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(54) Title of the invention : WEARABLE DEVICE TO MONITOR DEHYDRATION

(51) International classification :A61B5/00
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Filing Date :NA
(87) International Publication No : NA
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Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

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(72)Name of Inventor :

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2)Sushma Rani N

3)Dr.T.V.Madhusudhanarao

4)Ms.P.S.Latha Kalyampudi

5)Polamuri Subba Rao

6)I.Lakshmi Manikyamba

7)Satish Muppidi

(57) Abstract :

Title: Wearable Device to Monitor Dehydration The present disclosure discloses a wearable device to monitor dehydration. The wearable device analysis the dehydration of an individual by considering various parameters such as personTMs weight, height, age, previous health issues and life style. The wearable device further automatically alert the individual when dehydrated and recommend the amount of water to be taken to replace the loss. The wearable dehydration monitoring device can be a wrist watch or the like.

No. of Pages : 16 No. of Claims : 10



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

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Application Details	
APPLICATION NUMBER	201941013991
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	08/04/2019
APPLICANT NAME	Dr.P.Srinivasa Rao
TITLE OF INVENTION	WEARABLE DEVICE TO MONITOR DEHYDRATION
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	ganapathi@novelpatent.com
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E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	10/09/2019
PUBLICATION DATE (U/S 11A)	26/04/2019
REPLY TO FER DATE	19/08/2021

Application Status	
APPLICATION STATUS	Reply Filed. Application in amended examination



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

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201941013991-ABSTRACT [19-08-2021(online)].pdf	19/08/2021
201941013991-CLAIMS [19-08-2021(online)].pdf	19/08/2021
201941013991-COMplete SPECIFICATION [19-08-2021(online)].pdf	19/08/2021
201941013991-DRAWING [19-08-2021(online)].pdf	19/08/2021
201941013991-FER_SER_REPLY [19-08-2021(online)].pdf	19/08/2021
201941013991-OTHERS [19-08-2021(online)].pdf	19/08/2021
201941013991-FORM 18 [10-09-2019(online)].pdf	10/09/2019
Correspondence by Agent_Form26,Form3,Form5,Form1_11-04-2019.pdf	11/04/2019
201941013991-COMplete SPECIFICATION [08-04-2019(online)].pdf	08/04/2019
201941013991-DECLARATION OF INVENTORSHIP (FORM 5) [08-04-2019(online)].pdf	08/04/2019
201941013991-DRAWINGS [08-04-2019(online)].pdf	08/04/2019
201941013991-FORM 1 [08-04-2019(online)].pdf	08/04/2019
201941013991-FORM-9 [08-04-2019(online)].pdf	08/04/2019
201941013991-POWER OF AUTHORITY [08-04-2019(online)].pdf	08/04/2019
201941013991-REQUEST FOR EARLY PUBLICATION(FORM-9) [08-04-2019(online)].pdf	08/04/2019
201941013991-STATEMENT OF UNDERTAKING (FORM 3) [08-04-2019(online)].pdf	08/04/2019

"FORM 1 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)				(FOR OFFICE USE ONLY)	
				Application No.	
				Filing date:	
				Amount of Fee paid:	
				CBR No:	
				Signature:	
1. APPLICANT'S REFERENCE / IDENTIFICATION NO. (AS ALLOTTED BY OFFICE)					
2. TYPE OF APPLICATION [Please tick (✓) at the appropriate category]					
Ordinary (<input checked="" type="checkbox"/>)		Convention ()		PCT-NP ()	
Divisional ()	Patent of Addition ()	Divisional ()	Patent of Addition ()	Divisional ()	Patent of Addition ()
3A. APPLICANT(S)					
Name in Full		Nationality	Country of Residence	Address of the Applicant	
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				Country	India
				Pin code	535005
3B. CATEGORY OF APPLICANT [Please tick (✓) at the appropriate category]					
Natural Person (<input checked="" type="checkbox"/>)		Other than Natural Person			
		Small Entity ()	Startup ()	Others ()	
4. INVENTOR(S) [Please tick (✓) at the appropriate category]					
Are all the inventor(s)		Yes ()		No (<input checked="" type="checkbox"/>)	

same as the applicant(s) named above?				
If "No", furnish the details of the inventor(s)				
Name in Full	Nationality	Country of Residence	Address of the Inventor	
Dr P Srinivasa Rao	INDIAN	INDIA	House No.	
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			City	Vizianagaram district
			State	Andhra Pradesh
			Country	India
			Pin code	535005
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Street	Associate Professor , Computer Science and Engineering Department, Maharaj Vijayaram Gajapathi Raj College of Engineering (Autonomous)			
City	Vizianagaram district			
State	Andhra Pradesh			
Country	India			
Pin code	535005			
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			State	Andhra Pradesh
			Country	India
			Pin code	530046
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			City	West Godavari
			State	Andhra Pradesh
			Country	India
			Pin code	534250
I. LAKSHMI MANIKYAMBA	INDIAN	INDIA	House No.	16-31-518/201
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			City	Hyderabad
			State	Telangana
			Country	India
			Pin code	500 085
SATISH MUPPIDI	INDIAN	INDIA	House No.	
			Street	Assistant Professor Department of Information Technology, GMR Institute of Technology, GMR Nagar, Rajam
			City	Srikakulam
			State	Andhra Pradesh
			Country	India
			Pin code	532127
5. TITLE OF THE INVENTION				
Wearable device to monitor dehydration				
6. AUTHORISED REGISTERED PATENT AGENT(S)			IN/PA No.	2312
			Name	K.Ganapathi S Naidu
			Mobile No.	+91 9000111656

7. ADDRESS FOR SERVICE OF APPLICANT IN INDIA	Name	Dr P Srinivasa Rao
	Postal Address	Novel Patent Services Pvt.Ltd., HIG-421, MANSITA, Above Punjab National Bank, Midhilapuri VUDA Colony, P.M.Palem, Visakhapatnam-41, Andhra Pradesh, India
	Telephone No.	0891-2538757
	Mobile No.	+91 9000111656
	Fax No.	
	E-mail ID	ganapathi@novelpatent.com

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 country)

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

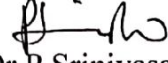
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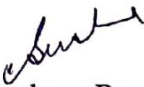
(i) Declaration by the inventor(s)

(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).

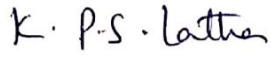
I, the above named inventor is the true & first inventor(s) for this Invention and declare that the applicant herein is my assignee or legal representative.

(a) Date: 26-03-2019

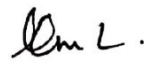
(b) Signature: 1. 
Name: 1. Dr P Srinivasa Rao

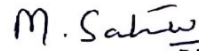
Signature: 2. 
Name: 2. Sushma Rani N

Signature: 3. 
Name: 3. Dr T V Madhusudhanarao

Signature: 4. 
Name: 4. Ms P.S.Latha Kalyampudi

Signature: 5. 
Name: 5. Polamuri Subba Rao

Signature: 6. 
Name: 6. I. Lakshmi Manikyamba

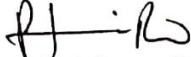
Signature: 7. 
Name: 7. Satish Muppidi


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

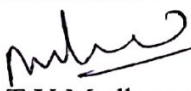
(In case the applicant in India is different than the applicant in the convention country: the applicant in the convention country may sign herein below or applicant in India may upload the assignment from the applicant in the convention country or enclose the said assignment with this application for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

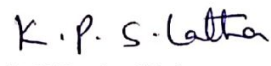
I, the applicant(s) in the convention country declare that the applicant(s) herein is/are my/our assignee or legal representative.

a) Date: 26-03-2019

(c) Signature: 1. 
Name: 1. Dr P Srinivasa Rao

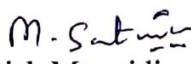
Signature: 2. 
Name: 2. Sushma Rani N

Signature: 3. 
Name: 3. Dr T V Madhusudhanrao

Signature: 4. 
Name: 4. Ms P.S.Latha Kalyampudi

Signature: 5. 
Name: 5. Polamuri Subba Rao

Signature: 6. 
Name: 6. I. Lakshmi Manikyamba

Signature: 7. 
Name: 7. Satish Muppidi

(iii) Declaration by the applicant(s)

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

- I am 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 the true & first inventor.
- I am the assignee or legal representative of true & first inventor.
- 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 DD/MM/YYYY 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/ provisional specification)#	No. of pages 10		
No. of Claim(s)	No. of claims and 10 No. of pages 03		
Abstract	No. of pages 01		
No. of Drawing(s)	No. of drawings and 02 No. of pages 02		

In case of a complete specification, if the applicant desires to adopt the drawings filed with his provisional specification as the drawings or part of the drawings for the complete specification under rule 13(4), the number of such pages filed with the provisional specification are required to be mentioned here.

- (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 (2 copies).
- (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

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 26th day of March, 2019

Signature: 

Name: K Ganapathi S Naidu

To,
The Controller of Patents
The Patent Office, at Chennai

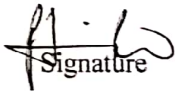
Note: -

- * Repeat boxes in case of more than one entry.
- * To be signed by the applicant(s) or by authorized registered patent agent otherwise where mentioned.
- * Tick (✓)/cross (x) whichever is applicable/not applicable in declaration in paragraph-12.
- * Name of the inventor and applicant should be given in full, family name in the beginning.
- * Strike out the portion which is/are not applicable.
- * For fee: See First Schedule";

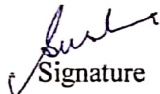
FORM 5
THE PATENTS ACT, 1970
(39 of 1970)
&
The Patents Rules, 2003
DECLARATION AS TO INVENTORSHIP
[See section 10(6); rule 13(6)]

We, **Dr.P.Srinivasa Rao, Sushma Rani.N, Dr.T.V Madhusudhanarao, Ms P.S.Latha Kalyampudi, Polamuri Subba Rao, I. Lakshmi Manikyamba, Satish Muppidi** hereby declare that the true and first inventors of the invention disclosed in the complete specification filed in pursuance of our application dated 26.03.2019 are

Dated this 26th day of March, 2019


Signature

Dr P Srinivasa Rao
INDIAN
Associate Professor,
Computer Science and Engineering Department,
Maharaj Vijayaram Gajapathi Raj College of Engineering (Autonomous)
Vizianagaram district
Andhra Pradesh-535005
India


Signature

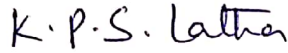
Sushma Rani N
INDIAN
Associate Professor,
Computer Science and Engineering Department,
Maharaj Vijayaram Gajapathi Raj College of Engineering (Autonomous)
Vizianagaram district
Andhra Pradesh-535005
India

Signature



Dr T V Madhusudhanarao,
INDIAN, Associate Professor
Vignan's Institute of Information Technology, Duvvada
Visakhapatnam
Andhra Pradesh-530046
India

Signature



Ms P.S.Latha Kalyampudi,
INDIAN,
Assistant Professor , Information technology Department,
BVRIT HYDERABAD College of Engineering for Women
Visakhapatnam
Andhra Pradesh-530046
India

Signature




Polamuri Subba Rao
S/O P. Venkatrao (Late),
Indian,
Rajeev Nagar Colony
Lankalakoderu Post
Palakollu Mandal
West Godavari District
Andhra Pradesh -534250
India

Signature



I. Lakshmi Manikyamba
D/O Prabhakararao,
Indian,
16-31-518/201
Venkatadrinivas Apartments
6th Phase, KPHB Colony
Hyderabad - 500 085
Telangana State, India

Signature


M. Satish

SATISH MUPPIDI

INDIAN

Assistant Professor

Department of Information Technology,

GMR Institute of Technology,

GMR Nagar, Razam

Srikakulam district

Andhra Pradesh- 532127

India,

To

The Controller of Patents,

The Patent Office, At CHENNAI.