



"Education through self-help is our motto" - KARMAVEER

Estd : 1965

**Rayat Shikshan Sanstha's**  
**DAHIWADI COLLEGE, DAHIWADI**

**Tal. Man, Dist. Satara : 415 508**

[Arts, Science, Commerce, BCA, B.Voc.Agri.,  
 Bank Management, Defence Studies & Vocational Education]

Jr.College No. J-21.06.001

M.C.V.C. No. J-21.06.901

Phone : STD (02165)

(O) 220231

**Prin. Dr. Suresh T. Salunkhe**  
 [M.Sc.,Ph.D.,M.B.A.]

**Founder : Padmabhushan Dr. Karmaveer Bhaurao Patil D.Litt.**

[NAAC Third Cycle Reaccredited 'A' Grade (with CGPA 3.25)]

(Affiliated to Shivaji University, Kolhapur)





Web. : [www.dahiwadicollege.in](http://www.dahiwadicollege.in)

E-mail : [dcdprincipal@gmail.com](mailto:dcdprincipal@gmail.com)

**CRITERION III (RESEARCH INNOVATIONS AND EXTENSION)**

**Key Indicator 3.2- Innovation Ecosystem**

**Patents filed/ Published**

Sr. No	Name of Faculty	Departments	Title of Patent	Date of publication
1	 <b>Prin. Dr. S.T Salunkhe</b>	Chemistry	Solar Pawer insect drying chamber	14/10/2022
2	 <b>Mr. S. B Kumbhar</b>	Chemistry	Smart Cotton Stripes incorporative in plant Derived PH sensitive concentrate	28/05/2021
3	 <b>Mr. R.V. Sawant</b>	Chemistry	A new bandaging concept integrated with nanoparticle to support for healing of wounds indiabetics patients	1/07/2022
4	 <b>Mr. R.V Sawant</b>	Chemistry	A machine learning best approach to analyse the positive trait of carbon nanotubes in replacing silicon in microchips	10/6/2022



Rayat Shikshan Sanstha's  
**DAHIWADI COLLEGE, DAHIWADI**

Tal. Man, Dist. Satara : 415 508

[Arts, Science, Commerce, BCA, B.Voc.Agri.,  
Bank Management, Defence Studies & Vocational Education]

Founder : Padmabhushan Dr. Karmaveer Bhaurao Patil D.Litt.

[NAAC Third Cycle Reaccredited 'A' Grade (with CGPA 3.25)]

Jr.College No. J-21.06.001

M.C.V.C. No. J-21.06.901

Phone : STD (02165)

(O) 220231

Prin. Dr. Suresh T. Salunkhe  
[M.Sc., Ph.D., M.B.A.]

(Affiliated to Shivaji University, Kolhapur)




Web. : [www.dahiwadicollege.in](http://www.dahiwadicollege.in)

E-mail : [dcdprincipal@gmail.com](mailto:dcdprincipal@gmail.com)

CRITERION III (RESEARCH INNOVATIONS AND EXTENSION)

Key Indicator 3.2- Innovation Ecosystem

Patents filed/ Published


Sr. No	Name of Faculty	Departments	Title of Patent	Date of publication
5	 Dr. V. B Mamlayya	Physics	Aquatic insect larvae detecting and water testing smart device	29/4/2022
6	 Dr. V. B. Mamlayya	Physics	An agriculture farm management system using robotic assembly and nano sensors snails and weed control	24/6/2022
7	 Mr. P. D Jadhav (Student)	Chemistry	Mechanical lead pencil gives the previous information about the end of lead by using of colour pigmentation in normal black coloured lead	06/07/2018



  
PRINCIPAL  
DAHIWADI COLLEGE, DAHIWADI  
TAL. MAN, DIST. SATARA.

## Prin. Dr. S.T Salunkhe

INTELLECTUAL PROPERTY RIGHTS DIVISION PATENTS, DESIGNS, TRADE MARKS GEOGRAPHICAL INDICATIONS		GOVERNMENT OF INDIA		Controller General of Patents, Designs and Trademarks Department of Industrial Policy and Promotion Ministry of Commerce and Industry	
<b>Design Application Details</b>					
<b>Application Number:</b> 362826-001					
<b>Cbr Number:</b> 200774					
<b>Cbr Date:</b> 20/04/2022 14:42:37					
<b>Applicant Name:</b>					
1. Dr. Amol Balbhim Mamlayya					
2. Dr. Suresh Tukaram Salunkhe					
3. Dr. Varsha Sandip Kumbhar					
4. Dr. Niranjana Ramesh Giri					
<b>Design Application Status</b>					
<b>Application Status:</b> Design Accepted and Published, Journal No is 41/2022 and Journal Date is 14/10/2022					
<a href="#">Back</a>					

Design Number	362826-001	
Class	23-03	
1. Dr. Amol Balbhim Mamlayya Assistant Professor, Department of Zoology, Rayat Shikshan Sanstha's, Karmaveer Bhaurao Patil Mahavidyalaya, Pandharpur (Autonomous), Tal. Pandharpur, Dist. Solapur, Pin 413304 2. Dr. Suresh Tukaram Salunkhe Principal, Rayat Shikshan Sanstha's, Dahiwadi College, Dahiwadi, Tal. Man, District Satara Pin 415508 3. Dr. Varsha Sandip Kumbhar Assistant Professor, Department of Zoology Bharati Vidyapeeth's, Dr. Patangrao Kadam Mahavidyalaya, Sangli, Tal. Miraj, Dist. Sangli Pin 416 416 4. Dr. Niranjana Ramesh Giri Assistant Professor, Head Department of Zoology, Sahyadri Shikshan Mandal's, Dindori, Mahant Jamanadas Maharaj, Arts, Commerce and Science College Karanjali Tal Peth Dist Nashik 422208		
Date of Registration	20/04/2022	
Title	SOLAR-POWERED INSECT DRYING CHAMBER	
Priority NA		





# Mr. S.B. Kumbhar

(12) PATENT APPLICATION PUBLICATION  
(19) INDIA

(21) Application No. 201921047693 A

(22) Date of filing of Application : 22/11/2019

(43) Publication Date : 28/05/2021

(54) Title of the invention : SMART COTTON STRIPS INCORPORATING A PLANT DERIVED PH SENSITIVE CONCENTRATE

(51) International classification	A01N0065000000 G01N0033840000 G01N0057416000 C09K0017400000 A01N0065080000	(71) Name of Applicant : <b>1) KUMBHAR SUDHIR BHAGAVAN</b> Address of Applicant : A.P. BHAI AVANI, TAL- KHANAPUR, DIST-SANGLI Maharashtra India
(31) Priority Document No	:NA	(72) Name of Inventor : <b>1) KUMBHAR SUDHIR BHAGAVAN</b> <b>2) KUMBHAR PRIYANKA SUDHIR</b>
(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 :

The present invention discloses smart cotton strips incorporating a natural pH-sensitive concentrate, in which whole strips can be used to monitor the pH of water and soil. The pH parameter of water and soil facilitates the selection of proper treatment of water and soil for better crop production. The cotton strips with naturally occurring extracts from leaves of *Acalypha wilkesiana* and *Alternanthera brasiliana* sense pH accordance to the pH of water and soil. The invention further discloses a method for preparation of smart cotton strips. This invention satisfies environmental concern and found comparable.

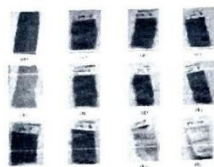


Figure 1: A series of 12 photographs showing cotton strips of various colors (white, yellow, orange, red, green, blue) used for pH testing. Each strip is labeled with a number from 1 to 12. The strips are arranged in a 3x4 grid. The strips show a color change from white to yellow, orange, red, green, and blue, indicating a pH range from 1 to 12.

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



PRINCIPAL  
DAHIWADI COLLEGE, DAHIWADI  
TAL. MAN, DIST. SATARA

The Patent Office Journal No. 22/2021 Dated 28/05/2021

25040



# Mr. R.V. Sawant

(12) PATENT APPLICATION PUBLICATION (19) INDIA (22) Date of filing of Application 14/06/2022	(21) Application No 202211034094 A (43) Publication Date 01/07/2022
--	--

(54) Title of the invention A NEW BANDAGING CONCEPT INTEGRATED WITH NANO PARTICLES TO SUPPORT FOR HEALING OF WOUNDS IN DIABETIC PATIENTS

(51) International classification (52) International Application No (53) Filing Date (54) International Publication No (55) Patent of Addition to Application Number (56) Divisional to Application Number (57) Filing Date	A61K0031519000 A61K0031517000 A61K0031530000 NA NA NA NA NA NA
---	--

(71) Name of Applicant Address of Applicant (72) Name of Inventor Address of Inventor (73) Name of Applicant Address of Applicant (74) Name of Applicant Address of Applicant (75) Name of Applicant Address of Applicant (76) Name of Applicant Address of Applicant (77) Name of Applicant Address of Applicant (78) Name of Applicant Address of Applicant (79) Name of Applicant Address of Applicant (80) Name of Applicant Address of Applicant (81) Name of Applicant Address of Applicant (82) Name of Applicant Address of Applicant (83) Name of Applicant Address of Applicant (84) Name of Applicant Address of Applicant (85) Name of Applicant Address of Applicant (86) Name of Applicant Address of Applicant (87) Name of Applicant Address of Applicant (88) Name of Applicant Address of Applicant (89) Name of Applicant Address of Applicant (90) Name of Applicant Address of Applicant (91) Name of Applicant Address of Applicant (92) Name of Applicant Address of Applicant (93) Name of Applicant Address of Applicant (94) Name of Applicant Address of Applicant (95) Name of Applicant Address of Applicant (96) Name of Applicant Address of Applicant (97) Name of Applicant Address of Applicant (98) Name of Applicant Address of Applicant (99) Name of Applicant Address of Applicant (100) Name of Applicant Address of Applicant	DR KESHAV PARASHAR BEHIND HANUMAN TEMPLE KARMCHARI COLONY Gangapur DR DEEPTI DWIVEDI INSTITUTE OF PHARMACY DR RAM MANOHAR LOHIA AVADHI UNIVERSITY Aashirva DR MANISH RAMBHAI AHIR ASSISTANT PROFESSOR AND HEAD DEPT OF MICROBIOLOGY, CHILAM NABI AZAD ARTS COMMERCE AND SCIENCE COLLEGE BARSHI AKLI 444001 DISTRICT AKOLA 444002 Akola DR RAJAT RANA MAHARAJA AGRASEN UNIVERSITY KALLUJHANDA Solan DR MIRAJ GUPTA COLLEGE OF PHARMACY AGRA DR. A.P.J. ABDUL KALAM TECHNICAL UNIVERSITY, LUCKNOW, UTTAR PRADESH Agra DR POONAM VERMA JENI UNIVERSITY NAWAPARA (KOSMI) BLOCK CHHURA, GARIABAND, CHHATTISGARH 493996 Chhura DR NITTA KUMAR SWAMY JENI UNIVERSITY NAWAPARA (KOSMI) BLOCK CHHURA, GARIABAND, CHHATTISGARH 493996 Chhura DR HARISHCHANDER ANANDARAM ASSISTANT PROFESSOR, CENTRE FOR EXCELLENCE IN COMPUTATIONAL ENGINEERING AND NETWORKING, AMRITA VISHWA VIDYAPEETHAM, COIMBATORE, TAMIL NADU, INDIA Coimbatore DR S. SUBHA ASSISTANT PROFESSOR IN DEPARTMENT OF MICROBIOLOGY, DR LANKAPALLI BULLAYYA COLLEGE VISAKHAPATNAM Visakhapatnam DR SAWANT RAJENDRA VITTHAL ASST. PROF. DEPARTMENT OF CHEMISTRY RAYAT SHIKSHAN SANSTHAN DAHIVADI COLLEGE DAHIVADI 413508 SATARA MAHARASHTRA Satara DR JOHN PIMO S ASSISTANT PROFESSOR, DEPT OF CSE, ST. XAVIER'S CATHOLIC COLLEGE OF ENGINEERING, CHUNKANKADAI Nagercoti DR BHAWANA LAKHANI ASSISTANT PROFESSOR CSE, VIKRANT INSTITUTE OF TECHNOLOGY AND MANAGEMENT, 453441 Mhow
---	---

(58) Abstract  
bandaging concept integrated with Nano Particles to support for Healing of Wounds in Diabetic Patients is the proposed invention. The invention aims at introducing a new bandaging diabetic patients. Diabetic patients are targeted since the wound healing ability is less in Diabetic patients. The Suitable Nano Particle is Selected and delivered to the wound region e concept of drug delivery. Healing of wounds in Diabetic patients is fastened through therapeutic treatment.

(59) Claims  
13 No. of Claims 3

PRINCIPAL  
DAHIVADI COLLEGE, DAHIVADI  
TAL. MAN. DIST. SATARA

26/2022 Dated 01/07/2022

41166



PRINCIPAL  
DAHIWADI COLLEGE, DAHIWADI  
TAL. MAN, DIST. SATARA

The Patent Office Journal No. 23/2022 Dated 10/06/2022

35262



# Dr. V.B. Mamlayya

29/02/22, 3:33 PM

2nd patent (2022)

**Design Application Details**

**Application Number:**  
357544-001

**Cbr Number:**  
212685

**Cbr Date:**  
28/01/2022 21:11:33

**Applicant Name:**  
1. Mr. Rajendra Raghunath Kakulte  
2. Dr. Amol Balbhim Mamlayya  
3. Dr. Vijayalaxmi Balbhim Mamlayya  
4. Miss Anita Bhalbhim Mamlayya

**Design Application Status**

**Application Status:**  
Application Accepted, Certificate of Design Generated.

**PRINCIPAL**  
DAHIWADI COLLEGE, DAHIWADI  
TAL. MAN, DIST. SATARA

8:52 PM 0.0KB/s 4G+

Search mamlayya Cancel

The Patent Office Journal No. 17/2022 Dated 29/04/2022 27621

DESIGN NUMBER	CLASS	DATE OF REGISTRATION	TITLE	PRIORITY NA
347661-001	06-09	09/08/2021	MATTESS	
357544-001	10-05			
1. MR. RAJENDRA RAGHUNATH KAKULTE DEPARTMENT OF CHEMISTRY, RAYAT SHIRDIHAN SANSTHA SATARA-75 KARNYER BHAURAO PATIL JUNIOR COLLEGE, ASHEDA, TAL. DAGLAN, DIST. NASHIK-423504, INDIA ; DR. AMOL BALBHIM MAMLAYYA ASSISTANT PROFESSOR, DEPARTMENT OF PHYSICS, RAYAT SHIRDIHAN SANSTHA SATARA-75 KARNYER BHAURAO PATIL JUNIOR COLLEGE, ASHEDA, TAL. DAGLAN, DIST. NASHIK-423504, INDIA ; DR. VIJAYALAXMI BALBHIM MAMLAYYA ASSISTANT PROFESSOR, DEPARTMENT OF PHYSICS, RAYAT SHIRDIHAN SANSTHA SATARA-75 KARNYER BHAURAO PATIL JUNIOR COLLEGE, ASHEDA, TAL. DAGLAN, DIST. NASHIK-423504, INDIA ; MISS ANITA BHALBHIM MAMLAYYA ASSISTANT PROFESSOR, DEPARTMENT OF BOTANY, RAYAT SHIRDIHAN SANSTHA-75 KARNYER BHAURAO PATIL JUNIOR COLLEGE, ASHEDA, TAL. DAGLAN, DIST. NASHIK-423504, INDIA				
357613-001	02-02	11/01/2022	SAHRE AND BLOUSE (NET)	
AQUATIC INSECT LARVAE DETECTING AND WATER TESTING SMART DEVICE				
357613-001	02-02	11/01/2022	SAHRE AND BLOUSE (NET)	
GUNDALYA RAVI DINESHBHAI 90, SHAYONA PLAZA, NR. PUNA SAROLE BRIS, PUNAGANI, SUBAL-392010, INDIA				

The Patent Office Journal No. 17/2022 Dated 29/04/2022 27622

Previous Next



# Dr. V.B. Mamlayya

12/09/22, 3:33 PM 1st vsm patent certificate.pdf

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

**CERTIFICATE OF PATENT PUBLICATION**

This certificate of Patent publication is hereby granted to  
**DR. VIJAYALAXMI BALBHIM MAMLAYYA**  
For the  
**Title: AN AGRICULTURAL FARM MANAGEMENT SYSTEM USING ROBOTIC ASSEMBLY AND NANOSENSORS FOR SNAIL AND WEED CONTROL**  
Application Number:  
202221028412  
Filed on 17th of may 2022.  
Published on 24th of June 2022 in The Patent Office  
Journal No. 25/2022

*Prashant*  
**PRINCIPAL**  
DAHIWADI COLLEGE, DAHIWADI  
TAL. MAN, DIST. SATARA.

# Mr. Prashant Dilip Jadhav

(15) PATENT APPLICATION PUBLICATION (21) Application No. 201821023005 A

(19) INDIA (43) Publication Date 06/07/2018

(22) Date of filing of Application 20/06/2018

(54) Title of the invention : MECHANICAL LEAD PENCIL GIVE THE PREVIOUS INFORMATION ABOUT THE END OF LEAD BY USING OF COLOUR PIGMENTATION IN NORMAL BLACK COLOURED LEAD.

(51) International classification (G11B) 20/00

(31) Priority Document No. (71) Name of Applicant: PRASHANT DILIP JADHAV

(32) Priority Date (72) Name of Inventor: PRASHANT DILIP JADHAV

(33) Name of priority country (73) Name of Inventor: PRASHANT DILIP JADHAV

(36) International Application No. (74) Name of Inventor: PRASHANT DILIP JADHAV

(37) International Publication No. (75) Name of Inventor: PRASHANT DILIP JADHAV

(61) Patent of Addition to Application Number (76) Name of Inventor: PRASHANT DILIP JADHAV

(62) Divisional to Application Number (77) Name of Inventor: PRASHANT DILIP JADHAV

(57) Abstract :  
MECHANICAL LEAD PENCIL GIVE PREVIOUS INFORMATION ABOUT THE END OF LEAD BY USING OF COLOUR PIGMENTATION IN NORMAL BLACK COLOUR LEAD. ABSTRACT - The colour pigmentation in lead which give the high comfort for the writing previous understanding the end of lead without any physical work which can enhance the comfort about their use in mechanical pencil. The pigmented lead used in mechanical pencil which give the previous information about their half end and also give the information about their end before 2-3 minute. When the mechanical lead are filled with colour pigmented lead and use for writing time. The start of writing through writing started point these are the larger part in lead. After , a long time writing the lead come to the middle portion and this show in blue colour at the middle portion about 1mm in length and by this pigmentation the 2-3 words come in blue colour this indicates the half of lead is end and the remaining half of lead start after go to the end with continuous writing. The end of lead is in pink colour up to 1-2 cm in length. When writing will be come to the end pink colour portion you will understand after 3-4 lines in pink colour the lead become end. Immediately you will replace the lead before the end or you will get previous information about their end in writing time.

No. of Pages : 8 No. of Claims : 1

The Patent Office Journal No. 27/2018 Dated 06/07/2018 25209

