Patent Search

Invention Title	PREHISTORIAN INDOOR NAVIGATION BASED ON SENSORY INVASION FOR VISUALLY CHALLENGED PEOPLE
Publication Number	25/2021
Publication Date	18/06/2021
Publication Type	INA
Application Number	202141024018
Application Filing Date	29/05/2021
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	PHYSICS
Classification (IPC)	G01S0017890000, G01S0017931000, G01S0007481000, G01S0017420000, G01S0017860000

Inventor

Name	Address	Country	Nationality
Dr. M. Kasiselvanathan, Sri Ramakrishna Engineering College, Coimbatore.	Assistant professor Department of ECE Sri Ramakrishna Engineering College Vattamalaipalayam, Coimbatore-641022	India	India
Mr. Anshul Saxena, Christ University, Bangalore.	Assistant Professor Institute of Management Studies Christ University, Bangalore. India	India	India
Dr. Chandra PrakashLora, Vivekananda Global University, Jaipur.	Assistant Professor Department of Chemistry, Vivekananda Global University, Jaipur.	India	India
Mr. Srinivasa G, Sri Venkateswara College of engineering, Bangalore	Assistant professor Department of computer science and engineering Sri Venkateswara College of engineering, Bangalore	India	India
Dr.S.T.Deepa, Shri Shankarlal Sundarbai Shasun Jain College for Women, Chennai	Associate Professor Shri Shankarlal Sundarbai Shasun Jain College for Women, T.Nagar, Chennai	India	India
Dr.J.Persis Jessintha, Bishop Heber College, Trichy	Assistant Professor Department of Computer Science Bishop Heber College, Trichy	India	India
Dr.S.Balakrishnan, Sri Krishna College of Engineering and Technology, Coimbatore.	Professor, Department of Computer Science and Business System, Sri Krishna College of Engineering and Technology, Coimbatore. Tamilnadu, India. 641008	India	India

Applicant

Name	Address	Country	Nationality
Dr. M. Kasiselvanathan, Sri Ramakrishna Engineering College, Coimbatore.	Assistant professor Department of ECE Sri Ramakrishna Engineering College Vattamalaipalayam, Coimbatore-641022	India	India
Mr. Anshul Saxena, Christ University, Bangalore.	Assistant Professor Institute of Management Studies Christ University, Bangalore. India	India	India
Dr. Chandra PrakashLora, Vivekananda Global University, Jaipur.	Assistant Professor Department of Chemistry, Vivekananda Global University, Jaipur.	India	India
Mr. Srinivasa G, Sri Venkateswara College of engineering, Bangalore	Assistant professor Department of computer science and engineering Sri Venkateswara College of engineering, Bangalore	India	India
Dr.S.T.Deepa, Shri Shankarlal Sundarbai Shasun Jain College for Women, Chennai	Associate Professor Shri Shankarlal Sundarbai Shasun Jain College for Women, T.Nagar, Chennai	India	India
Dr.J.Persis Jessintha, Bishop Heber College, Trichy	Assistant Professor Department of Computer Science Bishop Heber College, Trichy	India	India
Dr.S.Balakrishnan, Sri Krishna College of Engineering and Technology, Coimbatore.	Professor, Department of Computer Science and Business System, Sri Krishna College of Engineering and Technology, Coimbatore. Tamilnadu, India. 641008	India	India

Abstract:

In this era, navigation continues to be a vital component in both outdoor and indoor environments, and many solutions have been given in both cases. Usually GPS is used for navigation, but in an indoor or underground environment, its signal is almost never available. In this work, we used LiDAR (Light Detection And Ranging) sensor and IMU sensor. LIDAR sensor is a famous remote sensing strategy utilized for estimating the specific distance of an item on the world's surface. It assumes a significant part for the prehistorian to comprehend the surface. LiDAR can identify miniature geography that is covered up by vegetation which assists classicist with understanding the surface. An IMU is a specific type of sensor that measures angular rate, force and sometimes magnetic field. Technically, the term “IMU” refers to just the sensor, but IMUs are often paired with sensor fusion software which combines data from multiple sensors to provide measures of orientation and heading.

Complete Specification

Claims:We claim,
1. A device that provides LIDAR sensor that is useful for remote sensing strategy utilized for estimating the specific distance of an item on the world's surface.
2. Also system uses IMU sensor which is a specific type of sensor that measures angular rate, force and sometimes magnetic field.
3. This system is useful to navigation a system that helps the visually impaired to move within indoor environments.
, Description:Moving and going in new environments is one of the fundamental and testing day by day exercises for outwardly disabled individuals. As per the most recent information delivered by the World Health Organization (WHO), more than 285 million individuals are assessed to be outwardly weakened around the world. One of the fundamental difficulties that this segment needs to look at in their regular daily existences is direction and portability in both outside and indoor situations. Outside route is enough managed by the Worldwide Situating Framework (GPS). Lamentably, GPS beneficiaries can't be utilized for indoor route since satellite signs don't effectively enter inside structures and, hence, indoor route keeps on being a difficult issue. In this work, we propose a prototype of a navigation system that helps the visually impaired to move within indoor environments.

View 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)

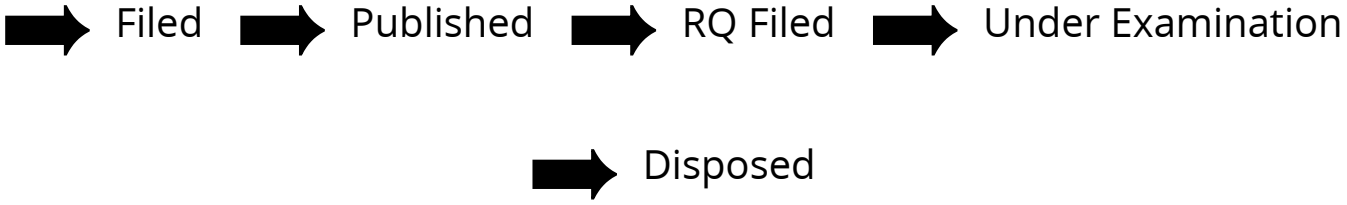
INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

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

Application Details	
APPLICATION NUMBER	202141024018
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	29/05/2021
APPLICANT NAME	1 . Dr. M. Kasiselvanathan, Sri Ramakrishna Engineering College, Coimbatore. 2 . Mr. Anshul Saxena, Christ University, Bangalore. 3 . Dr. Chandra PrakashLora, Vivekananda Global University, Jaipur. 4 . Mr. Srinivasa G, Sri Venkateswara College of engineering, Bangalore 5 . Dr.S.T.Deepa, Shri Shankarlal Sundarbai Shasun Jain College for Women, Chennai 6 . Dr.J.Persis Jessintha, Bishop Heber College, Trichy 7 . Dr.S.Balakrishnan, Sri Krishna College of Engineering and Technology, Coimbatore.
TITLE OF INVENTION	PREHISTORIAN INDOOR NAVIGATION BASED ON SENSORY INVASION FOR VISUALLY CHALLENGED PEOPLE
FIELD OF INVENTION	PHYSICS
E-MAIL (As Per Record)	drkasiselvanathanvkm@gmail.com
ADDITIONAL-EMAIL (As Per Record)	drkasiselvanathanvkm@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	18/06/2021

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

			View Documents



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