

पेटेंट कार्यालय  
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(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121023957 A

(19) INDIA

(22) Date of filing of Application :29/05/2021

(43) Publication Date : 02/07/2021

(54) Title of the invention : AUTOMATED BATTERY DISTILLED WATER FILLING, WATER FILTER FLUSHING AND FERTILIZERS SPRAYER.

(51) International classification	:H01M0002360000, A61K0009000000, B60L0050640000, G06T0011600000, A61H0007000000	(71)Name of Applicant : <b>1)Karande Piyush Naresh (Final Year B-Tech (Electrical Engineering))</b> Address of Applicant :Arvind Gavali College of Engineering, Satara, MH, India. Sponsoring Firm: Siddheshwar Electricals Address of the Firm: Rajgurunagar, Sangam Mahuli Phata, Satara-415003, MH, India. Email id: piyushkarande825@gmail.com, piyushkarande70@gmail.com Maharashtra India <b>2)Karande Rupali Naresh (Owner of Siddheshwar Electricals)</b> <b>3)Karande Naresh Uttam (Employee at MSEDCL ,Maharashtra state electricity distribution corporation limited)</b> <b>4)Karande Ayush Naresh (Employee at Siddheshwar Electricals)</b>
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Karande Piyush Naresh (Final Year B-Tech (Electrical Engineering))</b>
(33) Name of priority country	:NA	<b>2)Karande Rupali Naresh (Owner of Siddheshwar Electricals)</b>
(86) International Application No	:NA	<b>3)Karande Naresh Uttam (Employee at MSEDCL ,Maharashtra state electricity distribution corporation limited)</b>
Filing Date	:NA	<b>4)Karande Ayush Naresh (Employee at Siddheshwar Electricals)</b>
(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 :

ABSTRACT Battery Electrolyte filling it is very difficult task for everyone therefore these work of the human being we will carried out by the automated machine these machine fills battery Electrolyte with very minimal wastage , without spilling and Fill Right Amount Of Requires Quantity Based On the Age Of The Battery It will calculate required Amount Of electrolyte And Fill In the battery Cell and This Machine Is Portable Also using Of This Machine Will Reduce Risks Of sever Back Pain , Skin Cancer(because of hand does not come in contact in battery Electrolyte), Sever lung Problems Cause due to fumes goes in our nose and directly contact with our lungs, it will works on the battery power 24v dc as well as on the electricity of 230 v ac this machine has automatic changeover switch so any type of power we will connect to it and machine senses the supply and modify it<sup>TM</sup>s circuit on its own we do not require to change anything machine will works on its own and Electrolyte filling is based on the battery age machine will.

No. of Pages : 14 No. of Claims : 6

पेटेंट कार्यालय  
शासकीय जर्नल

**OFFICIAL JOURNAL  
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पेटेंट कार्यालय का एक प्रकाशन  
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(54) Title of the invention : RETRO-FITMENT KIT FOR THREE-WHEELER AUTO RICKSHAW TO CONVERT IC ENGINE INTO ELECTRICAL DRIVE USING GEAR BOX

(51) International classification	:F02M0025080000, B62K0013040000, B60L0050500000, B62K0005020000, F01N0013000000	(71) <b>Name of Applicant :</b> <b>1)Dr. Vilas Arjun Pharande</b> Address of Applicant :Principal and Guide, Arvind Gavali College of Engineering, Satara, MH, India. E-mail: vilas.agcesatara@gmail.com Maharashtra India
(31) Priority Document No	:NA	<b>2)Mr. Aakash Sunil Naykude</b>
(32) Priority Date	:NA	<b>3)Mr. Aniket Avinash Darekar</b>
(33) Name of priority country	:NA	<b>4)Mr. Abhishek Shankarrao Katkar</b>
(86) International Application No	:NA	<b>5)Mr. Akash Narendra Borate</b>
Filing Date	:NA	(72) <b>Name of Inventor :</b>
(87) International Publication No	: NA	<b>1)Dr. Vilas Arjun Pharande</b>
(61) Patent of Addition to Application Number	:NA	<b>2)Mr. Aakash Sunil Naykude</b>
Filing Date	:NA	<b>3)Mr. Aniket Avinash Darekar</b>
(62) Divisional to Application Number	:NA	<b>4)Mr. Abhishek Shankarrao Katkar</b>
Filing Date	:NA	<b>5)Mr. Akash Narendra Borate</b>

## (57) Abstract :

ABSTRACT Our Invention Retro-fitment Kit for Three-Wheeler Auto Rickshaw to Convert IC engine into Electrical Drive Using Gear Box is a development of Retrofitting kit for converting Internal Combustion Engine (ICE) three-wheel auto rickshaw into an Electrical vehicle. The vehicle pollution in the form of tailpipe exhaust on one side and Early Evaporative Emission on the other and also noise pollution due to higher Noise Vibration & Harshness (NVH) level of ICE power train used in existing vehicles have made it obligatory to switch over e-vehicles (EV). Among various carriages viz. Taxis, MUVs, AC taxies, Three-Wheel Auto Rickshaw (TAR), Three-Wheel Scooter Rickshaw (TSR), and Three-Wheel Cycle Rickshaw (TCR) used in IPT, TAR are large with regards to the population. It is essential to replace them with either e-TST or e-TAR to reduce urban pollution. As a new electric rickshaw price is high so this retro fitment kit is midway to auto-rickshaw users as its cost is lesser than a new electric rickshaw. Entire literature related to the activities from many countries was of great help in finalizing the kit design and devising strategy in the implementation of kit on a vehicle.

No. of Pages : 10 No. of Claims : 6

पेटेंट कार्यालय  
शासकीय जर्नल

**OFFICIAL JOURNAL  
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पेटेंट कार्यालय का एक प्रकाशन  
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(54) Title of the invention : RETROFIT KIT TO CONVERT NORMAL SOLAR WATER HEATER SYSTEM IN TO HYBRID SOLAR WATER HEATER SYSTEM.

(51) International classification :F24S0060300000, H02S0040440000, F24S0010750000, F24S0090100000, F24S0010600000

(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

(71)Name of Applicant :  
**1)Karande Piyush Naresh**  
 Address of Applicant :Anurup Bunglow Sangam Mahuli Phata Satara-415003, MH, India. Firm- Siddheshwar Electricals Agce Alumnus. -----  
**2)Karande Ayush Naresh**  
**3)Karande Naresh Uttam**  
 Name of Applicant : NA  
 Address of Applicant : NA

(72)Name of Inventor :  
**1)Karande Piyush Naresh**  
 Address of Applicant :Anurup Bunglow Sangam Mahuli Phata Satara-415003, MH, India. Firm- Siddheshwar Electricals Agce Alumnus. -----  
**2)Karande Ayush Naresh**  
 Address of Applicant :Anurup Bunglow Sangam Mahuli Phata Satara-415003, MH, India. -----  
**3)Karande Naresh Uttam**  
 Address of Applicant :Anurup Bunglow Sangam Mahuli Phata Satara-415003, MH, India -----

(57) Abstract :

ABSTRACT Our Invention “Retrofit Kit to Convert Normal Solar Water Heater System in to Hybrid Solar Water Heater System” is a plan contemplations and test consequences of a canteen phonic half breed PV/T nearby planet group that is examined at the University of Patras. Crossover PV/T frameworks can give electrical and nuclear power, subsequently accomplishing a higher energy transformation pace of the assimilated sunlight-based radiation. We tried outside PV/T models comprised of PC-SI PV modules and hotness exchanger of copper sheet with copper pipes, for two framework types (PVT/UNGL and PVT/GL). We utilized business PV modules, which give around 15%-18% effectiveness, contingent upon the working temperature and the utilization or not of extra coating. During the tests the created power was sent to a heap, recreating genuine framework activity. Consistent state trial of the framework was performed outside to decide gatherer warm effectiveness. The coated PV/T gatherer presents astoundingly higher warm yield than the unglazed PV/T authority, yet its electrical yield is decreased because of extra optical misfortunes. The test investigation of the tried canteen phonic mixture PV/T sun powered gadget showed that it can perform successfully during the entire year, accomplishing somewhere around 46 °C of heated water and delivering power at a palatable level.

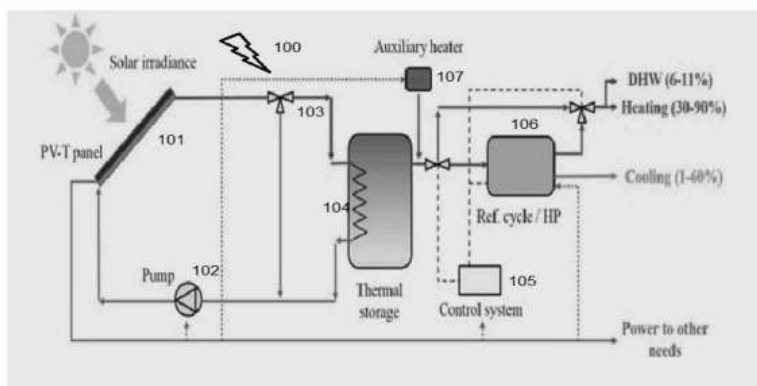


FIG1.: Retrofit Kit to Convert Normal Solar Water Heater System in to Hybrid Solar Water Heater System Flow Chart.

No. of Pages : 15 No. of Claims : 6

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शासकीय जर्नल

**OFFICIAL JOURNAL  
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(54) Title of the invention : A MACHINE LEARNING MODEL FOR VENUE EXPLORATION AND RECOMMENDATION.

(51) International classification :G06Q0050140000, G06Q0030020000, G06N0020000000, G06Q0050100000, G06N0005040000

(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

(71)Name of Applicant :  
**1)Dr. Gayatri Mirajkar, Professor and Guide**  
 Address of Applicant :Arvind Gavali College of Engineering, Satara – 415015, MH, India -----

**2)Pooja Subhash Bansode**  
**3)Vidya Suresh Parihar**  
**4)Akshata Dilip Godse**  
**5)Aishwarya Kishor Kothawale**  
 Name of Applicant : NA  
 Address of Applicant : NA

(72)Name of Inventor :  
**1)Dr. Gayatri Mirajkar, Professor and Guide**  
 Address of Applicant :Arvind Gavali College of Engineering, Satara – 415015, MH, India -----

**2)Pooja Subhash Bansode**  
 Address of Applicant :At Post Koregaon (Jalgaon Road), Dist. Satara – 415501, MH, India -----

**3)Vidya Suresh Parihar**  
 Address of Applicant :At Post Koregaon (New Bus Stand Road), Dist. Satara – 415501, MH, India -----

**4)Akshata Dilip Godse**  
 Address of Applicant :At Shivajinagar Post Vaduj, Tal. Khatav, Dist. Satara – 415506, MH, India -----

**5)Aishwarya Kishor Kothawale**  
 Address of Applicant :At Post Koregaon (Shanti Nagar), Dist. Satara – 415501, MH, India -----

(57) Abstract :

ABSTRACT Our Invention A Machine Learning Model for Venue Exploration and Recommendation is a with the rise of demand for scalable standalone system for venue’s exploration and recommendation plays an increasingly important role, for accurate and speedy Venue’s exploration, recommendation and analysis system can help tourism and hospitality sector to solve all the uncertainty associated with Service, information and supply and reduce cost associated with is and produce best results. Most of the business organizations associated with tourism and hospitality sector heavily depend on information base and demands venue’s exploration, recommendation, prediction of trends. The accuracy in venue’s exploration and recommendation provides a big impact in business. Data mining, collaborative filtering and k-means methods are very actual tools in extracting hidden knowledge from an enormous dataset to enhance accuracy and efficiency of their commendation.

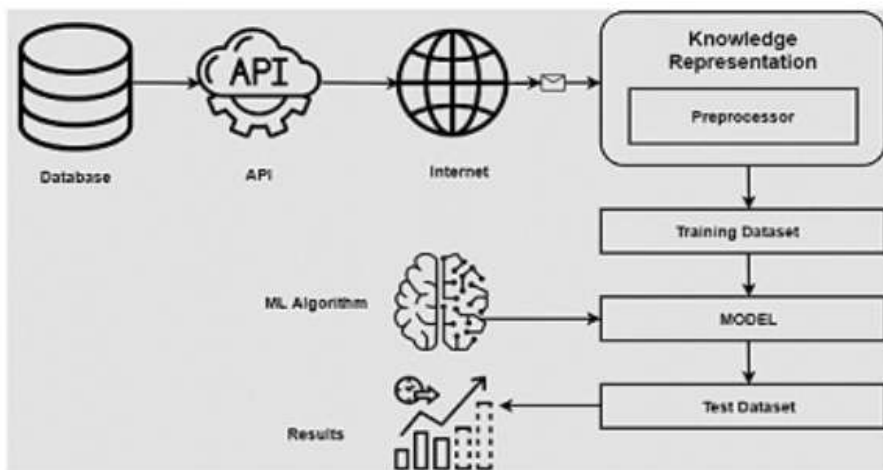


FIG.1: Recommendation System

No. of Pages : 13 No. of Claims : 5



पेटेंट कार्यालय  
शासकीय जर्नल

**OFFICIAL JOURNAL  
OF  
THE PATENT OFFICE**

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(12) PATENT APPLICATION PUBLICATION

(21) Application No.202221022140 A

(19) INDIA

(22) Date of filing of Application :13/04/2022

(43) Publication Date : 20/10/2023

(54) Title of the invention : HYDROGEN-ETHENOL-EV BIKE AND FUEL. (H.E.EV) / SHIVENDRA RAJE EV BIKE .

(51) International classification	:C10L0005440000, C10L0001080000, C10L0001190000, C01B0013020000, H01M0004880000	(71) <b>Name of Applicant :</b> <b>1)vikrant subhash pawar</b> Address of Applicant :city court apartment A-8 molacha odha satara Maharashtra India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b> <b>1)vikrant subhash pawar</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 :

ABSTRACT :- I have discovered one such fuel that is less polluting than other available fuels.This fuel will never run out as long as the living things on earth are alive because it is a kind of biofuel that we can create the same or not like other fuels we want to extract from the ground.The raw material required to make this fuel is available in large quantities on our land so we will never be short of it.This fuel is much cheaper than the available fuel because of the high availability of raw materials.If we continue to use this fuel, we can reduce the pollution to a great extent by using it and it is also affordable to the common man.While making this fuel there is no pollution and no harm in any way and we can reuse the western material that comes out of it.If we want to make this fuel, we can start it in a small space and there is no need for any techanishiyen and the farmer can do it better by doing more work.This fuel consists of 1 fuel thus 1 fuel has been invented using two fuels.

No. of Pages : 19 No. of Claims : 7

पेटेंट कार्यालय  
शासकीय जर्नल

**OFFICIAL JOURNAL  
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(54) Title of the invention : SECRET KEY MANAGEMENT FOR DISTRIBUTED WIRELESS SENSOR NETWORK

(51) International classification :H04W0084180000, H04L0009080000, H04W0052020000, H04W0012040000, H04L0029060000

(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

## (71)Name of Applicant :

**1)Dr. Sunil Kumar**

Address of Applicant :Professor Computer Science &amp; Engineering Meerut Institute of Engineering and Technology, Meerut, Uttar Pradesh , 250005 -----

**2)Dr. Kapil Kumar****3)Mrs. Rajani Mahendra Mandhare****4)Dr. Varsha Kiran Bhosale****5)Mrs. Sonali K Pawar****6)Mr. Dharendra Siddharth****7)Mr. Manish Sharma**

Name of Applicant : NA

Address of Applicant : NA

## (72)Name of Inventor :

**1)Dr. Sunil Kumar**

Address of Applicant :Professor Computer Science &amp; Engineering Meerut Institute of Engineering and Technology, Meerut, Uttar Pradesh , 250005 -----

**2)Dr. Kapil Kumar**

Address of Applicant :Professor Master of Computer Application Meerut Institute of Engineering and Technology, Meerut, Uttar Pradesh , 250005 -----

**3)Mrs. Rajani Mahendra Mandhare**

Address of Applicant :Assistant Professor Computer Science &amp; Engineering Arvind Gavali College of Engineering, Satara, Maharashtra 415001 -----

**4)Dr. Varsha Kiran Bhosale**

Address of Applicant :Associate Professor Computer Science &amp; Engineering Dyanshree Institute of Engineering and Technology ,Saijangadh, Satara, Maharashtra 415001 -----

**5)Mrs. Sonali K Pawar**

Address of Applicant :Assistant Professor Electronics and Communication Engineering Bharati Vidyapeeth (Deemed to be University) College of Engineering, Dhankawadi, Pune , Maharashtra 411043 -----

**6)Mr. Dharendra Siddharth**

Address of Applicant :Assistant Professor Computer Science &amp; Engineering, Sreenidi Institute of Science and Technology, Yamnampet, Gharkesar, Hyderabad 501301 -----

**7)Mr. Manish Sharma**

Address of Applicant :Assistant Professor School of Computer Science &amp; Application, IIMT University ,Meerut, Uttar Pradesh 250001 -----

## (57) Abstract :

The present invention is a method of secret key management in wireless sensor network. Data from a plurality of sensors are sent to a plurality of sensor nodes in a wireless sensor network for protecting with secure key pairs between every two nodes. When a new sensor node joins the network, base station distributes identity numbers, corresponding public keys, and one-way functions that the new node adopts and sets up in a similar manner with neighbor nodes to key. The present invention, when a node moves, the neighbor node that was communicating with the key before it was removed, and the mobile node and the new neighbor node set up new secure communication to key. Each link in the network has a unique key, failure nodes cannot reveal all the information about the other links' security. The secure data is to the device of the user through the base station.

No. of Pages : 14 No. of Claims : 3

पेटेंट कार्यालय  
शासकीय जर्नल

**OFFICIAL JOURNAL  
OF  
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(54) Title of the invention : DP TRANSFORMER THEFT PROTECTION AND MONITORING SYSTEM.

(51) International classification :H04N0007180000, G08B0013140000, H01L0031020000, C23F0013220000, G06F0021880000

(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

(71)Name of Applicant :  
**1)DR.PHARANDE VILAS ARJUN**  
 Address of Applicant :ARVIND GAVALI COLLEGE OF ENGINEERING, PANMALEWADI, POST-VARYE, SATARA-415 015, MAHARASHTRA, INDIA. -----

**2)MS.GAVALI MANISHA KRUSHNAT**  
**3)MS.GURAV KANCHAN DATTATRAY**  
**4)MS.WARAGADE MRUNALI DILIP**  
**5)MRS.NIKAM PRIYANKA CHANDRAKANT**

Name of Applicant : NA  
 Address of Applicant : NA

(72)Name of Inventor :  
**1)DR.PHARANDE VILAS ARJUN**  
 Address of Applicant :ARVIND GAVALI COLLEGE OF ENGINEERING, PANMALEWADI, POST-VARYE, SATARA-415 015, MAHARASHTRA, INDIA. -----

**2)MS.GAVALI MANISHA KRUSHNAT**  
 Address of Applicant :ARVIND GAVALI COLLEGE OF ENGINEERING, PANMALEWADI, POST-VARYE, SATARA-415 015, MAHARASHTRA, INDIA. -----

**3)MS.GURAV KANCHAN DATTATRAY**  
 Address of Applicant :ARVIND GAVALI COLLEGE OF ENGINEERING, PANMALEWADI, POST-VARYE, SATARA-415 015, MAHARASHTRA, INDIA. -----

**4)MS.WARAGADE MRUNALI DILIP**  
 Address of Applicant :ARVIND GAVALI COLLEGE OF ENGINEERING, PANMALEWADI, POST-VARYE, SATARA-415 015, MAHARASHTRA, INDIA. -----

**5)MRS.NIKAM PRIYANKA CHANDRAKANT**  
 Address of Applicant :ARVIND GAVALI COLLEGE OF ENGINEERING, PANMALEWADI, POST-VARYE, SATARA-415 015, MAHARASHTRA, INDIA. -----

(57) Abstract :  
 Distribution transformers of sub-station in rural and tribal areas experience lack of supervision and maintenance once erected for operation. Indian Power sector is experiencing huge technical, non-technical and commercial losses, in which the vandalism or theft of transformer parts, such as core (copper winding) and oil are creating enormous financial losses for both power generation companies and indirectly for farmers as the transformers supplying agricultural load are more prone to thefts. Hence it is a challenging task to stop and prevent above stated unlawful activity through available technology. This invention proposes design of circuitry and control by coordinating devices which are used to monitor and protect the transformer condition, such that we can observe effective results by creating an Anti-Theft circuit. The proposed system integrates the GSM technology, limit switch sensor and PIR-Sensor combination to detect approach of persons near to transformer. Whenever micro-controller receives an error or return signal from limitswitch and PIRsensors, it is programmed such that it initiates GSM modem. GSM inherently consist of a SIM card in which we will assign a text message or call which is to be sent to concerned mobile numbers. Key words: Load cell, Detector, Switching, Electricity save. Key words: Anti-theft circuit, transformer protection, PIR sensor, GSM, Microcontroller.

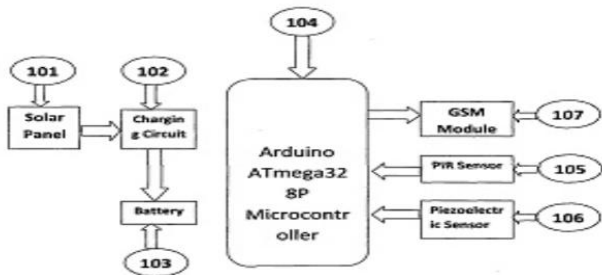


Figure 1: DP Transformer Theft Protection and Monitoring System

No. of Pages : 8 No. of Claims : 3

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(21) Application No.202321004283 A

(19) INDIA

(22) Date of filing of Application :21/01/2023

(43) Publication Date : 03/02/2023

(54) Title of the invention : IMPACT OF TOTAL QUALITY MANAGEMENT PRACTICES ON CUSTOMER RETENTION AND SATISFACTION

<p>(51) International classification :G06Q0030020000, G06Q0010060000, G06Q0030000000, H02J0003180000, G06F0007020000</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)Dr. Dilip Kumar Sharma</b> Address of Applicant :Department of Mathematics, Jaypee University of Engineering and Technology, Guna, Madhya Pradesh- 473226, India. -----</p> <p><b>2)Dr Archi Dubey</b> <b>3)Dr G Saravana Kumar</b> <b>4)Dr.Ganesh Waghmare</b> <b>5)Dr Harendra Kumar</b> <b>6)Dr Muralidhar L B</b> <b>7)Dr.Prashant Ramesh Bamane</b> <b>8)Dr. Prakash Ratanlal Rodiya</b> <b>9)Prof. Nidhi Amit Medhekar</b> <b>10)Dr Mahesh Uniyal</b> <b>11)Dr. Venkata Harshavardhan Reddy Dornadula</b> <b>12)Dr Shyamasundar Tripathy</b></p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : <b>1)Dr. Dilip Kumar Sharma</b> Address of Applicant :Department of Mathematics, Jaypee University of Engineering and Technology, Guna, Madhya Pradesh- 473226, India. -----</p> <p><b>2)Dr Archi Dubey</b> Address of Applicant :Assistant Professor, Department of Faculty of Management Studies, The ICFAI UNIVERSITY, Raipur H No- 46, Kumbhari, Durg, Chhattisgarh-490092, India. -----</p> <p><b>3)Dr G Saravana Kumar</b> Address of Applicant :Professor &amp; Mentor -BMS -THM, School of Commerce, Jain (deemed to be) University, Bengaluru, Karnataka-560041, India. -----</p> <p><b>4)Dr.Ganesh Waghmare</b> Address of Applicant :Associate Professor, Lexicon Management Institute of Leadership and Excellence, Pune, Maharashtra- 412207, India. -----</p> <p><b>5)Dr Harendra Kumar</b> Address of Applicant :Assistant professor, GL Bajaj Institute of technology and Management, Plot No 2- knowledge park 3 Greater Noida, Uttar Pradesh-201306, India. -----</p> <p><b>6)Dr Muralidhar L B</b> Address of Applicant :Assistant Professor, Department of Management Studies, School of Commerce, Jain Deemed to be University, Bangalore, Karnataka-560069, India. -----</p> <p><b>7)Dr.Prashant Ramesh Bamane</b> Address of Applicant :Associate Professor, Department of Civil Engineering, Arvind Gavali College of Engineering, Satara, Maharashtra- 415015, India. -----</p> <p><b>8)Dr. Prakash Ratanlal Rodiya</b> Address of Applicant :Assistant Professor, Department of Commerce, Rajarshi Shahu Mahavidyalaya Autonomous, Latur, Affiliated to Swami Ramanand Teerth Marathwada University Nanded, Maharashtra- 413512, India. -----</p> <p><b>9)Prof. Nidhi Amit Medhekar</b> Address of Applicant :Asst.Professor, Department of Management, SPPU,Pune, Maharashtra- 411007, India. --</p> <p><b>10)Dr Mahesh Uniyal</b> Address of Applicant :Professor, School of Hotel Management and Tourism, Dev Bhoomi Uttarakhand University, Dehradun, Uttarakhand- 248007, India. -----</p> <p><b>11)Dr. Venkata Harshavardhan Reddy Dornadula</b> Address of Applicant :Professor. Coordinator R&amp;D, Placement &amp; Soft Skill Training, Department of H&amp;S, Sree Venkateswara College of Engineering, North Rajupalem ,Kodavaluru, Nellore, Andhra Pradesh-524316, India. -----</p> <p><b>12)Dr Shyamasundar Tripathy</b> Address of Applicant :Assistant Professor, KL Business School, Koneru Lakshmaiah Education Foundation, Vaddeswaram, Guntur, Andhra Pradesh- 522303, India. -----</p>
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(57) Abstract :

Total quality management practice is a strategy of business-wide management to consistently increase the quality of products/services/processes by focusing on the needs and desires of consumers to improve customer engagement, loyalty and company performance. The relationship between overall quality control strategies and client retention, loyalty and efficiency is mixed. Total quality management is a firm-wide management methodology for the constant enhancement of products/services/processes quality with an emphasis on customer demands and preferences. This paper aims at exploring and recognizing the effect on consumers' retention and loyalty of full-fledged quality management activities, different methods of total quality. In order for a competitive edge to emerge and to boost corporate efficiency and customer loyalty an increasing number of companies use absolute quality control as a strategic basis. As a consequence of intensive global competition, the idea of total quality management was created. The concepts of total quality management, processes, tools and strategies are given significant importance by international trading and competitive competition organisations.

No. of Pages : 10 No. of Claims : 7



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पेटेंट कार्यालय का एक प्रकाशन  
PUBLICATION OF THE PATENT OFFICE

(54) Title of the invention : EMERGENCY AMBIENT NOISE REACTIVE VR SYSTEM

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 Filing Date :NA

(87) International Publication No : NA

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(71)Name of Applicant :  
**1)Dr. Nilesh Madhukar Patil**  
 Address of Applicant :Associate Professor, SVKM's Dwarkadas J. Sanghvi College of Engineering, No. U, 15, Bhaktivedanta Swami Rd, opp. Cooper Hospital, Navpada, JVPD Scheme, Vile Parle, Mumbai, Maharashtra-400056, India. Mumbai -----

**2)Dr. Dattatray G. Takale**  
**3)Dr.Manali Manish Shah**  
**4)Sarita D. Sapkal**  
**5)Geeta R. Chikarge**  
**6)Dr. Vajid N. Khan**

Name of Applicant : NA  
 Address of Applicant : NA

(72)Name of Inventor :  
**1)Dr. Nilesh Madhukar Patil**  
 Address of Applicant :Associate Professor, SVKM's Dwarkadas J. Sanghvi College of Engineering, No. U, 15, Bhaktivedanta Swami Rd, opp. Cooper Hospital, Navpada, JVPD Scheme, Vile Parle, Mumbai, Maharashtra-400056, India. Mumbai -----

**2)Dr. Dattatray G. Takale**  
 Address of Applicant :Assistant Professor, Vishwakarma Institute Of Information Technology, SPPU, Ganeshkhind Rd, Ganeshkhind, Pune, Maharashtra-411007, India. Pune -----

**3)Dr.Manali Manish Shah**  
 Address of Applicant :Associate Professor , Arvind Gavali College Of Engg, Gat No. 247,Panmalewadi, Varye, Satara, Maharashtra-415015, India. Satara -----

**4)Sarita D. Sapkal**  
 Address of Applicant :Assistant Professor, MMCOE, SPPU, Sr.No. 18, Plot No. 5/3, CTS No.205, Vadar Vasti Rd, behind Vandevi Temple, Karve Nagar, Pune, Maharashtra -411052, India. Pune -----

**5)Geeta R. Chikarge**  
 Address of Applicant :Assistant Professor, MMCOE, SPPU, Sr.No. 18, Plot No. 5/3, CTS No.205, Vadar Vasti Rd, behind Vandevi Temple, Karve Nagar, Pune, Maharashtra -411052, India. Pune -----

**6)Dr. Vajid N. Khan**  
 Address of Applicant :Associate Professor, Saswad Road, Near Bopdev Ghat, In KJEI Trinity Campus, Yewalewadi Road Serve No. 25 &27, Kondhwa annex, Pune, Maharashtra -411048, India. Pune -----

(57) Abstract :  
 ABSTRACT EMERGENCY AMBIENT NOISE REACTIVE VR SYSTEM The perception of disruptive outside sound while being inside a virtual reality simulation can break the experience of presence. Even with noise cancelling headphones external sound cannot be blocked completely. In this paper, we present an acoustic compensation method to sustain the virtual illusion. We developed a testbed VR prototype that allows to classify real-life sound and to adapt the virtual world accordingly by activating pre-defined playable content. The application analyzes and classifies outside sound in real time and triggers a suitable in-game object that matches the outside sound. Our implementation is a first approach, we want to use it to further examine the possibility of adaptive audio to mask external disruptive sounds resulting in an enhanced VR experience.

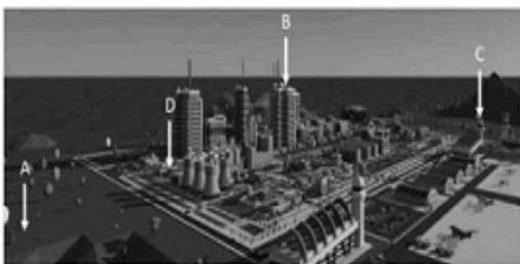


Fig 1: Depicts the Each environment and the according mini-game that can be activated is located in a different area in the virtual city.

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(54) Title of the invention : DEVICE TO ANALYSE THE SOFTWARE CODE

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(71)Name of Applicant :  
**1)Ashwini Sabal**  
 Address of Applicant :Librarian, Tulsiramji Gaikwad Patil College of Engineering and Technology, Mohagaon, Wardha Rd, Nagpur, Maharashtra-441108, India. Nagpur -----

**2)Dr. Dattatray G. Takale**  
**3)Dr.Manali Manish Shah**  
**4)Priyanak D. More**  
**5)Swapnil K. Shinde**  
**6)Dr. Vajid N. Khan**

Name of Applicant : NA  
 Address of Applicant : NA

(72)Name of Inventor :  
**1)Ashwini Sabal**  
 Address of Applicant :Librarian, Tulsiramji Gaikwad Patil College of Engineering and Technology, Mohagaon, Wardha Rd, Nagpur, Maharashtra-441108, India. Nagpur -----

**2)Dr. Dattatray G. Takale**  
 Address of Applicant :Assistant Professor, Vishwakarma Institute of Information Technology, Pune, Maharashtra-411048, India. Pune -----

**3)Dr.Manali Manish Shah**  
 Address of Applicant :Associate Professor, Arvind Gavali College Of Engg, Panmalewadi, Satara, Maharashtra-411001, India. Satara -----

**4)Priyanak D. More**  
 Address of Applicant :Assistant Professor, Vishwakarma Institute of Information Technology, Pune, Maharashtra-411048, India. Pune -----

**5)Swapnil K. Shinde**  
 Address of Applicant :Assistant Professor, Vishwakarma Institute of Information Technology, Pune, Maharashtra-411048, India. Pune -----

**6)Dr. Vajid N. Khan**  
 Address of Applicant :Associate Professor, K J College Of Engineering & Management Research, Pune, Maharashtra-411048, India. Pune -----

(57) Abstract :

ABSTRACT DEVICE TO ANALYSE THE SOFTWARE CODE Software development is an important area in software engineering, which is why a wide range of techniques, methods, and approaches has emerged to facilitate software development automation. This paper presents an analysis and evaluation of tools for automated software development and automatic code generation in order to determine whether they meet a set of quality metrics. Diverse quality metrics were considered such as effectiveness, productivity, safety, and satisfaction in order to carry out a qualitative and quantitative evaluation. The tools evaluated are CASE tools, frameworks, and Integrated Development Environments (IDEs). The evaluation was conducted to measure not only the tools' ability to be employed, but also their support for automated software development and automatic source code generation. The aim of this work is to provide a methodology and a brief review of the most important works to identify the main features of these works and present a comparative evaluation in qualitative and quantitative terms of quality metrics. This would provide software developers with the information they need to decide the tools that can be useful for them.

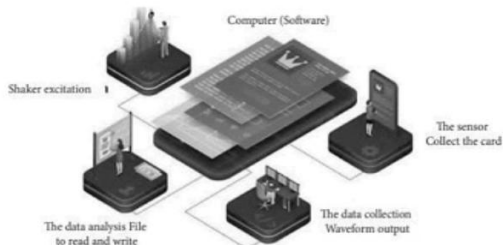


Fig 1: Depicts the System composition and architecture.

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