

NANDHA ENGINEERING COLLEGE (AUTONOMOUS)

PATENT DETAILS FROM 2019 TO 2021

INSTITUTE ID : IR-E-C-36958

S.No	Year	Dept	Application Number	Name of the Inventor	Title of the Patent	Status: Applied /Published / Granted
1.	2021	CSE	202141033809 A	Dr P Thirumoorthy	IOT Based Smart Digital Food Recommendation For Health Management System	Published
2.	2021	CSE	202141031534	Dr D Vanathi	Smart Mask Shaped Mouthset Capable Of Enhancing And Synthesizing Speech Even From Lip Movements	Published
3.	2021	CSE	202141037730	Dr S Karuppusamy Dr S Prabhu	Boosting Framework for semisupervised learning with limited number of labeled examples and multitude of unabled examples	Published
4.	2021	MBA	202141054730	Dr K Parthiban	Design of Marketing Communication according to the STDC Framework	Published
5.	2021	Mech	202141058630 A	Dr.B. Ashok Kumar	IOT Based Smart Polyhouse Farm	Published
6.	2021	Mech & ECE	Design No; 354212-001	Dr.N.Rengarajan Dr. M. Muthukumar	Serpentine flow channel of fuel cell	Granted
7.	2021	Mech	Design no; 350136-001	Dr.S.Magibalan	Telescopic walking aid for Handicap	Granted

8.	2020	Mech	202041055463	M. Shanmugam	Method to support the two-wheeler and rider during slow-moving traffic with auxiliary support legs	Published
9.	2020	CHEMICAL	202041050652 A	G Mohankumar Dr A Murugesan	A Method for removing Chromium from TAN Liquor using low cost precipitating agents	Published
10.	2020	ECE	202141038079 A	Dr S Kavitha	Traffic Controlling and Monitoring Using IoT	Published
11.	2020	EEE	202041049792	T Jayakumar	IoT Based Efficient Water Resources Forecasting, Monitoring And Management System	Published
12.	2019	Mech	Design no 327095-001	Dr. N. Rengarajan, Dr. M. Muthukumar, Mr. M. A. Omprakas	Taper flow field Membrane	Granted
13.	2019	Mech	201941021956 A	Dr. M. Easwaramoorthi, Mr. M.Sengottaiyan, Mr. D.Subramanian	Roll and pull type plant uprooting machine with flexible stem clamp	Published

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141033809 A

(19) INDIA

(22) Date of filing of Application :27/07/2021

(43) Publication Date : 06/08/2021

(54) Title of the invention : IOT BASED SMART DIGITAL FOOD RECOMMENDATION FOR HEALTH MANAGEMENT SYSTEM

(51) International classification	:G16H0010600000, G16H0050300000, G06Q0050220000, G16H0040630000, A61B0005000000	(71)Name of Applicant : 1)Dr.Jebakumar Immanuel D Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, SNS College of Engineering, Coimbatore 641107 Tamil Nadu India 2)Ms.Saranya S 3)Dr Kannan K 4)Mr.Monesh Kumar 5)Mr.Vijayakumar T 6)Dr.Thirumoorthy.P 7)Dr.Amarnath Mishra 8)Dr.Dharmendra Kumar Singh
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Dr.Jebakumar Immanuel D 2)Ms.Saranya S 3)Dr Kannan K 4)Mr.Monesh Kumar 5)Mr.Vijayakumar T 6)Dr.Thirumoorthy.P 7)Dr.Amarnath Mishra 8)Dr.Dharmendra Kumar Singh
(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	

(57) Abstract :

A personal health record (PHR) is an individual electronic health record that saves, tracks, and manages all forms of health-related information in a confidential and secure manner throughout their life. With the advent of wireless sensors and wearable devices, it is now possible to track an individual's physical activity, blood pressure, and glucose levels in real time. As a result, efficient use of such data has been improving the quality of health-care management services. PHR is also becoming more important for chronic diseases like diabetes, arthritis, Alzheimer's disease, and cardiovascular disease. The current design relates to health-care dispensation, specifically individualized management of a user's health-care needs. The invention describes a technique for combining the user's personal risk analysis with resources used by the health-care medical service providers and food habit, condition of the patient and other participants in the user's health-care decision-making. Filters based on particular and well-known health risk indicators, as well as user preference models for each unique patient, PHR's real-time health monitoring and management solution is based on the PHR platform. Individuals who are concerned about their own health can benefit from a mobile-based health management service and personal health record. Furthermore, the medical environment is rapidly shifting from hospital-centric to patient-centric health monitoring systems. To improve the recommendation system, we used Collaborative Filtering for recommending the food. There are further benefits, such as the standardization of personal health records, the support of a smart digital food assistant-based health management system, patient health awareness, and hospital-to-hospital sharing of treatment-related data.

No. of Pages : 6 No. of Claims : 2



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Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India



Application Details

APPLICATION NUMBER	202141031534
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	14/07/2021
APPLICANT NAME	1 . Prof. (Dr.) M. R. Arun 2 . Prof.(Dr.) Bhagirathi Nayak 3 . Tejaswini Kar 4 . Dr. Patteti Krishna 5 . Dr. Pradeep Kumar 6 . R. Poonguzhali 7 . Kavitha. T 8 . Dr. Mauparna Nandan 9 . Dr. Pramod V. R. 10 . Dr. Munish Jindal 11 . Dr. Sangeetha 12 . Dr. D. Vanathi 13 . F. Shabina Fred Rishma
TITLE OF INVENTION	SMART MASK SHAPED MOUTHSET CAPABLE OF ENHANCING AND SYNTHESIZING SPEECH EVEN FROM LIP MOVEMENTS
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
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PRIORITY DATE	



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Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India



Application Details

APPLICATION NUMBER	202141037730
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	19/08/2021
APPLICANT NAME	1 . Mr.Om Prakash Singh 2 . Dr.S.Karuppusamy 3 . Dr.Muhammad Nauman Aftab 4 . Dr.Animoni Nagaraju 5 . Mrs.Madhulika Singh 6 . Dr.R.Nandhakumar 7 . Dr.S.Prabhu 8 . Mr.Sandeep kumar 9 . Mr..Rahul Neware 10 . Mr. Praveen Kumar 11 . Dr. Sivakumar Ponnusamy 12 . Dr. Rupinder Singh
TITLE OF INVENTION	Boosting framework for semi-supervised learning with limited number of labeled examples and a multitude of unlabeled examples
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	opsingh6612@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	24/09/2021



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Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India



Application Details

APPLICATION NUMBER	202141054730
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	26/11/2021
APPLICANT NAME	1 . Dr. V. C. Shanker 2 . Dr.R.V. Suresh 3 . MD FAIYAZ AHMED N 4 . Dr. Kirti Sharma 5 . Pravin Dnyaneshwar Sawant 6 . Dr.P.Nagarajan 7 . Dr.S.Anbarasu 8 . Dr.K.Parthiban 9 . Dr. C. Kala 10 . S.Sekar
TITLE OF INVENTION	DESIGN OF MARKETING COMMUNICATION ACCORDING TO THE STDC FRAMEWORK
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	esdiyeminfotech@gmail.com
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	10/12/2021

Application Status

APPLICATION STATUS	Awaiting Request for Examination
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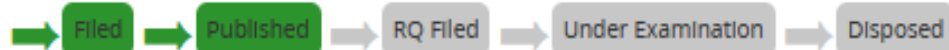
Application Details

APPLICATION NUMBER	202141058630
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	16/12/2021
APPLICANT NAME	1 . Dr.V.P.Srinivasan 2 . Dr.S.Karthik, Sri Krishna College of Engineering and Technology 3 . Mr.M.Vinosh, Sri Krishna College of Engineering and Technology 4 . Mr.J.Dhyaneswaran, Sri Krishna College of Engineering and Technology 5 . Dr.B. Ashok Kumar, Nandha Engineering College 6 . Mr.B.Balasubramanian, Chettinad College of Engineering and Technology 7 . Mr.P.Prakash, K S Rangasamy College of Technology 8 . Mr. C. Ramesh, K S Rangasamy College of Technology 9 . Mr. M.Prasath, K S Rangasamy College of Technology 10 . Mr.J. Jones Praveen, SRM TRP Engineering College 11 . Mr.B. Siddharthan, Bannari Amman Institute of Technology 12 . Mr.U.Vivek, K.S.Rangasamy College of Technology 13 . Dr.N.Balaji, Sri Krishna College of Engineering and Technology 14 . Mr.J.Baskaran, Sri Krishna College of Engineering and Technology
TITLE OF INVENTION	IOT Based Smart Polyhouse Farm
FIELD OF INVENTION	MECHANICAL ENGINEERING
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REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	14/01/2022

Application Status

APPLICATION STATUS	Awaiting Request for Examination
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Design Application Details

Application Number: 354212-001
Cbr Number: 210487
Cbr Date: 03/12/2021 14:44:55
Applicant Name: 1. Dr. M. Muthukumar,
2. Dr. N. Rengarajan,
3. Dr. P. Karthikeyan,
4. Dr. A. P. Senthil Kumar,
5. Dr. Thokchom Subhaschandra Singh,
6. Dr. Tikendra Nath Verma,

Design Application Status

Application Status: Design Accepted and Published, Journal No is 05/2022 and Journal Date is 04/02/2022

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Design Office, Kolkata : controllerdesign.ipo@nic.in

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Design Application Details

Application Number: 350136-001
Cbr Number: 207956
Cbr Date: 24/09/2021 19:21:31
Applicant Name: 1. Dr. S. MAGIBALAN,
2. Dr. M. PRABU,
3. Dr. P. SENTHILKUMAR,
4. Dr. T. SURESHKUMAR,
5. Dr. N. SARAVANAN,

Design Application Status

Application Status: Design Accepted and Published, Journal No is 46/2021 and Journal Date is 12/11/2021

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Design Office, Kolkata : controllerdesign.ipo@nic.in

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Application Details

APPLICATION NUMBER	202041055463
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	21/12/2020
APPLICANT NAME	1 . Dharsan K 2 . Dr.S.Sundararaj 3 . Dr. S. Julyes Jalsingh 4 . Dr. M. Narendra Kumar 5 . Dr. P. Govindan 6 . K. Vinothkumar 7 . A. Murugan 8 . H. Mohammed Ali 9 . M. Shanmugam 10 . Dr. G C Vijayakumar
TITLE OF INVENTION	METHOD TO SUPPORT THE TWO-WHEELER AND RIDER DURING SLOW-MOVING TRAFFIC WITH AUXILIARY SUPPORT LEGS
FIELD OF INVENTION	MECHANICAL ENGINEERING
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	21/12/2020
PUBLICATION DATE (U/S 11A)	01/01/2021
REPLY TO FER DATE	08/10/2021

Application Status

APPLICATION STATUS	Reply Filed. Application in amended examination
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Government of India

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GEOGRAPHICAL INDICATIONS

Application Details

APPLICATION NUMBER	202041050652
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	20/11/2020
APPLICANT NAME	1 . Mr.T.SATHISH 2 . Dr.P.SHANMUGAM 3 . Dr.N.SUBRAMANIAN 4 . Mr.G.MOHANKUMAR 5 . Dr.N.RAMESH 6 . Mr.S.GUNASEKAR 7 . Mr.E.DINESH 8 . Mr.C.NANDAGOPAL 9 . Dr.A.MURUGESAN
TITLE OF INVENTION	A METHOD FOR REMOVING CHROMIUM FROM TAN LIQUOR USING LOW COST PRECIPITATING AGENTS
FIELD OF INVENTION	CHEMICAL
E-MAIL (As Per Record)	ashish.iprindia@hotmail.com
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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
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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/08/2021

(21) Application No.202141038079 A
(43) Publication Date : 03/09/2021

(54) Title of the invention : TRAFFIC CONTROLLING AND MONITORING USING IOT

(51) International classification	:G08G0001010000, G06K0009000000, H04W0004800000, G08G0001096700, G08G0001140000	(71)Name of Applicant : 1)Dr C.VENNILA Address of Applicant :DEPARTMENT OF EEE, ALAGAPPA CHETTIAR GOVERNMENT COLLEGE OF ENGINEERING AND TECHNOLOGY, KARAIKUDI , TAMILNADU,INDIA-630003. Tamil Nadu India
(31) Priority Document No	:NA	2)Mrs. K.CHANDRAPRABHA
(32) Priority Date	:NA	3)Dr.M.VIJAYARAJ
(33) Name of priority country	:NA	4)Dr.S.KAVITHA
(86) International Application No	:PCT//	5)Mr. S. VIMALNATH
Filing Date	:01/01/1900	6)Mrs.K. KALAICHELVI
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)Dr C.VENNILA
Filing Date	:NA	2)Mrs. K.CHANDRAPRABHA
(62) Divisional to Application Number	:NA	3)Dr.M.VIJAYARAJ
Filing Date	:NA	4)Dr.S.KAVITHA
		5)Mr. S. VIMALNATH
		6)Mrs.K. KALAICHELVI

(57) Abstract :

Traffic controlling and Monitoring using IoT based approach for smart and safe traveling for smart city through road side message units. The system is using sensors as well as communication device which is using internet to broadcast the messages of the traffic condition to the public in decision making and save their time on roads. Smart Drive is logically connecting all the passengers traveling on a particular road by collecting and sharing real time and dynamic information about travellers and their route like road congestion, weather updates, etc. As a prototype was implemented to demonstrate the feasibility of the proposed model, the results of the prototype demonstration showed good accuracy in vehicle detection and a low relative error in road occupancy estimation. The aim of proposed system is to provide dynamic information to travelers and remove information barrier which will help users to make smart transportation decision based real time information.

No. of Pages : 23 No. of Claims : 6



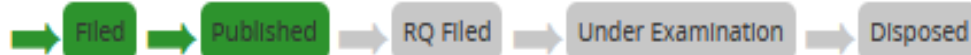
Application Details

APPLICATION NUMBER	202041049792
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	14/11/2020
APPLICANT NAME	1 . T.jayakumar 2 . Murali Krishna Kotha 3 . Dr.Sripriya 4 . Dr.B.Anuradha 5 . M . Jemimah Carmichael 6 . Dr.S.Packialakshmi 7 . Dr.M.Sundara Rajan 8 . Dr P N Sudha 9 . A.Purna Chandra Rao 10 . Nadeem Ahmad Khan 11 . Afzal Husain Khan 12 . Dr.R.Sridevi 13 . Dr.S.Gnanasekaran 14 . Dr.K.Nagamani 15 . Dr.G.Pavithra 16 . Dr. T.C.Manjunath
TITLE OF INVENTION	IOT BASED EFFICIENT WATER RESOURCES FORECASTING, MONITORING AND MANAGEMENT SYSTEM
FIELD OF INVENTION	COMMUNICATION
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PUBLICATION DATE (LWS 11A)	20/11/2020

Application Status

APPLICATION STATUS	Awaiting Request for Examination
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Design Application Details

Application Number:	327095-001
Cbr Number:	2975
Cbr Date:	12/02/2020 15:24:03
Applicant Name:	1. Dr. N. Rengarajan, Professor, 2. Dr. M. Muthukumar, Professor, 3. M. A. Omprakas, Assistant Professor,

Design Application Status

Application Status: Design Accepted and Published, Journal No is 20/2020 and Journal Date is 15/05/2020

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Design Office, Kolkata : controllerdesign.ipo@nic.in

Controller General of Patents, Designs and Trademarks

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941021956 A

(19) INDIA

(22) Date of filing of Application :03/06/2019

(43) Publication Date : 14/06/2019

(54) Title of the invention : ROLL AND PULL TYPE PLANT UPROOTING MACHINE WITH FLEXIBLE STEM CLAMP

(51) International classification	:A01D41/00	(71)Name of Applicant :
(31) Priority Document No	:NA	1)DR.M.EASWARAMOORTHY
(32) Priority Date	:NA	Address of Applicant :PROFESSOR, MECHANICAL
(33) Name of priority country	:NA	ENGINEERING, NANDHA ENGINEERING COLLEGE,
(86) International Application No	:NA	VAIKKALMEDU, ERODE, TAMIL NADU, INDIA-638052
Filing Date	:NA	Tamil Nadu India
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)DR.M.EASWARAMOORTHY
Filing Date	:NA	2)M.SEGOTTAIYAN
(62) Divisional to Application Number	:NA	3)D.SUBRAMANIAN
Filing Date	:NA	

(57) Abstract :

7. ABSTRACT OF THE INVENTION A roll and pull type uprooting machine with flexible stem clamp consists of three major assemblies namely a straight hollow shaft with handle (RH) at one end and :C; shape gripper at the opposite end (fixed portion of jaw of the flexible gripper). Track bar with handle (LH side), bracket, link bar, tow bar, :L shape clamp and companion part of :C shape gripper. (moveable portion of jaw), and axle with wheels. In this embodiment the first assembly hollow shaft and accessory parts are used to locate the stem of the plant with the linear and rotational movement. The linear movement is provided by the wheels and rotation movement by hand at handle (RH). The second assembly track bar and accessory parts are used to provide clamping force at moveable portion of jaw in gripper. The linkages are designed in such a way that the linear motion at handle (LH) will provide longitudinal motion at moveable portion of the jaw. The downward force applied at the handle vertically is transmitted to the stem of the plant and helps to uproot the tuber, root or similar plants from the earth. The force applied at the handle can be minimized by adjusting the location of the axle between gripper and handle. The roll and pull type uprooting machine with flexible stem clamp has the advantages of simple structure, ergonomic design, ease of operation by any unskilled labor, low cost, less human effort, and uprooting of plant stem with different orientations.

No. of Pages : 8 No. of Claims : 6