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

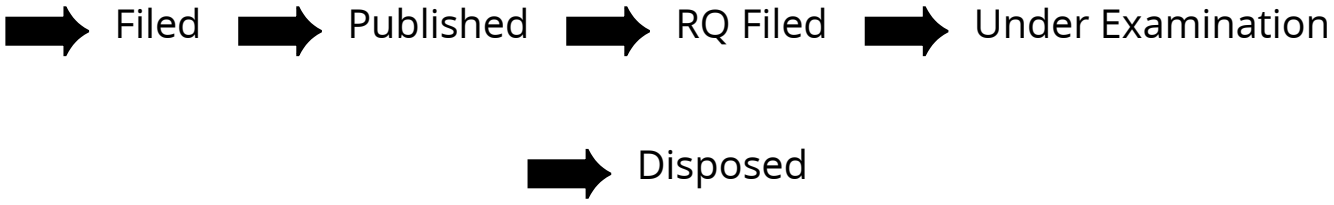
(http://ipindia.nic.in/index.htm)

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

Application Details	
APPLICATION NUMBER	202241008796
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	19/02/2022
APPLICANT NAME	1 . S ARUN 2 . Ramesh Mishra,Institute of Engineering Technology Dr Rammanohar Lohia Avadh University 3 . Dr. Sanjeet Pandey,Dr Rammanohar Lohia Avadh University 4 . Partha Sarkar ,Research Scholar,NIT 5 . VNR Vignana Jyothi Institute of Engineering and Technology 6 . Dr G.S.Thakur,MANIT 7 . Dr Alok Sagar Gautam,Hemvati Nandan Bahuguna Garhwal University 8 . Suparba Tapna,Durgapur Institute of Advanced Technology & Management 9 . Dr. Sanjive Tyagi,Subharti Institute of Technology and Engineering 10 . Dr. Sumit Kumar, 11 . Mohit kumar,student Galgotias university 12 . Surendra Singh Chauhan,Galgotias University 13 . Dr.Vineet Kumar Singh,Institute of Engineering and Technology Dr Rammanohar Lohia Avadh University
TITLE OF INVENTION	Intelligent caregiver wireless monitor and motion sensor for safe home system applicable for elderly people
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	yesarun1810@gmail.com
ADDITIONAL-EMAIL (As Per Record)	yesarun1810@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	11/03/2022

Application Status	
APPLICATION STATUS	**Awaiting Request for Examination**

View Documents



In case of any discrepancy in status, kindly contact ipo-helpdesk@nic.in

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :19/02/2022

(21) Application No.202241008796 A

(43) Publication Date : 11/03/2022

(54) Title of the invention : Intelligent caregiver wireless monitor and motion sensor for safe home system applicable for elderly people

(51) International classification :G06K0009000000, G08B0021040000, G06K0009620000, G08B0029180000, G08B0025000000

(86) International Application No :PCT//
Filing Date :01/01/1900

(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

(71)**Name of Applicant :**

1)S ARUN

Address of Applicant :SUBRAMANIYA BHARATHI ST ,BALAJI NAGAR NAGAR , ANAKAPUTHUR ,CHENNAI ---------- ----------

2)Ramesh Mishra,Institute of Engineering Technology Dr Rammanohar Lohia Avadh University

3)Dr. Sanjeet Pandey,Dr Rammanohar Lohia Avadh University

4)Partha Sarkar ,Research Scholar,NIT

5)VNR Vignana Jyothi Institute of Engineering and Technology

6)Dr G.S.Thakur,MANIT

7)Dr Alok Sagar Gautam,Hemvati Nandan Bahuguna Garhwal University

8)Suparba Tapna,Durgapur Institute of Advanced Technology & Management

9)Dr. Sanjive Tyagi,Subharti Institute of Technology and Engineering

10)Dr. Sumit Kumar,

11)Mohit kumar,student Galgotias university

12)Surendra Singh Chauhan,Galgotias University

13)Dr.Vineet Kumar Singh,Institute of Engineering and Technology Dr Rammanohar Lohia Avadh University

Name of Applicant : NA

Address of Applicant : NA

(72)**Name of Inventor :**

1)Ramesh Mishra,Institute of Engineering Technology Dr Rammanohar Lohia Avadh University

Address of Applicant :Assistant Professor Electronics and Communication Institute of Engineering Technology Dr Rammanohar Lohia Avadh University Ayodhya, Uttar Pradesh India 224001 ---------- ----------

2)Dr. Sanjeet Pandey,Dr Rammanohar Lohia Avadh University

Address of Applicant :Assistant Professor, Bachelor of computer science Dr Rammanohar Lohia Avadh University Ayodhya, Uttar Pradesh Uttar Pradesh India 224001 ---------- ----------

3)Partha Sarkar Research Scholar,NIT

Address of Applicant :Department of ECE NIT Durgapur India ---------- ----------

4)Dr. Ranjan Kumar Senapati,VNR Vignana Jyothi Institute of Engineering and Technology

Address of Applicant :Professor, Department of ECE VNR Vignana Jyothi Institute of Engineering and Technology Hyderabad Telengana India 500 090 ---------- ----------

5)Dr G.S.Thakur,MANIT

Address of Applicant :MBC Department MANIT Near Kali Mata Mandir Bhopal, Madhya Pradesh India 462003 ---------- ----------

6)Dr Alok Sagar Gautam,Hemvati Nandan Bahuguna Garhwal University

Address of Applicant :Assistant Professor Department of Physics Hemvati Nandan Bahuguna Garhwal University (A Central University) Srinagar Garhwal Uttarakhand India ---------- ----------

7)Suparba Tapna,Durgapur Institute of Advanced Technology & Management

Address of Applicant :Assistant Professor Department-ECE Durgapur Institute of Advanced Technology & Management India ---------- ----------

8)Dr. Sanjive Tyagi,Subharti Institute of Technology and Engineering

Address of Applicant :Associate Professor Subharti Institute of Technology and Engineering Swami Vivekanand Subharti University Meerut, Uttar Pradesh India ---------- ----------

9)Dr. Sumit Kumar,

Address of Applicant :Pune Maharastra India ---------- ----------

10)Mohit kumar,student Galgotias university

Address of Applicant :student Galgotias university BCA student greater noida,U.P India ---------- ----------

11)Surendra Singh Chauhan,Galgotias University

Address of Applicant :Assistant Professor Galgotias University Greater Noida U.P. India ---------- ----------

12)Dr.Vineet Kumar Singh,Institute of Engineering and Technology Dr Rammanohar Lohia Avadh University

Address of Applicant :Assistant Professor Information Technology Institute of Engineering and Technology Dr Rammanohar Lohia Avadh University Ayodhya, Uttar Pradesh India 224001 ---------- ----------

(57) Abstract :

As elderly people require care and support to live a healthy and secure existence free of anxieties and worry, it is critical to prioritise older people today. Inadequate knowledge of elderly people's growing behavioural trends at home leads to their relatives' harassment of them. We've developed a feasible home security system for the elderly that can be put in their houses here. We built a smart home security system that incorporates pedestrian monitoring, facial recognition, and fall detection, utilising open-source hardware for cameras and networks. To recognise moving objects, we employ the KNN model context subtraction method in conjunction with the open source OpenCV library and combine it with hog-svm to construct a pedestrian tracking module. To extract facial characteristics, a trained vggnet-16 neural network model is employed, followed by the development of a face recognition module suitable for international alarm intrusion. On the basis of the original openpose, the caffer model was modified to the mobilenet model for human motion recognition. At 18 key places on the body trunk, information on the location of six key points was gathered, and the role of fall detection was realised by integrating the SVM classifier. By integrating the GSM module, the details of the elderly man's residence and fall would be communicated for the first time to the elderly man's family members, who can completely ensure the elderly man's safety. According to our experiment, face recognition's fall behaviour recognition performance is strong; the face recognition rate can reach 85 percent, the fall behaviour recognition rate can reach more than 90 percent, and the fall false alarm rate is less than 10% for strangers and elders. As such, the recommended strategy should be applied in practise.

No. of Pages : 12 No. of Claims : 6