

(12) PATENT APPLICATION PUBLICATION

(21) Application No. 201731043327 A

(19) INDIA

(22) Date of filing of Application :03/12/2017

(43) Publication Date :07/06/2019

(54) Title of the invention : AUTOMATIC CONTROL SYSTEM FOR WATER SPRINKLING AND VENTILATION

(51) International classification	:A01G 1/00	(71)Name of Applicant :
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(32) Priority Date	:NA	Address of Applicant :17, Forest Park, Bhubaneswar, Khurda
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(87) International Publication No	: NA	2)Subrat Kumar Pradhan
(61) Patent of Addition to Application Number	:NA	3)Swarna Prabha Jena
Filing Date	:NA	4)Saroj Behera
(62) Divisional to Application Number	:NA	5)T. Sunil Kumar
Filing Date	:NA	

(57) Abstract :

The present invention proposes an automatic control system for water sprinkling and ventilation. The system comprises a circuit board that mechanically supports and electrically connects the components using conductive tracks and thereof. The system uses an arduino based ATmega microcontroller that is specifically programmed to compute the input signals. The signals are received from the various sensors that sense moisture content of beds, humidity and ambient temperature and thereof. This is achieved by using a detecting unit with plurality of detectors arrangement for an effective system. Once the controller receives this signal, it begins the process of computation in order to carry out the necessary action for comparing the precise parameters that are pre fed and displayed in a visual means, which makes it very much informative. The system reduces human intervention and takes care of proper maintenance of growth parameters and minimizing wastage of resources in the mushroom cultivation chamber

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No. 201731043328 A

(19) INDIA

(22) Date of filing of Application :03/12/2017

(43) Publication Date :07/06/2019

(54) Title of the invention : SMART MONITORING SYSTEM OF SOIL MOISTURE

(51) International classification	:G01N 33/00	(71)Name of Applicant :
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(61) Patent of Addition to Application Number	:NA	3)Swarna Prabha Jena
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(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An integrated handheld soil moisture sensor device comprising a controller for controlling a soil moisture sensor and integrated to the microcontroller, an oscillator to generate an electrical signal of precise frequency and a sensing unit to determine the moisture content of the soil. The controller may be a microcontroller of 8051, AVR, PIC and the like controllers. The controller controls the sensor circuit in accordance to the program dumped in the controller. The soil moisture sensor may be a capacitance sensor, granular matrix sensor and the like sensors. The oscillator may be a crystal oscillator, Hartley oscillator and the like oscillators to provide clock signals based on type of said controller. The sensing unit may be a neutron probes, gravimetric probes and the like sensing units and material of the sensing unit may be a conducting material such as copper, aluminium, metal and thereof. The sensing unit is inserted into the soil to determine moisture content of the soil where in the moisture content is displayed with precise value. The invention consists of portable soil moisture sensor and a common display unit. This makes it possible for the user to observe the moisture level of the soil in multiple locations from a single conveniently positioned display unit.

No. of Pages : 15 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No. 201731043329 A

(19) INDIA

(22) Date of filing of Application :03/12/2017

(43) Publication Date :07/06/2019

(54) Title of the invention LOW SMOKE PORTABLE COMBUSTION FURNACE

(51) International classification	:A47J 37/00	(71)Name of Applicant :
(31) Priority Document No	:NA	1)Centurion University of Technology and Management (CUTM)
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(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A low smoke portable combustion furnace comprises a combustion chamber, a shell, a plurality of air inlets, a plurality of orifices, a plurality of set of pores engraved on orifices and a support structure to place an item such as a vessel, a pot, a container and the like. The combustion chamber is to contain and combust solid biomass fuels. The term "biomass" can be taken broadly to include any fuel, coal, oil, waste products, etc., that will burn more cleanly and efficiently by getting injected of air during combustion. The inventive design of the combustion chamber can be of a variety of shapes such as cylindrical or pie shape, depending on the type of fuel used and the stove's intended purpose. The furnace design reduces the amount of carbon monoxide gas emitted from the burning of solid fuel energy source, especially biomass.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No: 201941040224 A

(19) INDIA

(22) Date of filing of Application :04/10/2019

(43) Publication Date :25/10/2019

(54) Title of the invention : MACHINE LEARNING BASED COMPUTER IMPLEMENTED METHOD FOR MANAGING PRODUCTION FROM A HYDROCARBON RESERVOIR

(51) International classification	:G06N3/00	(71)Name of Applicant :
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Filing Date	:NA	4)Dr. Sujata Chakravarty
(87) International Publication No	:NA	5)Amar Kumar Das
(61) Patent of Addition to Application Number	:NA	6)Dr. Prashant Kumar Shukla
Filing Date	:NA	7)Dr. Piyush Kumar Shukla
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(57) Abstract :

The present disclosure of invention is present machine learning based computer implemented method for managing production from a hydrocarbon reservoir. The objective of the present invention to provide overcomes the inadequacies of the prior art in e effective management of production from a hydrocarbon reservoir. The presented computer implemented method uses a technical data and economic data with a neural network based model to manage the operation of the production of the hydrocarbon reservoir.

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