the device may have been represented in the drawings by conventional symbols, and the drawings may show only those specific details that are pertinent to understanding the embodiments of the present disclosure so as not to obscure the drawings with details that will be readily apparent to those of ordinary skill in the art having benefit of the description herein.

DETAILED DESCRIPTION

For the purpose of promoting an understanding of the principles of the invention, reference will now be made to the embodiment illustrated in the drawings and specific language will be used to describe the same. It will nevertheless be understood that no limitation of the scope of the invention is thereby intended, such alterations and further modifications in the illustrated system, and such further applications of the principles of the invention as illustrated therein being contemplated as would normally occur to one skilled in the art to which the invention relates.

It will be understood by those skilled in the art that the foregoing general description and the following detailed description are exemplary and explanatory of the invention and are not intended to be restrictive thereof.

Reference throughout this specification to "an aspect", "another aspect" or similar language means that a particular feature, structure, or characteristic described in connection with the embodiment is included in at least one embodiment of the present disclosure. Thus, appearances of the phrase "in an embodiment", "in another embodiment" and similar language throughout this specification may, but do not necessarily, all refer to the same embodiment.

The terms "comprises", "comprising", or any other variations thereof, are intended to cover a non-exclusive inclusion, such that a process or method that comprises a list of steps docs not include only those steps but may include other steps not expressly listed or inherent to such process or method. Similarly, one or more devices or sub-systems or elements or structures or components proceeded by "comprises . . . a" does not, without more constraints, preclude the existence of other devices or other sub-systems or other elements or other structures or other components or additional devices or additional sub-systems or additional elements or additional structures or additional components.

Unless otherwise defined, all technical and scientific terms used herein have the same meaning as commonly understood by one of ordinary skill in the art to which this invention belongs. The system, methods, and examples provided herein are illustrative only and not intended to be limiting.

Embodiments of the present disclosure will be described below in detail with reference to the accompanying drawings.

Referring to FIG. 1, a block diagram of a character and symbol recognition system for vehicle safety is illustrated in accordance with an embodiment of the present disclosure.

The system **100** includes a detachable body **102** having a photographic camera **104** installed on a top/front side of a vehicle to capture real time image of one of sheet or poster comprising of printed and handwritten characters and symbols. The detachable body **102** can be attached with any of the vehicles including two-wheelers, four-wheelers or big trucks etc.

In an embodiment, an input unit **106** is connected to the photographic camera **104** to acquire the real time captured image.

In an embodiment, a pre-processing unit **108** is connected to the input unit **106** to detect a character and symbol region from the real time captured image. The pre-processing unit **108** further includes at least one operation selected from the group consisting of slant correction, binarization, vertical filling inside each connected components and removing isolated blocks.

In an embodiment, a classification unit **110** is equipped with at least two channel neural network based on CNN (Convolutional Neural Network) and LSTM (Long- and Short-Term Memory Network) to separate the character and symbol region on a character-by-character basis and recognize the characters and symbols on character-by-character basis in separated regions and generate one or more character recognition and symbol recognition result candidates for each character and symbol.

In an embodiment, a central processing unit **112** is coupled to the classification unit **110** to receive the candidates and calculate weights for transitions to the candidates thereby generate one of a first character string transition data or a first symbol string transition data based on a set of the candidates and the weights, wherein consecutively perform state transitions based one of the first character string transition data or first symbol string transition data and collect the weights in each state transition to calculate a cumulative weight for each state transition for generating one or more state transition results signal based on the cumulative weight.

In an embodiment, a control unit **114** is connected to the central processing unit **112** to receive the generated one or more state transition results signal to detect one or both of the printed and handwritten characters and symbols thereby display the detected information on a display unit **116** and play the detected information on a speaker **118** to alert a rider.

In an exemplary embodiment, the alert may include cautions about a sharp left turn, cautions the driver about a narrow road, indicates the driver about a narrow bridge on the road ahead, a sign indicates that pedestrians should cross the road and the like.

In another embodiment, the weights are revised on each of the candidates character size.

In another embodiment, the generated first character string transition data and first symbol string transition data comprises a first epsilon transition from an initial state of a character and symbol string transition to the candidate, a second epsilon transition from the candidate to a final state of the character and symbol string transition, and a third epsilon transition for skipping the candidate on a character-by-character basis.

In another embodiment, the separation of the character and symbol region is performed on at least two step upon deploying the at least two channel neural network based on CNN and LSTM to avoid any error.

In another embodiment, the output of both of the at least two channel neural network is compared and in case of any difference the separation of the character and symbol region is repeated to eliminate the error.

In another embodiment, the detected information is displayed and played to alert the rider about the instructions provided for the riders on the bank of the road to avoid accidents.

In another embodiment, the field of view of the photographic camera **104** preferably ranges from 80° to 140°, which is optionally increased by deploying more cameras or camera with higher field of view.

In another embodiment, the pre-processing unit **108** further comprises removal of margin, rule-line, noise and skew correction.

In another embodiment, a cloud server **122** wirelessly connected to the control unit **114** through a communication module **120** to receive and store the detected information in multiple formats including images, text, and audio.

In another embodiment, the weights are calculated by taking character string transition data or the first symbol string transition data of pre-stored characters and symbols registered in a language database.

The drawings and the forgoing description give examples of embodiments. Those skilled in the art will appreciate that one or more of the described elements may well be combined into a single functional element. Alternatively, certain elements may be split into multiple functional elements. Elements from one embodiment may be added to another embodiment. For example, orders of processes described herein may be changed and are not limited to the manner described herein. Moreover, the actions of any flow diagram

need not be implemented in the order shown; nor do all of the acts necessarily need to be performed. Also, those acts that are not dependent on other acts may be performed in parallel with the other acts. The scope of embodiments is by no means limited by these specific examples. Numerous variations, whether explicitly given in the specification or not, such as differences in structure, dimension, and use of material, are possible. The scope of embodiments is at least as broad as given by the following claims.

Benefits, other advantages, and solutions to problems have been described above with regard to specific embodiments. However, the benefits, advantages, solutions to problems, and any component(s) that may cause any benefit, advantage, or solution to occur or become more pronounced are not to be construed as a critical, required, or essential feature or component of any or all the claims.

Claims

1. A character and symbol recognition system for vehicle safety, the system comprises:

a detachable body having a photographic camera installed on a top/front side of a vehicle to capture real time image of one of sheet or poster comprising of printed and handwritten characters and symbols;

an input unit connected to the photographic camera to acquire the real time captured image;

a pre-processing unit to detect a character and symbol region from the real time captured image;

a classification unit equipped with at least two channel neural network based on CNN (Convolutional Neural Network) and LSTM (Long- and Short-Term Memory Network) to separate the character and symbol region on a character-by-character basis and recognize the characters and symbols on character-by-character basis in separated regions and generate one or more character recognition and symbol recognition result candidates for each character and symbol;

a central processing unit coupled to the classification unit to receive the candidates and calculate weights for transitions to the candidates thereby generate one of a first character string transition data or a first symbol string transition data based on a set of the candidates and the weights, wherein consecutively perform state transitions based one of the first character string transition data or first symbol string transition

data and collect the weights in each state transition to calculate a cumulative weight for each state transition for generating one or more state transition results signal based on the cumulative weight; and

a control unit to receive the generated one or more state transition results signal to detect one or both of the printed and handwritten characters and symbols thereby display the detected information on a display unit and play the detected information on a speaker to alert a rider.

2. The system of claim 1, wherein the weights are revised on each of the candidates character size.

3. The system of claim 1, wherein the generated first character string transition data and first symbol string transition data comprises a first epsilon transition from an initial state of a character and symbol string transition to the candidate, a second epsilon transition from the candidate to a final state of the character and symbol string transition, and a third epsilon transition for skipping the candidate on a character-by-character basis.

4. The system of claim 1, wherein the separation of the character and symbol region is performed on at least two step upon deploying the at least two channel neural network based on CNN and LSTM to avoid any error.

5. The system of claim 1, wherein the output of both of the at least two channel neural network is compared and in case of any difference the separation of the character and symbol region is repeated to eliminate the error.

6. The system of claim 1, wherein the detected information is displayed and played to alert the rider about the instructions provided for the riders on the bank of the road to avoid accidents.

7. The system of claim 1, wherein the field of view of the photographic camera preferably ranges from 80° to 140°, which is optionally increased by deploying more cameras or camera with higher field of view.

8. The system of claim 1, wherein the pre-processing unit further comprises removal of margin, rule-line, noise and skew correction.

9. The system of claim 1, wherein a cloud server wirelessly connected to the control unit through a communication module to receive and store the detected information in multiple formats including images, text, and audio.

10. The system of claim 1, wherein the weights are calculated by taking character string transition data or the first symbol string transition data of pre-stored characters and symbols registered in a language database.

Patent History

Publication number: 20220335739
Type: Application
Filed: Jun 28, 2022
Publication Date: Oct 20, 2022
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Application Number: 17/809,443

Classifications

International Classification: G06V 30/148 (20060101); G06V 20/62 (20060101); G06V 20/56 (20060101); G06V 10/82 (20060101); B60R 11/04 (20060101);

PATENT REGISTER SHEET

REPUBLIC OF SOUTH AFRICA | REGISTER OF PATENTS | PATENTS ACT, 1978

Official application No.	Lodging date: Provisional	Acceptance date
21 01 **2022/07879**	22	47 2022/09/16
International classification	Lodging date: Complete	Granted date
51 C05F	23 2022/07/15	2022/09/28

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Priority claimed:	Country	Number	Date

54 Title of invention

A NOVEL SYSTEM FOR WIND-POWERED IOT BASED SUSTAINABLE ORGANIC COMPOST MACHINE

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61 Patent of addition No.	Date of any change
Fresh application based on.	Date of any change

RENEWAL SHEET

Year	Payment Date	Receipt Number	Amount

HISTDRY SHEET

Date entry made	Description
2022-07-18	Request for the acceptance of a Patent electronically filed on 15/7/2022. numbered 2022/07879
2022-07-18	Proof reading performed automatically
2022-09-16	Application accepted on 16/09/2022.
2022-09-29	Patent advertised on 28-09-2022.
2022-09-29	Patent granted on 28-09-2022.

A NOVEL SYSTEM FOR WIND-POWERED IOT BASED SUSTAINABLE ORGANIC COMPOST MACHINE

FIELD OF INVENTION

The present invention relates to a field of organic farming more particularly, to a novel system for wind-powered IOT based sustainable organic compost machine

BACKGROUND OF THE INVENTION

In a developing economy where the strain on agriculture production is great due to a huge population, sustainable organic farming is an urgent necessity. Utilization of inorganic fertilizers rises in tandem with demand for agricultural productivity increasing the use of compost and artificial fertilizers, which deteriorates the soil fertility on the long run.

In recent years, the government and policymakers have put more emphasis on organic composting as a way to deal with waste. India makes about 1.5 million tonnes of solid waste every day, and the amount that can be broken down ranges from 30 to 70 percent in different cities. Compost has two uses: first, it develops fertiliser, and second, it manages waste to improve soil fertility. The biological and physico-chemical characteristics of the soil are improved by composting by using plants and organic waste that is rich in nutrient. In order to replenish the nutrient-depleted soil, wet waste plays a vital role in replacing chemical fertilizer.

In India, the Wind Power Development program was introduced in the final year of the Sixth Five Year Plan (1983–1984). Following that, the first wind energy facilities were built in Ratnagiri (Maharashtra), Okha (Gujarat), and Tuticorin (Tamil Nadu).With a total installed wind power capacity of 37,669 MW (February 2020), India has surpassed China to rank fourth in the world. With a capacity of 9231.77 MW as of the end of October 2019, Tamil Nadu is thought to be the highest producer, followed by Gujarat (7203.77 MW), Maharashtra (4794.13 MW), Karnataka (4753.4 MW), and Rajasthan (4753.4 MW) (4299.73 MW). The largest wind farms with more than 500MW of production include Brahmanvel Wind Farm

(528 MW) in Maharashtra, Jaisalmer Wind Park (1064 MW) in Rajasthan, and Muppandal Wind Farm (1500 MW) in Maharashtra (4794.13 MW), Karnataka (4753.4 MW) and Rajasthan (4299.73 MW). The major wind power plants with greater than 500MW production are Muppandal Wind Farm. Due to their physical position, northern states have no power generation whatsoever.

A variety of Alfa Therm Composting machines, including fully automated, semi-automated, and user-friendly machines, are offered. For the creation of compost, they use food scraps or other organic waste. Several hotels employ these devices for waste management and to make compost, which is utilized in gardens or organic farming.

A tractor-mounted compost aerator developed by Mr. Gurmail Singh Dhonsi. The Union Minister aided the innovation in 2011, and it also earned the competition's innovation prize in the sixth biennial competition that year. Under NIF's MVIF plan, the innovation is supported.

Excel Industries Private Limited, based in Mumbai, invented the Bioneer. Compost made from organic waste may now be made within only 24 hours thanks to an innovation. In-vessel composters, a pioneering, ground-breaking technology, are offered for sale.

The delivery of fertiliser in India operates on three levels which is categorizes as the Government agencies, the cooperative agencies, the private agencies. The cooperative societies and the state agricultural department sold chemical fertiliser up until the end of the first five-year plan. The government allowed licensed production facilities to sell 70% of the fertilisers on their own in the 1960s, with public agencies selling the other 30%.Input for agricultural production was promoted by the National Development Council in 1956. The National Development Council urged cooperative groups to provide the input for agriculture in 1956. In order to handle the fertiliser distribution route, cooperative societies received government support in the form of funding for the building of inventory buildings, staff management, and other costs.

To help different marketing cooperatives in the nation secure working money from the RBI, SBI, and commercial banks, Rs. 12.36 crores were given to them in the fourth five-year plan. In India most of this land is forest, but 1.8 million acres can be used for farming. But it is expected that the global market for organic fertilisers will grow at a CAGR of 9.1% from 2018 to 2023, when it will be worth USD 4,606.7 million.

Under the "National Mission for Sustainable Agriculture (NMSA)" Capital Investment Subsidy Scheme (CISS), the government is helping to make natural fertiliser from bio waste. State government offices can receive funding at a rate of up to one hundred ninety lakh rupees per unit under this plan, while individuals and private entities can receive funding at a rate of up to 63 lakh rupees per unit for capital projects. To be used instead of agro-waste compost or mechanical fruit harvesting, and funded by NABARD 3000 TPA production unit capacity. The usage of natural or bio compost is empowered by government through different plans. The government offers a variety of assistance programs that provide funding for the development of use of organic fertilisers such as National Project on Organic Farming, Paramparagat Krishi Vikas Yojana (PKVY), Mission for Integrated Development of Horticulture, National Project on Management of Soil Health and Fertility (NPMSHF) and Rashtriya Krishi Vikas Yojana (RKVY).

Composting organic materials can be done in a number of ways:

Indoor Composting: Indoor Composting takes lot of time for composting.

Windrow composting: Windrow a land demanding composting process and also need costly blower for process.

Vermi composting: Vermi composting, makes use of worm to produce a nutrient-rich organic fertiliser. Hence there is need to design a system for wind-powered IOT based sustainable organic compost machine.

OBJECTS OF THE INVENTION

Some of the objects of the present disclosure, which at least one embodiment herein satisfies, are as follows.

It is an object of the present disclosure to ameliorate one or more problems of the prior art or to at least provide a useful alternative

An object of the present disclosure is to provide novel system for wind-powered IOT based sustainable organic compost machine

Another object of the present disclosure is to provide novel system for wind-powered IOT based sustainable organic compost machine that will analyze the distribution of wind power across the states of India.

Still another object of the present to provide novel system for wind-powered IOT based sustainable organic compost machine that will estimate the growth of composting in India with regard to policy consequences.

Another object of the present disclosure is to provide novel system that will understand the mechanism for wind-powered IOT based sustainable organic compost machine.

Still another object of the present disclosure is to provide novel system for wind-powered IOT based sustainable organic compost machine for highlighting its benefits.

Other objects and advantages of the present disclosure will be more apparent from the following description, which is not intended to limit the scope of the present disclosure.

SUMMARY OF THE INVENTION

The following presents a simplified summary of the invention in order to provide a basic understanding of some aspects of the invention. This summary is not an extensive overview of the present invention. It is not intended to identify the key/critical elements of the invention or to delineate the scope of the invention. Its sole purpose is to present some concept of the invention in a simplified form as a

prelude to a more detailed description of the invention presented later.

The present invention is generally directed to provide novel system for wind-powered IOT based sustainable organic compost machine.

An embodiment of the present invention is to provide novel system for wind-powered IOT based sustainable organic compost machine. The system (100) comprises a controller unit, wind power unit, power supply unit and compost machine unit. A controller unit is connected with wind power. A mixer unit connected with DC motor used to mix browns and shredded garbage. The mixer unit is connected with converter unit through wind powered heater configured to eliminate moisture from compost. After converter unit the compost is allowed to cool for 6 to 8 days .Further an air discharger unit configured to repeatedly pump out gas from the organic waste. A power supply unit is connected with windmill configured to run DC motor, heating chamber, IoT integration, exhausts both in and out direction.

Another embodiment of the invention is to maintain the soil's nutrients and natural fertility by utilizing sustainable organic compost machine. Composting is a sustainable agriculture production process that keeps the soil's minerals and natural fertility intact while making use of organic matter. Composting employs nutrient-rich plant material and organic waste to improve soil structure and function on both a biological and a physical level. The land used for farming gains naturally from the ongoing practice of sustainable agriculture based on organic composition. Because of this, the soil's qualities have improved.

BRIEF DESCRIPTION OF THE DRAWINGS

Fig 1: illustrates novel system for wind-powered IOT based sustainable organic compost machine, in accordance with an embodiment of the present invention.

Fig 2: illustrates the BreezSlim SLM70 70 CFM Exhaust Fan, in accordance with an embodiment of the present invention.

DETAILED DESCRIPTION OF THE INVENTION

The following description is of exemplary embodiments only and is not intended to limit the scope, applicability or configuration of the invention in any way. Rather, the following description provides a convenient illustration for implementing exemplary embodiments of the invention. Various changes to the described embodiments may be made in the function and arrangement of the elements described without departing from the scope of the invention.

Fig 1: illustrates a novel system (100) for wind-powered IOT based sustainable organic compost machine, in accordance with an embodiment of the present invention. . The system (100) comprises a controller unit, wind powered unit, power supply unit and compost machine unit. A controller unit analyzes data from plurality of sensors installed on the wind power and adjusts its operation accordingly. The wind powered unit is connected with controller unit configure to generate electricity from wind. The wind powered unit is connected compost machine unit. A compost machine unit configures to do stirring operation on shredded trash and browns with the help of dc motor. A compost machine unit can be changed into a heating chamber (with a temperature of 70 degrees) by using a wind-powered heater. It can then remove any moisture from the compost in two days. The finished compost is then left to cool for 6 to 8 days. From 120 kilo units, it is possible to make 70 kilos of ready-to-use compost. This cost-effective machine will be as good as any other compost machine on the market.

Fig 2: illustrates the BreezSlim SLM70 70 CFM Exhaust Fan, in accordance with an embodiment of the present invention. BreezSlim SLM70 70 CFM exhaust fan is used to pump out the gas that is constantly being made by organic compost. Windmill generates alternate current, which is changed to direct current (DC) by a battery and an inverter. This allows a DC motor, heating chamber, IoT integration, and exhaust to go both in and out.

In accordance with an embodiment of the present invention, the system (100) includes:

Increase Agricultural Productivity: Organic farming with the use of organic waste can be a big part of India's plan to raise its per capita income.

Increase in Farm Income: The organic compost machine would reduce and reuse biodegradable farm waste. It would also increase farm productivity by lowering the marginal cost of farm products and boosting farm income by lowering farmers' debt.

Reduction in Carbon Emission: Implementing an organic composting machine would help green farming and improve soil and land fertility while limiting the use of chemical fertilisers. If the soil's fertility and health got much better, greenhouse gas emissions would go down and the water table would get higher. This would lead to sustainable growth in agriculture.

Cost-Efficient and Technologically Integrated Organic Compost Machine: Organic Compost Machines can help make farming more sustainable. So, the innovative product has a huge market potential and can give its customers something they can't get anywhere else.

Agriculture practices that are resilient and sustainable are the only way to keep the ecosystem from being upset and to keep growth and prices stable in the economy and world market. Soil fertility goes up when organic fertilisers are used. The fertility of the soil increases the amount of food that can be grown on a farm. This leads to more money for the farmers and less debt. So, there is a huge market for the product.

The system being developed is one that is efficient with respect to cost.

The organic nutrients added to the soil by composting boost crop yields.

The compost will be marketed and sold in areas with a high potential for the use of wind power.

Farmers are the primary target market, thus the compost will be sold either directly to farmers or through agricultural supply retailers in the area.

Initial product promotion will center on giving away free samples.

Farmers' continued feedback on the product's efficacy is essential to its

development.

Websites showcasing the product's use and benefits to customers will be used for marketing purposes.

While considerable emphasis has been placed herein on the specific features of the preferred embodiment, it will be appreciated that many additional features can be added and that many changes can be made in the preferred embodiment without departing from the principles of the disclosure. These and other changes in the preferred embodiment of the disclosure will be apparent to those skilled in the art from the disclosure herein, whereby it is to be distinctly understood that the foregoing descriptive matter is to be interpreted merely as illustrative of the disclosure and not as a limitation.

CLAIMS:

1. A system (100) for wind-powered IOT based sustainable organic compost machine comprising:

   a controller unit connected with wind powered unit configured to analyze data from plurality of sensors;

   an organic compost machine unit connected with a wind powered unit comprising :a mixer unit connected with DC motor configured to mix browns and shredded garbage; a converter unit connected with wind powered heater configured to eliminate moisture from compost; an air discharger unit configured to repeatedly pump out gas made of organic waste;

   a power supply unit connected with windmill configured to run DC motor, heating chamber, IoT integration, exhausts both in and out direction.

2. The system (100) as claimed in claim 1, wherein kilos of compost can be prepared from biodegradable waste; therefore, the compost is allowed to cool for some days.
3. The system (100) as claimed in claim 1, wherein BreezSlim SLM70 70 CFM exhaust fan is used for air discharging.
4. The system (100) as claimed in claim 1, wherein the productivity of the system (100) increases within 8 to 10 days of process and it is efficient method in terms of cost.

Signed on this 15th day of JULY 2022

Leon Pierre Susan

Patent attorney for the applicant

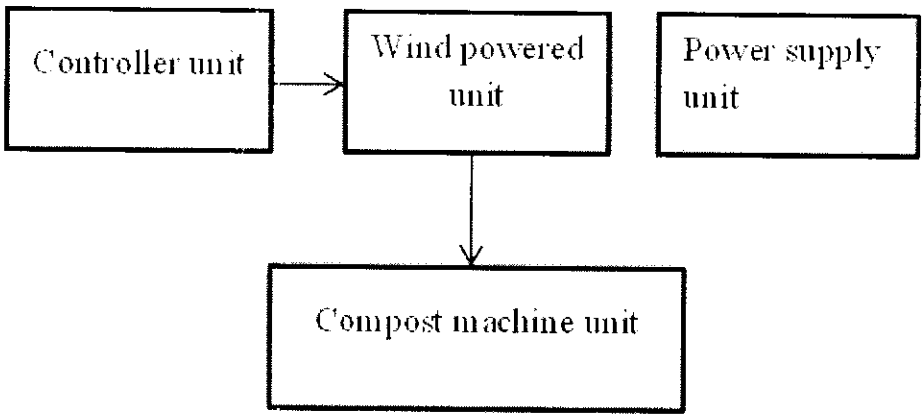

Figure 1

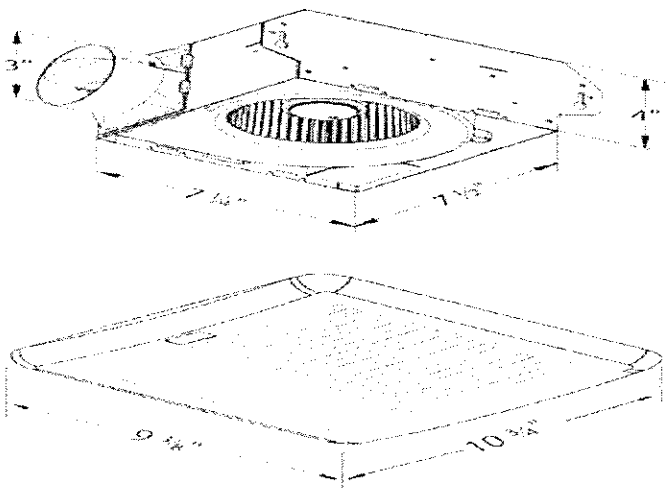

Figure 2

Leon Pierre Susan
Patent attorney for the applicant(s)

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :26/08/2022

(21) Application No.202211048797 A
(43) Publication Date : 02/09/2022

(54) Title of the invention : A MULTI-LAYER NEURAL NETWORK BASED SYSTEM FOR VEHICLE-TO EVERYTHING COMMUNICATION IN 5G NETWORK

(51) International classification	:H04W0004400000, H04W0084000000, H04W0072040000, H04W0084220000, H04W0040040000
(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

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(57) Abstract :
The present invention discloses a multi-layer neural network-based system for vehicle-to-everything communication in 5G network. The plurality of means for connecting vehicles to the Internet through a multi-technology network device, a mobile router that is able to form a mesh network of vehicles connected to the infrastructure; wherein the vehicles connect between themselves to perform Wireless Access in Vehicular Environments through cellular or wireless connections. Further, a multi-layer neural network (MLNN)-based Resource Allocation and sharing approach for device to device-based Vehicle-to-everything communications is provided. In addition, the numerical analysis is presented to approve the effectiveness of our proposed solution in terms of network sum rate, packet reception ratio, resource utilization ratio, and time complexity.

No. of Pages : 20 No. of Claims : 9

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Government of India

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Application Details

APPLICATION NUMBER	202211048797
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	26/08/2022
APPLICANT NAME	1 . Dr. Sanjay Gour 2 . Ms. Rekha Kushwaha 3 . Ms. Bhawna Kalra 4 . Dr. Jaivardhan 5 . Ms. Jeba Nega Chelta 6 . Mr. Chetan Mali
TITLE OF INVENTION	"A MULTI-LAYER NEURAL NETWORK BASED SYSTEM FOR VEHICLE-TO EVERYTHING COMMUNICATION IN SG NETWORK"
FIELD OF INVENTION	ELECTRONICS
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	02/09/2022

Application Status

APPLICATION STATUS

Awaiting Request for Examination

View Documents

➡ Filed ➡ Published ➡ RQ Filed ➡ Under Examination ➡ Disposed

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Australian Government

IP Australia

CERTIFICATE OF GRANT

INNOVATION PATENT

Patent number: 2021105181

The Commissioner of Patents has granted the above patent on 20 April 2022, and certifies that the below particulars have been registered in the Register of Patents.

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Title of invention:

INTELLIGENT SYSTEM & METHOD FOR HOME SURVEILLANCE WITH WARNING OF ROBBER ACTIVITIES USING IOT & ARTIFICIAL INTELLIGENCE APPROACH

Name of inventor(s):

Dated this 20th day of April 2022

Commissioner of Patents

Australian Government

IP Australia

CERTIFICATE OF GRANT

INNOVATION PATENT

Patent number: 2021105181

Indra, Gaurav; Sinha, Divyanshu; M., Parvathy; M., Ravinder; Mekala, Sreenivas; Dadheech, Pankaj; Dubey, Arun Kumar; Agarwal, Anurag; Singh, Neetu; Mishra, Rashmi; Kumar, K. Vetrivel; Nagajothi, V.; G., Pavithra and Manjunath, T. C.

Term of Patent:

Eight years from 9 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.

Dated this 20th day of April 2022

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Government of India

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Application Details

APPLICATION NUMBER	202111028832
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	27/06/2021
APPLICANT NAME	1 . Dr.Anurag Aeron 2 . Mr.Vijaykumar R.Urkude 3 . Dr.Venna Kusuma Kumari 4 . Dr.Shubhi Jain 5 . Mr.Sandeep Srivastava 6 . Mr. K.T.P.S Kumar 7 . Dr.Sushma Jaiswal 8 . Mr.Tarun Jaiswal 9 . Dr.Rabinarayan Satpathy 10 . Dr.Gouse Baig Mohammad
TITLE OF INVENTION	IMAGE CONTRAST ENHANCEMENT SYSTEM WITH FUZZY BASED THRESHOLD HISTOGRAM EQUALIZATION
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	03mrmanoj2@gmail.com
ADDITIONAL-EMAIL (As Per Record)	03mrmanoj2@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	23/07/2021

Application Status

Australian Government

IP Australia

CERTIFICATE OF GRANT
INNOVATION PATENT

Patent number: 2021105548

The Commissioner of Patents has granted the above patent on 3 November 2021, and certifies that the below particulars have been registered in the Register of Patents.

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Title of invention:

Multi Agent Systems for Intelligent bidding price selection for profit accumulation.

Name of inventor(s):

Jain, Pooja; Saxena, Akash; Sharma, Ankit; Soni, Bhanu and Shekhawat, Shalini

Term of Patent:

Eight years from 15 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.

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Dated this 3rd day of November 2021

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CERTIFICATE OF GRANT

INNOVATION PATENT

Patent number: 2021101516

The Commissioner of Patents has granted the above patent on 19 May 2021, and certifies that the below particulars have been registered in the Register of Patents.

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Title of invention:

A SYSTEM FOR MOVEMENT OF AUTONOMOUS VEHICLE AND A METHOD THEREOF

Name of inventor(s):

Rana, Arun Kumar; Karelia, Nirav; Naruka, Tarun; Pal, Vipin Chandra; Ganguli, Souvik and Sohane, Anurag

Term of Patent:

Eight years from 25 March 2021

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CERTIFICATE OF GRANT

INNOVATION PATENT

Patent number: 2021100596

The Commissioner of Patents has granted the above patent on 31 March 2021, and certifies that the below particulars have been registered in the Register of Patents.

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Title of invention:

INTELLIGENT ROBOTIC SYSTEM TO AUTOMATE SWAB TEST TO DETECT COVID-19 DISEASE

Name of inventor(s):

Sharma, A. K.; Upreti, Kamal; Srivastava, Sanjay; Vargis, Binu Kuriakose; Singh, Jaspreet; Choudhary, Pooja; Kumar, Nishant; Jain, Praveen Kumar; Jain, Rituraj and Pandey, Bipin

Term of Patent:

Eight years from 30 January 2021

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CERTIFICATE OF GRANT

INNOVATION PATENT

Patent number: 2021100560

The Commissioner of Patents has granted the above patent on 31 March 2021, and certifies that the below particulars have been registered in the Register of Patents.

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Title of invention:

SMART WIRELESS CHARGING SYSTEM FOR IOT DEVICES IN HOME AUTOMATION

Name of inventor(s):

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Term of Patent:

Eight years from 28 January 2021

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COMMONWEALTH OF AUSTRALIA AUSTRALIA PATENT OFFICE

Dated this 31st day of March 2021

Commissioner of Patents

PATENTS ACT 1990

Australian Government

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CERTIFICATE OF GRANT
INNOVATION PATENT

Patent number: 2021100736

The Commissioner of Patents has granted the above patent on 7 April 2021, and certifies that the below particulars have been registered in the Register of Patents.

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Title of invention:

DEVELOPMENT OF SMART POWERING TECHNIQUE USING AI BASED SOLAR TRACKING SYSTEM

Name of inventor(s):

Durachman, Yusuf; Binoj, J. S.; Deshmukh, Radhika Gautamkumar; Totewad, Narayan Dattatraya; Agarwal, Ankit; Choudhary, Pooja; Jain, Praveen Kumar; Singh, Satendra; Isankar, Ram D. and Waghmare, Siddharth Anandrao

Term of Patent:

Eight years from 5 February 2021

COMMONWEALTH OF AUSTRALIA AUSTRALIA PATENT OFFICE

Dated this 7th day of April 2021

Commissioner of Patents

PATENTS ACT 1990

Australian Government

IP Australia

CERTIFICATE OF GRANT

INNOVATION PATENT

Patent number: 2021100736

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.

Dated this 7th day of April 2021

Commissioner of Patents

PATENTS ACT 1990

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Ministry of Commerce & Industry,
Government of India

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INTELLECTUAL PROPERTY INDIA (http://ipindia.nic.in/index.htm)

Application Details

APPLICATION NUMBER	202141018245
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	20/04/2021
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TITLE OF INVENTION	MACHINE LEARNING BASED BREAST CANCER DETECTION BY NEURO FUZZY LOGIC
FIELD OF INVENTION	COMPUTER SCIENCE
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	20/04/2021
PUBLICATION DATE (U/S 11A)	30/04/2021

Australian Government

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CERTIFICATE OF GRANT
INNOVATION PATENT

Patent number: 2021104782

The Commissioner of Patents has granted the above patent on 22 September 2021, and certifies that the below particulars have been registered in the Register of Patents.

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Title of invention:

Internet of Things (IoT) sensors-based system for child monitoring & method thereof

Name of inventor(s):

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Term of Patent:

Eight years from 1 August 2021

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COMMONWEALTH OF AUSTRALIA AUSTRALIA PATENT OFFICE

Dated this 22nd day of September 2021

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CERTIFICATE OF GRANT

INNOVATION PATENT

Patent number: 2021100287

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Title of invention:

AN IOT BASED TYRE PRESSURE AND TEMPERATURE MONITORING SYSTEM

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Term of Patent:

Eight years from 17 January 2021

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Dated this 31st day of March 2021

Commissioner of Patents

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/07/2021

(21) Application No.202141032077 A
(43) Publication Date : 13/08/2021

(54) Title of the invention : BIGDATA FOR SECURE EMAIL SPAM FILTERING

(51) International classification	:H04L0012580000, G06Q0010100000, G06F0021560000, A01K0067027000, G06Q0050100000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:PCT// :01/01/1900
(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

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(57) Abstract :
ABSTRACT BIGDATA FOR SECURE EMAIL SPAM FILTERING Spam has developed the basis of verdict exploited by digital crooks to extent malign payloads such as Trojan infections. Combined spam location technique can able to achieve vast choice of email data backed by diversified agents and particularly with remarkable dispute of needing confession content of email. Distance-saving messes are the primary activities exploited for shielding the email security while vesting message description for detecting spam. In this regard, Spamdoop is a vital Big data security protection mutual spam identification tool adapted on chief of a regular map reducing facility. Spam has developed the basis of result exploited by using digital crooks to extent malign payloads like Trojans. Spam discovery stratergies releated to the community can accomplish vast choice of email data donated by diverse bases and they have the prominent concern of demanding email contact and the spam directs are blocked and notable issues also the mass emails are eminent and stalled right away.

No. of Pages : 21 No. of Claims : 9

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Application Details

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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	13/08/2021

Application Status

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/09/2021

(21) Application No.202141039583 A
(43) Publication Date : 10/09/2021

(54) Title of the invention : IOT BASED AUTOMATED SYSTEM FOR FREEWAY FRAMEWORK 3

(51) International classification :H04L0029080000, B01D0046240000, G06Q0050260000, G06Q0050100000, G05B0019040000
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(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

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(57) Abstract :
ABSTRACT IOT BASED AUTOMATED SYSTEM FOR FREEWAY FRAMEWORK 3 Internet of Things (IoT) is by and large the organization of 'things' through which actual things can empower to communicate information with the help of hardware, sensors, programming and network. Additionally, These IoT doesn't needed any human interface. IoT Technology is broadly applied in enormous businesses including Energy, medical services and all the more significantly Transportation areas. In this undertaking, the information of the RFID card is shipped off the site, through IOT. The use of IoT cost collection structure in various metropolitan regions would be a compelling development towards the blockage of the city avenues in profound stop up of traffic. Clearly, transportation is the strength of our country's economy. There are diverse execution, shows in far off sensor association, for instance, filter c and parts, including RFID, NFC in this way engaging abatement in action costs and prodding credit just trades. In the event that there ought to emerge an event of manual expense arrangement structure time use is much undeniably more horrible similarly as fuel depletion and most critical is the environment, the proportion of air tainting that is made at the tollbooth site is at veritiable level, so our made system will reduce time wastage and decrease air pollution just as screen fuel. The sole inspiration driving this innovation is to diminish the challenges achieved by manual expense combination system and pass the subject's vehicle through cost limit in an issue of few seconds without end.

No. of Pages : 24 No. of Claims : 7

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Application Details

APPLICATION NUMBER	202141039583
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	01/09/2021
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TITLE OF INVENTION	IOT BASED AUTOMATED SYSTEM FOR FREEWAY FRAMEWORK 3
FIELD OF INVENTION	COMMUNICATION
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PRIDRITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	10/09/2021

Application Status

APPLICATION STATUS

Awaiting Request for Examination

View Documents

➡ Filed ➡ Published ➡ RQ Filed ➡ Under Examination ➡ Disposed

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/11/2021

(21) Application No.202111052905 A
(43) Publication Date : 17/12/2021

(54) Title of the invention : INTELLIGENT STOCK TRADING USING MACHINE LEARNING AND AI- BASED

(51) International classification :G06Q0040040000, G06Q0040060000, G06N0003040000, G06Q0010000000, G06Q0040000000
(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 :
Our InventionIntelligent Stock Trading Using Machine Learning and AI- Based" is a The present invention relates to a system for automatically trading real investment items desirably on at least one trading exchange based on predetermined conditions. The present invention includes a data interface for receiving investment data identifying at least one item capable of being traded and containing information uniquely associated with the item. An individual trading computer receives predetermined trading criteria for making a trade. The individual trading computer receives the investment data and the predetermined trading criteria. Artificial intelligence techniques have the ability to take into consideration financial system complexities and they are used as financial time series forecasting tools. Two techniques are used to benchmark the AI techniques, namely, Autoregressive Moving Average (ARMA) which is linear modelling technique and random walk (RW) technique. The experimentation was performed on data obtained from the Johannesburg Stock Exchange. The data used was a series of past closing prices of the All Share Index. The results showed that the three techniques have the ability to predict the future price of the Index with an acceptable accuracy. All three artificial intelligence techniques outperformed the linear model. However, the random walk method outperformed all the other techniques. These techniques show an ability to predict the future price however, because of the transaction costs of trading in the market, it is not possible to show that the three techniques can disprove the weak form of market efficiency. The results show that the ranking of performances support vector machines, neuro-fuzzy systems, multilayer perceptron neural networks is dependent on the accuracy measure used.

No. of Pages : 16 No. of Claims : 8

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Application Details

APPLICATION NUMBER	202111052905
APPLICATION TYPE	ORDINARY APPLICATION
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FIELD OF INVENTIDN	COMPUTER SCIENCE
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REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	17/12/2021

Application Status

APPLICATION STATUS

Awaiting Request for Examination

View Documents

➡ Filed ➡ Published ➡ RQ Filed ➡ Under Examination ➡ Disposed

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Antrag auf Eintragung eines Gebrauchsmusters

2

Datum: TT 06 MM 10 JJJJ 2021

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Anmelder-Nr.: Vertreter-Nr.:

Zustelladressen-Nr.:

(6) IPC Vorschlag ist unbedingt anzugeben, sofern bekannt

Bezeichnung der Erfindung

IPC-Vorschlag des Anmelders

Intelligentes Überwachungsgerät für den Transport von lebenden Fischen auf der Grundlage eines Internet der Dinge-Sensors

(7)

Sonstige Anträge

☐ **Aussetzung** der Eintragung und Bekanntmachung auf Monate
(Max. 15 Mon. ab Anmelde- oder Prioritätstag)

☐ **Rechercheantrag** - Ermittlung der öffentlichen Druckschriften (§ 7 Gebrauchsmustergesetz)

(8) **Erklärungen**

- ☐ **Teilung/Ausscheidung** aus der Gebrauchsmusteranmeldung
- ☐ **Abzweigung** aus der Patentanmeldung/dem Patent
- ☐ Der Anmelder ist an **Lizenzvergabe** interessiert (unverbindlich)

(9)

- ☐ Inländische Priorität
  (Datum, Aktenzeichen der Voranmeldung)
- ☐ Ausländische Priorität
  (Datum, Land, Aktenz. der Voranmeldung)
- ☐ Ausstellungspriorität
  (Datum der erstmaligen Zurschaustellung, Ausstellung)

(10) **Gebührenzahlung** in Höhe von 30,00 EUR

☒ **SEPA-Mandatsverwendung**
elektr. Formular ist beigefügt.

☐ **Überweisung** *(nach Erhalt der Empfangsbescheinigung)*

Wird die Anmeldegebühr nicht innerhalb 3 Monaten nach dem Tag des Eingangs der Anmeldung gezahlt, so gilt die Anmeldung als zurückgenommen!

(11) **Anlagen**

1.	12	Seite(n) Beschreibung
2.	2	Seite(n) Schutzansprüche
	5	Anzahl Schutzansprüche
3.	1	Anzahl Figuren
4.		Abschrift(en) der Voranmeldung(en) bei Priorität
5.		Abschrift der Voranmeldung bei Abzweigung
6.		Vertretervollmacht
7.		Übersetzung(en)
8		Sonstiges

G6003e
1.08

Bearbeiter (1)

(12) Unterschrift

(13) Funktion des Bearbeiters

Bundesrepublik Deutschland

Urkunde

über die Eintragung des
Gebrauchsmusters Nr. 20 2021 105 406

Bezeichnung:

Intelligentes Überwachungsgerät für den Transport von lebenden Fischen auf der Grundlage eines Internet der Dinge-Sensors

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A01K 63/00

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Tag der Anmeldung:

06.10.2021

Tag der Eintragung:

29.10.2021

Die Präsidentin des Deutschen Patent- und Markenamts

Cornelia Rudloff-Schäffer

München, 29.10.2021

DE 202021105406 U1

Anmeldeland: DE
Anmeldenummer: 202021105406
Anmeldedatum: 06.10.2021
Veröffentlichungsdatum: 09.12.2021
Hauptklasse: A01K 63/00(2006.01,A)
MCD-Hauptklasse: A01K 63/00(2017.01,A)
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[DE]Intelligentes Überwachungsgerät für den Transport von lebenden Fischen auf der Grundlage eines Internet der Dinge-Sensors

[DE]Eine intelligente Überwachungsvorrichtung für den Transport von lebenden Fischen, die auf einem Internet der Dinge-Sensor basiert, wobei die intelligente Überwachungsvorrichtung umfasst:eine Sauerstoffversorgungseinheit, die zur Versorgung mit Sauerstoff in einem Behälter dient;Fischbehälterbeförderer, der zum Befördern eines Fischbehälters verwendet wird, wobei eine Auslieferungstransporteinrichtung verwendet wird, die den Fischbehälter ergreift und in der vertikalen Position hält, mit der der Fischbehälter zur aufeinanderfolgenden Auslieferung in die beliebige Richtungsposition in einer Auslieferungstransportrichtung entsprechend der vertikalen Position transportiertwerden kann;eine Sensoreinheit, mit der die Aktivität der Fische in einem Aquarium gemessen werden kann;eine Verarbeitungseinheit, die verwendet wird, um die von dem Sensor empfangenen Informationen zu verarbeiten und die Sauerstoffzufuhreinheit in dem Fischtank zu steuern, wobei die Verarbeitungseinheit den Sauerstoffbedarf unter Verwendung verarbeiteter Informationen unter Verwendung von Computerbefehlen, die von dem Prozessor der Verarbeitungseinheit verarbeitet werden, erkennt, wobei die Verarbeitungseinheit den Transport der gesamten Anordnung durch das von einem mobilen Computergerät unter Verwendung einer Kommunikationseinheit empfangene Signal steuert.

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BEREICH DER ERFINDUNG

[0001] Die vorliegende Erfindung bezieht sich auf das Gebiet der auf dem Internet der Dinge (IoT - Internet of Things) basierenden Vorrichtung für den Transport von Fischen.

[0002] Insbesondere bezieht sich die vorliegende Erfindung auf eine intelligente Überwachungsvorrichtung für den Transport von lebenden Fischen, die auf einem Internet der Dinge-Sensor basiert.

HINTERGRUND DER ERFINDUNG

[0003] Bei dem im Abschnitt ''Hintergrund“ behandelten Gegenstand sollte nicht davonausgegangen werden, dass er allein aufgrund seiner Erwähnung im Abschnitt ''Hintergrund“ zum Stand der Technik gehört. Ebenso sollte nicht davon ausgegangenwerden, dass ein im Hintergrundabschnitt erwähntes oder mit dem Gegenstand des Hintergrundabschnitts verbundenes Problem bereits im Stand der Technik erkannt wurde. Der Gegenstand des Hintergrundabschnitts stellt lediglich verschiedene Ansätze dar, die für sich genommen ebenfalls Erfindungen sein können.

[0004] Bei verschiedenen Anwendungen in der Fischindustrie besteht die Notwendigkeit, Fische durch den Einsatz von Pumpsystemen von einem Ort zu einem anderen zu transportieren, z. B. zum Impfen, Sortieren, Schlachten, von Schiffen zu Fischreservoirs oder Ähnlichem.

Stand der Technik

[0005] 1. EP 3 302 074 - FISCHABGABEVORRICHTUNG, FISCH-TRANSFERSYSTEM AUSGERÜSTET MIT DIESER FISCHABGABEVORRICHTUNG UND VERFAHREN ZUR AUTOMATISCHEN ABGABE VON FISCH AN EINE FISCHVERARBEITUNGSVORRICHTUNG, veröffentlicht am 11.4.2018, Int. Klasse A22C 25/08, Anmeldenummer 15 726 136 Anmelder NORDISCHER MASCHINENBAU Erfinder PAULSOHN CARSTEN. Die Erfindung betrifft eine Fischabgabevorrichtung (1) zum Abgeben von Fisch (9) an eine Fischverarbeitungsvorrichtung (7), umfassend eine Abgabefördereinrichtung (3), die mit einem steuerbaren Positionierantrieb (36) und einem steuerbaren Förderantrieb (36) ausgestattet ist. Das Abgabefördermittel (3) ist mittels des Positionierantriebs (35) in einen von Fisch (9) freien Lagerraum (11), in einen ersten Zustand, in einen zweiten Zustand zum Erfassen, zentrierten Halten undFördern des Fisches (9), zum Zugriff auf diesen im Lagerraum (11) und in einen dritten Zustand im Zusammenwirken mit dem Förderantrieb (36) verfahrbar, in dem der Fisch (9) nach dem Fördern an einem durch eine gesteuerte Abgabezeit mit zugehöriger Fischabgabegeschwindigkeit definierten Fischabgabepunkt (42) abgegeben wird.

[0006] 2. WO/2016/192756 - FISCHAUSLIEFERUNGSVORRICHTUNG, FISCH-TRANSFER-SYSTEM MIT DIESER FISCHAUSLIEFERUNGSVORRICHTUNG UND VERFAHREN ZUR AUTOMATISCHEN AUSLIEFERUNG VON FISCH AN EINE FISCHVERARBEITUNGSVORRICHTUNG, veröffentlicht am 08.12.2016, Int. Class A22C 25/08, Anmeldenummer PCT/EP2015/061993 Antragsteller NORDISCHER MASCHINENBAU RUD. BAADER GMBH + CO. KG Erfinder PAULSOHN, Carsten. Die Erfindung betrifft eine Fischabgabevorrichtung (1) zum Abgeben von Fisch (9) an eine Fischverarbeitungsvorrichtung (7), umfassend eine Abgabefördereinrichtung (3), die mit einem steuerbaren Positionierantrieb (36) und einem steuerbaren Förderantrieb (36) ausgestattet ist. Das Abgabefördermittel (3) ist mittels des Positionierantriebs (35) in einen von Fisch (9) freien Lagerraum (11), in einen ersten Zustand, in einen zweitenZustand zum Erfassen, zentrierten Halten und Fördern des Fisches (9), zum Zugriff auf diesen im Lagerraum (11) und in einen dritten Zustand im Zusammenwirken mit dem Förderantrieb (36) verfahrbar, in dem der Fisch

(9) nach dem Fördern an einem durch eine gesteuerte Abgabezeit mit zugehöriger Fischabgabegeschwindigkeit definierten Fischabgabepunkt (42) abgegeben wird.

[0007] 3. DK 179582 - FISCHZUFÜHRVORRICHTUNG, MIT DIESER FISCHZUFÜHRVORRICHTUNG AUSGERÜSTETES FISCHTRANSFERSYSTEM UND VERFAHREN ZUR AUTOMATISIERTEN ZUFÜHRUNG VON FISCH ZU

[0008] EINER FISCHVERARBEITUNGSVORRICHTUNG, veröffentlicht am 27.11.2017, Int. Klasse A22C25/08, Anmeldenummer PA 2017 70858, Antragsteller/Erfinder Carsten Paulsohn. Eine Fischzuführvorrichtung (1) zum Zuführen von Fisch (9) zu einer Fischverarbeitungsvorrichtung (7) umfasst ein Zuführfördermittel (3), das mit einem steuerbaren Positionierantrieb (35) und einem steuerbaren Förderantrieb (36) ausgestattet ist. Das Abgabetransportmittel (3) ist durch den steuerbaren Positionierantrieb (35) in einen ersten, von dem Fisch (9) in einem Ablageraum (11) freigegebenen Zustand (301), in einen zweiten Zustand (302) zum Erfassen, zentrierten Halten und Fördern des im Ablageraum (11) zugreifenden Fisches (9) und, im Zusammenwirken mit dem steuerbaren Förderantrieb (36) in einen dritten Zustand(303), der den Fisch (9) nach dem Fördern an einem Fischabgabepunkt (42) freigibt, der durch eine gesteuerte Abgabezeit mit zugehöriger gesteuerter Fischabgabegeschwindigkeit definiert ist.

[0009] 4. CA 2985671 - FISCHAUSLIEFERUNGSVORRICHTUNG, FISCH-TRANSFERSYSTEM MIT DIESER

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FISCHAUSLIEFERUNGSVORRICHTUNG UND VERFAHREN ZUR AUTOMATISCHEN AUSLIEFERUNG VON FISCH AN EINE FISCHVERARBEITUNGSVORRICHTUNG, veröffentlicht am 08.12.2016 Int.Klasse A22C25/08, Anmeldenummer 2985671, Antragsteller NORDISCHER MASCHINENBAU RUD. BAADER GMBH + CO. KG. Die Erfindung betrifft eine Fischabgabevorrichtung (1) zum Abgeben von Fisch (9) an eine Fischverarbeitungsvorrichtung (7), umfassendeine Abgabefördereinrichtung (3), die mit einem steuerbaren Positionierantrieb (36) und einem steuerbaren Förderantrieb (36) ausgestattet ist. Das Abgabefördermittel (3)ist mittels des Positionierantriebs (35) in einen von Fisch (9) freien Lagerraum (11), ineinen ersten Zustand, in einen zweiten Zustand zum Erfassen, zentrierten Halten undFördern des Fisches (9), zum Zugriff auf diesen im Lagerraum (11) und in einen dritten Zustand im Zusammenwirken mit dem Förderantrieb (36) verfahrbar, in dem der Fisch nach dem Fördern an einem durch eine gesteuerte Abgabezeit mit zugehöriger Fischabgabegeschwindigkeit definierten Fischabgabepunkt (42) abgegeben wird.

[0010] 5. US 2018/0160692 - FISCHAUSLIEFERUNGSVORRICHTUNG, FISCH-TRANSFER-SYSTEM MIT DIESER FISCHAUSLIEFERUNGSVORRICHTUNG UND VERFAHREN ZUR AUTOMATISCHEN AUSLIEFERUNG VON FISCH AN EINE FISCHVERARBEITUNGSVORRICHTUNG, veröffentlicht am 14.06.2018, Int. Klasse A22C25/00 Antragsnummer 15578175 Antragsteller Nordischer Maschinenbau Rud. Baader GmbH + Co. KG Erfinder Carsten Paulsohn. Eine Fischzuführeinrichtung (1) zum Zuführen von Fisch (9) zu einer Fischverarbeitungseinrichtung (7) umfasst ein Zuführfördermittel (3), das mit einem steuerbaren Positionierantrieb (35) und einem steuerbaren Förderantrieb (36) ausgestattet ist. Das Abgabetransportmittel (3) ist durch den steuerbaren Positionierantrieb (35) in einen ersten Zustand (301) zur Freigabe des Fisches (9) in einem Ablageraum (11), in einen zweiten Zustand (302) zum Erfassen, zentrierten Halten und Fördern des im Ablageraum (11) zugreifenden Fisches (9) und, im Zusammenwirken mit dem steuerbaren Förderantrieb (36) in einendritten Zustand (303), der den Fisch (9) nach der Förderung an einem Fischabgabepunkt (42) freigibt, der durch eine gesteuerte Abgabezeit mit zugehöriger gesteuerter Fischabgabegeschwindigkeit definiert ist.

[0011] 6. CA 2172922 VORRICHTUNG ZUR AUTOMATISCHEN REGELBAREN ÜBERGABE VON FISCHEN AN EINE FISCHVERARBEITUNGSMASCHINE, veröffentlicht am 30.09.1996, Int. Klasse A22C 25/08, Anmeldenummer 2172922, Antragsteller Erfinder GROSSEHOLZ, WERNER. Es wird eine Vorrichtung zur automatischen geregelten Übergabe von Fisch an eine Fischverarbeitungsmaschine beschrieben. Um die korrekte Ausrichtung der Fische bei einer solchen Übergabe zu gewährleisten, umfasst die Vorrichtung einen Förderer mit einem Laufrost zur Aufnahme von Fischen in loser Schüttung und zu deren Vereinzelung, eine Ausrichtvorrichtung mit einer Drehvorrichtung zum Ausrichten der Fische in einer einheitlichen Längsausrichtung, eine Vorrichtung zum Ausrichten der Fische in einer einheitlichen Querausrichtung, eine Taktvorrichtung zur individuellen Aufnahme und synchronen Abgabe der Fische an einen Querförderer mit Trögen zur Aufnahme der Fische, eine Messstation mit einem optischen Messsensor zur Überwachung der seitlichen Ausrichtung der Fische und eine Wendevorrichtung, die durch den Messsensor gesteuert wird, um falsch positionierte Fische während ihres Transports in den Trögen um ihre Längsachse zu drehen.

[0012] In US2016113298A wird ein Pumpsystem beschrieben, das einen Rohrabschnitt mit gleichmäßigem Innendurchmesser und einen Produktionswasserkreislauf umfasst, der mit Abzweigrohren an den stromaufwärts undstromabwärts gelegenen Enden des Rohrabschnitts verbunden ist und mit dem Rohrabschnitt eine Schleife bildet. Der Produktionswasserkreislauf umfasst eine Pumpe und Ventile zum Pumpen von Produktionswasser in den Rohrabschnitt durch das Einlass-Zweigrohr und aus dem Auslass-Zweigrohr. Es wird auch ein Verfahren zum Pumpen von hochgeladenem Wasser und Fisch entlang des Rohrabschnitts bereitgestellt, dass die Schritte des Abziehens von Produktionswasser aus dem Rohrabschnitt durch das stromabwärts gelegene Ende des Rohrabschnitts und des gleichzeitigen Erzeugens eines Flusses von hochgeladenem Wasser und Fisch durch den Rohrabschnitt umfasst. Das Verfahren umfasst auch den Schritt des Pumpens von Produktionswasser in ein stromaufwärts gelegenes Ende des Rohrabschnitts und des Verursachens einer Strömung von hochgeladenem Wasser und Fisch entlang des Rohrabschnitts.

[0013] US2018310575A offenbart ein Verfahren und ein System zum Bewegen von getöteten Fischen in einem Rohr oder einer Rohrleitung, das Wasser und die Zufuhr von Druckluft oder Wasserdruck oder beides umfasst, um Zonen mit unterschiedlichen Eigenschaften in dem Rohr oder der Rohrleitung zu schaffen, um einen steuerbaren Wasserstrom für den Antrieb und die gesteuerte Verweildauer der Fische in dem Rohroder der Rohrleitung zu bilden.

[0014] Aus US2017000094A ist ein segmentiertes Fischpumpensystem bekannt. Das segmentierte Fischpumpensystem umfasst eine Reihe von Druckerhöhungspumpensegmenten, die auf einem Ansaugpumpensegment gestapeltsind und einen durchgängig geschlossenen Strom bilden, wobei jedes Druckerhöhungspumpensegment eine weitere Aufwärtsströmung induziert, wodurch der Druck und die Geschwindigkeit, die für die Ansaugpumpe des Ansaugpumpensegments erforderlich sind, minimiert

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werden. Dadurch wird die Verletzung empfindlicher Wasserlebewesen beim Sammeln verringert und eine nautische Umgebung innerhalb des geschlossenen Stroms für die zu transportierenden Wasserlebewesen geschaffen, die sich selbst in höhere Lagen befördern können.

[0015] In WO2017213511A1 werden ein Verfahren und ein System zum Pumpen von Partikeln in einer Flüssigkeit, insbesondere von lebenden Fischen in Wasser, beschrieben, bei dem eine Kammer eine Flüssigkeit und Partikel aus einem Flüssigkeitsvolumen durch eine geschlossene Leitung ansaugt, wobei die Kammer mit der Saugseite eines Ejektors und einer Pumpe zur Bildung eines Unterdrucks in der Kammer verbunden ist. Gleichzeitig trägt das vom Kompressor der Flüssigkeitssäule in der Kammer zugeführte Gas zur weiteren Beschleunigung des Flüssigkeitsstroms durch die Kammer bei. Der Ejektor wird durch einen Flüssigkeitsstrom von der Pumpeoder durch Gas vom Kompressor angetrieben. Der geschlossene Kanal ist mit einemRückschlagventil verbunden, das den Rückfluss von Flüssigkeit und Partikeln in das Flüssigkeitsvolumen verhindert. Die Flüssigkeit und die Partikel werden aus der Kammer durch den Ejektor und dann in eine geschlossene Leitung zur Aufnahmeeinheit geleitet. Das System umfasst auch eine externe Zufuhrleitung, die über ein Ventil an der externen Zufuhrleitung und ein Ventil an der Zufuhr aus einer Kammer gesteuert wird. Die externe

Zuleitung dient beispielsweise zur Reinigung des Systems mit reinem oder sauberem Wasser, zum Auffüllen von Wasser bei der Inbetriebnahme und zum Betrieb eines Ejektors in Fällen, in denen Partikel dazu neigen können, einen Auslass zu verstopfen.

[0016] Ein gemeinsames Merkmal dieser Systeme ist jedoch, dass sie keine vollautomatische Lösung in Bezug auf eine Verarbeitungsstation oder ein Aufnahmebecken oder einen Lagerbehälter bieten, die den transportierten lebenden Fisch aufnehmen. Ein weiterer Nachteil ist, dass sie nicht für einen gleichmäßigen Zufluss von lebendem Fisch sorgen, der an die Verarbeitungsstation oder den Aufnahmebehälter bzw. Lagerbehälter geliefert wird.

[0017] Gruppierungen von alternativen Elementen oder Ausführungsformen der hierin offenbarten Erfindung sind nicht als Einschränkungen zu verstehen. Jedes Gruppenmitglied kann einzeln oder in beliebiger Kombination mit anderen Mitgliedern der Gruppe oder anderen hierin enthaltenen Elementen in Bezug genommen und beansprucht werden. Ein oder mehrere Mitglieder einer Gruppe können aus Gründen der Zweckmäßigkeit und/ oder der Patentierbarkeit in eine Gruppe aufgenommen oderaus ihr entfernt werden. Wenn eine solche Aufnahme oder Streichung erfolgt, wird davon ausgegangen, dass die Spezifikation die Gruppe in der geänderten Form enthält, wodurch die schriftliche Beschreibung aller in den beigefügten Ansprüchen verwendeten Markush-Gruppen erfüllt wird.

[0018] Wie in der vorliegenden Beschreibung und in den folgenden Ansprüchen verwendet, schließt die Bedeutung von "ein“, "eine“ und "die“ den Plural ein, sofern der Kontext nicht eindeutig etwas anderes vorschreibt. Wie in der vorliegenden Beschreibung verwendet, schließt die Bedeutung von "in“ auch "in“ und "am“ ein, sofern der Kontext nicht eindeutig etwas anderes vorschreibt.

[0019] Die Aufzählung von Wertebereichen dient lediglich als Kurzbezeichnung für jeden einzelnen Wert, der in den Bereich fällt. Sofern hier nicht anders angegeben, wird jeder einzelne Wert in die Beschreibung aufgenommen, als ob er hier einzeln aufgeführt wäre. Alle hierin beschriebenen Verfahren können in jeder geeigneten Reihenfolge durchgeführt werden, sofern hierin nichts anderes angegeben ist oder derKontext dem nicht eindeutig widerspricht.

[0020] Die Verwendung von Beispielen oder beispielhaften Formulierungen (z. B. "wie“) in Bezug auf bestimmte Ausführungsformen dient lediglich der besseren Veranschaulichung der Erfindung und stellt keine Einschränkung des Umfangs der ansonsten beanspruchten Erfindung dar. Keine Formulierung in der Beschreibung ist als Hinweis auf ein nicht beanspruchtes Element zu verstehen, das für die Ausübung der Erfindung wesentlich ist.

[0021] Die in diesem Abschnitt "Hintergrund“ offengelegten Informationen dienen lediglich dem besseren Verständnis des Hintergrunds der Erfindung und können daherInformationen enthalten, die nicht zum Stand der Technik gehören und die einer Person mit normaler Fachkenntnis in diesem Land bereits bekannt sind.

ZUSAMMENFASSUNG

[0022] Bevor die vorliegenden Systeme und Methoden beschrieben werden, sei darauf hingewiesen, dass diese Anwendung nicht auf die beschriebenen Systeme und Methoden beschränkt ist, da es mehrere mögliche Ausführungsformen geben kann, die in der vorliegenden Offenlegung nicht ausdrücklich dargestellt sind. Es ist auch zuverstehen, dass die in der Beschreibung verwendete Terminologie nur zur Beschreibung der besonderen Versionen oder Ausführungsformen dient und nicht dazu gedacht ist, den Umfang der vorliegenden Anwendung zu begrenzen.

[0023] Die vorliegende Erfindung behebt und löst vor allem die technischen Probleme, die im Stand der Technik bestehen. Als Antwort auf diese Probleme offenbart die vorliegende Erfindung eine intelligente Überwachungsvorrichtung für den Transport von

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lebenden Fischen, die auf einem Internet der Dinge-Sensor basiert.

[0024] Ein Aspekt der vorliegenden Erfindung besteht darin, eine intelligente Überwachungsvorrichtung für den Transport von lebenden Fischen auf der Grundlage von Internet-der-Dinge-Sensoren vorzustellen, wobei die intelligente Überwachungsvorrichtung umfasst: eine Sauerstoffzufuhreinheit, die verwendet wird, um den Sauerstoff in einem Fischtank zuzuführen; einen Fischtankbeförderer, der verwendet wird, um einen Fischtank zu transportieren; eine Einrichtung, um die einzelnen Fische der Fischmasse, die von dem Förderer empfangen wird, einzeln zu transportieren; eineSensoreinheit, die verwendet wird, um die Aktivität der Fische innerhalb eines Fischtanks zu erfassen; eine Liefertransporteinrichtung, die den Fischtank ergreift und in der vertikalen Position hält, mit der der Fischtank für eine sukzessive Lieferung in die beliebige Richtungsposition in einer Liefertransportrichtung, die der vertikalen Position entspricht, transportiert werden kann und eine Verarbeitungseinheit, die verwendet wird, um die von dem Sensor empfangenen Informationen zu verarbeiten und die Sauerstoffzufuhreinheit in dem Fischtank zu steuern, wobei die Verarbeitungseinheit den Bedarf an Sauerstoff unter Verwendung von verarbeiteten Informationen unter Verwendung von Computerbefehlen erkennt, die von dem Prozessor der Verarbeitungseinheit verarbeitet werden, wobei die Verarbeitungseinheit den Transport der gesamten Anordnung durch das von einer mobilen Rechenvorrichtung unter Verwendung einer Kommunikationseinheit empfangene Signal steuert.

Figurenliste

[0025] Um verschiedene Aspekte einiger Ausführungsbeispiele der vorliegenden Erfindung zu verdeutlichen, wird eine genauere Beschreibung der Erfindung durch Bezugnahme auf bestimmte Ausführungsformen, die in der beigefügten Zeichnung dargestellt sind, gegeben. Es wird davon ausgegangen, dass diese Zeichnung nur eine illustrierte Ausführungsform der Erfindung darstellt und daher nicht als Einschränkung des Umfangs der Erfindung anzusehen ist. Die Erfindung wird anhand der beigefügten Zeichnung näher beschrieben und erläutert. Damit die Vorteile der vorliegenden Erfindung leicht verstanden werden, wird im Folgenden eine detaillierte Beschreibung der Erfindung in Verbindung mit der beigefügten Zeichnung erörtert, die jedoch nicht als Beschränkung des Umfangs der Erfindung auf die beigefügte Zeichnung angesehen werden sollten, in denen: Zeichnung 1 das Blockdiagramm eines intelligenten Systems zur Verfolgung persönlicher Finanzdaten auf der Grundlage der Blockchain zeigt.

DETAILLIERTE BESCHREIBUNG DER ZEICHNUNG

[0026] Die vorliegende Erfindung bezieht sich auf ein intelligentes Überwachungsgerät für den Transport von lebenden Fischen, das auf Sensoren des Internets der Dinge basiert.

[0027] Zeichnung 1 zeigt ein detailliertes Blockdiagramm eines intelligenten Systemszur Verfolgung persönlicher Finanzdaten auf der Grundlage der Blockchain.

[0028] Obwohl die vorliegende Offenbarung mit dem Ziel einer intelligenten Überwachungsvorrichtung für den Transport von lebenden Fischen auf der Grundlage von Internet-der-Dinge-Sensoren beschrieben wurde, sollte man sich darüber im Klaren sein, dass dies nur zur beispielhaften Veranschaulichung der Erfindung und zur Hervorhebung jedes anderen Zwecks oder jeder anderen Funktion erfolgt, für die die erläuterten Strukturen oder Konfigurationen verwendet werden könnten und die in denAnwendungsbereich der vorliegenden Offenbarung fallen.

[0029] Das intelligente Überwachungsgerät 10 für den Transport von lebenden Fischen auf der Grundlage von Internet-der-Dinge-Sensoren wird offengelegt.

[0030] Die intelligente Überwachungsvorrichtung 10 für den Transport von lebenden Fischen, die auf einem Internet der Dinge-Sensor basiert, umfasst eine Sauerstoffversorgungseinheit 11 , einen Fischtankbeförderer 13 , eine Sensoreinheit 14 und eine Verarbeitungseinheit 15 .

[0031] Eine Sauerstoffversorgungseinheit 11 dient der Sauerstoffversorgung in einem Fischbecken 12 .

[0032] Ein Fischtank-Beförderer 13 dient zum Transport des Fischtanks 12 .

[0033] Es wird eine Auslieferungstransporteinrichtung verwendet, die das Fischbeckenin der vertikalen Position greift und hält, mit der das Fischbecken 12 zur sukzessiven Auslieferung in die beliebige Richtungsposition in einer der vertikalen Position entsprechenden Auslieferungstransportrichtung transportiert werden kann.

[0034] Die Sensoreinheit 14 wird verwendet, um die Aktivität der Fische in einem Aquarium zu messen;

[0035] Die Verarbeitungseinheit 15 dient dazu, die vom Sensor empfangenen Informationen zu verarbeiten und die Sauerstoffversorgungseinheit im Fischtank 12 zusteuern.

[0036]

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Die Verarbeitungseinheit 15 erkennt den Sauerstoffbedarf anhand von verarbeiteten Informationen unter Verwendung von Computerbefehlen, die von dem Prozessor der Verarbeitungseinheit 15 verarbeitet werden.

[0037] Die Verarbeitungseinheit 15 steuert den Transport der gesamten Baugruppe durch das von einem mobilen Computergerät über eine Kommunikationseinheit 16 empfangene Signal.

[0038] Die Abbildung und die vorangehende Beschreibung zeigen Beispiele für Ausführungsformen. Der Fachmann wird verstehen, dass eines oder mehrere der beschriebenen Elemente durchaus zu einem einzigen Funktionselement kombiniert werden können. Alternativ dazu können bestimmte Elemente in mehrere Funktionselemente aufgeteilt werden. Elemente aus einer Ausführungsform können einer anderen Ausführungsform hinzugefügt werden. Die Reihenfolge der hier beschriebenen Prozesse kann beispielsweise geändert werden und ist nicht auf die hier beschriebene Weise beschränkt. Darüber hinaus müssen die Aktionen eines Blockdiagramms nicht in der gezeigten Reihenfolge ausgeführt werden, und es müssen auch nicht unbedingt alle Aktionen durchgeführt werden. Auch können diejenigen Handlungen, die nicht von anderen Handlungen abhängig sind, parallel zu den anderen Handlungen ausgeführt werden. Der Umfang der Ausführungsformen istdurch diese spezifischen Beispiele keineswegs begrenzt.

[0039] Obwohl Ausführungsformen der Erfindung in einer für strukturelle Merkmale und/oder Methoden spezifischen Sprache beschrieben wurden, sind die beigefügten Ansprüche nicht notwendigerweise auf die beschriebenen spezifischen Merkmale oder Methoden beschränkt. Vielmehr werden die spezifischen Merkmale und Methoden als Beispiele für Ausführungsformen der Erfindung offenbart.

Bezugszeichenliste

10
intelligentes Überwachungsgerät
11
Sauerstoffversorgungseinheit
12
Fischbecken
13
Fischtankbeförderer
14
Sensoreinheit
15
Verarbeitungseinheit
16
Kommunikationseinheit

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ZITATE ENTHALTEN IN DER BESCHREIBUNG

[0000] Diese Liste der vom Anmelder aufgeführten Dokumente wurde automatisiert erzeugt und ist ausschließlich zur besseren Information des Lesers aufgenommen. Die Liste ist nicht Bestandteil der deutschen Patent- bzw. Gebrauchsmusteranmeldung. Das DPMA übernimmt keinerlei Haftung für etwaige Fehler oder Auslassungen.

Zitierte Patentliteratur

[0000] EP 3302074 [0005] WO 2016/192756 [0006] EP 2015/061993 PCT [0006] PA 201770858 [0008] US 2018/0160692 [0010] US 2016113298 A [0012] US 2018310575 A [0013] US 2017000094 A [0014] WO 2017213511 A1 [0015]

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[1] Eine intelligente Überwachungsvorrichtung für den Transport von lebenden Fischen, die auf einem Internet der Dinge-Sensor basiert, wobei die intelligente Überwachungsvorrichtung umfasst:
eine Sauerstoffversorgungseinheit, die zur Versorgung mit Sauerstoff in einem Behälter dient;
Fischbehälterbeförderer, der zum Befördern eines Fischbehälters verwendet wird, wobei eine Auslieferungstransporteinrichtung verwendet wird, die den Fischbehälter ergreift und in der vertikalen Position hält, mit der der Fischbehälter zur aufeinanderfolgenden Auslieferung in die beliebige Richtungsposition in einer Auslieferungstransportrichtung entsprechend der vertikalen Position transportiertwerden kann;
eine Sensoreinheit, mit der die Aktivität der Fische in einem Aquarium gemessen werden kann;
eine Verarbeitungseinheit, die verwendet wird, um die von dem Sensor empfangenen Informationen zu verarbeiten und die Sauerstoffzufuhreinheit in dem Fischtank zu steuern, wobei die Verarbeitungseinheit den Sauerstoffbedarf unter Verwendung verarbeiteter Informationen unter Verwendung von Computerbefehlen, die von dem Prozessor der Verarbeitungseinheit verarbeitet werden, erkennt, wobei die Verarbeitungseinheit den Transport der gesamten Anordnung durch das von einem mobilen Computergerät unter Verwendung einer Kommunikationseinheit empfangene Signal steuert.

[2] Intelligente Überwachungsvorrichtung für den Transport von lebenden Fischen auf der Grundlage eines Sensors des Internets der Dinge nach Anspruch 1, wobei die Verarbeitungseinheit eine auf einem Mikrocontroller basierende Verarbeitungseinheit ist.

[3] Intelligente Überwachungsvorrichtung für den Transport von lebenden Fischen, die auf einem Sensor des Internets der Dinge nach Anspruch 1 basiert, wobei der Sensor ein visueller Sensor ist.

[4] Intelligente Überwachungsvorrichtung für den Transport von lebenden Fischen, die auf einem Internet der Dinge-Sensor nach Anspruch 1 basiert, wnbei die Sensoreinheit zur Bildverarbeitung für die Aktivitätsüberwachung der Fische verwendet wird.

[5] Intelligente Überwachungsvorrichtung für den Transport von lebenden Fischen, basierend auf einem Internet-der-Dinge-Sensor nach Anspruch 1, wobei die Sauerstoffversorgungseinheit Sauerstoff in das Fischbecken einspeist.

SMART MONITORING APPARATUS FOR TRANSPORT OF ALIVE FISH BASED ON INTERNET OF THINGS SENSOR

FIELD OF INVENTION

The present invention relates to the field of internet of things based apparatus for transportation of fishes.

More particularly, the present invention is related to smart monitoring apparatus for transport of alive fish based on internet of things sensor.

BACKGROUND OF THE INVENTION

The subject matter discussed in the background section should not be assumed to be prior art merely as a result of its mention in the background section. Similarly, a problem mentioned in the background section or associated with the subject matter of the background section should not be assumed to have been previously recognized in the prior art. The subject matter in the background section merely represents different approaches, which in-and-of-themselves may also be inventions.

In various applications within the fish industry there is a need for transport of fish from one location to another location, such as for vaccination, sorting, slaughtering, from ships to fish reservoirs or similar by the use of pump systems

Some of the prior work listed herewith:

1. 3302074FISH DELIVERY DEVICE, FISH-TRANSFER SYSTEM EQUIPPED WITH SAID FISH DELIVERY DEVICE, AND METHOD FOR THE AUTOMATED DELIVERY OF FISH TO A FISH PROCESSING DEVICE EP - 11.04.2018 Int.Class A22C 25/08 Appl.No 15726136 Applicant NORDISCHER MASCHINENBAU Inventor PAULSOHN CARSTEN The invention relates to a fish delivery device (1) for delivering fish (9) to a fish processing device (7), comprising a delivery conveyor means (3) equipped with a controllable positioning drive (36) and a controllable conveying drive (36). By means of the positioning drive (35), the delivery conveyor means (3) is movable to a storage space (11) that is free of fish (9), to a first state, is movable to a second state for detecting, centered holding and conveying the fish (9), accessing said fish in the storage room (11), and to a third state in interaction with the conveying drive (36), in which after conveyance the fish (9) is released at a fish delivery point (42) that is defined by a controlled delivery time with associated fish delivery speed.

2.WO/2016/192756FISH DELIVERY DEVICE, FISH-TRANSFER SYSTEM EQUIPPED WITH SAID FISH DELIVERY DEVICE, AND METHOD FOR THE AUTOMATED DELIVERY OF FISH TO A FISH PROCESSING DEVICE WO - 08.12.2016 Int.Class A22C 25/08 Appl.No PCT/EP2015/061993 Applicant NORDISCHER MASCHINENBAU RUD. BAADER GMBH + CO. KG Inventor PAULSOHN, Carsten The invention relates to a fish delivery device (1) for delivering fish (9) to a fish processing device (7), comprising a delivery conveyor means (3) equipped with a controllable positioning drive (36) and a controllable conveying drive (36). By means of the positioning drive (35), the delivery conveyor means (3) is movable to a storage space (11) that is free of fish (9), to a first state, is movable to a second state for detecting, centered holding and conveying the fish (9), accessing said

fish in the storage room (11), and to a third state in interaction with the conveying drive (36), in which after conveyance the fish (9) is released at a fish delivery point (42) that is defined by a controlled delivery time with associated fish delivery speed.

179582FISH DELIVERY DEVICE, FISH TRANSFER SYSTEM EQUIPPED WITH SAID FISH DELIVERY DEVICE AND METHOD FOR THE AUTOMATED DELIVERY OF FISH TO A FISH PROCESSING DEVICE DK - 27.11.2017Int.Class A22C 25/08Appl.No PA 2017 70858ApplicantInventor Carsten Paulsohn A fish feed-in device (1) for feeding fish (9) to a fish processing device (7) comprises a delivery conveying means (3) which is equipped with a controllable positioning drive (35) and a controllable conveying drive (36). The delivery conveying means (3) can be moved by the controllable positioning drive (35) into a first state (301) released by the fish (9) in a deposit space (11), into a second state (302) for grasping, centred holding and conveying of the fish (9) accessing said fish in the deposit space (11) and, in cooperation with the controllable conveying drive (36), into a third state (303) which releases the fish (9) after conveying at a fish delivery point (42) which is defined by a controlled delivery time with associated controlled fish delivery speed.

4.2985671FISH DELIVERY DEVICE, FISH-TRANSFER SYSTEM EQUIPPED WITH SAID FISH DELIVERY DEVICE AND METHOD FOR THE AUTOMATED DELIVERY OF FISH TO A FISH PROCESSING DEVICE CA - 08.12.2016Int.Class A22C 25/08Appl.No 2985671Applicant ORDISCHER MASCHINENBAU RUD. BAADER GMBH + CO. KGInventor The invention relates to a fish delivery device (1) for delivering fish (9) to a fish processing device (7), comprising a delivery conveyor means (3) equipped with a controllable positioning drive (36) and a controllable conveying drive (36). By means of the positioning drive (35), the delivery conveyor

means (3) is movable to a storage space (11) that is free of fish (9), to a first state, is movable to a second state for detecting, centered holding and conveying the fish (9), accessing said fish in the storage room (11), and to a third state in interaction with the conveying drive (36), in which after conveyance the fish (9) is released at a fish delivery point (42) that is defined by a controlled delivery time with associated fish delivery speed.

5.20180160692FISH DELIVERY DEVICE, FISH-TRANSFER SYSTEM EQUIPPED WITH SAID FISH DELIVERY DEVICE, AND METHOD FOR THE AUTOMATED DELIVERY OF FISH TO A FISH PROCESSING DEVICE US - 14.06.2018 Int.Class A22C 25/00Appl.No 15578175Applicant ordischer Maschinenbau Rud. Baader GmbH + Co. KGInventor Carsten PaulsohnA fish feed-in device (1) for feeding fish (9) to a fish processing device (7) comprises a delivery conveying means (3) which is equipped with a controllable positioning drive (35) and a controllable conveying drive (36). The delivery conveying means (3) can be moved by the controllable positioning drive (35) into a first state (301) released by the fish (9) in a deposit space (11), into a second state (302) for grasping, centered holding and conveying of the fish (9) accessing said fish in the deposit space (11) and, in cooperation with the controllable conveying drive (36), into a third state (303) which releases the fish (9) after conveying at a fish delivery point (42) which is defined by a controlled delivery time with associated controlled fish delivery speed.

6.2172922DEVICE FOR THE AUTOMATIC REGULATED TRANSFER OF FISH TO A FISH PROCESSING MACHINE CA - 30.09.1996nt.Class A22C 25/08Appl.No 2172922Applicant Inventor GROSSEHOLZ, WERNER An apparatus for the automatic regulated transfer of fish to a fish processing machine is described.

To ensure that the correct orientation of the fish is guaranteed during such a transfer, the apparatus comprises a conveyor with a travelling grating for receiving fish in bulk and separating them, an aligning device with a turning device for aligning the fish in a uniform longitudinal orientation, a device for aligning the fish in a uniform lateral orientation, a timing device for individually receiving and synchronously delivering the fish to a transverse conveyor comprising troughs for receiving the fish, a measuring station with an optical measurement sensor for monitoring the lateral orientation of the fish and a turning mechanism, which is controlled by the measurement sensor to turn incorrectly positioned fish about their longitudinal axes during their conveyance in the troughs...

In US2016113298A is described a pumping system including a pipe section having a uniform inside diameter, and a production water piping circuit connected to branch pipes on the upstream and downstream ends of the pipe section, forming a loop with the pipe section. The production water circuit comprises a pump and valves for pumping production water into the pipe section through the inlet branch pipe and out through the outlet branch pipe. There is also provided a method for pumping upload water and fish along the pipe section, comprising the steps of drawing production water out of the pipe section through the downstream end of the pipe section, and simultaneously inducing a flow of upload water and fish through the pipe section. The method also includes the step of pumping production water into an upstream end of the pipe section and causing a flow of upload water and fish along the pipe section.

US2018310575A discloses a method and system for moving killed fish in a pipe or pipeline, comprising water and supply of pressurized air or water pressure or both

to create zones having different properties in the pipe or pipeline to form a controllable water flow for propulsion of and controlled retention time of fish in the pipe or pipeline.

From US2017000094A is known a segmented fish pump system. The segmented fish pump system includes a series of booster pump segments stacked upon an intake pump segment, forming an enclosed stream throughout, wherein each booster pump segment induces further upward flow, thereby minimizing the pressure and velocity needed for the intake pump of the intake pump segrnent. As a result, lessening trauma to fragile aquatic life at collection and further providing a nautical environment within the enclosed stream for the aquatic life to be transported, as well as self-propelled to higher elevations.

In WO2017213511A1 is described a method and system for pumping particles in a liquid, in particular living fish in water, where a chamber draws a liquid and particles up from a liquid volume through a closed duct, the chamber being connected to the suction side of an ejector and a pump for formation of a sub-pressure in the chamber. At the same time, gas supplied from the compressor to the liquid column in the chamber contributes further to the acceleration of liquid flow through the chamber. The ejector is driven by a liquid flow from the pump or of gas from the compressor. The closed duct is connected to a non-return valve or check valve, preventing liquid and particles from returning to the liquid volume. Liquid and particles are transferred out of the chamber and through the ejector and then into a closed duct to the receiving unit. The system also comprises an external supply line, which is controlled by means of a valve on the external supply line and a valve on the supply from a chamber. The external supply is used for example for cleaning of the system with pure or clean water,

filling of water at start-up and operation of an ejector in cases, when particles may have a tendency to clog an outlet.

However, a common feature of these systems is that they do not provide a fully automatic solution in relation to a processing station or receiving reservoir or storage container receiving the transported alive fish. A further drawback is that they do not provide an even flow of alive fish delivered to the processing station or receiving reservoir or storage container..

Groupings of alternative elements or embodiments of the invention disclosed herein are not to be construed as limitations. Each group member can be referred to and claimed individually or in any combination with other members of the group or other elements found herein. One or more members of a group can be included in, or deleted from, a group for reasons of convenience and/or patentability. When any such inclusion or deletion occurs, the specification is herein deemed to contain the group as modified, thus fulfilling the written description of all Markus groups used in the appended claims.

As used in the description herein and throughout the claims that follow, the meaning of "a," "an," and "the" includes plural reference unless the context clearly dictates otherwise. Also, as used in the description herein, the meaning of "in" includes "in" and "on" unless the context clearly dictates otherwise.

The recitation of ranges of values herein is merely intended to serve as a shorthand method of referring individually to each separate value falling within the range. Unless otherwise indicated herein, each individual value is incorporated into the specification as if it were individually recited herein. All methods described herein can

be performed in any suitable order unless otherwise indicated herein or otherwise clearly contradicted by context.

The use of any and all examples, or exemplary language (e.g. "Such as") provided with respect to certain embodiments herein is intended merely to better illuminate the invention and does not pose a limitation on the scope of the invention otherwise claimed. No language in the specification should be construed as indicating any non-claimed element essential to the practice of the invention.

The above information disclosed in this Background section is only for the enhancement of understanding of the background of the invention and therefore it may contain information that does not form the prior art that is already known in this country to a person of ordinary skill in the art.

SUMMARY

Before the present systems and methods. are described, it is to be understood that this application is not limited to the particular systems, and methodologies described, as there can be multiple possible embodiments which are not expressly illustrated in the present disclosure. It is also to be understood that the terminology used in the description is for the purpose of describing the particular versions or embodiments only and is not intended to limit the scope of the present application.

The present invention mainly cures and solves the technical problems existing in the prior art. In response to these problems, the present invention discloses Smart monitoring apparatus for transport of alive fish based on internet of things sensor.

As one aspect of the present invention is to presents "A smart monitoring apparatus for transport of alive fish based on internet of things sensor, wherein the smart monitoring apparatus comprising : A oxygen supply unit, used to supply the oxygen in a fish tank ; a Fish tank conveyor , used for conveying a fish tank; means for transporting one by one the fishes of the fish mass received from the conveyor; A sensor unit, used to sense the activity of the fish inside of a fish tank; a delivery transport means gripping and holding the fish tank in the vertical position, with which the fish tank can be transported for successive delivery in the any direction position in a delivery transport direction corresponding to the vertical position; and A processing unit, used to process the information received from the sensor and control the oxygen supply unit in the fish tank, wherein the processing unit recognize the demand of oxygen using processed information using computer instruction processed by the processor of the processing unit, wherein the processing unit controls the transport of the whole assembly by the signal received from a mobile computing device using a communication unit..."

BRIEF DESCRIPTION OF DRAWINGS

To clarify various aspects of some example embodiments of the present invention, a more particular description of the invention will be rendered by reference to specific embodiments thereof which are illustrated in the appended drawings. It is appreciated that these drawings depict only illustrated embodiments of the invention and are therefore not to be considered limiting of its scope. The invention will be described and explained with additional specificity and detail through the use of the accompanying drawings.

In order that the advantages of the present invention will be easily understood, a detailed description of the invention is discussed below in conjunction with the appended drawings, which, however, should not be considered to limit the scope of the invention to the accompanying drawings, in which:

Figure 1 shows block diagram representation of Intelligent system for tracking personal financial data based on block chain.

DETAIL DESCRIPTION

The present invention is related to Smart monitoring apparatus for transport of alive fish based on internet of things sensor.

Figure 1 shows detail block diagram representation of Intelligent system for tracking personal financial data based on block chain.

Although the present disclosure has been described with the purpose of Smart monitoring apparatus for transport of alive fish based on internet of things sensor, it should be appreciated that the same has been done merely to illustrate the invention in an exemplary manner and to highlight any other purpose or function for which explained structures or configurations could be used and is covered within the scope of the present disclosure.

The Smart monitoring apparatus 10 for transport of alive fish based on internet of things sensor is disclosed .

The smart monitoring apparatus 10 for transport of alive fish based on internet of things sensor, comprising a oxygen supply unit 11, a fish tank conveyor 13 , a sensor unit 14 and a processing unit 15.

A oxygen supply unit 11 is used to supply the oxygen in a fish tank 12.

A Fish tank conveyor 13 is used for conveying the fish tank 12.

A delivery transport means is used gripping and holding the fish tank in the vertical position, with which the fish tank 12 can be transported for successive delivery in the any direction position in a delivery transport direction corresponding to the vertical position;

The sensor unit 14 is used to sense the activity of the fish inside of a fish tank;

The processing unit 15 is used to process the information received from the sensor and control the oxygen supply unit in the fish tank 12.

The processing unit 15 recognize the demand of oxygen using processed information using computer instruction processed by the processor of the processing unit 15.

The processing unit 15 controls the transport of the whole assembly by the signal received from a mobile computing device using a communication unit 16.

The figures and the foregoing description give examples of embodiments. Those skilled in the art will appreciate that one or more of the described elements may well be combined into a single functional element. Alternatively, certain elements may be split into multiple functional elements. Elements from one embodiment may be added to another embodiment. For example, order of processes described herein may be changed and are not limited to the manner described herein. Moreover, the actions of any block diagram need not be implemented in the order shown; nor do all of the acts need to be necessarily performed. Also, those acts that are not dependent on other acts may be performed in parallel with the other acts. The scope of embodiments is by no means limited by these specific examples.

Although implementations of the invention have been described in a language specific to structural features and/or methods, it is to be understood that the appended

claims are not necessarily limited to the specific features or methods described. Rather, the specific features and methods are disclosed as examples of implementations of the invention.

CLAIMS

We claim:

1. A smart monitoring apparatus for transport of alive fish based on internet of things sensor, wherein the smart monitoring apparatus comprising :

A oxygen supply unit, used to supply the oxygen in a container

a Fish tank conveyor , used for conveying a fish tank, wherein a delivery transport means is used gripping and holding the fish tank in the vertical position, with which the fish tank can be transported for successive delivery in the any direction position in a delivery transport direction corresponding to the vertical position;

A sensor unit, used to sense the activity of the fish inside of a fish tank;

A processing unit, used to process the information received from the sensor and control the oxygen supply unit in the fish tank, wherein the processing unit reccognise the demand of oxygen using processed information using computer instruction processed by the processor of the processing unit, wherein the processing unit controls the transport of the whole assembly by the signal received from a mobile computing device using a communication unit.

2. The smart monitoring apparatus for transport of alive fish based on internet of things sensor as claimed in claim 1, the processing unit is microcontroller based processing unit.

3. The smart monitoring apparatus for transport of alive fish based on internet of things sensor as claimed in claim 1, The sensor is a visual sensor.

4. The smart monitoring apparatus for transport of alive fish based on internet of things sensor as claimed in claim 1, The sensor unit is used image processing for the activity monitor of the fish.

5. The smart monitoring apparatus for transport of alive fish based on internet of things sensor as claimed in claim 1, the oxygen supply unit supply oxygen in the fish tank..

SMART MONITORING APPARATUS FOR TRANSPORT OF ALIVE FISH BASED ON INTERNET OF THINGS SENSOR

ABSTRACT

The present invention relates to Smart monitoring apparatus for transport of alive fish based on internet of things sensor. The objective of the present invention is to solve the problems in the prior art technologies related to transportation of live fishes from one place to another. The apparatus for automatic transportation of alive fish from a water-filled fish reservoir or storage container to a processing station or receiving reservoir or storage container.

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/09/2021

(21) Application No.202111043019 A
(43) Publication Date : 15/10/2021

(54) Title of the invention : AUTOMATIC FRAUD DETECTION IN MOBILE MONEY TRANSACTIONS USING MACHINE LEARNING

(51) International classification :G06Q 30/00
(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

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(57) Abstract :
Our InventionAutomatic Fraud Detection in Mobile Money Transactions Using Machine Learning" is this review investigates a successful information digging frameswork for extortion location in versatile monetary exchanges. Endeavoring two wide utilized administered AI models, arbitrary timberland and inclination boosting, the review intends to test and look at their appropriateness in the location of false records. Both arrangement models were created utilizing a manufactured dataset of portable cash exchanges, which was produced dependent on an example of genuine exchanges removed from a global versatile cash administration organization. Indeed, benefits, for example, these make Fintech progressively well known among customers. Be that as it may, since Fintech exchanges are comprised of data, guaranteeing security turns into a basic issue. Weaknesses in such frameworks allow them to remain uncovered to fake demonstrations, which cause extreme harm to customers and suppliers the same. Consequently, strategies from the space of Machine Learning (ML) are applied to recognize peculiarities in Fintech applications. They target dubious movement in monetary datasets and create models to expect future cheats.

No. of Pages : 11 No. of Claims : 6

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Ministry of Commerce & Industry,
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INTELLECTUAL PROPERTY INDIA (http://ipindia.nic.in/index.htm)

Application Details

APPLICATION NUMBER	202111043019
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	22/09/2021
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TITLE OF INVENTION	AUTOMATIC FRAUD DETECTION IN MOBILE MONEY TRANSACTIONS USING MACHINE LEARNING
FIELD OF INVENTION	COMPUTER SCIENCE
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	15/10/2021

Application Status

APPLICATION STATUS

Awaiting Request for Examination

View Documents

Filed → Published → RQ Filed → Under Examination → Disposed

In case of any discrepancy in status, kindly contact ipo-helpdesk@nic.in

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/06/2021

(21) Application No.202131026317 A
(43) Publication Date : 09/07/2021

(54) Title of the invention : A NOVEL SOLAR ASSISTED DEFLUORIDATION DEVICE USING LANGMUIR ISOTHERM MODEL FOR FLUORIDE FREE DRINKING WATER.

(51) International classification	:C02F0101140000, F24S0010400000, H02S0020300000, C02F0001140000, F24D0017000000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(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
Filing Date	:NA

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(57) Abstract :
Fluoride tainting in water may create ecological dangers. In this examination, the combination of bio diminished graphene oxide (TPGO,50%) and calcium impregnated silica joined with titanium dioxide (Ca-SiO2-TiO2,50%) were utilized for fluoridation limit which was investigated. The ideal conditions for the boundaries like adsorbent portion, temperature, and contact time to research the fluoride expulsion proficiency. It was seen that the incorporated item have higher de-fluoridation effectiveness. The balance information for de-fluoridation by bio diminished graphene oxide (TPGO) and calcium impregnated silica joined with titanium dioxide (Ca-Si02-Ti02) were best fitted to the Langmuir isotherm model. The test results were applied to get factual investigation. The outcomes proposed that there was a nearer communication among exploratory and hypothetical outcomes. Generally, the combination of those adsorbents were an earth kind and savvy alternative for defluoridation. This eco agreeable methodology is used in sun based helped electronic defluoridation gadget which comprises of sun based board, programmed stirrer(connected with DC Motor) with filtration unit so fluoride free water will be acquired for drinking reason by enormous mass. From the viewpoint of pragmatic application, the water supply framework which is straightforwardly associated with tube well or artesian well, the defluoridation gadget will be added there to get fluoride free drinking water for utilization. Along these lines, it very well might be inferred that this creative and practical gadget will be helpful for society.

No. of Pages : 11 No. of Claims : 6

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Government of India

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INTELLECTUAL PROPERTY INDIA (http://ipindia.nic.in/index.htm)

Application Details

APPLICATION NUMBER	202131026317
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	14/06/2021
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TITLE OF INVENTION	A NOVEL SOLAR ASSISTED DEFLUORIDATION DEVICE USING LANGMUIR ISOTHERM MODEL FOR FLUORIDE FREE DRINKING WATER.
FIELD OF INVENTION	CHEMICAL
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E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	14/06/2021
PUBLICATION DATE (U/S 11A)	09/07/2021

Australian Government

IP Australia

CERTIFICATE OF GRANT
INNOVATION PATENT

Patent number: 2020104116

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

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Title of invention:

HOLONOMIC DRIVE CONVEYOR SYSTEM AND ITS METHOD USING IOT

Name of inventor(s):

Kumar, V. D. Ambeth; BHARATH, MALLELA; Malathi, S.; Elangovan, D.; Kumar, Abhishek; R, Vijay; B, Chitra; Kumar, V. D. Ashok; Pushpa, S.; Kumar, Ankit; Kushwaha, Alok Kumar Singh and Manish, R.

Term of Patent:

Eight years from 16 December 2020

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.

Dated this 17th day of February 2021

Commissioner of Patents

PATENTS ACT 1990

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Ministry of Commerce & Industry,
Government of India

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(http://ipindia.nic.in/index.htm)

Application Details

APPLICATION NUMBER	202041026847
APPLICATION TYPE	ORDINARY APPLICATION
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TITLE OF INVENTION	DURABILITY RESPONSE OF HIGH-PERFORMANCE CONCRETE WITH METAKAOLIN AND RICE HUSK ASH
FIELD OF INVENTION	CHEMICAL
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	10/07/2020

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041007612 A

(19) INDIA

(22) Date of filing of Application :23/02/2020

(43) Publication Date : 28/02/2020

(54) Title of the invention : IOT BASED REAL-TIME FUEL EFFICIENCY AND MONITORING SYSTEM FOR A SMART VEHICLE USING MOBILE DEVICE

(51) International classification :G06Q0050060000,G01F0023200000,A63B0024000000,G06Q0010060000,G01F0023296000
(31) Priority Document No :NA
(32) Priority Date :NA
(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
Filing Date :NA

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(57) Abstract :
To facilitate the need for an effective transport system for goods, this invention describes solutions for real-time tracking and fuel control, which considered being the main problems that most truck companies want to address. Through keeping a fast track with fuel consumption and intake, vehicles made more effective in terms of cost and fuel. These can achieve by data grouping and remote monitoring devices installed in the fuel storage tank position. The primary goal of the invention is to recognize the particular quantity of the remaining gas in the fuel tank and how much distance it can travel. They can also locate nearby petrol pumps, and it will also mean that the petrol pumps are out of or not. The graphical display will indicate how much fuel is in the fuel tank and how much added, and the total amount of fuel in the fuel tank will be evidence of any wrongdoing committed by the ones who fill the fuel. Use the speed sensor and terrain sensor; using this entire system helps monitor their mileage. The perception of the graphics helps the user understand better. This system uses GSM , GPS Module Ultrasonic Sensor & SIM808. In this device, the owner gets information about fuel content in the tank via PIC 16F872A, Microcontroller, SIM808 GSM GPS module, LCD and keypad included in the system. This smart system gives fuel consumption 24x7access, warnings when the tank fuel level unexpectedly decreases.

No. of Pages : 12 No. of Claims : 5

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Department of Industrial Policy and Promotion
Ministry of Commerce and Industry

Application Details

APPLICATION NUMBER	202041007612
APPLICATION TYPE	ORDINARY APPLICATION
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TITLE OF INVENTION	IOT BASED REAL-TIME FUEL EFFICIENCY AND MONITORING SYSTEM FOR A SMART VEHICLE USING MOBILE DEVICE
FIELD OF INVENTION	COMPUTER SCIENCE
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	23/02/2020
PUBLICATION DATE (U/S 11A)	28/02/2020

Application Status

View Documents

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/02/2020

(21) Application No.202041005771 A

(43) Publication Date : 21/02/2020

(54) Title of the invention : AUTOMATED NON INVASIVE BLOOD GROUP DETERMINATION AND CHOLESTEROL LEVEL USING IOT

(51) International classification :A61B0005000000,G01N0033800000,G01N0001300000,C07K0016340000,G01N0033580000

(31) Priority Document No :NA

(32) Priority Date :NA

(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

Filing Date :NA

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(57) Abstract :

The monitoring system of the patient's health status is a demanding job in the home. In particular, old age patients ought to checked regularly, and their dear most ones need to be stated during a work period about their health status periodically. An individual's blood group is composed of Red Blood Cell antigens, whose composition is determined by gene sequence, protein presence, and antigen structure. The proposed invention is a non-invasive approach to classify the blood cells group without perforating the tissue. Light serves as a channel for optical signals that can pass through the palm and measures the changing voltage. In this system, a smart patient health monitoring program is put forward, using sensors and microcontrollers to monitor patient health and send alert notifications to the mobile phone for the patient. Cholesterol levels, as well as blood glucose levels, are used in the application system, helps to keep continuous monitoring of patient health. The IoT-based patient health tracking system efficiently utilizes the Internet for monitoring to save patient's lives and their health to prevent emergencies. The approach provides a method for automatically determining the type of human blood by applying image processing algorithms to the optically obtained images of the skin surface underlying superficial capillaries. The technique embeds the Multi-Wavelength Light scattering system as light passes through capillaries to dynamically distinguish blood cells on the Red Blood Cell surface, based on specific antigens. The primary detector structure is created by the portable optical system (camera) along with the photo-detectors. Used to detect the distribution/pattern of scattered light produced by the blood cells to determine the type of blood without taking blood samples from the body. The proposed model intended to create an embedded system to execute blood tests based on Rh and ABO blood typing systems using Image Processing methods.

No. of Pages : 18 No. of Claims : 7

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GOVERNMENT OF INDIA

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Application Details

APPLICATION NUMBER	202041005771
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	10/02/2020
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TITLE OF INVENTION	AUTOMATED NON INVASIVE BLOOD GROUP DETERMINATION AND CHOLESTEROL LEVEL USING IOT
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	10/02/2020
PUBLICATION DATE (U/S 11A)	21/02/2020

Application Status

View Documents

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202031013658 A

(19) INDIA

(22) Date of filing of Application :28/03/2020

(43) Publication Date : 15/05/2020

(54) Title of the invention : SYSTEM AND METHOD FOR REAL TIME MONITORING AND PREDICTING HEART HEALTH PERFORMANCE

(51) International classification :A61B0005110000,A61B0005000000,G01N0033500000,G05B0023020000,A61B0005046400

(31) Priority Document No :NA

(32) Priority Date :NA

(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

Filing Date :NA

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7)Suresh Chandra Moharana

8)Anupama Baral

9)Asik Rahaman Jamader

(57) Abstract :

The present invention is related to a system and method for real time monitoring and predicting heart health performance. The principal objective of the present invention to solve the inadequacies in prior art related technologies and design of system for real time monitoring and predicting human heart health performance. The present system and method is used for detecting heart routine, description and irregularity herein. The system and method examine and illustrate cardiac current condition by electrophysiological signals that assist to analysis of arrhythmias in advance of a heart failure.

No. of Pages : 30 No. of Claims : 6

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GOVERNMENT OF INDIA

Controller General of Patents,Designs and Trademarks
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Application Details

APPLICATION NUMBER	202031013658
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	28/03/2020
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TITLE OF INVENTION	SYSTEM AND METHOD FOR REAL TIME MONITORING AND PREDICTING HEART HEALTH PERFORMANCE
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	15/05/2020

Application Status

View Documents

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/03/2020

(21) Application No.202011010525 A

(43) Publication Date : 20/03/2020

(54) Title of the invention : A CHATBOT FOR MENTAL HEALTH IMPROVEMENT OF STUDENTS USING NATURAL LANGUAGE PROCESSING AND SENTIMENT ANALYSIS

(51) International classification :H04L0029080000,G06F0016000000,H04N0021658000,G06Q0030060000,G06F0016680000
(31) Priority Document No :NA
(32) Priority Date :NA
(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
Filing Date :NA

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7)Himanshu Modi
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9)Sohan Saini

(57) Abstract :
The present invention is an attempt at developing a ChatBot that conducts conversation with people having extreme emotional surges and try to solve their problem. The person is not emotionally well and wants someone to talk to or is in need of some upliftment, can use this bot to play songs suited to their state. The system first offers a login and signup page then stores the user data in the database (MariaDB) maintaining their original profile. The user then can access the UI that allows an interaction with the chatbot. User™s inputs are sent as a request to Dialog Flow (JavaScript) and at the same time stored in database managed under their credentials. Dialogflow sends a response to the request. This data is then used for sentimental analysis and the user is provided with media content resonant to his mood. We are using Google™s DialogFlow which is the platform where you can create and train an Agent™ i.e. we specify the task to the model and teach it various phrases (data) that it needs to respond. When the data is fed, it applies ML algorithms to train itself and cover all different possibilities that could be thrown at it. We access DialogFlow by requesting it via JavaScript and it generates and sends a response back to us. The application also enables the user to access a wide variety of online services such as social media sites, payments or ticketing portals and web crawler provided by the chatbot, thus given a single platform for all services. The application is also capable of notifying the users close peers in case of any emergency such as sudden in mental state which is usually common in students living far from home.

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

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Ministry of Commerce & Industry,
Government of India

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Application Details

APPLICATION NUMBER	202011010525
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	12/03/2020
APPLICANT NAME	Ankit Kumar
TITLE OF INVENTION	A CHATBOT FOR MENTAL HEALTH IMPROVEMENT OF STUDENTS USING NATURAL LANGUAGE PROCESSING AND SENTIMENT ANALYSIS
FIELD OF INVENTION	COMMUNICATION
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	20/03/2020

Application Status

APPLICATION STATUS

Deemed to be withdrawn u/s 11B(4)

View Documents

Filed → Published → RQ Filed → Under Examination → Disposed

In case of any discrepancy in status, kindly contact ipo-helpdesk@nic.in

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/03/2020

(21) Application No.202041012885 A
(43) Publication Date : 08/05/2020

(54) Title of the invention : IOT BASED WATER QUALITY MONITORING FOR TEXTILE INDUSTRY

(51) International classification :G06Q0030020000,H04L0029080000,G06Q0050000000,G06Q0020380000,G06Q0020100000
(31) Priority Document No :NA
(32) Priority Date :NA
(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
Filing Date :NA

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(57) Abstract :
The Internet of Things (IoT) is an ecosystem in which objects, entities, or people have unique identities and the capacity to transmit data across a network without needing human-to-human or computer-to-computer contact. The IoT enables artifacts to be detected and remotely operated through current network networks, providing incentives for more effective incorporation of the real environment with computer-based structures, resulting in more exceptional performance, precision, and economic gain. IoT board with SIM900 GPRS modem to enable internet link also fitted with a controller to handle all GPRS-based online data from UART inputs. Data can be linked on a particular platform or social network from which the consumer may access the data.

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

INTELLECTUAL PROPERTY INDIA
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Application Details

APPLICATION NUMBER	202041012885
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	24/03/2020
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TITLE OF INVENTION	IOT BASEO WATER QUALITY MONITORING FOR TEXTILE INDUSTRY
FIELO OF INVENTION	COMPUTER SCIENCE
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	24/03/2020
PUBLICATION OATE (U/S 11A)	08/05/2020

Application Status

View Documents

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :14/03/2020

(21) Application No.202041010986 A

(43) Publication Date : 20/03/2020

(54) Title of the invention : IMAGE CAPTCHA CROPPING USING SYMBOLS (ICS)

(51) International classification :H04L0029060000,H04W0012120000,G06F0021550000,G05F0001660000,G06F001695800 0

(31) Priority Document No :NA

(32) Priority Date :NA

(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

Filing Date :NA

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(57) Abstract :

Web Security invention has grownup extremely vital over the years as the internet has become the place for the behavior of business in today™s world. Numerous attacks stated worldwide that hamper web security by creating a substantial threat to appreciate user data. One amid them is a phishing attack. It is a technique by which an attacker attempts to snip vital data such as user names, PINs, and other private facts by constructing fake websites and cover them as if they remained legitimate ones. This idea emphasizes on providing web security to the users guaranteed to use the site by using a new technique that is based on image cropping and imposing it on the user during registration to avert from phishing websites.

No. of Pages : 17 No. of Claims : 4

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Application Details

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APPLICATION TYPE	ORDINARY APPLICATION
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	14/03/2020
PUBLICATION DATE (U/S 11A)	20/03/2020

Application Status

View Documents

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041011771 A

(19) INDIA

(22) Date of filing of Application :18/03/2020

(43) Publication Date : 20/03/2020

(54) Title of the invention : SMART TRAFFIC SYSTEM FOR EMERGENCY VEHICLES USING IOT

(51) International classification :H04L0029080000,G06K0009000000,G08G0001070000,G09B0019140000,G08G0001095000

(31) Priority Document No :NA

(32) Priority Date :NA

(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

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(57) Abstract :

Exceptional issues of this new environment are governance in a wide community. It also implies an automated traffic control system, which was built utilizing the Internet of Things (IoT). A circuit mounted within the car, which operates for distributed networks using RFID, assists the network. The functionalities of the network include efficient control of traffic light and collect RFID data to encrypt the sense sent to deliver the receiver, which automatically modifies green light and parking space identification and the anti-theft security scheme. In addition, directed learning methodologies are implemented that can help assess the road level, calculate the total flow of traffic, estimate the average speed of specific cars and analyze the travelling path of a vehicle and cloud-based data connectivity to gather vehicle data.

No. of Pages : 16 No. of Claims : 3

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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	18/03/2020
PUBLICATION DATE (U/S 11A)	20/03/2020

Application Status

View Documents

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :07/04/2020

(21) Application No.202041015333 A

(43) Publication Date : 05/06/2020

(54) Title of the invention : SENSOR BASED SECURED BANK LOCKER SYSTEM THEREOF

(51) International classification :H04L0009320000,G06Q00500000000,G07F0017120000,G06F0021620000,H04L0009000000
(31) Priority Document No :NA
(32) Priority Date :NA
(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
Filing Date :NA

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(57) Abstract :
In today[TM]s world security plays important role. Each and every person has different accessories like gold, jewelry or cash so in our day today life the security is important to save our accessories. someone can steal our things in order to overcome we should have a highly security enhanced safety locker system. We can use this system in both public and private sector. We can offer them in cheap cost. In added advantage of this systems we have a camera, which is attached to the systems we can easily access the systems by both educated and illiterate people.

No. of Pages : 15 No. of Claims : 4

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Application Details

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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	07/04/2020
PUBLICATION DATE (U/S 11A)	05/06/2020

Application Status

View Documents

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/04/2020

(21) Application No.202011015819 A

(43) Publication Date : 15/05/2020

(54) Title of the invention : SENSOR BASED SYSTEM AND METHOD FOR AUTOMATIC MIRROR ADJUSTMENT IN VEHICLES

(51) International classification :B60R0001020000,G03F0007200000,B60R0001072000,B60R0001070000,G02B0027010000

(31) Priority Document No :NA

(32) Priority Date :NA

(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

Filing Date :NA

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(57) Abstract :
By utilizing the tilt sensor, this invention aims to adjust the mirror automatically when the handlebar will be in ninety degrees. Then the face of the driver who drives the vehicle is recognized and based on their height and other factors and the mirror will adjust on both sides of the handlebar. In case of an accident or the handlebar is not in ninety degrees then the mirror adjustment will be made automatically and the handle is also adjusted such that the driver can drive the vehicle comfortably. For the mirror adjustment, we have a stepper motor that will adjust the mirror-based on the required sides. The controller will give output to the motor to drive the mirror to the proper position for the luxurious drive.

No. of Pages : 15 No. of Claims : 4

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Application Details

APPLICATION NUMBER	202011015819
APPLICATION TYPE	ORDINARY APPLICATION
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	11/04/2020
PUBLICATION DATE (U/S 11A)	15/05/2020

Application Status

View Documents

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/05/2020

(21) Application No.202041020699 A
(43) Publication Date : 05/06/2020

(54) Title of the invention : IOT AND BLOCKCHAIN-ENABLED SMART E-VEHICLE CHARGING SYSTEM

(51) International classification	:H04L0029080000, A63F0003000000, G06Q0050060000, G07F0015000000, H04L0009320000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(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
Filing Date	:NA

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(57) Abstract :
As many nations are moving towards pollution-free traffic, electric vehicles are increasing greater prominence over the globe. Right now, the Internet of Things is applied worldview in the block-chain way to deal with handling the process of the electric vehicle of charging in shared spaces in the decentralized era, for example, cabins. The systems with the Internet of Things will rationalize the recital of electric vehicles charging and seeing the effects. A versatile application handles the customer system of authentication to start the process of charging for electric transportation, where numerous detectors are used to estimate vitality consumption and are dependent on the microcontroller, to build up information communication with the portable application. This technique is useful for transportation systems and V-DT systems. With the Internet of Things, we can undoubtedly manage the entire V-DT Technology, which will set aside moments and money. This sort of work is to occur made a smart app to bond with the matrix and for realizing the various charges of the framework. The duty charges will have all charges for the transmission of power to the form and the levy rate for the withdrawal of power from the network. State of Charge is estimated utilizing the Advanced RISC Machine Mbed controller, and it will transmit to the cloud. The application will likewise show the battery status of the client when he goes to the matrix. This anticipated system will progress the city arranging and makes everyday life simple. A block-chain handles money related transitions, and this methodology can be imitated to other electric vehicle charging situations, for example, an open system of charging in a city, where the cell phone gives an authentication component.

No. of Pages : 16 No. of Claims : 4

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Application Details

APPLICATION NUMBER	202041020699
APPLICATION TYPE	ORDINARY APPLICATION
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	05/06/2020

Application Status

View Documents

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/06/2020

(21) Application No.202041026105 A
(43) Publication Date : 10/07/2020

(54) Title of the invention : A LOW-COST 4G SMART PHONE DETECTOR AND JAMMER SYSTEM GSM - 900 MHZ AND 1800 MHZ FOR USING MATLAB SIMULINK

(51) International classification :H04K 3/00
(31) Priority Document No :NA
(32) Priority Date :NA
(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
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(57) Abstract :
This study presents the design, execution, and design testing. This invention introduced the first section of the device due to the limitations of the rest of the necessary components. However, the design and calculations were measured to complete the design. When correctly manufactured, the design is capable of simultaneously interfering with the GSM 900 and 1800 and thus jamming the three famous companies in India. This idea deals with the design and execution of the Denial of Service technique of the low-cost cellular phone detection system. The mobile phone detector is an RF-based sensor that monitors nearby RF activity. The Jammer generates an RF signal at the same frequency used with modulated noise with a power higher than that of the original signal by the communications carriers. This article presents an effective intelligent jammer design for jamming 4 G signals, especially band 3 and 40, which can be utilized primarily in India. Even though mobile phones are kept quiet, the circuit detects voice calls, message service, and video service. In any field in which the cell phone rings frequently cause nuisance, our GSM jamming system provides a cost-effective solution.

No. of Pages : 17 No. of Claims : 4

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Application Details

APPLICATION NUMBER	202041026105
APPLICATION TYPE	ORDINARY APPLICATION
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FIELD OF INVENTION	COMMUNICATION
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	10/07/2020

Application Status

View Documents

Australian Government

IP Australia

CERTIFICATE OF GRANT

INNOVATION PATENT

Patent number: 2020101562

The Commissioner of Patents has granted the above patent on 19 August 2020, and certifies that the below particulars have been registered in the Register of Patents.

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Title of invention:

Dated this 19th day of August 2020

Commissioner of Patents

Australian Government

IP Australia

CERTIFICATE OF GRANT

INNOVATION PATENT

Patent number: 2020101562

AN ARTIFICIAL INTELLIGENCE AND IOT BASED SYSTEM FOR MONITORING AND DETECTION OF ELECTRICITY THEFT

Name of inventor(s):

Kshirsagar, Pravin R.; Gulati, Kamal; Dadheech, Pankaj; Manjunath, T.C.; Muthusundari, S.; Sreenivasu, S.V.N.; Chandnani, Neeraj; Chandrasekaran, Saravanan; Kumar, Kailash; Chandra, Akkaraju Sailesh; Reddy, G. Divakara; Manju, J. R.; R., Harsha; Yaseen, Syed Mufassir and Yaqoob, Syed Irfan

Term of Patent:

Eight years from 29 July 2020

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.

Dated this 19th day of August 2020

Commissioner of Patents

Australian Government

IP Australia

CERTIFICATE OF GRANT

INNOVATION PATENT

Patent number: 2020101719

The Commissioner of Patents has granted the above patent on 2 September 2020, and certifies that the below particulars have been registered in the Register of Patents.

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Title of invention:

AN ARTIFICIAL INTELLIGENCE AND INTERNET OF THINGS BASED AUTOMATED SYSTEM FOR ANIMAL HEALTH CARE

Dated this 2nd day of September 2020

Commissioner of Patents

Australian Government

IP Australia

CERTIFICATE OF GRANT

INNOVATION PATENT

Patent number: 2020101719

Name of inventor(s):

Dadheech, Pankaj; Kshirsagar, Pravin R.; Devaru, Susheela Devi B.; Patil, Shamshekhar S.; Chaturvedi, Rekha; Kumar, Loveleen; Mohan, Anand; Ray, Abhra Pratip; Aljabr, Ahmad Abdullah; Kumar, Kailash; Tewari, Ranjana; Islam, Saiful; Gulati, Kamal; Neeli, Jyoti and H., Girish

Term of Patent:

Eight years from 7 August 2020

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.

Dated this 2nd day of September 2020

Commissioner of Patents

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/09/2020

(21) Application No.202041039505 A
(43) Publication Date : 25/09/2020

(54) Title of the invention : ACCURACY OF OPEN-AIR TEMPERATURE PREDICTION BY SMART WEATHER MONITORING SYSTEM FOR EFFECTIVE ANALYTICS USING IOT DEVICES

(51) International classification	:A01G0025160000, G06F0001200000, G09B0019000000, F24F0011630000, G01N0033240000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(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

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(57) Abstract :
IoT drives many manufacturing borders and is viewing itself as something technology that guarantees to raise the level of Big Data Analytics. This invention aimed at creating a prototype system that uses an embedded system to examine whether changes are using Raspberry Pi-Using small, low-cost, single-board computer systems used in IoT applications, we are beginning to explore new opportunities to optimize the correctness of seasonal temperature predictions. Our approach makes use of multiple linear regression and combines onboard processor temperature measurements from multiple SBCs with remote weather stations. The framework was able to monitor the climatic conditions, including humidity, temperature, soil moisture, heavy rains and light intensity. This proof of concept system is very helpful for farmers to control the farm, which is why almost where at any time, resulting in cost reduction, investment in resources and efficient farming methods.

No. of Pages : 10 No. of Claims : 3

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GOVERNMENT OF INDIA

Controller General of Patents,Designs and Trademarks
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Application Details

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APPLICATION TYPE	ORDINARY APPLICATION
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FIELD OF INVENTION	MECHANICAL ENGINEERING
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	25/09/2020

Application Status

View Documents

Australian Government

IP Australia

CERTIFICATE OF GRANT

INNOVATION PATENT

Patent number: 2020103157

The Commissioner of Patents has granted the above patent on 16 December 2020, and certifies that the below particulars have been registered in the Register of Patents.

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Title of invention:

AN ARTIFICIAL INTELLIGENCE BASED AUTOMATIC CLEANLINESS SYSTEM FOR PHYSICALLY HANDICAPPED PERSONS

Name of inventor(s):

Dated this 16th day of December 2020

Commissioner of Patents

Australian Government

IP Australia

CERTIFICATE OF GRANT

INNOVATION PATENT

Patent number: 2020103157

Chaturvedi, Anoop Kumar; Kumar, R. Lakshmana; Islam, Saiful; KHAN, NADEEM AHMAD; KHAN, AFZAL HUSAIN; Manjunath, T.C.; G., Pavithra; Kumar, Kailash; Veerakumar, K.; Gulati, Kamal; Bhasin, Narinder Kumar; Dadheech, Pankaj; Sankeerthana, R.; Chakravarthy, Srinivasa L.; Ghadiyaram, Anil Kumar and Panduri, Bharathi

Term of Patent:

Eight years from 31 October 2020

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.

Dated this 16th day of December 2020

Commissioner of Patents

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/11/2020

(21) Application No.202041051975 A
(43) Publication Date : 11/12/2020

(54) Title of the invention : A NOVEL IOT BASED DISINFECTANT SANITIZER TUNNEL

(51) International classification :H04L 29/08
(31) Priority Document No :NA
(32) Priority Date :NA
(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
Filing Date :NA

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(57) Abstract :
Millions of people around the world has been affected by the COVID-19 pandemic. It has become a global issue. The major priority of the scientific community is to control this pandemic. . This invention describes a strong IoT based disinfectant tunnel as shown in fig (1) which is used to disinfect external surface of objects , clothes or even human skin to provide protection against COVID-19 in social or public places such as malls, schools, hospitals, airports , and offices. Primarily focusing on the significance, structural design and functioning of the tunnel. To make the tunnel cost-effective and sustainable solar panels and steel rods have been used. The disinfectant tunnel is highly efficient and automatic as it offers no contact disinfectinn or sanitization. This sensitization tunnel must detect human to sanitize, this invention illustrates a novel approach of using sensors for human detection and since this project is based on IoT as backbone so security model must be there to guard against malicious user. This invention also illustrates end-to-end security model. Sodium Hypochlorite solution is sprayed in the tunnels as It can be of two types namely dynamic and static and The person will be rotated inside the station for 10-15 min which is a static model with the disinfectant sprayed through nozzles arranged in a whole of the circumference. End-to-End Encryption model in IoT security is deployed which consists of authenticated encryption with forward secrecy and backward compatibility and it uses MAC , HMAC algorithms and multiple encryptions of blocks with modes of operations such as CBC.

No. of Pages : 11 No. of Claims : 8

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GEOGRAPHICAL INDICATIONS

GOVERNMENT OF INDIA

Controller General of Patents,Designs and Trademarks
Department of Industrial Policy and Promotion
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Application Details

APPLICATION NUMBER	202041051975
APPLICATION TYPE	ORDINARY APPLICATION
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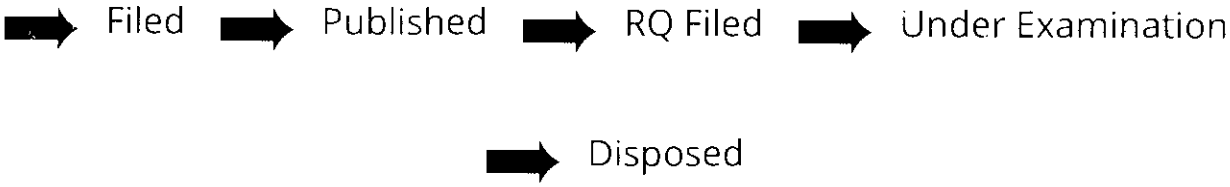
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	11/12/2020

Application Status

APPLICATION STATUS	**Awaiting Request for Examination**

View Documents



(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :19/11/2020

(21) Application No.202011050375 A
(43) Publication Date : 04/12/2020

(54) Title of the invention : VR BASED PSYCHOLOGICAL AND PHYSICAL TRAINING TO GIRLS FOR SELF-DEFENSE

(51) International classification :A61K 33/42 A61K 33/00 G02C 5/00
(31) Priority Document No :NA
(32) Priority Date :NA
(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
Filing Date :NA

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(57) Abstract :
It"s not just physical strength that helps us come out of a situation gracefully; mental strength has an upper edge in almost all situations. When it comes to girls" safety, many girls come across situations where they are harassed physically, be it rape or physical torture by in-laws (many cases registered). It is so unexpected to them that they freak out badly and tend to surrender many a time. Even if many try to act brave but still, psychological trauma acts against their capability to defend and escape. Thus, a 3D VR kind of wearable devices where they can be taught about right touch and lousy touch added on with proper defense would keep our girls mentally and physically ready. The training is practical since 3D makes us feel the situation and not just see, which is psychological and physical training. 3D can be increased to some higher dimensions like 4D also for better results. These 3D models can train them about how attackers attack, and when they often see about attacker"s tactics and the way they attack in 3D, their mind will be trained if something unexpected happens in the future.

No. of Pages : 9 No. of Claims : 4

INTELLECTUAL PROPERTY INDIA
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GOVERNMENT OF INDIA

Controller General of Patents,Designs and Trademarks
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Application Details

APPLICATION NUMBER	202011050375
APPLICATION TYPE	ORDINARY APPLICATION
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FIELD OF INVENTION	PHARMACEUTICALS
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	04/12/2020

Application Status

APPLICATION STATUS **Awaiting Request for Examination**

View Documents

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :19/11/2020

(21) Application No.202041050337 A
(43) Publication Date : 27/11/2020

(54) Title of the invention : A SMART WALKING SYSTEM FOR THE ELDERLY AND BLIND

(51) International classification :A61H3/061
(31) Priority Document No :NA
(32) Priority Date :NA
(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
Filing Date :NA

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(57) Abstract :
This invention proposes a smart walking stick system mostly made keeping the elderly in mind. With age comes diminishing memory and many more problems that seek support for both balance and navigation- cognitive and motor functions are diminished. Science and technology always make human life more comfortable. Our application is the go solution. A smart walking system that helps them navigate through life! Additional perks are that it can monitor heart rate and send out alerts to the nearest hospital while also alarming the people around for additional help. It also helps them cross the roads in a better and much safer way. Reminders for taking medicines in time/ general reminders can also be provided. We understand that the elderly might even have a feeble sense of vision. Keeping that in mind, we will be constructing a microcontroller-based automated software that can corroborate a blind person to detect obstacles in front of him immediately. We implement this using ad-hnc networks.

No. of Pages : 16 No. of Claims : 3

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सत्यमेव जयते
GOVERNMENT OF INDIA

Controller General of Patents,Designs and Trademarks
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Application Details

APPLICATION NUMBER	202041050337
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	19/11/2020
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TITLE OF INVENTION	A SMART WALKING SYSTEM FOR THE ELDERLY AND BLIND
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	27/11/2020

Application Status

APPLICATION STATUS **Awaiting Request for Examination**

View Documents

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/12/2020

(21) Application No.202041053003 A
(43) Publication Date : 11/12/2020

(54) Title of the invention : OPEN SOURCE INTERNET OF TANGIBLE THINGS BASED SMART DEVICE FOR CHILDREN WITH HEARING LOSS USING WI-FI COMMUNICATION

(51) International classification :H04W 88/06
(31) Priority Document No :NA
(32) Priority Date :NA
(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
Filing Date :NA

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12)Dr. Pankaj Dadheech

(57) Abstract :
Presently, this one has been anticipated that over a thousand means an AC. The utilization of social services can allow children with disabilities increasingly dependent on their parents, which discourages ACs from being socially and financially dynamic. AI should provide the encouragement and guidance deemed necessary for individuals with autism to achieve a good standard of living. This system allows the AC to monitor the home using computer devices from almost anywhere and at any moment. If the sensor value exceeds the maximum system of values, the person should be informed, and the demanded sensitivity should be controlled. Notifications and other data are sent through the web to user groups.

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

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GOVERNMENT OF INDIA

Controller General of Patents,Designs and Trademarks
Department of Industrial Policy and Promotion
Ministry of Commerce and Industry

Application Details

APPLICATION NUMBER	202041053003
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	05/12/2020
APPLICANT NAME	1 . Dr. P.Vijaya Vani 2 . Ms.D.Tabhita 3 . Dr.D.Krupa Daniel 4 . Dr.R.Muthukkumar 5 . Dr. J.Vellingiri 6 . Dr. Jagadeesh Gopal 7 . Dr. K.Arivuselvan 8 . Dr. J.Kamalakannan 9 . Dr.J.Gitanjali 10 . Mr. Vishwa Pratap Singh 11 . Dr. S.R.Dogiwal 12 . Dr. Pankaj Dadheech
TITLE OF INVENTION	OPEN SOURCE INTERNET OF TANGIBLE THINGS BASED SMART DEVICE FOR CHILDREN WITH HEARING LOSS USING WI-FI COMMUNICATION
FIELD OF INVENTION	COMMUNICATION
E-MAIL (As Per Record)	vijayavanipachala@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	11/12/2020

Application Status

APPLICATION STATUS **Awaiting Request for Examination**

Office of the Controller General of Patents, Designs & Trade Marks
Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India

(http://ipindia.nic.in/index.htm)

INTELLECTUAL PROPERTY INDIA
PATENTS DESIGNS TRADE MARKS GEOGRAPHICAL INDICATIONS

(http://ipindia.nic.in/index.htm)

Application Details

APPLICATION NUMBER	202011044614
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	13/10/2020
APPLICANT NAME	1 . Swami Keshvanand Institute of Technology, Management and Gramothan 2 . Kiran Rathi 3 . Pooja Choudhary
TITLE OF INVENTION	A DEVICE FOR SOLDERING ELECTRONIC COMPONENTS BY REFLOW SOLDERING TECHNIQUE AND THE PROCESS THEREOF
FIELD OF INVENTION	ELECTRONICS
E-MAIL (As Per Record)	ipconstellation@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	07/01/2021
PUBLICATION DATE (U/S 11A)	23/10/2020
FIRST EXAMINATION REPORT DATE	04/01/2022
Date Of Certificate Issue	24/09/2024
POST GRANT JOURNAL DATE	27/09/2024
REPLY TO FER DATE	04/06/2022

Application Status

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
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सत्यमेव जयते

क्रम सं/SL No :011215202

पेटेंट कार्यालय,भारत सरकार | The Patent Office, Government Of India

पेटेंट प्रमाण पत्र | Patent Certificate

(पेटेंट नियमावली का नियम 74) | (Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No.	:	550865
आवेदन सं. / Application No.	:	202011044614
फाइल करने की तारीख / Date of Filing	:	13/10/2020
पेटेंटी / Patentee	:	1.Swami Keshvanand Institute of Technology, Management and Gramothan 2.Kiran Rathi 3.Pooja Choudhary

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित *A DEVICE FOR SOLDERING ELECTRONIC COMPONENTS BY REFLOW SOLDERING TECHNIQUE AND THE PROCESS THEREOF* नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख अक्टूबर 2020 के तेरहवें 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 *A DEVICE FOR SOLDERING ELECTRONIC COMPONENTS BY REFLOW SOLDERING TECHNIQUE AND THE PROCESS THEREOF* as disclosed in the above mentioned application for the term of 20 years from the 13th day of October 2020 in accordance with the provisions of the Patents Act,1970.

अनुदान की तारीख : 24/09/2024
Date of Grant :

उन्नत मी पंडित
पेटेंट नियंत्रक
Controller of Patents

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, अक्टूबर 2022 के तेरहवें 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 13th day of October 2022 and on the same day in every year thereafter.

Office of the Controller General of Patents, Designs & Trade Marks
Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India

(http://ipindia.nic.in/index.htm)

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS | GEOGRAPHICAL INDICATIONS
(http://ipindia.nic.in/index.htm)

Application Details

APPLICATION NUMBER	202311032112
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	05/05/2023
APPLICANT NAME	SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY, MANAGEMENT & GRAMOTHAN
TITLE OF INVENTION	ANIMAL HEALTH MONITORING SYSTEM AND METHOD
FIELD OF INVENTION	COMMUNICATION
E-MAIL (As Per Record)	patents@pna-ip.com
ADDITIONAL-EMAIL (As Per Record)	patents@pna-ip.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	14/07/2023
PUBLICATION DATE (U/S 11A)	28/07/2023

Application Status

APPLICATION STATUS

Application referred u/s 12 for examination.

View Documents

Office of the Controller General of Patents, Designs & Trade Marks
Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India

(http://ipindia.nic.in/index.htm)

INTELLECTUAL PROPERTY INDIA (http://ipindia.nic.in/index.htm)

Application Details

APPLICATION NUMBER	202311032570
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	08/05/2023
APPLICANT NAME	SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY, MANAGEMENT & GRAMOTHAN
TITLE OF INVENTION	A SMART IRRIGATION SYSTEM FOR MONITORING AND CONTROLLING SOIL QUALITY AND ENVIRONMENTAL PARAMETERS
FIELD OF INVENTION	MECHANICAL ENGINEERING
E-MAIL (As Per Record)	patents@pna-ip.com
ADDITIONAL-EMAIL (As Per Record)	patents@pna-ip.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	14/07/2023
PUBLICATION DATE (U/S 11A)	28/07/2023

Application Status

APPLICATION STATUS

Application Awaiting Examination

View Documents

ORIGINAL

मूल/No : 120061

सत्यमेव जयते

भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE

डिज़ाइन के पंजीकरण का प्रमाणपत्र
CERTIFICATE OF REGISTRATION OF DESIGN

डिजाइन सं. / Design No.	:	350381-001
तारीख / Date	:	29/09/2021
पारस्परिकता तारीख / Reciprocity Date*	:	
देश / Country	:	

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **A SOLAR SECURITY CAMERA SYSTEM** से संबंधित है, का पंजीकरण, श्रेणी **16-01** में 1.Dr. Monika Mathur 2. Ms.Kiran Rathi 3.Ms.Rajni Idiwal 4.Ms. Priyanka Sharma के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class **16-01** in respect of the application of such design to **A SOLAR SECURITY CAMERA SYSTEM** in the name of 1.Dr. Monika Mathur 2. Ms.Kiran Rathi 3.Ms.Rajni Idiwal 4.Ms. Priyanka Sharma.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्यधीन प्रावधानों के अनुसरण में।

In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

निर्गमन की तारीख/Date of Issue : 16/12/2022

महानियंत्रक पेटेंट डिजाइन और व्यापार चिह
Controller General of Patents, Designs and Trade Marks

पारस्परिकता तारीख (यदि कोई हो) जिसकी अनुमति देश के नाम पर की गई है। डिजाइन का सत्त्वाधिकार पंजीकरण की तारीख से दस वर्षों के लिए होगा जिसका विस्तार, अधिनियम एवं नियम के निबंधनों के अधीन, पाँच वर्षों की अतिरिक्त अवधि के लिए किया जा सकेगा। इस प्रमाण पत्र का उपयोग विधिक कार्यवाहियों अथवा विदेश में पंजीकरण प्राप्त करने के लिए नहीं हो सकता है।

*The reciprocity date (if any) which has been allowed and the name of the country.Copyright in the design will subsist for ten years from the date of Registration, and may under the terms of the Act and Rules, be extended for a further period of five years.This Certificate is not for use in legal proceedings or for obtaining registration abroad.

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Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India

(http://ipindia.nic.in/index.htm)

INTELLECTUAL PROPERTY INDIA (http://ipindia.nic.in/index.htm)

Application Details

APPLICATION NUMBER	202411006632
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	31/01/2024
APPLICANT NAME	1 . Dr. Urmila Yadav 2 . Mrs. Keerthi HK 3 . Dr. Monica M 4 . Dr. Lakshmi P 5 . Mrs.Jhansi Rani Atluri 6 . Dr. Ajitha. S 7 . Dr. Vaishali Kothiya 8 . Dr. Jyoti Dange 9 . Shubhi Jain 10 . Ms. Shubhi Srivastava
TITLE OF INVENTION	A NOVEL HUMAN RESOURCE MANAGEMENT SYSTEM AND EMPLOYEE COMPENSATION PLANNING SYSTEM
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	mail2patentipr@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	09/02/2024

Application Status

INTELLECTUAL PROPERTY INDIA
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सत्यमेव जयते
GOVERNMENT OF INDIA

Controller General of Patents,Designs and Trademarks
Department of Industrial Policy and Promotion
Ministry of Commerce and Industry

Design Application Details

Application Number:

392824-001

Cbr Number:

210242

Cbr Date:

16/08/2023 15:43:20

Applicant Name:

1. Dr.Munish Manas **2. Prof.Akash Saxena** **3. Dr.Shalini Shekhawat**

Design Application Status

Application Status:

Design Accepted and Published, Journal No is 43/2023 and Journal Date is 27/10/2023

Back (/DesignApplicationStatus/)

Disclaimer: Application status is available for the application filed on or after 1st April 2009 with application no 222230.The information under " Design Application Status" is dynamically retrieved and is under testing, therefore the information retrieved by this system is not valid for any legal proceedings under the Design Act 2000. In case of any discrepancy you may contact the appropriate Patent Office or send your comments to following email IDs:

Design Office, Kolkata : controllerdesign[dot]ipo[at]nic[dot]in
Controller General of Patents, Designs and Trademarks

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सत्यमेव जयते
GOVERNMENT OF INDIA

Controller General of Patents,Designs and Trademarks
Department of Industrial Policy and Promotion
Ministry of Commerce and Industry

Design Application Details

Application Number:

417813-001

Cbr Number:

208891

Cbr Date:

23/05/2024 19:34:50

Applicant Name:

1. Manoj Raman **2. Praveen Kumar Yadav** **3. Ritu Shukla** **4. Vipin Jain**
5. Shikha Shrivastava **6. Astha Joshi**

Design Application Status

Application Status:

Design Accepted and Published, Journal No is 27/2024 and Journal Date is 05/07/2024

Back (/DesignApplicationStatus/)

Disclaimer: Application status is available for the application filed on or after 1st April 2009 with application no 222230.The information under " Design Application Status" is dynamically retrieved and is under testing, therefore the information retrieved by this system is not valid for any legal proceedings under the Design Act 2000. In case of any discrepancy you may contact the appropriate Patent Office or send your comments to following email IDs:

Design Office, Kolkata : controllerdesign[dot]ipo[at]nic[dot]in

Controller General of Patents, Designs and Trademarks

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सत्यमेव जयते
GOVERNMENT OF INDIA

Controller General of Patents,Designs and Trademarks
Department of Industrial Policy and Promotion
Ministry of Commerce and Industry

Design Application Details

Application Number:

425630-001

Cbr Number:

213723

Cbr Date:

02/08/2024 17:57:57

Applicant Name:

1. Praveen Kumar Yadav **2. Manoj Raman** **3. Ritu Shukla** **4. Astha Joshi**
5. Abha Jain **6. Dr. Richa Rawal** **7. Sanju Choudhary** **8. Shikha Shrivastava**

Design Application Status

Application Status:

Design Accepted and Published, Journal No is 39/2024 and Journal Date is 27/09/2024

Back (/DesignApplicationStatus/)

Disclaimer: Application status is available for the application filed on or after 1st April 2009 with application no 222230.The information under " Design Application Status" is dynamically retrieved and is under testing, therefore the information retrieved by this system is not valid for any legal proceedings under the Design Act 2000. In case of any discrepancy you may contact the appropriate Patent Office or send your comments to following email IDs:

Design Office, Kolkata : controllerdesign[dot]ipo[at]nic[dot]in

Controller General of Patents, Designs and Trademarks

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/05/2023

(21) Application No.202311032111 A
(43) Publication Date : 28/07/2023

(54) Title of the invention : A SMART COMPACT SOLAR FOOD DRYER

(51) International classification	:C11D 170400, F21S 090300, F26B 032800, H01L 310224, H02J 073500
(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)SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY, MANAGEMENT & GRAMOTHAN
Address of Applicant :RAMNAGARIA, JAGATPURA, JAIPUR – 302017, RAJASTHAN, INDIA Jaipur ---------- ----------
2)Ankit Kumar Agarwal
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Ankit Kumar Agarwal
Address of Applicant :Swami Keshvanand Institute of Technology, Management & Gramothan, Ramnagaria, Jagatpura, Jaipur – 302017, Rajasthan, India Jaipur ---------- ----------
2)Dr. Chandan Kumar
Address of Applicant :Swami Keshvanand Institute of Technology, Management & Gramothan, Ramnagaria, Jagatpura, Jaipur – 302017, Rajasthan, India Jaipur ---------- ----------
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5)Dr. B. Tripathi
Address of Applicant :Rajasthan Technical University, Kota, 324010 Kota ---------- ----------
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Address of Applicant :Swami Keshvanand Institute of Technology, Management & Gramothan, Ramnagaria, Jagatpura, Jaipur – 302017, Rajasthan, India Jaipur ---------- ----------
7)Hemant Jangid
Address of Applicant :Swami Keshvanand Institute of Technology, Management & Gramothan, Ramnagaria, Jagatpura, Jaipur – 302017, Rajasthan, India Jaipur ---------- ----------

(57) Abstract :
The present invention provides a smart compact solar food dryer which comprises a drying chamber (1) comprises of an inlet air flow controlling valve (7); an air blower (6); a perforated thermal energy storage tray (3), and a product drying tray (2); a metal tube mounted at the bottom of the said drying chamber; an opening/closing lid (10); four supporting round metal stand; a plurality of copper (5) and evacuated tubes (6); and an air discharging chimney (9) wherein the said atmospheric air gets heated from the solar radiation passing through inner aluminium nitride coated glass tube and copper tubes and the said heated air reaches the bottom of the said drying chamber to provide the heat to the said perforated trays so as to absorbs the moistures from the food of the drying tray and then exiting from the said air discharging chimney.

No. of Pages : 14 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/01/2023

(21) Application No.202311004379 A
(43) Publication Date : 03/02/2023

(54) Title of the invention : AUTOMATIC ROBOTIC SANITIZER

(51) International classification :F24F0006120000, B05B0017060000, A61L0002100000, B25J0009160000, B25J0015000000
(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)SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY, MANAGEMENT & GRAMOTHAN
Address of Applicant :RAM NAGARIYA RD, SHIVAM NAGAR, JAGATPURA, JAIPUR, RAJASTHAN 302017, INDIA Jaipur ----------
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Dr. Achin Srivastav
Address of Applicant :Swami Keshvanand Institute of Technology, Management & Gramothan - Ram Nagariya Rd, Shivam Nagar, Jagatpura, Jaipur, Rajasthan 302017, INDIA Jaipur ---------- ----------
2)Rishabh Shrivastava
Address of Applicant :Swami Keshvanand Institute of Technology, Management & Gramothan - Ram Nagariya Rd, Shivam Nagar, Jagatpura, Jaipur, Rajasthan 302017, INDIA Jaipur ---------- ----------
3)Rajan Sharma
Address of Applicant :Swami Keshvanand Institute of Technology, Management & Gramothan - Ram Nagariya Rd, Shivam Nagar, Jagatpura, Jaipur, Rajasthan 302017, INDIA Jaipur ---------- ----------
4)Puncet Kumawat
Address of Applicant :Swami Keshvanand Institute of Technology, Management & Gramothan - Ram Nagariya Rd, Shivam Nagar, Jagatpura, Jaipur, Rajasthan 302017, INDIA Jaipur ---------- ----------
5)Mannat Mehta
Address of Applicant :Swami Keshvanand Institute of Technology, Management & Gramothan - Ram Nagariya Rd, Shivam Nagar, Jagatpura, Jaipur, Rajasthan 302017, INDIA Jaipur ---------- ----------
6)Nancy Kamthan
Address of Applicant :Swami Keshvanand Institute of Technology, Management & Gramothan - Ram Nagariya Rd, Shivam Nagar, Jagatpura, Jaipur, Rajasthan 302017, INDIA Jaipur ---------- ----------
7)Pradyuman Chaudhary
Address of Applicant :Swami Keshvanand Institute of Technology, Management & Gramothan - Ram Nagariya Rd, Shivam Nagar, Jagatpura, Jaipur, Rajasthan 302017, INDIA Jaipur ---------- ----------

(57) Abstract :
The present invention relates to an automatic robotic sanitizer, comprising: a plurality of assembly components comprising of: a plurality of wheels of the said robotic sanitizer; a hex coupler with hexagonal socket at one side and hollow end at the other side of the said coupler; an ultrasonic humidifier piezoelectric transmitter module with an atomizing chip; a magnetic float sensor with a reed switch; a submersible motor pump with a pipe; a motor driver for controlling two brushed DC motors with high current; a wooden base with attached castor wheels; an upper sanitizing unit body of the said robot with a UV disinfecting chamber and a UV LED; a DC motor; a plurality of sets of batteries; a bi-colour LED cathode; a plurality of ultrasonic distance sensors; a microcontroller board; a spray unit with a mist maker; and an infra-red sensor for emitting and detecting infrared radiations.

No. of Pages : 21 No. of Claims : 18

INTELLECTUAL PROPERTY INDIA

क्रम सं SL No 01116495I

पेटेंट कार्यालय,भारत सरकार | The Patent Office, Government Of India

पेटेंट प्रमाण पत्र | Patent Certificate

(पेटेंट नियमावली का नियम 74) (Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No.	:	440954
आवेदन सं. / Application No.	:	201811020033
फाइल करने की तारीख / Date of Filing	:	29/05/2018
पेटेंटी / Patentee	:	1.Ashish Nayyar 2.Praveen Saraswat 3.Rajendra Singh Chundawat 4.Keshav Gupta

प्रमाणित किया जाता है कि पेटेंटी को उपरोक्त आवेदन में यथाप्रकटित *SYSTEM TO PROVIDE AUTOMATIC GEAR CHANGE AND THROTTLE COUPLED TO GEAR LEVER OF SPORTS VEHICLE* नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख मई 2018 के उन्नतीसवें 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 *SYSTEM TO PROVIDE AUTOMATIC GEAR CHANGE AND THROTTLE COUPLED TO GEAR LEVER OF SPORTS VEHICLE* as disclosed in the above mentioned application for the term of 20 years from the 29th day of May 2018 in accordance with the provisions of the Patents Act,1970.

अनुदान की तारीख : 27/07/2023
Date of Grant :

पेटेंट नियंत्रक
Controller of Patents

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, मई 2020 के उन्नतीसवें दिन को और उसके पश्चात प्रत्येक वर्ष में उसी दिन देय होगी।

Note. - The fees for renewal of this patent, if it is to be maintained, will fall / has fallen due on 29th day of May 2020 and on the same day in every year thereafter.

*चूंकि पेटेंटी व आविष्कारकों की संख्या अधिक है, पेटेंटी व आविष्कारकों के नाम पृष्ठ संख्या 2 पर जारी है.
*Since the Number of Patentees / Inventors is more, the name of Patentees / Inventors are continued on Page No. 2

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INTELLECTUAL PROPERTY INDIA
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सत्यमेव जयते

क्रम सं/SL No :011169726

पेटेंट कार्यालय,भारत सरकार | The Patent Office, Government Of India

पेटेंट प्रमाण पत्र | Patent Certificate

(पेटेंट नियमावली का नियम 74) | (Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No.	:	451647
आवेदन सं. / Application No.	:	202011044179
फाइल करने की तारीख / Date of Filing	:	10/10/2020
पेटेंटी / Patentee	:	1.Amit Jhalani 2.Dr. Dilip Sharma 3.Dr. S.L. Soni

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित *FORMULATION OF A NEWLY SYNTHESIZED GOMUTRA-IN-DIESEL EMULSION* नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख अक्टूबर 2020 के दसवें 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 *FORMULATION OF A NEWLY SYNTHESIZED GOMUTRA-IN-DIESEL EMULSION* as disclosed in the above mentioned application for the term of 20 years from the 10th day of October 2020 in accordance with the provisions of the Patents Act,1970.

अनुदान की तारीख :
Date of Grant : 14/09/2023

पेटेंट नियंत्रक
Controller of Patents

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, अक्टूबर 2022 के दसवें 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 10th day of October 2022 and on the same day in every year thereafter.

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/02/2021

(21) Application No.202141006550 A
(43) Publication Date : 26/02/2021

(54) Title of the invention : UTILIZATION OF BURR WASTES AS MICRO-REINFORCEMENTS IN CONCRETE TO OVERCOME DISPOSAL OF HAZARDOUS MATERIALS IN GLOBAL ENVIRONMENT

(51) International classification	:C04B0014020000, C04B0018140000, C08L0023020000, B28B0023020000, D07B0005000000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(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
Filing Date	:NA

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5)Mr.Akshay.K.Uday
6)Dr.D.S.Vijayan
7)Mr.D.Antony Prabu
8)Dr.G.Vijayakumar
9)Dr.V.Manikandan
10)Dr.S.Sudhakar
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7)Mr.D.Antony Prabu
8)Dr.G.Vijayakumar
9)Dr.V.Manikandan
10)Dr.S.Sudhakar

(57) Abstract :
Concrete is the basic engineering material used in most civil constructions. It is extremely used because of the ability to possess high compressive strength and be molded into any desired shape. In order to overcome the poor tensile strength of concrete, fibers are introduced in the matrix. In this idea, burr wastes obtained from the CNC turning process in the lathe industry were disposed of as wastes in open lands in the industries' proximity, causing a hazard to the environment. Hence, these wastes were tested as fiber material in the form of micro-reinforcements in the concrete. Burr wastes were added to the concrete in volume fractions Vf=0%, 0.5%, 1.0%, 1.5% and 2.0% and tested for its compressive, split tensile and flexural strength. The experimental test results revealed that the compressive and flexural strength of burr waste concrete increased from 16.16% to 23.36% and 117% to 124%, respectively, for Vf = 0.5% to 2.0% at 28 days strength in comparison with concrete made without burr waste. The tensile strength of burr waste concrete increased up to 6.06% for Vf = 0.5% at 28 days strength when compared to conventional concrete. The experimental investigation observed that the addition of burr wastes as micro reinforcements in the concrete had significant improvement in concrete strength.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/06/2020

(21) Application No.202041026847 A
(43) Publication Date : 10/07/2020

(54) Title of the invention : DURABILITY RESPONSE OF HIGH-PERFORMANCE CONCRETE WITH METAKAOLIN AND RICE HUSK ASH

(51) International classification :B01J 29/08
(31) Priority Document No :NA
(32) Priority Date :NA
(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
Filing Date :NA

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12)Dr.S.Sudhakar
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5)Dr.V.S.Sethuraman
6)Dr.L.K.Rex
7)Dr.R.Vidya
8)Mr.P.Dinesh Kumar
9)Mr.S.Ramesh
10)Mr.Akash Johari
11)Dr.P.Rajaram
12)Dr.S.Sudhakar

(57) Abstract :
Concrete is a widely used construction material in developing and developed countries in a structure. After several research results across different countries, the growth of concrete is eyed forward towards the growth of its performance. This high-performance concrete holds the different enhanced properties in it, such as durability by proving resistive to chemically varying atmosphere, reduction of CO2 by reducing the amount of cement, increased Ecology balance by balancing natural resources consumption. The vision of this invention extends towards the effect of mineral admixtures on the durability properties of high-performance concrete. To attend effective results such as low porosity, low water absorption, sorptivity, and proportioning of materials has always been the key parameters. M60 grade of concrete used in this experimental work. Curing is done to 3, 7, 14, 28, 56, and 90 days with 3 sample blocks for each curing period. This different mixture of concrete preferred upon further tests where the durability is determined cautiously. The durability properties of partially replaced cement are studied based on compressive strength, water absorption, porosity, and sorptivity. From the studies conducted, it observed that metakaolin and rice husk ash play a vital role in improving the durability of concrete at a later stage and improving the compressive strength at an early age.

No. of Pages : 18 No. of Claims : 4

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Office of the Controller General of Patents, Designs & Trade Marks
Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India

(http://ipindia.nic.in/index.htm)

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

(http://ipindia.nic.in/index.htm)

Application Details

APPLICATION NUMBER	202211056275
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	30/09/2022
APPLICANT NAME	1 . GATTANI, Dr. Manoj Kumar 2 . GATTANI, Sunita
TITLE OF INVENTION	CLEANING DEVICE FOR CLEANING KITCHEN UTENSILS
FIELD OF INVENTION	CHEMICAL
E-MAIL (As Per Record)	gipindia.ipr@gmail.com
ADDITIONAL-EMAIL (As Per Record)	kmalhotra1901@gmail.com
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	20/10/2022
PUBLICATION DATE (U/S 11A)	04/11/2022
FIRST EXAMINATION REPORT DATE	25/01/2023
Date Of Certificate Issue	20/10/2023
POST GRANT JOURNAL DATE	27/10/2023
REPLY TO FER DATE	24/07/2023

Application Status

Australian Government

IP Australia

CERTIFICATE OF GRANT

INNOVATION PATENT

Patent number: 2021105548

The Commissioner of Patents has granted the above patent on 3 November 2021, and certifies that the below particulars have been registered in the Register of Patents.

Name and address of patentee(s):

Pooja Jain of Swami Keshvanand Institute of Technology, Management and Gramothan Jaipur Rajasthan India

Akash Saxena of Swami Keshvanand Institute of Technology, Management and Gramothan Jaipur Rajasthan India

Ankit Sharma of University of Engineering & Management Jaipur Rajasthan India

Bhanu Soni of University of Engineering & Management Jaipur Rajasthan India

Shalini Shekhawat of Swami Keshvanand Institute of Technology, Management and Gramothan Jaipur Rajasthan India

Title of invention:

Multi Agent Systems for Intelligent bidding price selection for profit accumulation.

Name of inventor(s):

Jain, Pooja; Saxena, Akash; Sharma, Ankit; Soni, Bhanu and Shekhawat, Shalini

Term of Patent:

Eight years from 15 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.

Dated this 3rd day of November 2021

Commissioner of Patents

Office of the Controller General of Patents, Designs & Trade Marks
Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India

(http://ipindia.nic.in/index.htm)

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS | GEOGRAPHICAL INDICATIONS

(http://ipindia.nic.in/index.htm)

Application Details

APPLICATION NUMBER	202211052282
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	13/09/2022
APPLICANT NAME	1 . Jitendra Kurmi 2 . Dr. Dilip Kumar Sharma 3 . M. K. Sharma 4 . Dr. Ajendra Sharma 5 . Dr. Sanjeev Kumar 6 . Nitesh Dhiman 7 . Dr. Omkar Suresh Vaidya 8 . Dr. Ruchi Gupta 9 . Dr. Subba Rao Polamuri 10 . Ankit Porwal 11 . Priyanka Sharma 12 . Ajay Bhardwaj
TITLE OF INVENTION	MACHINE LEARNING-BASED METHODOLOGY FOR DATABASE MIGRATION IN CLOUD COMPUTING ENVIRONMENT
FIELD OF INVENTION	COMPUTER SCIENCE
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	16/09/2022

Application Status

Office of the Controller General of Patents, Designs & Trade Marks
Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

(http://ipindia.nic.in/index.htm)

INTELLECTUAL PROPERTY INDIA (http://ipindia.nic.in/index.htm)

Application Details

APPLICATION NUMBER	202311012501
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	23/02/2023
APPLICANT NAME	SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY, MANAGEMENT & GRAMOTHAN
TITLE OF INVENTION	A SMART SYSTEM FOR AUTOMATIC SEGREGATION AND RECYCLING OF BIODEGRADABLE WASTE AND A METHOD OF THEREOF
FIELD OF INVENTION	MECHANICAL ENGINEERING
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	22/03/2023
PUBLICATION DATE (U/S 11A)	17/03/2023

Application Status

APPLICATION STATUS **Application Awaiting Examination**

View Documents

Australian Government

IP Australia

Register of Patents

Patents Act 1990

Innovation Patent Patent no: 2021104782

Patentee(s):	Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT) of Ramnagaria Jagatpura Jaipur Rajasthan 302017 India
Inventor(s):	Jain, Praveen Kumar Choudhary, Pooja Agarwal, Ankit Singh, Satendra Zafar, Rukhsar Arora, Swati Saharia, Ankur Janu, Neha Choudhary, Manju Jain, Pooja
Title:	Internet of Things (IoT) sensors-based system for child monitoring & method therenf
Term:	Eight years from 1 August 2021
Date Granted:	22 September 2021
Date Certified:	
Date of Patent:	1 August 2021
Status:	GRANTED
Expiry Date:	1 August 2029
Date Ceased:	
Date Revoked:	

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/04/2023

(21) Application No.202311030887 A
(43) Publication Date : 19/05/2023

(54) Title of the invention : A SMART SYSTEM FOR CONTROLLING THE IGNITION SYSTEM AND LOCATING THE LOCATION OF A VEHICLE

(51) International classification :A61B 051500, A61B 173400, F02P 051500, F02P 090000, F24F 110000
(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 provides a smart system for controlling the ignition system and locating the location of a vehicle comprises of: a cloud server; a GSM module shield; a power relay module; a GPS module; an electric circuit board; a microcontroller; a battery; a printed circuit board (PCB); connecting wires; and a user device comprises of a user interface wherein the said system does not allow any other person to start the vehicle without proper access to the vehicle and the said vehicle only starts when the user has proper access to it through the user interface. A process of controlling the ignition system of a vehicle using the said smart system is also provided.

No. of Pages : 10 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/03/2023

(21) Application No.202311018334 A
(43) Publication Date : 12/05/2023

(54) Title of the invention : A SECURED PASSWORD-BASED CIRCUIT BREAKER SYSTEM USING GSM TECHNOLOGY AND A METHOD THEREOF

(51) International classification :C09K 089000, H04B 072600, H04L 090800, H04W 120600, H04W 840400
(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

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Name of Applicant : NA
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(57) Abstract :
The present invention provides a password-based circuit breaker system which comprises of a microcontroller for controlling the function of the said system; a GSM module for remote access to the said system; a relay driver for controlling the function of the relay; a password input device; a microcontroller board; electric bulbs module; an electric switch; a user device; and a power supply unit; wherein the said power supply unit provides the required voltage and current to the different electrical components of the said system. The system provides an efficient way for remotely controlling and monitoring the electrical power systems or equipment. The system also allows the user to remotely change the password of the electrical systems.

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

Australian Government

IP Australia

CERTIFICATE OF GRANT

INNOVATION PATENT

Patent number: 2021101516

The Commissioner of Patents has granted the above patent on 19 May 2021, and certifies that the below particulars have been registered in the Register of Patents.

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Tarun Naruka of Associate Professor, Department of Electrical Engineering, SKIT Jaipur 302017 India

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Souvik Ganguli of Assistant Professor, Department of, Electrical and Instrumentation, Engineering, Thapar Institute of Engineering and Technology Patiala, Punjab 147004 India

Anurag Sohane of Research Scholar, Department of, Electrical and Instrumentation, Engineering, Thapar Institute of Engineering and Technology Patiala, Punjab 147004 India

Title of invention:

A SYSTEM FOR MOVEMENT OF AUTONOMOUS VEHICLE AND A METHOD THEREOF

Name of inventor(s):

Rana, Arun Kumar; Karelia, Nirav; Naruka, Tarun; Pal, Vipin Chandra; Ganguli, Souvik and Sohane, Anurag

Term of Patent:

Eight years from 25 March 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.

Dated this 19th day of May 2021

Commissioner of Patents

INTELLECTUAL PROPERTY INDIA

सत्यमेव जयते

ORIGINAL
क्रम सं/ Serial No. : 168601

पेटेंट कार्यालय, भारत सरकार The Patent Office, Government Of India

डिजाइन के पंजीकरण का प्रमाण पत्र | Certificate of Registration of Design

डिजाइन सं. / Design No.	:	398232-001
तारीख / Date	:	22/10/2023
पारस्परिकता तारीख / Reciprocity Date*	:	
देश / Country	:	

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो *DEVICE FOR IRRIGATION SYSTEM* से संबंधित है, का पंजीकरण, श्रेणी 15-03 में 1.Utkarsh Venaik 2. Dr Rajkamal Upadhyaya 3.Avinash Kumar Chauhan 4.Mr. Venkatesh Bharti 5.Dr Ona Ladiwal 6.Ankit Raj Singh के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 15-03 in respect of the application of such design to *DEVICE FOR IRRIGATION SYSTEM* in the name of 1.Utkarsh Venaik 2. Dr Rajkamal Upadhyaya 3.Avinash Kumar Chauhan 4.Mr. Venkatesh Bharti 5.Dr Ona Ladiwal 6.Ankit Raj Singh.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्यधीन प्रावधानों के अनुसरण में।
In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

जारी करने की तिथि :
Date of Issue : 10/05/2024

उन्नत की पंडित
महानियंत्रक पेटेंट, डिजाइन और व्यापार चिह्न
Controller General of Patents, Designs and Trade Marks

*पारस्परिकता तारीख (यदि कोई हो) जिसकी अनुमति दी गई है तथा देश का नाम। डिजाइन का स्वत्वाधिकार पंजीकरण की तारीख से दस वर्षों के लिए होगा जिसका विस्तार, अधिनियम एवं नियम के निबंधनों के अधीन, पाँच वर्षों की अतिरिक्त अवधि के लिए किया जा सकेगा। इस प्रमाण पत्र का उपयोग विधिक कार्यवाहियों अथवा विदेश में पंजीकरण प्राप्त करने के लिए नहीं हो सकता है।

The reciprocity date (if any) which has been allowed and the name of the country. Copyright in the design will subsist for ten years from the date of Registration, and may under the terms of the Act and Rules, be extended for a further period of five years. This Certificate is not for use in legal proceedings or for obtaining registration abroad.

INTELLECTUAL PROPERTY INDIA

ORIGINAL
क्रम सं/ Serial No. : 172787

पेटेंट कार्यालय, भारत सरकार The Patent Office, Government Of India

डिजाइन के पंजीकरण का प्रमाण पत्र | Certificate of Registration of Design

डिजाइन सं. / Design No.	:	413302-001
तारीख / Date	:	12/04/2024
पारस्परिकता तारीख / Reciprocity Date*	:	
देश / Country	:	

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो *WASTE SORTING & RECYCLING STATION* से संबंधित है, का पंजीकरण, श्रेणी 07-05 में 1.Mr Venkatesh Bharti 2. Dr. Tapas Kumar 3.Kanika Rana 4.Arhita Uppal 5.Dr. Sonali P. Banerjee 6.Dr Ona Ladiwal 7.Ms Priyanka Sharma 8.Ankit Raj Singh के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 07-05 in respect of the application of such design to *WASTE SORTING & RECYCLING STATION* in the name of 1.Mr Venkatesh Bharti 2. Dr. Tapas Kumar 3.Kanika Rana 4.Arhita Uppal 5.Dr. Sonali P. Banerjee 6.Dr Ona Ladiwal 7.Ms Priyanka Sharma 8.Ankit Raj Singh.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्यधीन प्रावधानों के अनुसरण में।
In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

जारी करने की तिथि
Date of Issue : 13/06/2024

महानियंत्रक पेटेंट, डिजाइन और व्यापार चिह्न
Controller General of Patents, Designs and Trade Marks

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of Filing of Application :02/02/2024

(21) Application No.202411007082 A
(43) Publication Date : 09/02/2024

(54) Title of the invention : A SMART DECISION-MAKING SYSTEM FOR TRADE-OFF ANALYSIS AND OPPORTUNITY COST ASSESSMENT

(51) International classification :G06N0020000000, G06Q0010060000, G16H0050200000, G06Q0050060000, G06Q0040080000
(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 :
ABSTRACT The present invention relates to a smart decision-making system (100) for trade-off analysis and opportunity cost assessment. The smart decision-making system (100) for trade-off analysis and opportunity cost assessment comprises a data integration module, a machine learning algorithms, an optimization of decision-making, a user-friendly interface and a real-time update features. The data integration module is configured to collate information from diverse sources, including historical performance metrics, market trends, and external factors. The machine learning algorithms are configured to analyze the integrated data, identify patterns, and predict outcomes related to trade-offs and opportunity costs associated with decision-making. The optimization of decision-making is configured to optimize decision-making by assessing the potential impact of various options and providing insights into the associated trade-offs and opportunity costs. The user-friendly interface is configured to facilitating seamless interaction with the system (100) , allowing decision-makers to input preferences, view analyses, and navigate through the decision-making process.

No. of Pages : 12 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311073544 A

(19) INDIA

(22) Date of filing of Application :28/10/2023

(43) Publication Date : 24/11/2023

(54) Title of the invention : AN ENHANCED DECISION-MAKING METHOD FOR STRATEGIC MANAGEMENT

(51) International classification	:G06Q0010060000, G06N0003080000, G09B0007020000, G06K0009620000, G06Q0010100000
(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

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(57) Abstract :

ABSTRACT The present invention relates to a method (100) for improving decision-making processes in strategic management. The method (100) involves conducting qualitative data analysis, engaging stakeholders, and utilizing advanced tools for environmental analysis, decision criteria definition, and strategic alternative generation. The approach aims to enhance decision quality, reduce decision-making timelines, and foster a culture of continuous learning and improvement within organizations. The method (100) comprises the step of conducting regular reviews and assessments of decision outcomes to foster a culture of continuous learning and improvement. The enhanced decision-making method (100) for strategic management that can encourage creative thinking to generate a range of strategic alternatives.

No. of Pages : 12 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/10/2023
(21) Application No.202311073233 A
(43) Publication Date : 24/11/2023

(54) Title of the invention : A METHOD FOR EMBRACING TRANSFORMATION AND DRIVING ORGANIZATIONAL SUCCESS IN THE DIGITAL AGE

(51) International classification :G06Q0010060000, G06T0005000000, C12N0015820000, C07F0009650600, B25J0009160000
(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 :
TITLE: A METHOD FOR EMBRACING TRANSFORMATION AND DRIVING ORGANIZATIONAL SUCCESS IN THE DIGITAL AGE ABSTRACT The present invention relates to a method (100) for embracing transformation and driving organizational success in the digital age. The method (100) for embracing transformation and driving organizational success in the digital age comprises an assessment phase, strategic planning, cultural transformation, technology integration, monitoring and iteration. The method (100) for embracing transformation and driving organizational success in the digital age that can identify and address potential risks associated with the digital transformation process, implementing strategies to mitigate challenges and ensure a smooth transition. The method (100) for embracing transformation and driving organizational success in the digital age that can effectively integrate cutting-edge technologies into the organizational framework, ensuring that they enhance operational efficiency, innovation, and customer satisfaction.

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

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Ministry of Commerce & Industry,
Government of India

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(http://ipindia.nic.in/index.htm)

Application Details

APPLICATION NUMBER	202211053867
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	20/09/2022
APPLICANT NAME	1 . Dr. Richa Nangia 2 . Dr. Richa Arora 3 . Dr. Sachita Yadav 4 . Dr. Shubha Chandra 5 . Dr. Ona Ladiwal 6 . Dr. Sakshi Saxena
TITLE OF INVENTION	HUMAN RESOURCE DEVELOPMENT IN AUTOMOBILE INDUSTRY(A COMPARATIVE STUDY OF COMPANY X AND COMPANY Y)
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	23/09/2022

Application Status

APPLICATION STATUS

Awaiting Request for Examination

View Documents

Office of the Controller General of Patents, Designs & Trade Marks
Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India

(http://ipindia.nic.in/index.htm)

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PATENTS DESIGNS TRADE MARKS GEOGRAPHICAL INDICATIONS
(http://ipindia.nic.in/index.htm)

Application Details

APPLICATION NUMBER	202211025490
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	01/05/2022
APPLICANT NAME	1 . Dr. Richa Arora 2 . Dr. Richa Nangia 3 . Dr. Dimpy Sachar 4 . Dr. Nidhi Gupta 5 . Dr. Ona Ladiwal 6 . Nidhi
TITLE OF INVENTION	NOVEL ROADWAY TRANSPORT MANPOWER PLANNING AND OPTIMIZATION SYSTEM
FIELD OF INVENTION	COMPUTER SCIENCE
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	02/05/2022
PUBLICATION DATE (U/S 11A)	06/05/2022

Application Status

APPLICATION STATUS

Abandoned U/s 21(1)

View Documents

Office of the Controller General of Patents, Designs & Trade Marks
Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

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INTELLECTUAL PROPERTY INDIA (http://ipindia.nic.in/index.htm)

Application Details

APPLICATION NUMBER	202211052282
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	13/09/2022
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TITLE OF INVENTION	MACHINE LEARNING-BASED METHODOLOGY FOR DATABASE MIGRATION IN CLOUD COMPUTING ENVIRONMENT
FIELD OF INVENTION	COMPUTER SCIENCE
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	16/09/2022

Application Status