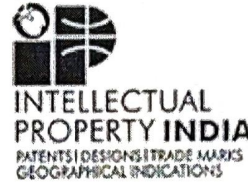




Office of the Controller General of Patents, Designs & Trade Marks  
Department of Industrial Policy & Promotion,  
Ministry of Commerce & Industry,  
Government of India

(<http://ipindia.nic.in/index.htm>)



(<http://ipindia.nic.in/index.htm>)

### Application Details

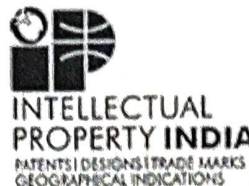
APPLICATION NUMBER	202241031341
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	01/06/2022
APPLICANT NAME	1 . DR.D.SURESH BABU 2 . DR. M.ARAVINDA 3 . DR.E.SRIRAM 4 . MR SURESH J 5 . BRAJESH KUMAR CHOUBEY 6 . DR. SHARIQ MOHAMMED 7 . MUGANDA MUNIR MANINI 8 . DR. THIMMAIAH BAYAVANDA CHINNAPPA 9 . K PREETHAM 10 . DR HARSHITHA YS 11 . DR. DEVESH PRATAP SINGH 12 . DR. BHARATH V G
TITLE OF INVENTION	DEEP REINFORCEMENT LEARNING METHOD FOR INDUSTRY RETURNS AND STOCK MARKET RETURNS
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	sgowthami12@gmail.com
ADDITIONAL-EMAIL (As Per Record)	sgowthami12@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	17/06/2022

### Application Status



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

(<http://ipindia.nic.in/index.htm>)



(<http://ipindia.nic.in/index.htm>)

### Application Details

APPLICATION NUMBER	202241036326
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	24/06/2022
APPLICANT NAME	1 . DR. D. SURESH BABU (Head and BoS Chairperson) 2 . DR. K. NAGESWAR RAO (Lecturer) 3 . J.V.S ARUNDATHI (Lecturer) 4 . K. USHA PAVANI (Lecturer) 5 . BABULU (Lecturer) 6 . J. GULABSINGH (Lecturer) 7 . V. PULLARAO (Lecturer) 8 . V. SWAPNA (Lecturer)
TITLE OF INVENTION	METHOD AND SYSTEM FOR ANALYZING CLOUD ARCHITECTURE USING MACHINE LEARNING MODELS
FIELD OF INVENTION	COMMUNICATION
E-MAIL (As Per Record)	ssapatents@gmail.com
ADDITIONAL-EMAIL (As Per Record)	sureshd123@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	01/07/2022

### Application Status



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

(<http://ipindia.nic.in/index.htm>)



(<http://ipindia.nic.in/index.htm>)

### Application Details

APPLICATION NUMBER	202241038010
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	01/07/2022
APPLICANT NAME	1 . DR. D. SURESH BABU (Head and BoS Chairperson) 2 . DR. K. NAGESWAR RAO (Lecturer) 3 . M. SRINIVASA RAO (Lecturer) 4 . J.V.S. ARUNDATHI (Lecturer) 5 . V. PULLARAO (Lecturer) 6 . K. USHAPAVANI (Lecturer) 7 . BABULU (Lecturer) 8 . D. PAVAN SRIVASTA (Student)
TITLE OF INVENTION	METHOD AND SYSTEM FOR DEPLOYING DEEP LEARNING TECHNIQUES FOR EFFICIENT BIG DATA ANALYTICS IN HEALTHCARE ENVIRONMENT
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	ssapatents@gmail.com
ADDITIONAL-EMAIL (As Per Record)	sureshd123@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	22/07/2022

### Application Status



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

(<http://ipindia.nic.in/index.htm>)



(<http://ipindia.nic.in/index.htm>)

### Application Details

APPLICATION NUMBER	202241038011
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	01/07/2022
APPLICANT NAME	1 . DR. KOLIPAKA SRINIVAS (Head and BoS Chairperson) 2 . KOLIPAKA AKSHAYA SREEJA (Student) 3 . D. PAVAN SRIVASTA (Student) 4 . DR. D SURESH BABU (Head & BoS Chairperson)
TITLE OF INVENTION	METHOD FOR UTILIZING MACHINE LEARNING (ML) MODELS FOR AUTOMATICALLY CORRECTING ERRORS IN GLOBAL HISTORICAL DATA
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	ssapatents@gmail.com
ADDITIONAL-EMAIL (As Per Record)	drsrinu75@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	22/07/2022

### Application Status

APPLICATION STATUS

**Awaiting Request for Examination**

[View Documents](#)

**(FOR OFFICE USE ONLY)**

**FORM 1**  
**THE PATENTS ACT, 1970**  
**(39 of 1970)**  
**&**  
**THE PATENTS RULES, 2003**  
**APPLICATION FOR GRANT OF PATENT**  
**[See sections 7,54 & 135 and rule 20(1)]**

**Application**  
**No.:** .....  
**Filing Date:** .....  
**Amount of Fee**  
**Paid:** .....  
**CBR No.:** .....  
**Signature:** .....

**1. APPLICANT(S):**

Sr.No.	Name	Nationality	Address	Country	State
1	Mrs. Deepti P Bhutada	India	Assistance Professor, BBA&BCA, MGV's Panchavati College of Management and Computer Science, Nashik, SPPU Pune, Maharashtra, India	India	Maharashtra
2	J V S ARUNDATHI	India	Faculty, Department of Computer Science SR&BGNR Government Art & Science Degree & PG College (Autonomous), Khammam, Telangana, India	India	Telangana
3	Balaji Ramkumar Rajagopal	India	Data Architect, Dept of Artificial intelligence and Analytics, IT industry, Chennai, Tamilnadu., India	India	Tamil Nadu
4	Dr. SAGAR G	India	Faculty of Management	India	Karnataka

			Studies Department of Management, Bangalore University, Bangalore, Karnataka, India		
5	Dr. S SRIRANJANI MOKSHAGUNDAM	India	Faculty of Management, Department of Management, Sri Jagadguru Balagangadhara College of Management Studies (SJBCMS), Bangalore, Karnataka, India	India	Karnataka
6	Xavier Mr. Bibin	India	Assistant professor, Marian Institute of Management, Marian College, Kuttikkanam, Kerala, India	India	Kerala
7	Archana Barthwal	India	Guest Faculty, CSE, Women Institute Of Technology, Dehradun, Uttrakhand, India	India	Uttarakhand
8	Mr. Devpriya Dey	India	Assistant Professor, School of Management, Jain (Deemed- to-be University), Bangalore, Karnataka, India	India	Karnataka
9	Mr. Bhaskar Kapoor	India	Assistant Professor, Department of Information Technology, Maharaja Agrasen Institute of Technology, New Delhi, India	India	Delhi
10	Dinesh Kumar	India	Ph.D. Research	India	Rajasthan

Scholar, Education, Raj Rishi Bhartrihari Matsya University, Alwar, Rajasthan, India
--

**2. INVENTOR(S):**

Sr.No.	Name	Nationality	Address	Country	State
1	Mrs. Deepti P Bhutada	India	Assistance Professor, BBA&BCA, MGV's Panchavati College of Management and Computer Science, Nashik, SPPU Pune, Maharashtra, India	India	Maharashtra
2	J V S ARUNDATHI	India	Faculty, Department of Computer Science SR&BGNR Government Art & Science Degree & PG College (Autonomous), Khammam, Telangana, India	India	Telangana
3	Balaji Ramkumar Rajagopal	India	Data Architect, Dept of Artificial intelligence and Analytics, IT industry, Chennai, Tamilnadu,, India	India	Tamil Nadu
4	Dr. SAGAR G	India	Faculty of Management Studies Department of Management, Bangalore University,	India	Karnataka

			Bangalore, Karnataka, India		
5	Dr. S SRIRANJANI MOKSHAGUNDAM	India	Faculty of Management, Department of Management, Sri Jagadguru Balagangadhara College of Management Studies (SJBCMS), Bangalore, Karnataka, India	India	Karnataka
6	Xavier Mr. Bibin	India	Assistant professor, Marian Institute of Management, Marian College, Kuttikkanam, Kerala, India	India	Kerala
7	Archana Barthwal	India	Guest Faculty, CSE, Women Institute Of Technology, Dehradun, Uttarakhand, India	India	Uttarakhand
8	Mr. Devpriya Dey	India	Assistant Professor, School of Management, Jain (Deemed- to-be University), Bangalore, Karnataka, India	India	Karnataka
9	Mr. Bhaskar Kapoor	India	Assistant Professor, Department of Information Technology, Maharaja Agrasen Institute of Technology, New Delhi, India	India	Delhi
10	Dinesh Kumar	India	Ph.D. Research Scholar, Education, Raj Rishi Bhartrihari Matsya University,	India	Rajasthan



Alwar, Rajasthan, India
----------------------------

**3. TITLE OF THE INVENTION: The Role of Artificial Intelligence on the Relationship between Job Balance and Employee Productivity in IT industry**

**4. ADDRESS FOR CORRESPONDENCE OF APPLICANT / Telephone No.:**  
**AUTHORISED PATENT AGENT IN INDIA:** Fax No.:  
 Assistance Professor, BBA&BCA, MGV's Panchavati College of Management and Computer Science, Nashik, SPPU Pune, Mobile No: 9461191512  
 Maharashtra, India E-mail: soni.mukesh15@gmail.com

**5. PRIORITY PARTICULARS OF THE APPLICATION(S) FILED IN CONVENTION COUNTRY:**

Sr.No.	Country	Application Number	Filing Date	Name of the Applicant	Title of the Invention
--------	---------	--------------------	-------------	-----------------------	------------------------

**6. PARTICULARS FOR FILING PATENT COOPERATION TREATY (PCT) NATIONAL PHASE APPLICATION:**

International Application Number	International Filing Date as Allotted by the Receiving Office
PCT//	

**7. PARTICULARS FOR FILING DIVISIONAL APPLICATION**

Original (first) Application Number	Date of Filing of Original (first) Application
-------------------------------------	--

**8. PARTICULARS FOR FILING PATENT OF ADDITION:**

Main Application / Patent Number:	Date of Filing of Main Application
-----------------------------------	------------------------------------

**9. DECLARATIONS:**

**(i) Declaration by the inventor(s)**

I/We ,Mrs. Deepti P Bhutada,J V S ARUNDATHI,Balaji Ramkumar Rajagopal,Dr. SAGAR G,Dr. S SRIRANJANI MOKSHAGUNDAM,Xavier Mr. Bibin,Archana Barthwal,Mr. Devpriya Dey,Mr. Bhaskar Kapoor,Dinesh Kumar, 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: -----

(b) Signature(s) of the inventor(s): .....

(c) Name(s): Mrs. Deepti P Bhutada, J V S ARUNDATHI, Balaji Ramkumar Rajagopal, Dr. SAGAR G, Dr. S SRIRANJANI MOKSHAGUNDAM, Xavier Mr. Bibin, Archana Barthwal, Mr. Devpriya Dey, Mr. Bhaskar Kapoor, Dinesh Kumar

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

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(s) : .....

(c) Name(s) of the singnatory: Mrs. Deepti P Bhutada, J V S ARUNDATHI, Balaji Ramkumar Rajagopal, Dr. SAGAR G, Dr. S SRIRANJANI MOKSHAGUNDAM, Xavier Mr. Bibin, Archana Barthwal, Mr. Devpriya Dey, Mr. Bhaskar Kapoor, Dinesh Kumar

**(iii) Declaration by the applicant(s)**

- **The Complete specification relationg to the invention is filed with this application.**
- **I am/We are, in the possession of the above mentioned invention.**
- **There is no lawful ground of objection to the grant of the Patent to me/us.**

10. FOLLOWING ARE THE ATTACHMENTS WITH THE APPLICATION:

Sr.	Document Description	FileName
-----	----------------------	----------

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

Dated this(Final Payment Date): -----

Signature: .....

(54) Title of the invention : THE ROLE OF ARTIFICIAL INTELLIGENCE ON THE RELATIONSHIP BETWEEN JOB BALANCE AND EMPLOYEE PRODUCTIVITY IN IT INDUSTRY

<p>(51) International classification :G06Q0010060000, G06F0021600000, G06Q0010100000, H04M0001020000, H01T0023000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : <b>1)Mrs. Deepti P Bhutada</b> Address of Applicant :Assistance Professor, BBA&amp;BCA, MGV's Panchavati College of Management and Computer Science, Nashik, SPPU Pune, Maharashtra, India ----- ---</p> <p><b>2)J V S ARUNDATHI</b> <b>3)Balaji Ramkumar Rajagopal</b> <b>4)Dr. SAGAR G</b> <b>5)Dr. S SRIRANJANI MOKSHAGUNDAM</b> <b>6)Xavier Mr. Bibin</b> <b>7)Archana Barthwal</b> <b>8)Mr. Devpriya Dey</b> <b>9)Mr. Bhaskar Kapoor</b> <b>10)Dinesh Kumar</b> Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : <b>1)Mrs. Deepti P Bhutada</b> Address of Applicant :Assistance Professor, BBA&amp;BCA, MGV's Panchavati College of Management and Computer Science, Nashik, SPPU Pune, Maharashtra, India ----- ---</p> <p><b>2)J V S ARUNDATHI</b> Address of Applicant :Faculty, Department of Computer Science SR&amp;BGNR Government Art &amp; Science Degree &amp; PG College (Autonomous), Khammam, Telangana, India ----- ---</p> <p><b>3)Balaji Ramkumar Rajagopal</b> Address of Applicant :Data Architect, Dept of Artificial intelligence and Analytics, IT industry, Chennai, Tamilnadu., India ----- ---</p> <p><b>4)Dr. SAGAR G</b> Address of Applicant :Faculty of Management Studies Department of Management, Bangalore University, Bangalore, Karnataka, India ----- ---</p> <p><b>5)Dr. S SRIRANJANI MOKSHAGUNDAM</b> Address of Applicant :Faculty of Management, Department of Management, Sri Jagadguru Balagangadhara College of Management Studies (SJCMS), Bangalore, Karnataka, India ----- ---</p> <p><b>6)Xavier Mr. Bibin</b> Address of Applicant :Assistant professor, Marian Institute of Management, Marian College, Kuttikkanam, Kerala, India ----- ---</p> <p><b>7)Archana Barthwal</b> Address of Applicant :Guest Faculty, CSE, Women Institute Of Technology, Dehradun, Uttarakhand, India ----- ---</p> <p><b>8)Mr. Devpriya Dey</b> Address of Applicant :Assistant Professor, School of Management, Jain (Deemed-to-be University), Bangalore, Karnataka, India ----- ---</p> <p><b>9)Mr. Bhaskar Kapoor</b> Address of Applicant :Assistant Professor, Department of Information Technology, Maharaja Agrasen Institute of Technology, New Delhi, India ----- ---</p> <p><b>10)Dinesh Kumar</b> Address of Applicant :Ph.D. Research Scholar, Education, Raj Rishi Bhartrihari Matsya University, Alwar, Rajasthan, India ----- -----</p>
---	---

(57) Abstract :


The role of artificial intelligence on the relationship between job balance and Employee Productivity in IT industry. The aim of present study is to test the relationship between work-life balance and job performance. Herein order to achieve the objectives, primary data were collected from 166 employees of selected private banks and the structured questionnaire was administered to collect the data and analyzed by using artificial intelligence and further the findings of the study revealed that work-life balance has positive and significant relationship with job performance in overall.

No. of Pages : 8 No. of Claims : 4

63P/1A1  
New app (CORP)

+f9  
Mar 1/22

D/100

<b>FORM 1</b> THE PATENTS ACT 1970 (39 of 1970) and THE PATENTS RULES, 2003 <b>APPLICATION FOR GRANT OF PATENT</b> (See section 7, 54 and 135 and sub-rule (1) of rule 20)				(FOR OFFICE USE ONLY)	
		Application No.	202241000353		
 700273971		Filing date:	04/01/2022		
		Amount of Fee paid:	1750/-		
		CBR No:	319/		
		Signature:	Mar 1/22		
<b>1. APPLICANT'S REFERENCE / IDENTIFICATION NO. (AS ALLOTTED BY OFFICE)</b>					
<b>2. TYPE OF APPLICATION [Please tick (✓) at the appropriate category]</b>					
Ordinary (✓)		Convention ( )		PCT-NP ( )	
Divisional ( )	Patent of Addition ( )	Divisional ( )	Patent of Addition ( )	Divisional ( )	Patent of Addition ( )
<b>3A. APPLICANT(S)</b>					
Name in Full		Nationality	Country of Residence	Address of the Applicant	
Dr. S. Selvakanmani		Indian	India	Address	Associate Professor & HOD, Department of Artificial Intelligence & Data Science, Velammal Institute of Technology, Velammal Gardens, Panchetti, Chennai - Kolkatta Highway, Chennai - 601204
				Mobile	8807484799
				E-mail id	sskanmani6@yahoo.com
Dr. S. Prabakeran		Indian	India	Address	Assistant Professor, Department of Networking and Communications, SRM Institute of Science & Technology (SRMIST) Kattankulathur, Chengalpattu District - 603 203, Tamil Nadu, India

04-Jan-2022/700/202241000353/Form 1

			Mobile	9042394880
			E-mail id	prabakeran_84@yahoo.co.in
Mr. Vijay M	Indian	India	Address	Assistant Professor, Department of ECE, Velammal Institute of Technology, Velammal Knowledge Park, Chennai – Kolkatta High Way, Panchetti, Thiruvallur District. Pincode – 601 204
			Mobile	9500372833
			E-mail id	vijaymepcoece@gmail.com
Mr. Mohankumar C E	Indian	India	Address	Assistant Professor, Department of ECE, GRT Institute Of Engineering and Technology, GRT Mahalakshmi Nagar, Chennai-Tirupathi Highway Tiruttani-631209
			Mobile	9445336089
			E-mail id	ceramsai@gmail.com
Ms. Priyadharshini G	Indian	India	Address	Lecturer, Department of Computer Engineering, Sri Ranganathar Institute Of Polytechnic College, Athipalayam, Coimbatore – 641110.
			Mobile	9750712877
			E-mail id	priya92.cs@gmail.com
Mr. G.Balram	Indian	India	Address	Assistant Professor, Department of Computer Science and Engineering, Anurag University, Venkatapur, Ghatkesar Medchal District, Hyderabad, Telangana, India - 500088
			Mobile	9492064511
			E-mail id	<del>balramcse@anurag.edu.in</del> balaramcs@anurag.edu.in

04-Jan-2022/700/202241000353/Form 1

Ms. J V S Arundathi	Indian	India	Address	Lecturer, Department of Computer Science Engineering, , SR&BGNR Govt. Arts and Science Degree and PG College(Autonomous), Khammam-507002
			Mobile	9848881973
			E-mail	jvs.arundathi@gmail.com
Ms. Maduri Madhavi	Indian	India	Address	Assistant professor , Department of Artificial Intelligence, Anurag University, Venkatapur, Ghatkesar Medchal District, Hyderabad, Telangana, India - 500088
			Mobile	9849408908
			E-mail	madurimadhavi@gmail.com
Mr. R. Partheepan	Indian	India	Address	Assistant professor, Department of Electronics and Communication Engineering , J.N.N Institute of Engineering ,No:90,Usha Garden, Chennai-Periyapalayam Highway, Kannigaipair, Tamil Nadu- 601102
			Mobile	9965303553
			E-mail	rpartheepanphd@gmail.com
Mr. Kishore Abishek	Indian	India	Address	Chief Technical Associate, Knowledge Xchange Community, No: 131/2, Emerald Flats, Thirumangalam, Anna Nagar West, Chennai – 600040 Tamil Nadu India
			Mobile	7868849598
			E-mail	mando.kishoreabishck86@gmail.com
<b>3B. CATEGORY OF APPLICANT [Please tick (✓) at the appropriate category]</b>				
Natural Person (✓)		Other than Natural Person		
		Small Entity ( )	Startup ( )	Others ( )
<b>4. INVENTOR(S) [Please tick (✓) at the appropriate category]</b>				
Are all the inventor(s) same as the applicant(s) named above?		Yes (✓)		No ( )

(a) Signature:

(b) Name: Dr. S. Selvakanmani

(a) Signature:

(b) Name: Dr. S. Prabakeran

(a) Signature:

(b) Name: Mr. Vijay M

(a) Signature:

(b) Name: Mr. Mohankumar C E

(a) Signature:

(b) Name: Ms. Priyadharshini G

(a) Signature:


(b) Name: Mr. Balram G

(a) Signature:

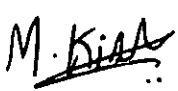
(b) Name: Ms. J V S Arundathi

(a) Signature:

(b) Name: Ms. Maduri Madhavi

(a) Signature: 

(b) Name: Mr. R. Partheepan

(a) Signature: 

(b) Name: Mr. Kishore Abishek

**5. TITLE OF THE INVENTION**

**Machine Vision based IoT enabled Pest Identification Drone with Cloud Computing Data Analytics**

<b>6. AUTHORISED REGISTERED PATENT AGENT(S)</b>	IN/PA No.	
	Name	
	Mobile No.	
<b>7. ADDRESS FOR SERVICE OF APPLICANT IN INDIA</b>	Name	Dr. S. Selvakanmani
	Postal Address	Associate Professor & HOD, Department of Artificial Intelligence & Data Science, Velammal Institute of Technology, Velammal Gardens, Panchetti, Chennai – Kolkatta Highway, Chennai - 601204
	State	Tamil Nadu
	Country	India
	Pin Code	601204
	Mobile	8807484799
	E-mail id	sskanmani6@yahoo.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
----------------------------------	---------------------------

04-Jan-2022/700/202241000353/Form 1



**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).

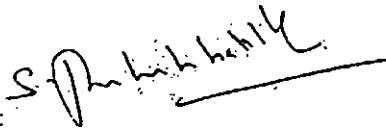
I/We, the above named inventor(s) is/are the true & first inventor(s) for this Invention and declare that the applicant(s) herein is/are my/our assignee or legal representative.

(a) Signature:



(b) Name: Dr. S. Selvakanmani

(a) Signature:



(b) Name: Dr. S. Prabakeran

(a) Signature:





(b) Name: Mr. Vijay M


(a) Signature:





(b) Name: Mr. Mohankumar C E


(a) Signature:   
(b) Name: Ms. Priyadarshini G

(a) Signature:   
(b) Name: Mr. Balram G

(a) Signature:   
(b) Name: Ms. J V S Arundathi

(a) Signature:   
(b) Name: Ms. Maduri Madhavi

(a) Signature:   
(b) Name: Mr. R. Partheepan

(a) Signature:   
(b) Name: Mr. Kishore Abishek

**(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.

**(i) Declaration by the applicant(s)**

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

- (a)  I am/ We are in possession of the above-mentioned invention.
- (b)  The ~~provisional~~/complete specification relating to the invention is filed with this application.
- (c)  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.
- (d)  There is no lawful ground of objection(s) to the grant of the Patent to me/us.
- (e)  I am/we are the true & first inventor(s).
- (f) I am/we are the assignee or legal representative of true & first inventor(s).
- (g) 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).
- (h) 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.
- (i) My/our application in India is based on international application under Patent Cooperation Treaty (PCT) as mentioned in Paragraph-9.
- (j) 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.
- (k) 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		
No. of Claim(s)	No. of claims and No. of pages		
Abstract	No. of pages		
No. of Drawing(s)	No. of drawings and No. of pages		

- (a) 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).
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- (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.
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- (g) Statement and Undertaking on Form 3
- (h)  Declaration of Inventorship on Form 5
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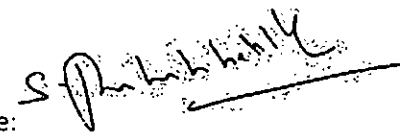
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I/We hereby declare that to the best of my/our knowledge, information and belief the fact and matters slated herein are correct and I/We request that a patent may be granted to me/us for the said invention.

Dated this.....day of.....20.....

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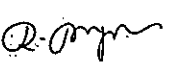
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To,  
The Controller of Patents  
The Patent Office, at.....

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- \* Repeat boxes in case of more than one entry.
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- \* 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.
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For fee: See First Schedule";

(54) Title of the invention : MACHINE VISION BASED IOT ENABLED PEST IDENTIFICATION DRONE WITH CLOUD COMPUTING DATA ANALYTICS

(51) International classification :A01M0007000000, G06K0009620000, G06T0007000000, B64C0039020000, A01N0065080000

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(57) Abstract :  
 This invention is an image processing product with hardware and software components for identification of pests on crops and sending an alert message to the farmer. Pests and insects are one of the most common problems in agriculture. As a generic solution, pesticides and insecticides are sprayed over the plants which affect the food grains. There is always a certain level of residue insecticide or pesticide on the food grains which has a certain level of toxicity. In this invention, an image processing based drone system is made to scan or comb through the field identifying the insects or pests. An early identification system can give enable a solution where these insects or pests are eliminated without chemical spraying. The on-board electronic computing unit on the drone sends the image or the processed information to the server. The server sends the notification to the farmer's mobile application on identification of the pest or insect. Conventional tested image processing algorithms like CNN and SVM are employed integrated with standard machine vision data analysing techniques.