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Department of Industrial Policy and Promotion
Ministry of Commerce and Industry

Application Details

APPLICATION NUMBER	201721000360
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	04/01/2017
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TITLE OF INVENTION	NANOCOMPOSITE FOR DETECTION OF CU (II) IONS AND A METHOD FOR DEVELOPING A SENSOR FOR THE SAME
FIELD OF INVENTION	ELECTRICAL
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E-MAIL (UPDATED Online)	
PRIORITY DATE	NA
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	06/07/2018

Application Status

APPLICATION STATUS	Application Published
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(12) PATENT APPLICATION PUBLICATION

(21) Application No.201721000360 A

(19) INDIA

(22) Date of filing of Application :04/01/2017

(43) Publication Date : 06/07/2018

(54) Title of the invention : NANOCOMPOSITE FOR DETECTION OF CU (II) IONS AND A METHOD FOR DEVELOPING A SENSOR FOR THE SAME

(51) International classification	:H01M 10/00 H01M 4/00	(71)Name of Applicant : 1)Mahendra D. Shirsat Address of Applicant :RUSA Centre for Advanced Sensor Technology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad Maharashtra India
(31) Priority Document No	:NA	2)Mahendra D. Shirsat
(32) Priority Date	:NA	3)Mahendra D. Shirsat
(33) Name of priority country	:NA	(72)Name of Inventor :
(86) International Application No	:PCT//	1)Megha Deshmukh
Filing Date	:01/01/1900	2)Harshada Patil
(87) International Publication No	: NA	3)Gajanan Bodkhe
(61) Patent of Addition to Application Number	:NA	4)Nikesh Ingle
Filing Date	:NA	5)Kunal Datta
(62) Divisional to Application Number	:NA	6)Mahendra D. Shirsat
Filing Date	:NA	

(57) Abstract :

NANOCOMPOSITE FOR DETECTION OF CU (II) IONS AND A METHOD FOR DEVELOPING A SENSOR FOR THE SAME

A method for developing a sensor for the detection of Cu(II) ion from water comprises of the steps of providing a conducting support, adding a SWNTs suspension in aniline+H₂SO₄ electrolyte, forming a nanocomposite structure of PANI/SWNTs electrochemically, preparing a mixture containing EDTA with activating agent 1-ethyl-3-(3-(dimethylamino)propyl)-carbodiimide (EDC) and soaking the nanocomposite structure in the solution of EDTA and continuously stirring of EDTA solution for 8hrs to modify the nanocomposite structure, to obtain the sensor. The present invention also includes a nanocomposite as described.

No. of Pages : 25 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201721000262 A

(19) INDIA

(22) Date of filing of Application :03/01/2017

(43) Publication Date : 06/07/2018

(54) Title of the invention : AN ANNUNCIATOR FOR SENSING PRESENCE OF AMMONIA IN AIR AND A METHOD FOR THE SAME

(51) International classification	:H02J 9/00	(71)Name of Applicant :
(31) Priority Document No	:NA	1)Mahendra D. Shirsat
(32) Priority Date	:NA	Address of Applicant :RUSA Centre for Advanced Sensor
(33) Name of priority country	:NA	Technology, Dr. Babasaheb Ambedkar Marathwada University,
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(87) International Publication No	: NA	1)Nikesh N. Ingle
(61) Patent of Addition to Application Number	:NA	2)Gajanan A. Bodkhe
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(57) Abstract :

ABSTRACT AN ANNUNCIATOR FOR SENSING PRESENCE OF AMMONIA IN AIR AND A METHOD FOR THE SAME An annunciator device (10) for sensing presence of ammonia in air comprises of a sensor chip, a sliding switch (101) for powering the device on and off and a circuit having a microcontroller(201) located at the centre of the circuit. A first green LED (102) is provided to indicate safe level of ammonia and a red LED (103) to indicate when the ammonia level goes beyond PEL. A sliding cap (104) is for replacing the battery and slot (105) for placing a sensor within the device. A second green LED (211) indicates that circuits of the device are powered and the device is in good health. Switch (212) resets the circuits. A power port (213) provides a battery power source. A pair of electrolytic capacitors (214,216) for eliminating undesirable supply harmonics, a voltage controller IC (215) and a 5 Volt regulated power supply port (218) are also provided. To be continued with Fig.1a

No. of Pages : 15 No. of Claims : 6