



**INTELLECTUAL
PROPERTY INDIA**

PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS



क्रमांक : 044151866
SL No. :



भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE
पेटेंट प्रमाणपत्र
PATENT CERTIFICATE
(Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No. : 427404
आवेदन सं. / Application No. : 202241047403
फाइल करने की तारीख / Date of Filing : 19/08/2022
पेटेंटी / Patentee : 1.Dr. Binu Sukumar 2.Dr. A. Hemamathi

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित A PORTABLE PRESSURE MEASURING DEVICE TO MONITOR LATERAL PRESSURE OF FRESH CONCRETE ON FORMWORK नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख अगस्त 2022 के उन्नीसवें 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 PORTABLE PRESSURE MEASURING DEVICE TO MONITOR LATERAL PRESSURE OF FRESH CONCRETE ON FORMWORK as disclosed in the above mentioned application for the term of 20 years from the 19th day of August 2022 in accordance with the provisions of the Patents Act, 1970.



अनुदान की तारीख : 29/03/2023
Date of Grant :

पेटेंट नियंत्रक
Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, अगस्त 2024 के उन्नीसवें 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 19th day of August 2024 and on the same day in every year thereafter.

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :30/08/2024

(21) Application No.202441065833 A

(43) Publication Date : 13/09/2024

(54) Title of the invention : SELF-CLEANSING CONCRETE AND WALL PUTTY

(51) International classification	:B01J0035000000, C09D0005340000, B01J0021060000, B01J0023060000, C03C0017250000	(71) Name of Applicant : 1)R.M.K. Engineering College Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidi poondi, Taluk, Kavaraipettai, Thiruvallur - 601206 Chennai ----- Name of Applicant : NA Address of Applicant : NA (72) Name of Inventor : 1)SABARISH M Address of Applicant :Department of Civil Engineering, R.M.K. Engineering College, RSM Nagar, Gummidi poondi, Taluk, Kavaraipettai, Thiruvallur - 601206 Chennai ----- 2)HARISHKUMAR N R Address of Applicant :Department of Civil Engineering, R.M.K. Engineering College, RSM Nagar, Gummidi poondi, Taluk, Kavaraipettai, Thiruvallur - 601206 Chennai ----- 3)HARIHARAN A Address of Applicant :Department of Civil Engineering, R.M.K. Engineering College, RSM Nagar, Gummidi poondi, Taluk, Kavaraipettai, Thiruvallur - 601206 Chennai ----- 4)HARESH S Address of Applicant :Department of Civil Engineering, R.M.K. Engineering College, RSM Nagar, Gummidi poondi, Taluk, Kavaraipettai, Tiruvallur - 601206 Chennai ----- 5)Dr. A. HEMAMATHI Address of Applicant :Department of Civil Engineering, R.M.K. Engineering College, RSM Nagar, Gummidi poondi, Taluk, Kavaraipettai, Thiruvallur Chennai ----- 6)Dr. BINU SUKUMAR Address of Applicant :Department of Civil Engineering, R.M.K. Engineering College, RSM Nagar, Gummidi poondi, Taluk, Kavaraipettai, Thiruvallur - 601206 Chennai -----
(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 :

The objective of the present invention is to develop Self-Cleansing concrete and wall putty. Self-cleaning construction materials have the ability to clean themselves by breaking down and removing dirt, pollutants, and other contaminants without the need for human intervention. The self- cleaning properties are induced by introducing the photocatalytic materials such as titania (TiO₂) and zinc oxide (ZnO). This invention impose reviews on the use of Titania and Zinc oxide on concrete and wall putty. The optimum dosage of Titania is investigated and its periodic absorption is noticed to check the removal of dirt from the surface of concrete. The same principle is applied on wall putty panel.

No. of Pages : 14 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :30/08/2024

(21) Application No.202441065829 A

(43) Publication Date : 13/09/2024

(54) Title of the invention : ENROUTE-WEB APPLICATION FOR GEOMETRIC DESIGN OF HIGHWAYS

(51) International classification	:G06F0040143000, G06T0017100000, G06F0030130000, G06F0030000000, H01L0031023200	(71) Name of Applicant : 1)R.M.K. Engineering College Address of Applicant :RSM Nagar, Gummidipoondi, Taluk, Kavaraipettai, Thiruvallur, Tamil Nadu, India - 601206. Chennai ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72) Name of Inventor : 1)EVELIN BLESSY B Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidipoondi, Taluk, Kavaraipettai, Thiruvallur, Tamil Nadu, India - 601206. Chennai -----
Filing Date	:NA	2)Pooja S Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidipoondi, Taluk, Kavaraipettai, Thiruvallur, Tamil Nadu, India - 601206. Chennai -----
(87) International Publication No	: NA	3)Rithika D Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidipoondi, Taluk, Kavaraipettai, Thiruvallur, Tamil Nadu, India - 601206. Chennai -----
(61) Patent of Addition to Application Number	:NA	4)Mahalakshmi B Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidipoondi, Taluk, Kavaraipettai, Thiruvallur, Tamil Nadu, India - 601206. Chennai -----
Filing Date	:NA	5)Aishwarya R Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidipoondi, Taluk, Kavaraipettai, Thiruvallur, Tamil Nadu, India - 601206. Chennai -----
(62) Divisional to Application Number	:NA	6)Dr. Binu Sukumar Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidipoondi, Taluk, Kavaraipettai, Thiruvallur, Tamil Nadu, India - 601206. Chennai -----
Filing Date	:NA	

(57) Abstract :

The objective of the present invention is to design web application for geometric design of highways. "ENROUTE" is a web application developed using JavaScript, SQLite, and ReactJS for geometric design of road stretch elements. The backend app calculates road geometry using C Programming, while the frontend uses HTML and CSS. Design speed is crucial for highway design, and the application uses inputs like highway type, terrain, and curve length. The goal is to be quick and error-free, avoiding manual calculations and enhancing the web learning system's effectiveness. The application will be evaluated through summative evaluation with actual users to assess its effectiveness.

No. of Pages : 19 No. of Claims : 1

पेटेंट कार्यालय
शासकीय जर्नल

OFFICIAL JOURNAL
OF
THE PATENT OFFICE

निर्गमन सं. 01/2023
ISSUE NO. 01/2023

शुक्रवार
FRIDAY

दिनांक: 06/01/2023
DATE: 06/01/2023

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :03/07/2021

(21) Application No.202141029947 A

(43) Publication Date : 06/01/2023

(54) Title of the invention : Smart Movable Hydraulic Powered Wall

(51) International classification	:E05D0015060000, E04B0002820000, G07C0009000000, B60N0002680000, C07K0016280000	(71) Name of Applicant : 1)R.M.K Engineering College Address of Applicant :R.M.K Engineering College, RSM Nagar, Gummidi poondi Taluk, Tiruvalur, Kavarapettai, Tamil Nadu, India - 601 206. Tamil Nadu India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)S.P.Kanniyappan
(33) Name of priority country	:NA	2)Dr.BinuSukumar
(86) International Application No	:PCT//	3)Pranoj. D.M
Filing Date	:01/01/1900	4)Mohana Krishnan. A
(87) International Publication No	: NA	5)Ruben Chakravarthy .B
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The objective of the present invention is to create a movable wall which can be moved inside the interior of any building and can be placed at any position according to user requirement. Operable partitions or folding partition walls involve a series of interlocking panels which can be locked in place user's requirement. This movable wall makes use of fully automated hydraulics mechanism to get locked in a position.

No. of Pages : 11 No. of Claims : 1

CONTINUED FROM PART- 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041044199 A

(19) INDIA

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

(43) Publication Date : 11/11/2022

(54) Title of the invention : SEMI-AUTOMATED SEED SOWING MACHINE

(51) International classification	:A01B0049060000, A01C0001040000, A01C0007200000, A01C0007080000, A01C0005060000	(71) Name of Applicant : 1)R.M.K Engineering College Address of Applicant :R.M.K Engineering College, RSM Nagar, Gummidi poondi Taluk, Kavarapettai, Tiruvallur, Chennai 601206, Tamil Nadu, India Tamil Nadu India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Samba Siva Rao
(33) Name of priority country	:NA	2)P. Joyson Silva
(86) International Application No	:NA	3)Dr. Binu Sukumar
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 semi-automated seed sowing machine uses impact dibbling mechanism. 20 seeds can be dibbled into soil at a single punch in a grid pattern. Maximum weight will be 65-70 kg. Can be operated by one person. Time required for single dibbling is 5-7 seconds.

Approximately 500m² can be covered in one hour. Can be used in wet and dry beds like red and black soil. Doesn't require skilled labour.

No. of Pages : 11 No. of Claims : 5

R-1/New App. (CCS)

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P/V

18/08/22

FORM 1		(FOR OFFICE USE ONLY)		
THE PATENTS ACT 1970 (39 of 1970) and THE PATENTS RULES, 2003				
APPLICATION FOR GRANT OF PATENT				
(See section 7, 54 and 135 and sub-rule (1) of rule 20)				
		Application No.	202241046883	
		Filing date:	18-08-2022	
		Amount of Fee paid:	1750/-	
		CBR No:	32682	
		Signature:	P.V. 18/08/22	
1. APPLICANT'S REFERENCE / IDENTIFICATION NO. (AS ALLOTTED BY OFFICE)				
2. TYPE OF APPLICATION [Please tick (✓) at the appropriate category]				
Ordinary (✓)		Convention ()	PCT-NP ()	
Divisional ()	Patent of Addition ()	Divisional ()	Patent of Addition ()	
3A. APPLICANT(S)				
Name in Full	Nationality	Country of Residence	Address of the Applicant	
Dr. R. GOPALAKRISHNAN	INDIAN	INDIA	Door No.	No. 162, Easwari Engineering College
			Street	Bharathi Salai
			City	Ramapuram, Chennai
			State	Tamil Nadu
			Country	India
			Pin code	600089
3B. CATEGORY OF APPLICANT [Please tick (✓) at the appropriate category]				
Natural Person ()	Other than Natural Person			
	Small Entity ()	Startup ()	Others (✓)	
4. INVENTOR(S) [Please tick (✓) at the appropriate category]				
Are all the inventor(s) same as the applicant(s) named above?	Yes ()		No (✓)	

If "No", furnish the details of the inventor(s)				
Name in Full	Nationality	Country of Residence	Address of the Inventor	
Dr. R. Gopalakrishnan	INDIAN	INDIA	Office	Department of Civil Engineering, Easwari Engineering College E-Mail: rajagopalan.gopalakrishnan0 @gmail.com
			Street	Bharathi Salai
			City	Ramapuram, Chennai
			State	Tamil Nadu
			Country	India
			Pin code	600089
Mr.G.Arun	INDIAN	INDIA	Office	Department of Civil Engineering, Sri Venkateswara College of Engineering.
			Street	Post Bag.No.1,
			City	Pennalur, Sriperumbudur,
			State	Tamil Nadu
			Country	India
			Pin code	602117
Mr.R.Mathiyazhagan	INDIAN	INDIA	Office	Department of Civil Engineering, Sri Venkateswara College of Engineering.
			Street	Post Bag.No.1,
			City	Pennalur, Sriperumbudur,
			State	Tamil Nadu
			Country	India
			Pin code	602117
Mr.S.Dharmar	INDIAN	INDIA	Office	Department of Civil Engineering, Ramco Institute of Technology.
			Street	Ayyanar Kovil Road
			City	Rajapalayam
			State	Tamil Nadu
			Country	India
			Pin code	626 117
Dr.S.Sivasankar,	INDIAN	INDIA	Office	Department of Civil Engineering, Sree Buddha College of Engineering
			Street	Pattoor
			City	Alappuzha
			State	Kerala
			Country	India
			Pin code	690 529
Dr.N.V.Prabhu	INDIAN	INDIA	Office	Department of Chemistry, Easwari Engineering College,
			Street	Bharathi Salai
			City	Ramapuram, Chennai
			State	Tamil Nadu
			Country	India
			Pin code	600089
PATENT OFFICE	CHENNAI	18 / 0	Page No. 2	Page No. 4 : 47

Pin code	600089
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5. TITLE OF THE INVENTION					
OPTIMIZED GEO-POLYMER CONCRETE WITH SLAG AND FLY-ASH BLENDS UNDER AMBIENT TEMPERATURE					
6. AUTHORISED REGISTERED PATENT AGENT(S)		IN/PA No.	N/A		
		Name	N/A		
		Mobile No.	N/A		
7. ADDRESS FOR SERVICE OF APPLICANT IN INDIA		Name	Dr. R. GOPALAKRISHNAN		
		Postal Address	Professor, Department of Civil Engineering, Easwari Engineering College (Autonomous), Ramapuram, Chennai – 600 089.		
		Telephone No.	--		
		Mobile No.	+91 9445680482		
		Fax No.	--		
		E-mail ID	1) rajagopalan.gopalakrishnan@gmail.com 2) gopalakrishnan.r@eec.srmrmp.edu.in		
8. IN CASE OF APPLICATION CLAIMING PRIORITY OF APPLICATION FILED IN CONVENTION COUNTRY, PARTICULARS OF CONVENTION APPLICATION					
Country	Application Number	Filing date	Name of the applicant	Title of the invention	IPC (as classified in the convention)
-	-	-	-	-	-
9. IN CASE OF PCT NATIONAL PHASE APPLICATION, PARTICULARS OF INTERNATIONAL APPLICATION FILED UNDER PATENT CO-OPERATION TREATY (PCT)					
International application number			International filing date		
-			-		
10. IN CASE OF DIVISIONAL APPLICATION FILED UNDER SECTION 16, PARTICULARS OF ORIGINAL (FIRST) APPLICATION					
Original (first) application No.		Date of filing of original (first) application			
-		-			
11. IN CASE OF PATENT OF ADDITION FILED UNDER SECTION 54, PARTICULARS OF MAIN APPLICATION OR PATENT					
Main application/patent No.		Date of filing of main application			
-		-			

12. DECLARATIONS

(i) Declaration by the inventor(s)

(In case the applicant is an assignee: the inventor(s) may sign herein below or the applicant may upload the assignment or enclose the assignment with this application for patent or send the assignment by post/electronic transmission duly authenticated within the prescribed period).

I/We, the above named inventor(s) is/are the true & first inventor(s) for this Invention and declare that the applicant(s) herein is/are my/our assignee or legal representative.

(a) Date : 18.08.2022

(b) Signature : R. Gopalakrishnan

(c) Name : Dr. R.GOPALAKRISHNAN

(a) Date : 18.08.2022

(b) Signature : G. Arun

(c) Name : Mr. G.ARUN

(a) Date : 18.08.2022

(b) Signature : M. Mathiyazhagan

(c) Name : M.R.MATHIYAZHAGAN

(a) Date : 18.08.2022

(b) Signature : S. Dharmar

(c) Name : S.DHARMAR

(a) Date : 18.08.2022

(b) Signature : S. Sivasankar

(c) Name : Dr.S.SIVASANKAR

(a) Date : 18.08.2022

(b) Signature : N. V. Prabhu

(c) Name : Dr.N.V.PRABHÜ

(ii) Declaration by the applicant(s) in the convention country

(In case the applicant in India is different than the applicant in the convention country: the applicant in the convention country may sign herein below or applicant in India may upload the assignment from the applicant in the convention country or enclose the said assignment with this application for patent or send the assignment by post/electronic transmission duly authenticated within the prescribed period)

I/We, the applicant(s) in the convention country declare that the applicant(s) herein is/are my/our assignee or legal representative.

- (a) Date : -
 (b) Signature : -
 (c) Name(s) of the signatory : -

(iii) Declaration by the applicant(s)

I/We the applicant(s) hereby declare(s) that: -

- I am/ We are in possession of the above-mentioned invention.
- The complete specification relating to the invention is filed with this application.
- ~~The invention as disclosed in the specification uses the biological material from India and the necessary permission from the competent authority shall be submitted by me/us before the grant of patent to me/us.~~
- There is no lawful ground of objection(s) to the grant of the Patent to me/us.
- I am/we are the true & first inventor(s).
- I am/we are the assignee or legal representative of true & first inventor(s).
- ~~The application or each of the applications, particulars of which are given in Paragraph 8, was the first application in convention country/countries in respect of my/our invention(s).~~
- ~~I/We claim the priority from the above mentioned application(s) filed in convention country/countries and state that no application for protection in respect of the invention had been made in a convention country before that date by me/us or by any person from which I/We derive the title.~~
- ~~My/our application in India is based on international application under Patent Cooperation Treaty (PCT) as mentioned in Paragraph 9.~~
- ~~The application is divided out of my /our application particulars of which is given in Paragraph 10 and pray that this application may be treated as deemed to have been filed on _____ under section 16 of the Act.~~
- ~~The said invention is an improvement in or modification of the invention particulars of which are given in Paragraph 11.~~

13. FOLLOWING ARE THE ATTACHMENTS WITH THE APPLICATION

(a) Form 2

Item	Details	Fee	Remarks
Complete Specification	No. of pages - 6	-	Within Limits
No. of Claim(s)	No. of claims - 6 No. of pages - 1	-	Within Limits
Abstract	No. of pages - 1	-	Within Limits
No. of Drawing(s)	No. of drawings - 0 No. of pages - 0	-	Within Limits

- (b) Complete specification (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies).
- (c) Sequence listing in electronic form
- (d) Drawings (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable.
- (e) Priority document(s) or a request to retrieve the priority document(s) from DAS (Digital Access Service) if the applicant had already requested the office of first filing to make the priority document(s) available to DAS.
- (f) Translation of priority document/Specification/International Search Report/International Preliminary Report on Patentability.
- (g) Statement and Undertaking on Form 3
- (h) Declaration of Inventorship on Form 5
- (i) Power of Authority
- (j) Total fee ₹ 4500 in Cash/ Banker's Cheque /Bank Draft bearing No 092407 Date 16.08.22 on Karur Vycr A Bank.

I/We hereby declare that to the best of my/our knowledge, information and belief the fact and matters slated herein are correct and I/We request that a patent may be granted to me/us for the said invention.

Dated this 18th day of August 2022

Signature: R. Agarwal (Dr. R. Agarwal (Right Hand))
Name: RA

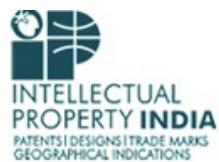
To,

The Controller of Patents
The Patent Office, at Chennai



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

सत्यमेव जयते



Application Details

APPLICATION NUMBER	202241046883
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	18/08/2022
APPLICANT NAME	Dr. R. GOPALAKRISHNAN
TITLE OF INVENTION	OPTIMIZED GEO-POLYMER CONCRETE WITH SLAG AND FLY-ASH BLENDS UNDER AMBIENT TEMPERATURE
FIELD OF INVENTION	CHEMICAL
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	rajagopalan.gopalakrishnan0@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	26/08/2022

Application Status

APPLICATION STATUS

Awaiting Request for Examination

[View Documents](#)





Certificate of Registration for a UK Design

Design number: 6311064

Grant date: 25 September 2023

Registration date: 18 September 2023

This is to certify that,

in pursuance of and subject to the provision of Registered Designs Act 1949, the design of which a representation or specimen is attached, had been registered as of the date of registration shown above in the name of

Murugan Sundaram Senthil Saravanan, Justin Abraham Baby Sajin, Parthipan

Thankaraj, Kaviraj Ramar Sengunthar

in respect of the application of such design to:

CLAMPING DEVICE FOR SUBMERGED FRICTION STIR WELDING

PROCESS

International Design Classification:

Version: 14-2023

Class: 08 TOOLS AND HARDWARE

Subclass: 05 OTHER TOOLS AND IMPLEMENTS

Adam Williams

Comptroller-General of Patents, Designs and Trade Marks

Intellectual Property Office

The attention of the Proprietor(s) is drawn to the important notes overleaf.



(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/12/2021

(21) Application No.202141058742 A

(43) Publication Date : 04/02/2022

(54) Title of the invention : Alloy based Binding Wire to Prevent Corrosion

(51) International classification	:C22C0021100000, C23F0013160000, C04B0111260000, C25D0011380000, C22F0001053000	(71) Name of Applicant : 1)R.M.K. Engineering College Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidi poondi Taluk, Tiruvallur, Kavarapettai, Tamil Nadu, India - 601 206. ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:PCT//	(72) Name of Inventor :
Filing Date	:01/01/1900	1)Arul Shankar B Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidi poondi Taluk, Tiruvallur, Kavarapettai, Tamil Nadu, India - 601 206. -----
(87) International Publication No	: NA	2)Dhananjayan G K Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidi poondi Taluk, Tiruvallur, Kavarapettai, Tamil Nadu, India - 601 206. -----
(61) Patent of Addition to Application Number	:NA	3)Dr. M. Usha rani Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidi poondi Taluk, Tiruvallur, Kavarapettai, Tamil Nadu, India - 601 206. -----
Filing Date	:NA	4)Dr.Binu Sukumar Address of Applicant :R.M.K. Engineering College, RSM Nagar, Gummidi poondi Taluk, Tiruvallur, Kavarapettai, Tamil Nadu, India - 601 206. -----
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The objective of the present invention is the development of binding wire made of zinc, magnesium and aluminium will be ribbed with steel binding wire in use, which will act as a sacrificial anode in the Reinforced concrete element. The main objective of this present invention is to develop aluminium, Zinc and magnesium based binding wire which will act as anode for cathodically protecting the steel embedded in Concrete in marine environment. To measure the concrete resistance by corrosion monitoring sensor. (Refer Fig. 1)

No. of Pages : 11 No. of Claims : 1