



Pimpri Chinchwad Education Trust's
**PIMPRI CHINCHWAD COLLEGE OF
ENGINEERING AND RESEARCH**
RAVET, PUNE - 412101.
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Conference on Indian Parents,
Copyrights, Innovations and Startups

CIP CIS
DECEMBER 2019

**CONFERENCE ON
INDIAN PATENTS, COPYRIGHTS,
INNOVATIONS AND STARTUPS**

Wealth creation through IPR towards making 'India a 5 Tr. \$ economy'



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Conference on Indian Patents, Copyrights, Innovations and
Startups

cIPCIS
DECEMBER 2019

Conference on Indian Patents Copyrights Innovations & Startups

Wealth creation through IPR towards making 'India a 5 Tr. \$ economy'

CIPCIS -2019

**A Conference to Bring Inventors & Investors on a Common
Platform in View of Commercialization of IPR**



PIMPRI CHINCHWAD EDUCATION TRUST
A Trusted Brand in Education Since 1990..

Organized by

**Pimpri Chinchwad College of Engineering & Research
(PCCOE&R), Ravet, Pune-412 101
(21st & 22nd December 2019)**

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Conference on Indian Patents...

We indeed feel most privileged to hand you over these proceedings of **Conference on Indian Patents, Copyrights, Innovations and Startups (CIPCIS 2019)**, a one and only of its kind National Conference.

The visionary, progressive and dynamic Government of India has set a Mission of emerging as a \$5 Trillion economy by 2024-25, to become a global economic powerhouse. This challenging ambition may be realized only through extensive research and innovation.

Extensive research on impact of intellectual property (IP) system on economic growth has proved beyond any doubt, that a sound IP protection regime plays very important role in fostering technology, innovation and industrial development of the Nation. These, in turn directly affect inflows of foreign direct investment (FDI), technology transfer and trade. Statistical evidence also points to the fact that economies like that of China have grown very fast over last few decades by creating wealth through IP.

In India, exhaustive and quality research is going on in IITs, other research institutions and universities. However, our researchers are only of late becoming aware of the intellectual property right (IPR) and a system to commercialize IP is yet in the developing phase. The filed IP like patents and copyrights often remain shelved and a very meager percentage of it actually sees conversion into a product to serve the society. Strong efforts are indeed essential to promote commercialization of IPR and creation of wealth through IP.

CIPCIS 2019 is being organized by Pimpri-Chinchwad Education Trust's Pimpri-Chinchwad College of Engineering & Research (PCCOER) during December 21-22, 2019 at Ravet, Pune. PCCOER has been a pioneering Institution in several IP activities and Record Holder Academic Institution for filing patents and copyrights. **CIPCIS 2019** is an effort to bring inventors and investors face to face, on a common platform. The objectives of CIPCIS2019 are:

- To help inventors to protect their research and create opportunities for revenue generation.
- To help inventors to overcome the challenges of establishing technology, expertise, knowledge, resources and facilities in all scientific discipline.
- To bridge the gap between the inventors and investors for commercializing new products for the society and the nation.
- To help new future innovators to learn recent developments and technological advancement going on in the field of Intellectual Property.

- To create awareness in the field of IPR, its violations and fighting the threat of forging and piracy to enhance IP culture.
- To provide the platform and guideline to publish the IPR.

This kind of Conference is being organized for the very first time in India and has been copyrighted by PCCOER! **CIPCIS 2019** has received a lot of applause from industrialists as well as academicians! The Conference has seen a whopping 700+ registrations and over 400 industrialists from various domains are visiting the Conference sessions to assess the IP presented by researchers for commercialization. With Key-note Talks, Showcasing of IP through Presentations and Exhibition, Panel Discussion and Interactions, **CIPCIS 2019** is going to be a grand treat for inventors and investors alike!

These Proceedings of **CIPCIS 2019** contain abstracts from various IP domains like Automobile, Mechanical, Civil, Electronics, Computers & IT, Pharmaceuticals, etc. This is the first of its kind exhaustive publication on IP, which is being compiled and made available for a general viewer and we hope that it will go a long way to serve the society and Nation!

~ Team CIPCIS-2019

Wealth creation through IPR towards making 'India a 5 Tr. \$ economy'

OUR INSPIRATION



Late Shri S. B. Pati
Ex-President
Pimpri Chinchwad Education Trust



Late. Smt. Lilatai Shankarrao Patil
Founder Chairman
Pimpri Chinchwad Education Trust

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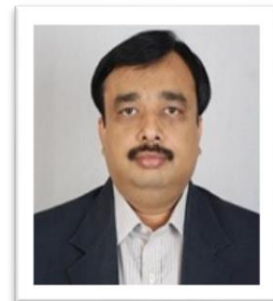
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Pimpri Chinchwad Education Trust (PCET), a brand in the field of education was established by late Shri. Shankarrao B. Patil in the year 1990 with a vision to provide value-added educational platform to the society in multiple dimensions from Nursery to Doctoral programs in various professional streams, enabling students to be empowered through Education. Situated at an approachable location near Akurdi Railway Station, Nigdi, Pune, PCET is a well-established and time tested brand in Education since 1990. PCET has seven Institutes and also support Nutan Maharashtra Vidya Prasarak Mandal's NCER and NMIET.

- Pimpri Chinchwad College of Engineering
- Pimpri Chinchwad College of Engineering and Research
- Pimpri Chinchwad Polytechnic
- S. B. Patil Institute Of Management
- S. B. Patil Public School
- S. B. Patil College of Science & Commerce
- S. B. Patil College of Architecture
- Nutan Maharashtra Institute Of Engineering & Technology
- Nutan Maharashtra Vidya Polytechnic
- Nutan College of Engineering & Research

ABOUT PIMPRI CHINCHWAD COLLEGE OF ENGINEERING & RESEARCH, RAVET, PUNE

The institute was established in the year 2014. It is a rapidly growing Institute under the umbrella of Pimpri Chinchwad Education Trust (PCET). We follow the Five - Pillar - Philosophy Academics, R&D, T&P, Students Development, and Ethics & National Pride in the overall development of students. The University results are among the Top Five Institutes under Savitribai Phule Pune University. Pimpri Chinchwad College of Engineering and Research (PCCOER) has created and developed a milestone in Training and Placements. In Research and Innovation, we stand at the pinnacle with 134+ patents and 260+ copyrights in a span of two years. Our students are regular participants in co-curricular & extracurricular activities like BAJA, Go-Kart, Robocon, TIFAN, Purushottam Karandak, Firodiya Karandak, Dajikaka Gadgil Karandak, etc.

ABOUT CONFERENCE ON INDIAN PATENTS COPYRIGHTS INNOVATIONS & STARTUPS -2019

Conference on Indian Patents Copyrights Innovations & Startups (CIPCIS-2019) aims inline the Nation's vision to emerge as a Five Trillion Dollars Economy through Research, Innovation and

Creation of Wealth through IPR. CIPCIS-2019 puts sincere efforts to bring together investigators/panelists from across India, to share their insight in diverse domains of Intellectual Property (IP). It is going to provide a common platform for the inventors, investors and investigators to discuss and share knowledge and their experiences on the recent innovations, technological advancements, intellectual properties and developmental issues. This conference also strategizes on the best to benefit from the IP systems and commercialization through startups.

OBJECTIVES OF CIPCIS-2019

IPR is a well-built tool to care for investments of time, money and effort of the inventor of the intellectual property by granting exclusive rights for the creation of the inventors. The preliminary objective of CIPCIS-2019 is to provide a common platform for patentees, experts, academicians, delegates and the future inventors at large, to interact and exchange their innovative ideas and knowledge pertaining to the emerging issues and challenges in the field of IPR.

Other objectives of CIPCIS-2019 are;

- To help inventors to protect their research and create opportunities for revenue generation.
- To help inventors to overcome the challenges of establishing technology, expertise, knowledge, resources and facilities in all scientific discipline.
- To bridge the gap between the inventors and investors for commercializing new products for the society and the nation.
- To help new future innovators to learn recent developments and technological advancement going on in the field of Intellectual Property.
- To create awareness in the field of IPR, its violations and fighting the threat of forging and piracy to enhance IP culture.
- To provide the platform and guideline to publish the IPR.

INTELLECTUAL PROPERTIES DOMAINS

The Intellectual Properties and Startups are expected to be in, but not be restricted to the following domains:

- Industrial Electronics
- Mechanical
- Automobile
- Computer
- Biomedical Science
- Civil
- Agriculture
- Pharmaceuticals
- Other

GUEST AND KEYNOTE SPEAKERS FOR CIPCIS-2019

SR. NO.	GUESTS AND KEYNOTE SPEAKERS
1.	Dr. B.B.Kale Director, Scientist G, Centre for Materials for Electronics Technology, Ministry of Electronics & Information Technology, Govt. of India
2.	Dr. Shankar Venugopal Vice President, Mahindra Research Valley Chennai
3.	Mr. Sitaraman Ram Mohan Principal Engineer – IP , Mahindra Research Valley Chennai
4.	Mr. Chandrashekhar Chincholkar, President, KP Capital Advisors Pvt Ltd
5.	Keynote session Dr. K.S.Kardam Former Senior Joint Controller of Patents & Design, Indian Patent Office
6.	Session 1 : Resource person Ms. Hana Onderkova Head IP, European Business and Technology Centre [EBTC]
7.	Session 2: Resource person Mr. Sandeep Patil IBM STSM, IBM Master Inventor, WW Prolific Inventor (per Wikipedia) , Have 300 + patents on his name.
8.	Mr. Sarvesh S Patel Advisory Software Engineer at IBM
9.	Keynote Session Mr. Abhishek Magotra, Managing Partner, MS Law Partners
10.	Session 3: Resource person Mr. Nilesh Pandit Tata Consultancy Services
11.	Mr. Kashinath Deodhar Senior Scientist, DRDO
12.	Mr. Sant Ranjan (Principle Architect, CTO,KPIT)

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11 December 2019

MESSAGE

I am pleased to know the Pimpri-Chinchwad College of Engineering & Research is organizing a Conference on Indian Patents, Copyrights, Innovations & Startups 2019 (CIPCIS2019) in Pune on December 21-22, 2019.

It is indeed gratifying to note that patents, copyrights, innovations and startups in various domains from renowned institutions like IITs and other universities are going to be showcased at CIPCIS2019. I wish and hope that the Conference will serve as a useful platform for the exchange of innovative ideas by all stakeholders.

I congratulate the organisers for hosting CIPCIS2019 and wish the participants fruitful deliberations.

(Bhagat Singh Koshyari)



Message

I am pleased to know that CIPCIS-2019; A Conference on Indian Patents, Copyrights, Innovations & Startups is being organized by Pimpri Chinchwad College of Engineering & Research, Ravet for various domains such as Industrial Electronics, Mechanical, Automobile, Computer, Biomedical Science, Civil, Pharmaceuticals & Agriculture on 21st & 22nd December 2019. On behalf of Pimpri Chinchwad Education Trust (PCET), I heartily welcome eminent guests, Industrialists, Inventors, delegates & all the participants to CIPCIS-2019.

PCET strives to provide world class academic and cultural foundation to every child to realize his/her greatest potential emphasizing Social, Emotional, Physical, and spiritual development, making the child an extrovert, to meet the challenges of life with a positive attitude and great confidence. PCET has established itself as a brand in the field of education in Maharashtra. It's a success story of a socially committed management which has a clear vision to work for the society. The journey of PCCOE&R began five years back, under the umbrella of Pimpri Chinchwad Education Trust (PCET), with a vision to serve the society through value added quality education and also promote Research & Innovation.

The overall journey of this five years of PCCOE&R is remarkable and in view of promotion of Research & Innovation and the initiative of organizing the conference taken by PCCOE&R is appreciable. I would like to congratulate faculties & staff of Pimpri Chinchwad College of Engineering & Research, Ravet for organizing CIPCIS-2019. I take this as an opportunity to wish the team a grand success and memorable time to all the participants at CIPCIS-2019.

Hon. Shri. Dnyaneshwar P. Landge
Chairman,
Pimpri Chinchwad Education Trust,
Pune.



Message

Wealth creation through IPR can be key to the success for Technical Institutes and can further be the path to chase the goal of **‘India a 5 Tr. \$ economy’**.

The data of Global Innovation Index and the number of Patents per year shows a positive inclination. We as a Nation have improved our position from 81st to around 51st in Global Innovation Index and the number of patents granted per year has also increased to around 14000 from around 6000 in last 5 years. The numbers and the trend are encouraging but the commercialization and wealth creation through IPR is a challenge. The main objective of the Conference on IPR (CIPCIS 2019) is revenue generation through Technology transfer. The Conference CIPCIS 2019 provides a platform to connect the Inventors and Industry/Investors.

We expect success stories in the form of Technology transfer and commercialization of IPR which will boost the IPR culture further in the Society. We at PCCOE&R are committed to achieve the goal of Wealth creation through IPR and make the dividends reach to our Stakeholders especially the faculty, students and Society in general. CIPCIS 2019 is the first step towards the goal where, the Technical Institutes and Universities will have a big share in the Indian economy (GDP).

On behalf of Pimpri Chinchwad Education Trust (PCET), my team at PCCOE&R, and all my student volunteers I thank the Inventors, Inventors, attendees and my students who have contributed wholeheartedly to make CIPSIS 2019 a grand successful.

Dr. Harish U. Tiwari
Principal, PCCOE&R,
Ravet, Pune
Patron, CIPCIS-2019.



Message

It is a pleasure to welcome you to the “Conference on Indian Patents, Copyrights, Innovations and Startup (CIPCIS-2019)” to be held at Pimpri Chinchwad College of Engineering & Research, Ravet, Pune. The CIPCIS-2019 is a flagship conference of the PCCOE&R and represents one of the largest gatherings of Inventors and Industry professionals in fields of Industrial Electronics, Mechanical, Automobile, Computer, Biomedical Science, Civil, and Pharmaceuticals & Agriculture on 21st & 22nd December 2019.

This program is augmented and complemented by nine Keynotes. Around 387-Patents, 122-Copyrights and 20-Startups split between 4-5 parallel oral sessions and poster sessions each day. Undoubtedly, CIPCIS 2019 is a step towards transformation of Technical Education and our society by revenue generation through Research, Innovation and IPR. As a Conveners of CIPCIS 2019, we know that the success of the conference depends ultimately on the numerous people who have worked with us in planning and organizing the technical program and supporting social arrangements. In particular, we thank the Pimpri Chinchwad Education Trust (PCET) for giving a wide scope to organize this event, the patron for his advice and brilliant suggestions on organizing this conference. Recognition should go to the Local Organizing Committee Members who all worked extremely hard on the details of important aspects of the conference programs and social activities.

It has been a great privilege for us to serve as the Conveners of CIPCIS 2019 and it is our hope that you find the conference stimulating, fulfilling and enjoyable. We thank you for your support and your attendance, and wish you a pleasant experience at PCCOE&R Pune.

Prof. R. K. Bawane
Prof. Sonali Kanse

Dr. Sham Mankar
Dr. Ramesh Rathod

Dr. Archana Chaugule
Prof. S. Bobade

Dr. Rahul Mapari
Dr. Sameer Sawarkar

Conveners
CIPCIS-2019.

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P-046	Disk Cleaning And Automatic Disk Cooling Mechanism With Color Coded Wear Measurement Technique In Disk Pads	201921041362	Vivekanand Naikwadi naikwadivivek@gmail.com, 9970226802
P-047	Innovative Steering Mechanism In Modern Vehicles For After Parking Straight Wheel Alignment	201921025313	Vivekanand Naikwadi naikwadivivek@gmail.com, 9970226802
P-048	Design And Development Of	201821041617	Vivekanand Naikwadi

	Modified Seatbelt Mechanism For Pregnant Women Passenger		naikwadivivek@gmail.com, 9970226802
P-049	Design And Development Of Car Seat Constrainer System	201821020932	Vivekanand Naikwadi naikwadivivek@gmail.com, 9970226802
P-050	Conveniently Unfolding Of Laptop	201621027637	Nolesh Premraj Warke Department of Computer Engg., PCCOER, Ravet
P-051	Switch Module For Efficient Mobile Charging	201721016767	Arati Tekade Asst. Prof. Department of E&TC Engg.,PCCOER, Ravet, (MS)
P-052	Induction Of An Extra Oxygen In The Engine To Reduce Ignition Lag With Increase In Power & Reduction In Air Pollution	201621025367	Indrajeet Rajendra Khandait Department of Mechanical Engg., PCCOER, Ravet
P-053	Multi Function Pen Consisting Of Inbuilt Paper, Advanced Punching System, Advanced Stapler, Glue	201621025532	Shrenik Jain , Vinayak Endgallu Department of Mechanical Engg., PCCOER, Ravet
P-054	A Protective Film For Helmet Visor Which Is Water Repellent And Detachable	201621025506	Omkar Hanumant Shinde Department of Mechanical Engg., PCCOER, Ravet
P-055	The Additional Control Unit (Acu) For Automated Speed Control In Required Zones	201621025537	Abel Mathew Department of Mechanical Engg., PCCOER, Ravet
P-056	Heart Rate Sensing Helmet For Safer Driving	201621025788	Shubham Suresh Poojary Department of Mechanical Engg., PCCOER, Ravet,
P-057	Smart Slipper With Weight Sensor, Clock With Stop Watch, Weather Sensor And Bluetooth	201621026952	Priyanshu Kukkar Department of E&TCEngg., PCCOER, Ravet
P-058	Sensor Operated Automatic Ink Stamping Machine	201621026957	Jayashri V. Chopade Department of Mechanical Engg.,PCCOER, Ravet, (MS)
P-059	A System For Drinking Water Cooler To Reduce Water Wastage And Energy Conservation	201921047772	Harish Umashankar Tiwari harish.tiwari@pccoepune.org,7744898844
P-060	A System For Weight Indicator In Seating Arrangement	201921047773	Harish Umashankar Tiwari harish.tiwari@pccoepune.org,7744898844
P-061	A System For The Measurement And Indication Of Weight In Elevators	201921047774	Harish Umashankar Tiwari harish.tiwari@pccoepune.org,7744898844
P-062	A System Of Vehicle Indicators To Use The Hazard Lights And Direction Indicators Simultaneously	201921047775	Harish Umashankar Tiwari harish.tiwari@pccoepune.org,7744898844
P-063	A System For Drinking Water Cooler For The Enhancement Of Performance	201921047776	Harish Umashankar Tiwari harish.tiwari@pccoepune.org,7744898844
P-064	A System For The Measurement	201921047777	Harish Umashankar Tiwari

	And Indication Of Time With Rotating Dial		harish.tiwari@pccoepune.org,7744898844
P-065	A System For Tube To Remove The Inside Stored Material	201921047778	Harish Umashankar Tiwari harish.tiwari@pccoepune.org,7744898844
P-066	A System For Minimization Of Wastage Of Soap	201921047779	Harish Umashankar Tiwari harish.tiwari@pccoepune.org,7744898844
P-067	A System For End Finding And Tape Cutting For Adhesive Cello Tapes	201921047791	Harish Umashankar Tiwari harish.tiwari@pccoepune.org,7744898844
P-068	A System For Smooth Ironing As Per Fabric Requirements	201921047792	Harish Umashankar Tiwari harish.tiwari@pccoepune.org,7744898844
P-069	A System For Cutting Zigzag Edges On Strips	201921047780	Harish Umashankar Tiwari harish.tiwari@pccoepune.org,7744898844
P-070	An Integrated Keypad With Mouse For Computer	201921047790	Harish Umashankar Tiwari harish.tiwari@pccoepune.org,7744898844
P-071	An Altration In Television And Its Remote Control To Make Easy Search Of Remote Control	201921047787	Harish Umashankar Tiwari harish.tiwari@pccoepune.org,7744898844
P-072	Refrigerator With Instant Cooling System	452/MUM/2015	Harish Umashankar Tiwari harish.tiwari@pccoepune.org,7744898844
P-073	A Time Scale (Indicator) On Writing Pen	864/MUM/2015	Harish Umashankar Tiwari harish.tiwari@pccoepune.org,7744898844
P-074	A Two Wheeler Vehicle With Dual Side Stand	866/MUM/2015	Harish Umashankar Tiwari harish.tiwari@pccoepune.org,7744898844
P-075	A Compact Internal Combustion Engine With Charge Comprising Of Liquid O2 And Fuel	201921047772	Harish Umashankar Tiwari harish.tiwari@pccoepune.org,7744898844
P-076	A System For Cooling Using Engine Exhaust Heat	201921047772	Harish Umashankar Tiwari harish.tiwari@pccoepune.org,7744898844
P-077	Magnet In The Pen Clip For Improved Grip In Pocket	2918/MUM/2015	Harish Umashankar Tiwari harish.tiwari@pccoepune.org,7744898844
P-078	A System For Reduction Of Weight Of School Bag	---	Harish Umashankar Tiwari harish.tiwari@pccoepune.org,7744898844
P-079	A Mechanism For Transferring Material In A Multistory Apartment Building	---	Harish Umashankar Tiwari harish.tiwari@pccoepune.org,7744898844
P-080	Adjustable Back Support Of Front Seat In A Car To Give Flexibility Of Forward And Backward Seating	453/ MUM/ 2015	Harish Umashankar Tiwari harish.tiwari@pccoepune.org,7744898844
P-081	A Tooth Brush With Toothpaste Inside	---	Harish Umashankar Tiwari harish.tiwari@pccoepune.org,7744898844
P-082	A System For Reduction Of Puncture In Tyres	---	Harish Umashankar Tiwari harish.tiwari@pccoepune.org,7744898844
P-083	A White Board Marker Pen For Smooth Writing On Inclined And Vertical Surfaces	---	Harish Umashankar Tiwari harish.tiwari@pccoepune.org,7744898844
P-084	A Water Cooling System For Two Wheelers Using Engine Exhaust	---	Harish Umashankar Tiwari harish.tiwari@pccoepune.org,7744898844

	Heat		
P-085	A System For Iron And Fabric	---	Harish Umashankar Tiwari harish.tiwari@pccoepune.org,7744898844
P-086	Shaving Razor With Shaving Foam Gel Inside The Handle	---	Harish Umashankar Tiwari harish.tiwari@pccoepune.org,7744898844
P-087	Vibration Absorber System For Controlling/ Minimizing Vibrations	2605/MUM/2014	S. Bkumbhar Staff Colony (RIT), Kapuskhednaka, Islampur, Tal.Walwa, Dist. Sangli
P-088	Adjustable And Automated Treatment Platform Of Dynamic Back-Bending-Bench For Physiotherapeutic Treatment	265/MUM/2013	Divekar Dhanajay Hariprasad, Kalpataru Colony, Survey No. 8/2, Plot No 4, Near New English School, Miraj - 416 410
P-089	An Apparatus For Heart Blockage Diagnosis	3211/MUM/2014	A.B Kakade BajiNivas, Chahur, Post-Krishna Nagar, Tal.& Dist. Satara, Maharashtra
P-090	Electronic Geometric Compasses	3363/MUM/2013	S.R. JAGTAP Road No. 7, Krantisinh Nana Patil Nagar, Islampur, Dist: Sangli-415409
P-091	Hinge System	3364/MUM/2013	A.C. ATTAR 'Hariyali' Sanmitra Housing Society, At.Po.Kasegaon Tal. Walwa Dist. Sangli
P-092	Bike Handle Gripper Integrated With Phase Change Material & Sweat Absorber	201921011080	A.C. ATTAR 'Hariyali' Sanmitra Housing Society, At.Po.Kasegaon Tal. Walwa Dist. Sangli
P-093	Automatic Agricultural Chemical Sprayer	3867/MUM/2013	AWATI JAYASHREE SUDHIR Zeal College of Engineering & Research, Sr.No.39, Narhe
P-094	Tracking System For Vehicles With People Flow Management	4087/MUM/2013	S.S. Desai A/P - Madhavanagar (Sugar Factory), Tal-Miraj Dist - Sangli
P-095	Electronic Baby Cradle	91/MUM/2014	M.S. Patil Mauli, 1047, Buda Scheme, Sahyadrinagar, Belgaum, Karnataka
P-096	A Concentrated Solar Pv Thermal Energy System	1459/MUM/2015	More Supriya Sagar A/P - Thanapude, Taluka - Walawa, District – Sangli - 415412, Maharashtra
P-097	Automatic Bhel Vending Machine	1453/MUM/2015	Anand Kakade
P-098	A Cutter Assembly For A Crop Harvester	3596/MUM/2015	Salunkhe Sureshrao Anandrao A/P-Bahe. Works: Plot No.-B-12, M.I.D.C., Islampur – 415409, Tal.-Walwa, Dist – Sangli
P-099	A Bundling System And Method	3597/MUM/2015	Salunkhe Sureshrao Anandrao A/P-Bahe. Works: Plot No.-B-12, M.I.D.C., Islampur – 415409, Tal.-Walwa, Dist – Sangli
P-100	A Conveyor System	3498/MUM/2015	Salunkhe Sureshrao Anandrao A/P-Bahe. Works: Plot No.-B-12,

			M.I.D.C., Islampur – 415409, Tal.-Walwa, Dist – Sangli
P-101	Scraping Apparatus	3599/MUM/2015	Salunkhe Sureshrao Anandrao A/P-Bahe. Works: Plot No.-B-12, M.I.D.C., Islampur – 415409, Tal.-Walwa, Dist – Sangli
P-102	Trimming Mechanism	4056/MUM/2015	Salunkhe Sureshrao Anandrao A/P-Bahe. Works: Plot No.-B-12, M.I.D.C., Islampur – 415409, Tal.-Walwa, Dist – Sangli
P-103	Improved Sugarcane Harvester And Method Of Using The Same	1123/MUM/2011	Salunkhe Sureshrao Anandrao A/P-Bahe. Works: Plot No.-B-12, M.I.D.C., Islampur – 415409, Tal.-Walwa, Dist – Sangli
P-104	System And Method For Detection Of Adulterated Milk	1455/MUM/2015	A.B.Kakade At Chahur,Bajinivas, Post-Krishnanagar Taluka&District,Satara-415003
P-105	Material Handling System	4056/MUM/2015	Salunkhe Sureshrao Anandrao Bahe. Works: Plot No.-B-12, M.I.D.C., SALUNKHE, Sureshraoanandrao .Islampur — 415409, Tal.-Walwa
P-106	System And Method For Fermentation Of Batter	201621033852	Dr. Anand Kakade At Chahur,Bajinivas, Post-Krishnanagar Taluka&District,Satara-415003
P-107	Novel Indile Compounds	TEMP/E-1/21312/2018	B. Thomas At Chahur, BajiNivas, Post_Krishnanagar, Taluka and District Satara -415 003, Maharashtra
P-108	Method For Preparing Highly Stable Anthocyanin	201821041712	Santosh Bhujbal 020-27421549 Info.Pharmacy@Dypvp.Edu.In
P-109	A Novel Two Components Herbal Microparticulate Formulation For Diabetes Management	201921045670	Santosh Bhujbal 020-27421549 Info.Pharmacy@Dypvp.Edu.In
P-110	Vapour Shield Insect Repellent Composition And System Thereof	TEMP/E-2/2143/2019/MUM	R. V. Badhe 020-7421549 info.Pharmacy@Dypvp.Edu.In
P-111	Medicated Skin Regenerative Dusting Powder Hydrogel For Wound Healing	TEMP/E-1/21751/2018-MUM	R. V. Badhe 020-27421549 info.Pharmacy@Dypvp.Edu.In
P-112	Advance Rain Water Utilization Using Digital Control System	201621027009	Aditya Sudhir Yadav Department of Mechanical Engg., PCCOER, Ravet
P-113	The System Which Separates Steam And Waterfrom Moist Steam	201621027008	Indrajeet Rajendra Khandait Department of Mechanical Engg., PCCOER, Ravet
P-114	Laser Assembly Used For Surveyor's Tripod Centering	201621027266	Onkar Anandkumar Indlkar Department of Civil Engg., PCCOER

P-115	The Rotatory Jaw Chuck		Jay Nagnath Itkal Department of Mechanical Engg., PCCOER, Ravet, (MS) India
P-116	Buzzer Indicator System For Headlight On During Daytime	201621029851	Parimal Shankar Department of Mechanical Engg., PCCOER, Ravet, (MS)
P-117	Electric Meter With Smartcard	201621030633	Chetan Ramesh Ingale Department of Mechanical Engg., PCCOER, Ravet, (MS)
P-118	Automated Tyre Puncture Protection And Tyre Cleaning System When Vehical Is Running Simultaneously	201621030635	Ashish Chandrashekhar Shinde Department of Mechanical Engg., PCCOER, Ravet, (MS)
P-119	Automatic Opening Of Laptop Lid Using Toggle Switch	201621031258	Shreekant Rakesh Shukla Department of Mechanical Engg., PCCOER, Ravet, (MS) India
P-120	Electrically Adjustable Mirrors In A Two Wheeler Vehicle Using A Switch	201621031258	Ronak Paresh Hariya Department of Mechanical Engg., PCCOER, Ravet
P-121	Innovative And Efficient Smart Calculator With Unit-System	201621032482	Kudoli Anand Basavraj Asst. Prof. Department of Mechanical Engg.,PCCOER, Ravet, (MS)
P-122	Fin Based Preheating Of Catalytic Converter	201721001280	Tejas Kashinath Bodke Department of Mechanical Engg., PCCOER, Ravet, (MS)
P-123	An Alteration In Screwdriver To Make It Easy To Grip And Apply More Torque	---	Suraj Balasaheb Satav Department of Mechanical Engg., PCCOER, Ravet, (MS)
P-124	Computer Mouse Containing Fingerprint Sensor For Detecting Password And User Id Of User	201721009976	Vivek Padmakar Mahajan Department of First Year Engg., PCCOER, Ravet
P-125	Safety Indicator System For The Personal Protective Equipment (Ppe)	201721011307	Sushmita Sanjay Shinde Flat No.203 A-wing Gulmohar Garden, Laxmi Park, Kalewadi, Pimpri
P-126	A Smart Switching System For Electrical Appliances To Prevent The Wastage Of Electricity	201721011569	Shreyash Sanjay Pimpalshende Department of Computer Engg. PCCOER, Ravet
P-127	Kilometer Predictor Which Will Sense Fuel In Tank And Predict How Much Kilometer Vehicle Will Travel Further		Rutvij Rajiv Patil Department of Mechanical Engg., PCCOER, Ravet
P-128	Smart Universal Mobile Charger With Different Current Rating	---	Shreyash Sanjay Pimpalshende Department of Computer Engg., PCCOER, Ravet, (MS)
P-129	Brakes Containing Integrated Circuit (Ic), Switch For Switching On Indicator In Moped	---	Deven Prashant Padale Department of Mechanical Engg., PCCOER, Ravet
P-130	Automatic Bhel Vending Machine	201621033974	Dr. Anand kakade

			At Chahur, BajiNivas, Post_Krishnanagar, Taluka and District Satara -415 003
P-131	High Traction Manual Tiller	201621042348	Dr. Anand kakade At Chahur, BajiNivas, Post_Krishnanagar, Taluka and District Satara -415 003
P-132	Continuously Variable Length Circular Intake Manifold System	20162103407 7	Mr.Thombare Dhananjay Ganpati Jijai, Shripadnagar, Peth Road, Isiampur,Tal. Walwa,Dist. Sangli
P-133	Utensils Washing Glove	201721016810	Dr. Anand kakade At Chahur, BajiNivas, Post_Krishnanagar, Taluka and District Satara -415 003
P-134	Multiple Sized Stapler	201721024732	Dr. Anand kakade, At Chahur, BajiNivas, Post_Krishnanagar, Taluka and District Satara -415 003
P-135	System And Method For Efficient Control Of Room Temperature	201721028962	Dr. Anand kakade, At Chahur, BajiNivas, Post_Krishnanagar, Taluka and District Satara -415 003
P-136	Automatic Sugarcane Plantation Machine	201821004125	Dr. Anand.B. kakade, At Chahur, BajiNivas, Post_Krishnanagar, Taluka and District Satara -415 003
P-137	Multi-Sided Toothbrush	201821008931	Mr AttardeRushikesh Rajaramnagar, Islampur, Dist. Sangli - 415414
P-138	Switching Polarity Multi-Stable Vibration Energy Harvester	201721004160	Prof. L.M.JUGULKAR
P-139	Sma Actuator System For Battery Temperature Control	201921031455	Prof.S.B.Patil
P-140	Locking Tongs	201921031500	Prof.S.B.Khot
P-141	A Method And An Optomechanical Scanner For Three Dimensional Focused Laser Beam Spot Scanning In Microstereolithography	270072	Prof. Deshmukh SuhasPandurang Smaul, Mechanical engineering department, Indian institute of technology, Bombay, Powai
P-142	A Mounting Structure For Magnets	2573/MUM/20 15	Mr. TipolePralhad Flat No.5,S.NO.161/3/3,Suyog Society,Jadhav Nagar,Raykar mala,Dhayari,Pune
P-143	Pyramidal Solar Still	201621002282	Mr. Virendra B-7 / 502, Brahma Majestic, NIBM Rd., Kondhwa, Pune
P-144	A Mechanism To Conveniently Release Footrest In Vehicles	201621025659	Supriya Jomde1 A-2 Wing Flat no 701, Dream City, Sr. No. 46/1, Datta Nagar, Behind Telco Colony, Ambegaon (Bk.), Katraj
P-145	Automated Oxygenation Device	201721017826	Suhas Deshmukh Ketan A-1001, Megh Malhar Raga, S.No. 54,NDARoad, Bavdhan, Pune 411021
P-146	Blood Warmer	201721002404	Mr.Suhas Deshmukh A-1001, Megh Malhar Raga, S. No. 54, NDA Road, Bavdhan

P-147	Machine Health Monitoring System	201721003774	Mr.Suhas Deshmukh A-1001, Megh Malhar Raga, S. No. 54, NDA Road, Bavdhan
P-148	Multi Dof Manual Precision Positioning Mechanism With Motion Amplification	201721034464	Mr.Suhas Deshmukh A-1001, Megh Malhar Raga, S. No. 54, NDA Road, Bavdhan
P-149	Sensor-Less Xyz Scanner For Precision Application	201621027261	Mr.Suhas Deshmukh A-1001, Megh Malhar Raga, S. No. 54, NDA Road, Bavdhan
P-150	Cutting Dies Forkolhapuri Chappal And Automation Thereof	201821034508	Ganesh Suresh Jadhav
P-151	Flexure Spring	3053/MUM/20 15	Mr. Mayur Jadhav A2-12 Samrat Garden, Behind Vaibhav Theater, Hadapsar
P-152	A Drying And Roasting Solar Energy Apparatus And Method Of Using The Same	304/MUM/201 3	Prof.S.B.Kumbhar, Near Zp School, A/P Narsinghpur (Tal - Walwa, District - Sangli-415409
P-153	Vibration Massager	2971/MUM/20 13	Dr. A. P. Kakde Rajaramnagar, Islampur, Dist. Sangli - 415414, Maharashtra, India
P-154	An Apparatus For Preparing Curd	2972/MUM/20 13	Prof. Kakade Anandrao Bajirao Chahur, Baji Niwas, Post - Krishna Nagar, Taluka & District - Satara, Maharashtra Pin Code 415003
P-155	System For Piracy Detection And Method Therefor	331/MUM/201 5A	Dr. Chhaya S. Gosavi chhaya.gosavi@gmail.com, 9850239897
P-156	Innovative System To Improve The Settling Of Sediments In The Water Storage Tank	331/MUM/201 5A	Gajanan Namdeo Supe Assistant Professor, Maharashtra, India, Gajanan.Supe@Pccoer.In
P-157	Solid Fuel Diesel Engine With Induction Of Solid Fuel		Ladekar Chandrakishor Laxman A 401, Saidarshan Apartment, Sector No.29, Bhondve Corner, Ravet Pradhikaran, Ravet Pune
P-158	Innovative And Efficient Logistic System For Sugar Industries	201621030821	Anand B. Kudoli Assistant Professor, PCCER, Pune, Maharashtra, India
P-159	Innovative And Efficient Smart Calculator With Unit-System	201621032482	Anand B. Kudoli Assistant Professor, PCCER, Pune, Maharashtra, India
P-160	An Alteration In Screwdriver To Make It Easy To Grip And Apply More Torque	---	Suraj Balasaheb Satav Arangaon Dumala , Tal: Shrigonda Dist: Ahmednagar, Pin— 413702
P-161	Alteration In Mobile Charger With Heat Level And Charging Percentage Indicator On The Charger	---	Pritam Dattatray Desai Flat No. 10, Kaveri Building, Udyognagar Housing Society, Udyognagar, Chinchwad
P-162	River Sweeping Arm, (River Cleaning System With Screening, Chlorination & Aeration)	---	Reshma Rajendra Hasabe C-1102, Nano Spaces, Oppo.To Hanging Bridge Ravet
P-163	Gear Pedal Operated Side Stand Retrieving Mechanism	---	Mr. Sanjay M. Narayankar Pimpri Chinchwad College of Engineering, Pradhikaran Nigdi, Pune

P-164	Side Stand For Motorcycle	---	Mr. A.N. Paithane ajaypaithane@yahoo.co.in, 9922837483
P-165	System For Automated Monitoring And Controlling Of Unauthorized Settlement In Urban Areas Using Remote Sensing	---	Mr. Jadhav Bhagavat D bdjadhav1979@gmail.com, 9595912897
P-166	System And Method For Recognizing Musical Instrument Sound Using Frft Based Mfcc Features	---	Dr. Bormane Dattatrya Shankar Indiabdattatraya@yahoo.com, 9850282286
P-167	System And Method For Recognition Of Human Emotions	---	Dr.D.S.Bormane Indiabdattatraya@yahoo.com, 9850282286
P-168	Energy Efficient Railway Tunnel	201621020163	Mr.Sagar Bhilaji Shinde sagar.shinde5736@gmail.com, 9975607713
P-169	Design And Implementation Of Shielded Channel Double Gate Junction Less Metal Oxide Semiconductor Transistor For Low Power And High Performance	---	Mr. Wagaj Santosh C scwagaj@yahoo.com, 9970063553
P-170	Design And Development Of Mea For High Peak Power Fast Responding Pem Fuel Cell	201621007958	ChavanSudarshanLaxmanrao sl@rediffmail.com, 9763722256
P-171	Advance Speed Control System Using Wireless Communication	201621017763	SeemaVijaykumarKedar seemaahkeddar@gmail.com, 9822439053
P-172	System And Method For Predicting Heart Disease Risk Factors		SeemaKedar seemaahkeddar@gmail.com, 9822439053
P-173	System And Method For Predicting Human Emotional State	20172023790	SeemaKedar seemaahkeddar@gmail.com,9822439053
P-174	Driver Aligned Seat Belt Position Sensor To Avoid False Use Of Seat Belt Safety System	2186/MUM/2015	Mandhara Neeta Amol na.624@rediffmail.com
P-175	An Auto-Adjustable Headlamp Of The Vehicle For Safety purpose	158/MUM/2015	Mr. PranavPradipPatil nranaVpatil409@gmail.com, 9975525234
P-176	Optimization Of Overhead Conveyers For Noise, Vibration Reduction & Stable Operation	157/MUM/2015	ShindeManojPrakash manoj_shinde2002@yahoo.com, 9665456635
P-177	An Alteration In A Pen For Easy Viewing Ability	159/MUM/2015	AmeyShirish Joshi 989@Gmail.Com, 9420863831
P-178	A Mobile-Portable Water Heater Attachable To Any Given Water Outlet Working On Domestic Electrical Supply	1016/MUM/2015	Mr. Shubham Thakur shubhamthakur.thrives@gmail.com, 8975698437
P-179	A Portable Grinding Fixture For Regrinding Of Single Point Cutting Tool Of Lathe Machine	965/MUM/2015	Mr. ParimalVikasGundawar gundawarparimal@gmail.com,
P-180	Solar Powered Portable Bucket Air Conditioner	455/MUM/2015	Mr. AjinkyaRajendraWankhade ajinkya74@gmail.com, 808716943

P-181	Modified Paper Sheet Perforator Cum Stapler	1614/MUM/2015	AgrawalMohitDaudayal Pimpri Chinchwad College Of Engineering, Sector 26, Pradhikaran Nigdi, Pune-411044
P-182	A Clinical Thermometer For Rural India	2127/MUM/2015	Mr. AtharvaPravinGhate atharva1995@yahoo.co.in,9881476258
P-183	A System Which Gives An Indication Before The Lpg Cylinder Is Completely Empty And System Gives The Time For Which Lpg Is Utilized	3433/MUM/2015	MrShubham Sanjay Jangam Pimpri Chinchwad College Of Engineering, Mechanical Engineering Department, Sector 26, Pradhikaran
P-184	Effective Attendance Monitoring Using Smart-Phone	4718/MUM/2015	Pankaj Ganesh Anjankar Sharvay12@Rediffmail.Com, 8975722054/9226094843
P-185	Integrated Wireless Online Oil Condition And Oil Level Monitoring System For I C Engine	3106/MUM/2015	Mr. Vikrant ulhasgarud Vicky_garud100@yahoo.co.in, 7774076967
P-186	System For Monitoring And Identifying The Working Status Of Appliances In A Network	4157/MUM/2015	DwivediAvinash Kumar Kanth Complex,Dehuroad 412101,Kasarwadi,PunePritam Corner,Nalegaon,A.NagarPradhikaran-26,Akurdi,Pune-44
P-187	Automatic Waste Segregator	4828/MUM/2015	Muaaj Ahmed Bagban muaazl503@gmail.com
P-188	Wallet Protection And Monitoring Using Smartphone	4614/MUM/2015	Harshawardhan S. Kumbhar harsh.s.kumbhar@gmail.com 8149244664
P-189	Smart Boxes Notifying Unavailability Of Grocery	4488/MUM/2015	AMIT P KULSUNDAR amitkulsundar7@gmail.com
P-190	Programmable Meal Feeding Robotic Arm For Handicapped	4615/MUM/2015	Harshawardhan.S. Kumbhar harsh.s.kumbhar@2mail.com, 8149244664
P-191	Brainy Traffic Control System	4958/MUM/2015	BidyaPriyankkumarVidyanand, bidyapriyank001@gmail.com,8237789898
P-192	Driver Aligned Seat Belt Position Sensor To Avoid False Use Of Seat Belt Safety System	2186/MUM/2015	MANDHARA NEETA AMOL1 Na.624@Rediffmail.Com, 9226094864
P-193	An Auto-Adjustable Headlamp Of The Vehicle For Safety Purpose	158/MUM/2015	MR. PRANAV PRADIP PATIL Nranavpatil409@Gmail.Com, 9975525234
P-194	Optimization Of Overhead Conveyers For Noise, Vibration Reduction & Stable Operation	157/MUM/2015	SHINDE MANOJ PRAKASH1 Manoj_Shinde2002@Yahoo.Com, 9665456635
P-195	Renewable Energy Portable Laptop Charger	201621009917	MR. CLEON FRANCIS FERNANDES1 cleon.fernandes@yahoo.com, 8552004109
P-196	An Innovative Lead Of Lead Pencil With Marking On Lead	201621004333	Mr.KadamSuyog suyogkadam1996@gmail.com , 9404202147
P-197	Design And Development Of Car	201821020932	VivekanandNaikwadi, Nitin Chopra

	Seat Constrainer System		naikwadivivek@gmail.com, 9970226802
P-198	Utilization Of Heat Released During Cooking With Heat Pipe Embedded Thermal Energy Storage	201621022091	SIDDHANTHA SHANDILYA sshandilya42@gmail.com, 8237812926
P-199	Novel Wiper Mechanism For Controlled Cleaning Of Windscreen	201621012927	ANIKET VILAS BOROLE1 borole.aniket551@gmail.com, 9511901065
P-200	Burning Feet Sole Cooler	201821035732 C	TamboliAyubAlamso Zeal College of Engineering & Research,Sr.No.39,Narhe, Pune
P-201	An Innovative Base Adjustable Two In One Stapler Punching Machine With A Two-Hole Punching Mechanism	201621042088	MR. JAYESH PATIL , jspatil1230@outlook.com
P-202	Synchronized Power Windows With Auto Air Conditioners For Reducing Human Efforts And Power Wastage	201721008215	MR. LOHAR GANESH SAYAJI, loharganesh16@gmail.com, 09561351237
P-203	Generation Of Electricity With The Help Of Condenser Fan Motor Of A Split Air Conditioner	201721009534	MR. LOHAR GANESH SAYAJI loharganesh16@gmail.com, 09561351237
P-204	An Automated Mechanism For Effective Cooling Of Solar Panel	---	VinayakDeokar deokarvinay@gmail.com, 9860826083
P-205	Thermal Comfort Enhancement Of Ceiling Fan (Cooling Mode) Integrated With Peltier Cooler, Heat Pipe, Phase Change Material And Adsorbent. (Air Conditioned Ceiling Fan)	201821033914 6	TamboliAyubAlamso Zeal College of Engineering & Research,Sr.No.39,Narhe, Pune
P-206	Clothing Iron Sole Cooler Cum Safety Kit	201821036606	TamboliAyubAlamso Zeal College of Engineering & Research,Sr.No.39,Narhe, Pune
P-207	Energy Optimized Routing Protocol Using Swarm Intelligence With Mobile Sink In Heterogeneous Wireless Sensor Network	201921028010	DR. NILESH PANDURANG BHOSALE bhoslenp@gmail.com
P-208	System And Method For Speaker Identification Using Geographical Region Language	201921013820	MR. SANJAY S BADHE sanjubadhe@gmail.com1
P-209	System For Identification Of Indian Classical Musical Instrument Sounds Using Audio Descriptors	201921013811 4	MR. SUSHEN R. GULHANE sushenrgulhane1@rediffmail.com1
P-210	Disk Cleaning And Automatic Disk Cooling Mechanism With Color Coded Wear Measurement Technique In Disk Pads	201921041362	VivekanandNaikwadi naikwadivivek@gmail.com, 9970226802
P-211	Innovative Steering Mechanism In Modern Vehicles For After Parking	201921035313	VivekanandNaikwadi naikwadivivek@gmail.com, 9970226802

	Straight Wheel Alignment		
P-212	Design And Development Of Modified Seatbelt Mechanism For Pregnant Women Passenger	201821041617	VivekanandNaikwadi naikwadivivek@gmail.com, 9970226802
P-213	Switch Module For Efficient Mobile Charging	201721016767	AratiTekade arati.tekade@pccoer.in, 9545452766
P-214	Laser Assembly Used For Surveyor's Tripod Centering	201621027266	Mr.OnkarAnandkumar Indlkar 1Students, Department of Civil Engg., PCCOER, Ravet, (MS)
P-215	Conveniently Unfolding Of Laptop	201621027637	Mr. NoleshPremrajWarke Students, Department of Computer Engg., PCCOER, Ravet, (MS)
P-216	In Based Preheating Of Catalytic Converter	201721001280	Mr. TejasKashinathBodke 1Students, Department of Mechanical Engg., PCCOER, Ravet, (MS)
P-217	A Smart Switching System For Electrical Appliances To Prevent The Wastage Of Electricity	201721011569	SHREYASH SANJAY PIMPALSHENDE 1Students, Department of Mechanical Engg., PCCOER, Ravet, (MS)
P-218	Book Content Reorganization By Human Touch	---	RUPALI SANJAY SONAWANE , Library of PCCOER ., PCCOER, Ravet, (MS)
P-219	Production Of Power Activated Carbon-Pac From Water Hyacinth (Eichhorniacrassipes) - Whpac	201721009041	SagarMukundraoGawande hodcivil@abmspcoerpune.org, +918275401266
P-220	Self Sufficient Tree Guard For Systematic Water Supplies	201721000498	SagarMukundrao Gawande hodcivil@abmspcoerpune.org, +918275401266
P-221	Hole's Model Of Engineering Education	201921019097	Dr. Jitendra A. Hole jahole1974@gmail.com, +919860659246
P-222	Modified Design Of Desorber And Absorber For Small Capacity Vapour Absorption Air Cooling System	201721035866	Mr. Sagar Vishnurao Wankhede jahole1974@gmail.com, +919860659246
P-223	A Fuel Additive And A Fuel Composition Comprising The Same	201821014325	SumodKisan Pawar jahole1974@gmail.com, +919860659246
P-224	Mechanical Properties Enhancement In Gas Metal Arc Welded Joints Of Aluminium Alloys Using Copper Base Plates	---	Sham Harikrushna Mankar shm9176@gmail.com, +919823545677
P-225	Helical Antenna Loaded In A Triangular Cavity For Aerospace Communication	4566/MUM/2015	Thakur College of Engineering & Technology Shyamnarayan Thaur Marg, Thakur Village, Kandivali (East),
P-226	Helical Loaded Hexagonal Cavity Baked Antenna For Satellite Communication	201621003789	Thakur College of Engineering & Technology Shyamnarayan Thaur Marg, Thakur

			Village, Kandivali (East),
P-227	Frequency Reconfiguration In A Pentagonal Cavity Backed Helical Antenna	201621003790	Thakur College of Engineering &Technology Shyamnarayan Thaur Marg, Thakur Village, Kandivali (East),
P-228	System For Seed Testing	---	Dr. Archana Chaugule Chaugule@Pccoer.In, 8007773086
P-229	A Multiple Parameter Measuring And Leveling Tool	201621025751	ADVAIT PRAMOD SUNDARE advaitsundare@gmail.com
P-230	A Switch Box For Safety Of Lathe Machines With Rotating Chucks	201721000276	Nitin Chopra Advait Pramod Sundare Plot no.37/38 Niwara Co-Op society, Utthan nagar, Gorewada road
P-231	Inertia Coupling'-Couple/Decouple Compressor Unit From The Engine Crank Shaft For A Twin Charger	201721036829	NitinChopra Advait Pramod Sundare Plot no.37/38 Niwara Co-Op society, Utthan nagar, Gorewada road
P-232	Pfpa-System: Power Generation, Filter Water And Protein Abstraction Through Pressure Cooker Steam	201821025142	Prof. Tushar Subhash Gaidhane Dr.Bksarkar2003@Yahoo.In
P-233	E-Nose System : Detect Real Time Pollutant Gases, Humidity, Oxygen Level, Air Temperature, And Air Pressure	201821049331	Prof.JambiRatna Raja Kumar Genba Sopanrao Moze College of Engineering balewadi
P-234	Electrically Operated Footrest Assembly For Vehicles	201821031046	Amit Amol Dusane amitdusane5@gmail.com
P-235	Mobile Agents Embedding In A Cluster Based Wireless Sensor Network Environment	201821049330	NishaAbhijeetAuti Genba Sopanrao Moze College of Engineering balewadi Pune
P-236	Mobile Agents Embedding In A Cluster I-Chair: Intelligent Office Chair	201821015641	DR.DUGYALA RAMAN Fl N0:162, Survey No 22 Part, Ganesh Nagar, Road No 3/2, Chilkannagar Raod,Uppal
P-237	Self-Powered Safety Helmet	201721033251	Mr. SuhasDeshmukh suhas.deshmukh@gmail.com
P-238	Industrial Portable Drilling Machine	201821019833	KAVIDAS KALIDAS MATE kavidas.mate@pccoer.in
P-239	Detachable Multipurpose Container	201721037350	Mr. Suhas Deshmukh suhas.deshmukh@gmail.com
P-240	Fluid Absorbent Body Cover Bag	---	Mr.RajendraVithalLadkat contact@rajendraladkat.com, Mobile Number-9226759450.
P-241	Dropping Catcher- A Bi-Directional Automatically Opening And Closing Sanitation Device For Railway Carriage Toilet	---	Mr.RajendraVithalLadkat contact@rajendraladkat.com,Mobile Number-9226759450.
P-242	Hot And Cold Storage	---	Mr.RajendraVithalLadkat contact@rajendraladkat.com, Mobile

			Number-9226759450.
P-243	Low Cost Multi Filter For Ground Water Recharging Using Rain Water	---	Mr.RajendraVithalLadkat contact@rajendraladkat.com, Mobile Number-9226759450.
P-244	Hanging Road Divider	---	Mr.RajendraVithalLadkat contact@rajendraladkat.com, Mobile Number-9226759450.
P-245	Railway Track Cleaning	---	Mr.RajendraVithalLadkat contact@rajendraladkat.com, Mobile Number-9226759450.
P-246	Retaining Wall Method Of Precasting Concrete Cement Blocks Of H Or Y Shape To Mitigate Landslide Destruction	---	Mr.RajendraVithalLadkat contact@rajendraladkat.com, Mobile Number-9226759450.
P-247	Road Divider Cum Road Blocker	---	Mr.RajendraVithalLadkat contact@rajendraladkat.com, Mobile Number-9226759450.
P-248	Method For Aeration And Removing Contamination From Flowing Water	---	Mr.RajendraVithalLadkat contact@rajendraladkat.com, Mobile Number-9226759450.
P-249	Sanjeevanistretcher	---	Mr.RajendraVithalLadkat contact@rajendraladkat.com, Mobile Number-9226759450.
P-250	Sanjeevani Rescue Kit	---	Mr.RajendraVithalLadkat contact@rajendraladkat.com, Mobile Number-9226759450.
P-251	Enhance Library Automation	---	Aditya Pachpute adityapachpute@gmail.com, 9158337051
P-252	Wet Garbage Management Bag	---	Mr.RajendraVithalLadkat contact@rajendraladkat.com, Mobile Number-9226759450.
P-253	Multifunctional Portable Bed	---	Dr. Sanjay Shridhar Lakade 15, Navayug Colony, Padampur, Aurangabad-431005
P-254	Brake Rotor With Radial Curved Grooves And Petals	---	Mr. Jaydeep P. Chaudhari jchaudhari66@mnail.com, 902812753
P-255	Stapler Cum Punch	---	Mr. Atharv Ghate atharva1995@yahoo.co.in, 9403583749
P-256	Universal Stapler	---	Mr. Atharv Ghate atharva1995@yahoo.co.in, 9403583749
P-257	Pressure Cooker Whistle Counter Alarm	---	Mr. Chinmay V. Joshi Dept. Of Mechanical Engineering, Pimpri Chinchwad College Of Engineering, Sector 26, Pradhikaran Nigdi,
P-258	Automated Fuel Cock Of Motorcycle For Anti-Theft Of Fuel	---	Mr.Aakash Gurudasani Sindhi Colony At Ram Mandir Tal Chikhli Dist Buldana 443201
P-259	Cleaning Mechanism	---	Pratik Suryakant Rathi pratik.rahati08@gmail.com ,9158705402
P-260	Automatic Mobile Sound Profile	---	Priyanka S Kamble C/O.Pimpri

	Switching In Silent Zone		Chinchwad College Of Engineering, Sector 26, Pradhikaran Nigdi
P-261	Method And System For Video Error Concealment	---	Mrs. Rajani.P.K bhateponkshe@vsnl.com , 9552003071
P-262	Diesel-Ethanol-Soya Oil Blend As An Alternative Fuel	---	Mr.Ramesh Vishwakarma Sindhi Colony At Ram Mandir Tal Chikhli Dist Buldana
P-263	Advanced System To Locate Automobile Accident Prone Zones And Show It On Software Application Or Map	---	Prof. Shitalkumar Adhar Rawandale Pimpri Chinchwad College Of Engineering, Sector 26, Pradhikaran Nigdi,
P-264	Spiral Bevel Gear Pump	---	Trivedi Abhijit abhijittrivedi10@gmail.com , 7798846166
P-265	A System For Showing Time Required For Journey Of Your Travelling Vehicle Who's Speed Is Varying With Time	---	Mr. Vijay Kisan Damse Pimpri Chinchwad College Of Engineering, Sector 26, Pradhikaran Nigdi,
P-266	System For Monitoring And Identifying The Working Status Of Appliances In A Network	---	Dwivedi Avinash Kumar avikd44@gmail.com 9763408745
P-267	Configurable Multi-Core Electrical Motor And Generator	---	Manish Mohandas Narkhede manishmn1987@gmail.com
P-268	A System For Controlling The Music System On Basis Of Voice Commands From Remote Location	---	Mr.Sagar Sunil Jagdale ghodemp@gmail.com, 9421917570
P-269	Overtake Indicator	---	Kulkarni Shalvraj Dhananjay shalvraj97@gmail.com, 9405476705
P-270	Composed Turn Signal Indicator	---	Kulkarni Shalvraj Dhananjay shalvraj97@gmail.com, 9405476705
P-271	Smart Boxes Notifying Unavailability Of Grocery	---	Amit P Kulsundar amitkulsundar7@gmail.com, 9403268094
P-272	Wallet Protection And Monitoring Using Smartphone	---	Harshawardhan S. Kumbhar kumbhar@gmail.com, 8149244664
P-273	Programmable Meal Feeding Robotic Arm For Handicapped	---	Harshawardhan.S. Kumbhar kumbhar@gmail.com, 8149244664
P-274	Brainy Traffic Control System	---	Bidya Priyankkumar Vidyanand bidyapriyank001@gmail.com, 8237789898
P-275	Automatic Waste Segregator	---	Muaaj Ahmed Bagban muaaz1503@gmail.com, 8983243102
P-276	Robot Based Smart Irrigation System	---	Priyanka Maruti Bandal, 8888486105
P-277	Alarm To Handle Lock And Remove Key Of Motorcycle	201621023596	AbhijeetDilipKale kabhijeet028@gmail.com, 8624061516
P-278	Antithesis Of Hydrogen-Hydroxyl Using Electro-Polarization Technique	201921016201	Ajinkya A Mahajan aajinkyaamahajan.am@gmail.com, 7020186313
P-279	Charger Buzzer With Led When No Connectivity	201621010664	Akshay Maruti Bandal bandalakshayab99@gmail.com,,

P-280	Internet Of Things Based Smart Farm Mobile Application	201621019775	Ms. Anjali Rameshrao Kokate A-305, Le Rayon, Baliraj Colony, Opp. Thopte Lawns, Rahatani
P-281	Improved Charger	2700/MUM/2015	Bhairawakar Kshitij Pradeepkumar kshitij.b.444@gmail.com
P-282	Design And Development Of Membrane Electrode Assembly (Mea) For High Peak Power Fast Responding Pem Fuel Cell	201621007958	Mr. Chavan Sudarshan L sl@rediffmail.com
P-283	System And Method For Reognizing Musical Instrument Sound Using Frft Based Mfcc Features	201621012767	Dr. Bormane Dattatrya bdattatray@yahoo.com,
P-284	An Automated System Of Vehicle Detection On Zebra Crossing	201721029836	Dr. Shirbahadurkar Suresh Damodar shirsd112@yahoo.in, 9890720393
P-285	A Proficient Speech Processing Method To Recognize Sound In A Noisy Environment To Identify Hindi Language	201721020486	Dr. Suresh Damodar Shirbahadurkar shirsd112@yahoo.in, 9890720393
P-286	Design And Implementation Of Nanoscale Dual Gate Stack Silicon On Nothing Junction Less Transistor For Improving Short Channel Effect And Performance	201721026855	Mr, Wagaj Santosh Chandrakant, scwagaj@yahoo.com, 9970063553
P-287	The Implementation Of Text To Speech Processing Using Syllable For Marathi Language Using Raspberry Pi (Processor)	201721018913	Mr. Ghate Pravin Marotrao pmghate@gmail.com,
P-288	System For Automated Monitoring And Controlling Of Unauthorized Settlement In Urban Areas Using Remote Sensing	3171/MUM/2015	Mr. Jadhav Bhagavat D bdjadhav1979@gmail.com
P-289	Performance Improvement Of Reconfigurable Microstrip Antenna With Polarization Diversity And Radiations	201721014750	Mrs. Prachi P. Vast 'Prathmesh Villa', Flat No.2, Chaitanya Park, Indrayanina gar Street Sec.1 , Bhosari, Pune
P-290	Biometrics Based Dynamic Password Allocator	201621024049	Pratik Bhope nikhilesh.wani@gmail.com, 9028575345
P-291	Water Wastage Prevention And Usage Monitoring System	201621021915	Pratik Bhope nikhilesh.wani@gmail.com, 9028575345
P-292	Motion Detection Alarm System	201621041199	Sanket Subhash Chidrewar sanketchidrewar11@gmail.com, 9764595693
P-293	Context Dependent Human Like Emotional Speech Synthesis In Your Voice With Prosody	201721014362	Shaila Dinkar Apte sdapte@rediffmail.com , 9975185707
P-294	Emotion Detection System For Happy, Angry, Neutral, Fear, Surprise And Sad Emotion Using Pitch, Voiced/Unvoiced Energy	201721014357	Shaila Dinkar Apte sdapte@rediffmail.com , 9975185707

	Ratio, Jitter And Deviation Of Pitch		
P-295	System For Conversion Of Murmured Or Whispered Or Breathy Speech To Neutral Speech And Then To Normal/Natural Speech	201721022337	Shaila Dinkar Apte sdapte@rediffmail.com , 9975185707
P-296	A Novel Multiclass Multistage Writer Verification Using Hybrid Approach In Spatial And Transform Domain	201721016687	Sharada Laxman Kore sharadakare@gmail.com
P-297	Design Of Automatic Ironing & Folding Machine	201721003012	Dr. A.M. Badadhe 1A-301, Ishan Srushti, Warje, Pune
P-298	Smart Projector Adjustment System Using Mobile App	201721034836	Akshay Suresh Mhaske akshaymhaske8446@gmail.com
P-299	Automatic Chain Lubrication System For Motorcycle Comprising Analogue Speedometer	201721003008	SHANKAR D. BHARAMBE 1D1,702,Blue Dice, Dehu-Alandi road,Chikhali, Taluka—Haweli
P-300	A Key With Pasting Functionality From Multiple Strings	201921006657	MRS. ANUJA DOMBE Department of IT, Rajarshi Shahu College of Engineering,Tathawade,Pune. (MS)
P-301	A Key With Pasting Functionality From Multiple Strings	201921006657	MRS. ANUJA DOMBE Department of IT, Rajarshi Shahu College of Engineering,Tathawade,Pune. (MS)
P-302	Iot Based Med-Box With Home Delivery Of Medicines	201921005592	MRUNAL ASHOK SHIRKE amsrscoe2018@gmail.com, 8390320237
P-303	An Apparatus And A Method For Evaluation Of Bones	951/MUM/2015	MR. SUBIM NABILAL KHAN 1Sector No.29.Plot No.287-89,F lat No.303,Nisarg Residency, Ravet, Pradhikaran
P-304	Key Tracker Using Gps	201621001943	Archana Jadhav prajaktawaghere36@gmail.com, 9527266835
P-305	Automatic Water Tank Cleaner And Purifier	201821024251	MR. SHUBHAM BALASAHEB MATRE Shreekrishna Colony, Shastrinagar, Rahatani Road, Pune
P-306	Water Resistant, Magnetic Resistance, Shock Resistance, Dustproof And Temperature Resistant Universal Usb Pendrive Protective Case With Nfc Technology And With Advanced Near –Long Distance Tracking System	201721040907	Akshay Suresh Mhaske akshaymhaske8446@gmail.com, :8446213443
P-307	Manually Operated Onion Harvesting Machine	201821022940	MR. SHUBHAM RAMPRASAD GUPTA 1Near Indira National School, Tathwade, Pune
P-308	Key Tracker Using Gps	201621001943	ARCHANA JADHAV prajaktawaghere36@gmail.com, 9527266835

P-309	Flexible Roll Forming Machine For Manufacturing Variable Cross-Section Profile	201721028125	MR. Harshal Sanjay Chaudhari 1Flat No.1, Ajinkay 1 Society, RH 184/1, G Block, Chinchwad, Dist- Pune
P-310	Multi Purpose Smart Pen	3425/MUM/2015	Sahasrabudhe Omkar Mukund omkars99@gmail.com, 9175418166
P-311	Design And Development Of Single Stage Coarse-Fine Mechanism For Precision Application	201721027728	Mr. Sandesh Solepatil 1Arangoan, Jamkhed, Ahmednagar-413201, Maharashtra, India
P-312	Improved Matchsticks	3040/MUM/2015	Ganesh Dnyandeo Dudhe .dudhe@gmail.com, 7875294227
P-313	Design And Development Of Single Stage Coarse-Fine Mechanism For Precision Application	201821010942	Mr. Anuradha Anil Ghotekar 1A 40, Aishwaryam Melody, Sec32A, Opp SBI Ravet, Pune
P-314	Improvement In Cricket Technology	3007/MUM/2015	Saiee Rahul Amrutkar ceo@assent.co.in, 8888486679
P-315	Design And Development Of Mea For High Peak Power Fast Responding Pem Fuel Cell	201621007958	Mr. CHAVAN SUDARSHAN LAXMANRAO chavan_sl@rediffmail.com
P-316	Innovative Cash Indicator Technology For Atm Machine	2803/MUM/2015	Rohit B. Wadmare rohanwadmare@gmail.com, 7276507642
P-317	Development And Characterization Of Supercapacitive Pem Fuel Cell	201821008313	Mr. CHAVAN SUDARSHAN LAXMANRAO chavan_sl@rediffmail.com
P-318	System And Method For Predicting Heart Disease Risk Factors	2913/MUM/2015	Seema Kedar nagarkarsneha@yahoo.co.in, 9822439053
P-319	Design And Development Of Smart Electricity Measurement System	201821014826	Mr. CHAVAN SUDARSHAN LAXMANRAO chavan_sl@rediffmail.com
P-320	Improved Keyboard With Visible Operating Shortcut Keys For Laptop Keyboard & Desktop Computer Keyboard	784/MUM/2015	Rohit Bhimashankar Wadmare rohitwadmare.ak@gmail.com, 7276007942
P-321	Design And Implementation Of Shielded Channel Double Gate Junctionless Metal Oxide Semiconductor Transistor For Low Power And High Performance	4726/MUM/2015	Mr.Wagaj Santosh Chandrakant scwagaj@yahoo.com, 9970063553
P-322	Design And Development Of Mea For High Peak Power Fast Responding Pem Fuel Cell	201621007958	Mr. Chavan Sudarshan Laxmanrao chavan_sl@rediffmail.com, 9763722256
P-323	System And Method For Recognition Of Human Emotions	54/MUM/2015	Dr. D. S. Bormane ajaypaithane@yahoo.co.in
P-324	Pre And Post Accident Reventing Device	201821003798	Pawar Kunal Kalyanrao kumavatmohit007@gmail.com
P-325	Car Alert System	201821004209	Chandan Pandurang chandanbhole8@gmail.com

P-326	Design And Implementation Of Nanoscale Dual Gate Stack Silicon On Nothing Junctionless Transistor For Improving Short Channel Effect And Performance	201721026855	WAGAJ SANTOSH CHANDRAKANT scwagaj@yahoo.com
P-327	Design And Implementation Of Position Aware Congestioncontrol System Inwireless Sensor Networks	201721026855	Dattatray Waghole sjgawande@gmail.com
P-328	Chain Link	20180312408	Satish Bagal 9922770024
P-329	Design And Implementation Of Nanoscale Dual Gate Stack Silicon On Nothing Junctionless Transistor For Lmproveng Short Channel Effect And Performance	201721026855	MR. WAGAJ SANTOSH CHANDRAKANT SPMS RAJARSHI SHAHU COLLEGE OF ENGINEERING, S.NO.80, PUNE
P-330	Solar Water Temperature Control Unit With Embedded Thermal Electricity Generators	201621019881	JAYESH SANJAY PATIL jspatil1230@outlook.com, 9075514966
P-331	An Innovative Earthen Pot Evaporating Cooling To Obtain Cooled Water & Enable Space Cooling	201621024229	Sanjay P. Salve sanjaysolve@yahoo.com, 9822884168
P-332	Design And Development Of Agricultural Robot	201721020107	SHREEYASH SHIVAJI PATIL Shreeyashpatil24@gmail.com, 9766745779
P-333	Hearing Aid For Hearing Impaired With Minimum Latency For Better Perception Of The Speech Signal	---	Prof. Dr. M. T. Kolte mtkolte@yahoo.com, +919860446160
P-334	External Processor Based Delta Robot System	---	Rahul Anand Shete ujwalshirode@gmail.com, +919890001296
P-335	Automatic Bus Transport System With Bus Location, Identification Andpassenger Counting	---	DIPTI RAVINDRA KULKARNI mtkolte@yahoo.com, +919158915259
P-336	Biooil Extraction From Fruit The Kagelia Africana	---	Sagar Mukundrao Gawande hodcivil@abmspcorpune.org, +918275401266
P-337	Improved Multiple Sign Indicator System For Motorcycles	---	Manish Mohandas Narkhede manishmn1987@gmail.com
P-338	Multi Purpose Weight Carrying Mechanism	---	Pankaj Sahadeorao Ardak pankajardak@gmail.com, 8830384560
P-339	Rain Water Harvesting System Through Street Light Poles	201921031345 0	Pankaj Sahadeorao Ardak pankajardak@gmail.com, 8830384560
P-340	Patho-Urinal To Detect And Display Urine Test	---	Parag Laxman Gore 182, Dada SmrutiSavata Nagar, Opposite to akashwani Kendra Devopur, Dhule
P-341	Foldable Safety Helmet	---	Sanket Sadashiv Kumbhar Swamidas Appartment, Block No. 14, Dhargar Aali, Roha, Raigad

P-342	Chopping Guard To Avoid Injury Of Human Fingers	---	Jayashri V. Chopade jayashri.chopade@pccoer.in, 9545452766
P-343	Safety Status For A Highway Project	201621017429	Ravindra Krishnarao Lad
P-344	Appropriate Flat Potential Index (Afpi) For A Residential Flat	201621017427	Ravindra Krishnarao Lad
P-345	Real Estate Project Success Potential Index (Repspi)	201621017428	Ravindra Krishnarao Lad
P-346	A Program Based Starting System For Two Wheeler's		Nangare Ganesh Raman A/P:Ghodagaon Tal Ambegaon ,Bhimashankar Manchar Road Dist Pune
P-347	Combined Novel Honeycomb Heat Exchanger And Latent Thermal Energy Storage System Integrated With Flat Plate Solar Air Collector	201921011073	Deshpande Piyush Zeal College of Engineering & Research,Sr.No.39,Narhe
P-348	Cascade Thermoelectric Model Operated Passive Device For Car Windshield Defogging	201921011083	Borade Sachin Sharad Zeal College of Engineering & Research,Sr.No.39,Narhe
P-349	Dual Mode Seasonal Helmet	201921011085	Sayyad Mazhar Maulaali Zeal College of Engineering & Research,Sr.No.39,Narhe
P-350	Modified Gas Burner Design For Flat Base Cooking Pots	201921011082	Mali Lakhna Balasaheb Zeal College of Engineering & Research,Sr.No.39,Narhe
P-351	Smart Chair: Round The Year Thermal Comfort Enhancement Of Chair Occupants Using Thermoelectric Cascade Model And Phase Change Material	201921011076	Shinde Aniket Pradeep Zeal College of Engineering & Research,Sr.No.39,Narhe
P-352	Seat Belt- A Life Savior	---	Akshay Ankush Newase akshaynewase@yahoo.co.in, +919765956525
P-353	A Microcontroller Integrater Weight Sensor Installed On Medicine Bottles To Detect The Exact Refill Time With Unit Metering System	---	Shubham Thakur 1Department of Mechanical Engg., PCCOE, Akurdi, Pune
P-354	A Digital Platform For 360o Orientation Through Verticle And Horizontal Axis Integrated With A Take Along Charging Utility For Modern Smartpones	---	Shubham Thakur .TE. student, Department of Mechanical Engg., PCCOE, Akurdi, Pune (MS)
P-355	Aquatic Wall Garden	---	Ashwini Rakesh Jagnade ashwini.jagnade@pccoer.in, 8554987765
P-356	An Alarming System For Mishandling Of Equipments	---	Bhagyashree Appasaheb Bhosale bhagyashree.bhosale@pccoer.in, 8805907015
P-357	Pouched Thermostatic Apparatus To Store Packets Of Beverages In Its Folds	---	Dr Jyothi Ramesh Pai jyoti.pai@pccoer.in, 9403356299
P-358	An Alteration In Toothbrush To	---	Shweta Koparde koparde@pccoer.in,

	Detect Germs		9960614717
P-359	Obstacle Detection With Movable Mounted Camera For Mobile Phone	---	Sonali Lunawat sonali.lunawat@pccoer.in, 8087472177
P-360	Automated Decision Support System (Dss) For Thyroid Malignancy Detection Through Usg	---	Wrushali M. Mendre vrushalimendre@gmail.com
P-361	A Sensing Device To Auto Switch-Off The Powered Domestic Water Purifier	---	Vaishali Latke Assistant Professor, PCCOER, Pune, Maharashtra
P-362	Underwater Image And Signal Processing	---	Rupali Kawade kawade@pccoer.in, 8805011639
P-363	Bs-Vi Diesel Particulate Filters(Dpf) Cleaning With The Help Of Acoustic Sonic Soot Blower Equipment	201921029470	Munot Divya Pimpri Chinchwad College of Engineering, Pradhikaran Nigdi, Pune-411044
P-364	Iot Based Real-Time Remote Patient Monitoring System	201821036724	Dr.N.B.Chopade Pimpri Chinchwad College of Engineering, Pradhikaran Nigdi, Pune-411044
P-365	Design Of A Robust 2x2 Multi Input Multi Output Antenna Based On Cooperative Diversity	201821035593	Dr. N.B.Chopde Pimpri Chinchwad College of Engineering, Pradhikaran Nigdi, Pune-411044
P-366	High Gain Robust Operational Amplifier Using Carbon Nanotube Field Effect Transistor	---	Mrs. Varsha bender Pimpri Chinchwad College of Engineering, Pradhikaran Nigdi, Pune-411044
P-367	Method For Electricity Generation Using Water And Device Thereof	201621004962	Mr. Shinde Sangharsh Ravindra Pimpri Chinchwad College of Engineering, Pradhikaran Nigdi, Pune-411044
P-368	Improved Front And Rear View Telescopic Camera System	201721023434	MANISH KALYAN GHOLVE Pimpri Chinchwad College of Engineering, Pradhikaran Nigdi, Pune-411044
P-369	Economic,Efficient & Effective System For Production Of Bio-Degradable Products From Agricultural Waste	---	MR. RAHUL RAGHUNATH MANE Pimpri Chinchwad College of Engineering, Pradhikaran Nigdi, Pune-411044
P-370	Smart Fuel Theft Prevention Device	201721032402	SHUBHAM RAMESH MOHITE Pimpri Chinchwad College of Engineering, Pradhikaran Nigdi, Pune-411044
P-371	To Design And Manufacture An Alternative Arrangement To The Bed Of Cnc Gas Profile Cutting Machine	201721009032	MR.CHANDRAKISHOR LAXMAN Pimpri Chinchwad College of Engineering, Pradhikaran Nigdi, Pune-411044
P-372	Automated Panipuri Serving Machine	201721012744	DR. LAKADE SANJAY SHRIDHAR Pimpri Chinchwad College of Engineering, Pradhikaran Nigdi, Pune-411044
P-373	Library Automation Using Computer Vision	---	Siddhi Sawant Pimpri Chinchwad College of Engineering, and Research,411044
P-374	A Raspberry Pi Based Smart Gadget For Women Safety Using Iot	---	Prof.M.S.Andhare Pimpri Chinchwad College of Engineering, and

			Research,411044
P-375	Atm Security System Using Iris Recognition By Image Processing	---	Dipali Dhake Pimpri Chinchwad College of Engineering, and Research,411044
P-376	Automatic Waste Segregator And Monitoring System	---	Jiyot Babrah Pimpri Chinchwad College of Engineering, and Research,411044
P-377	Smart Traffic Control Using Digital Image Processing	---	Keta Patel Pimpri Chinchwad College of Engineering, and Research,411044
P-378	Thermal Comfort Enhancement Of Ceiling Fan (Cooling Mode) Integrated With Peltier Cooler, Heat Pipe, Phase Change Material And Adsorbent (Air Conditioned Ceiling Fan)	201821039146	Tamboli Ayub Alamso Zeal College of Engineering & Research,Sr.No.39,Narhe
P-379	Burning Feet Sole Cooler	201821035732	Tamboli Ayub Alamso Zeal College of Engineering & Research,Sr.No.39,Narhe
P-380	Clothing Iron Sole Cooler Cum Safety Kit	201821036606	Tamboli Ayub Alamso Zeal College of Engineering & Research,Sr.No.39,Narhe
P-381	Cfm -Construction Industry: Managerial Competencies Of Female And Male Managers In Construction Industry	201921028800	Smita Pataskar
P-382	P-Parking Space: Prediction Of Parking Space Near By Your Vehicle	201921030922	Smita Pataskar
P-383	A System For Automatic Fan Speed Control In Accordance With Room Temperature	---	Rajashree Nilesh Darwatkar PCCOER, Ravet
P-384	Pure Coconut Oil Preservation In Winter Season	---	Bhagyashree Gawali PCCOER, Ravet
P-385	Secured Atm System	---	Prof.Arti Tekade PCCOER, Ravet
P-386	Fault Detection Of Industrial Pipes Using Image Processing	---	Snehal Atul Aher-Gholap PCCOER, Ravet
P-387	A Smart Digital Stapler	201821002806	Madhav Tukaram Sarode Bhondawe Orchid, Flat No. 501, B - Wing,Near Ravet Chawk BRT Stop,Ravet, Pune
P-388	Profile And Tools Use For The Pottery Production	201821012915	Nandkishor Marotrao Sawai Bajaj Nagar, Nagpur – 440010
P-389	Human Powered Pedal Mechanism For Potter's Wheel	201821012923	Nandkishor Marotrao Sawai Bajaj Nagar, Nagpur – 440010
P-390	A Program Based Starting System For Two Wheeler's	---	Nangare Ganesh Raman A/P: Ghodagaon, Tal.- Ambegaon, Bhimashankar - Manchar Road, Pune
P-391	Customer Side Fuel Dispensed Measurement and Display System on Vehicle	201721026859	Rahul Krishnaji Bawane rahul.bawane@pccoer.in, 8806668536

P-392	An Anti-Water Splashes System For Bike And The Like	---	Yash Chandrakant Bari Flat No. 302, Shivmugdha Society, Vinayaknagar, Borhadewadi, Moshi
P-393	Dust Collector for Hand and Bench Grinder	CBR No. 12301	Mr. Rohan Petkar rohanupetkar@gmail.com, 94212 99000
P-394	Fuel Economy Prediction of Auto Mobiles	---	Mr. Rohan Petkar rohanupetkar@gmail.com, 94212 99000
P-395	Hand Orthosis for finger movement improvement	201921000506	Mr. Rohan Petkar rohanupetkar@gmail.com, 94212 99000
P-396	Multiple Bolt Driver Machine For Different Types Of Wheels Having Different Bolts/Lugs Arrangement	201721040737	Sandesh Dnyaneshwar Kshirsagar sandeshkshirsagar1997@gmail.com ,7741004179
P-397	Synchronization of Auto Air-Conditioner with Power Windows of Auto Mobiles	---	Mr. Rohan Petkar rohanupetkar@gmail.com, 94212 99000
P-398	Dynamic Scale	---	Yash Agarwal Indira COE & Management, Pune
P-399	Static Scale	---	Yash Agarwal Indira COE & Management, Pune
P-400	Static Scale	---	Yash Agarwal Indira COE & Management, Pune
P-401	Non-Invasive KNEE Loading Measurement Using IOT	---	Dr. Bahubali K. Shiragapur DYP SOE, Lohegaon-Pune
P-402	Predicting The Risk Of Heart Attack	---	Nishikant Surwade DYP SOE, Lohegaon-Pune
P-403	Permanent Solution On Leakage Of Water From Plant Pots	201721041379	Mayura Milind Yeole mayura.yeole@pccoer.in, 9423933241
P-404	Organic Material Test Machine	201821021085	Wairagade Vijay Rambhauji Indira College of Engineering, Civil Dept.
P-405	The Smart Refuelling Assisting System For Automobile	201821003562	Krishna Kailas Patil Product Design Engineer, SSAPL
P-406	Innovative Pipette For Suction Of Large Volume Of Liquid Without Formation Of Bubbles	---	Mayura Milind Yeole mayura.yeole@pccoer.in, 9423933241
P-407	Dual-Piston Water/Coolant-Injected Self-Cooled Six-Stroke Internal Combustion Engine with Variable Compression Ratio	---	Deepak Devidas Biradar deepak.biradar@pccoer.in, 9689901180
C-001	Leaf Severity Management Using Neural Networks	19819/2019-CO/L	Asif Ali Department of Computer Engg., ISBM, Pune, (MS)
C-002	Online E-Gas Booking System Using Cloud Computing	19826/2019-CO/L	Ambuj Kumar Sinha Department of Computer Engg., ISBM, Pune, (MS)
C-003	Smart Medicine Box Using Iot	19822/2019-CO/L	Shubham Kandekar Department of Computer Engg., ISBM, Pune, (MS)
C-004	Integrated Bluetooth And Band Notch Uwb Antenna	18827/2019-CO/L	Trupti Pawase MIT Art, Design and Technology

			University
C-005	Building A Privacy Oriented Chrome Extension	L-79973/2019	Mr.Amol N. Dumbare amol.dumbare@pccoer.in, 8600616444
C-006	Instant Measure	15202/2019-CO/SW	Manali Munot PCCOER,Ravet,(MS)
C-007	Algorithm For Randomly Carrier Detection Based Data Hiding	---	Mrs. Anuja Bhondve anuja.bhondve@pccoer.in, 8237444001
C-008	Zjaid Sort	11908/2019-CO/SW	Mohammad Jaid Mulani mjzaid921.pccoer@gmail.com
C-009	D2F Infra: ICT For Sustainable Agricultural Development	L-75256/2018	Mahendra Balkrishna Salunke mahendra.salunke@pccoer.in, 9763722206
C-010	LAB MANUAL Of Computer Networks With Programs And Output	---	Ompriya Kale ompriya.kale@pccoer.in, 8451949219
C-011	Assessment Of Student Understanding Using Concept Maps	3969/2016-CO/SW	Shweta Koparde ashwe04@gmail.com, 9960614717
C-012	Battery Discharge Prediction Using Support Vector Machine	---	Shweta Koparde, ashwe04@gmail.com, 9960614717
C-013	Mentor Application	---	Mr. Aditya Desai Department of ComputerEngg., PCCOER, Ravet,
C-014	Voice Based Product Tracking System In Mall For Customers	683-/2018-CO/L	Mrs. Sonali Sagarmal Lunawat sonali.lunawat@gmail.com, 8087472177
C-015	Data Fusion And Delay Aware Structure With Multiple Routing In Wireless Sensor Network	L-73758/2018	Mrs.Vaishali P. Latke , vaishali.latke@pccoer.in, 9766731229
C-016	A Smart Bi-Directional Power Converter For Vehicle To Vehicle, Vehicle To Home And Home To Vehicle Power Transmission	13418/2017-CO/L	Prof. Dr. Rahul Ganpat Mapari rahul.mapari@pccoer.in,8830550073
C-017	A Smart Digital Stapler	14361/2017-CO/L	Prof. Dr. Rahul Ganpat Mapari rahul.mapari@pccoer.in,8830550073
C-018	Firearm Security Using Bio-Metric	---	Prof. Dr. Rahul Ganpat Mapari rahul.mapari@pccoer.in,8830550073
C-019	Atm Security System Using Iris Recognition By Image Processing	17533/2019-CO/L	Prof. Dipali Dhake dipali.dhake@pccoer.in,7588054221
C-020	Implementation Of Memac Protocol Using Wsn	726/2018-CO/L	Triveni Dhamale triveni.dhamale@pccoer.in, 9422009953
C-021	RF & EMP Generation And It's Effects	756/2018-CO/L	Triveni Dhamale triveni.dhamale@pccoer.in, 9422009953
C-022	IOT Based Real Time System For Industrial Boiler Safety	17525/2019-CO/L	Prof. Triveni Dhamale triveni.dhamale@pccoer.in,9422009953

C-023	Onion Storage Atomization With Rotte Onion Detection And Retrieval System	17599/2019-CO/L	Prof. Triveni Dhamale triveni.dhamale@pccoer.in
C-024	Multi Pal Recharge On Your One Click	742/2018-CO/L	Mrs. Ashwini Rakesh Jagnade ashwini.jagnade@pccoer.in, 8554987765
C-025	Design Of Micro Strip Multiband Antenna For Wireless Applications	17597/2019-CO/L	Prof. Triveni Dhamale triveni.dhamale@pccoer.in
C-026	Communication Through Helmet	2884/2019-CO/L	Ravindra Mali ravindramali251@gmail.com
C-027	Save Your Dreams By One Click	758/2018-CO/L	Mrs. Ashwini Rakesh Jagnade ashwini.jagnade@pccoer.in, 8554987765
C-028	P2P Data Transfer Without PC (Pendrive To Pendrive Data Transfer Without Computer)	627/2018-CO/L	Kishor Wane Kishorewane@gmail.co.in,9552551357
C-029	2d Laser Engraver Cnc Plotter	17460/2019-CO/L	Onkar Phule Kishorewane@gmail.co.in@pccoer.in
C-030	Malaria Parasite Detection Using Deep Learning	17442/2019-CO/L	Prof. S. N. Randive santosh.randive@pccoer.in
C-031	E-Bike Wireless Charging System	17601/2019-CO/L	Prof. A. A. Tekade arti.tekade@pccoer.in , arti.tekade@pccoer.in
C-032	Design And FPGA Implementation Of High Speed Vedic Multiplier	17605/2019-CO/L	Prof. A. A. Tekade arti.tekade@pccoer.in
C-033	Iot Based Smart Container	670/2018-CO/L	Prof. M.S.Andhare Maithili.andhare@pccoer.in,9922435837
C-034	SMARISA: A Raspberry Pi Based Smart Ring For Women Safety Using Iot	17457/2019-CO/L	Mrs. M.S.Andhare Maithili.andhare@pccoer.in, 9922435837
C-035	Detection Of Diabetic Retinopathy Using Deep Learning	17451/2019-CO/L	Mrs. M.S.Andhare Maithili.andhare@pccoer.in, 9922435837
C-036	Making India Paperless Using Cloud Storage For Documentation	17444/2019-CO/L	Vijayalaxmi S. Kumbhar vijayalaxmi.kumbar@pccoer.in, 8390455493
C-037	Soil Analyzing Tool	17449/2019-CO/L	Vijayalaxmi S. Kumbhar vijayalaxmi.kumbar@pccoer.in, 8390455493
C-038	Modular Design: A Case Study	---	Achyut Khare achyut.khare@pccoer.in, 9822848799
C-039	Prediction Of Relation Between Tool Wear And Temperature During	---	Aniket Deshmukh aniket.deshmukh@pccoer.in, 8446138622

	Machining		
C-040	Experimental Analysis And Investigation For Thermal Behavior Of Ventilated Disc Brake Rotor Using CFD	---	Deepak Biradar ddbiradar@gmail.com, 9689901180.
C-041	Experimental Investigation Of Internal Combustion Engine Performance Parameter For Cottonseed Oil As A Lubricant And Development Of Mathematical Model By Semi Empirical Method For Exhaust Emission	---	Siraskar Gulab D gdsiraskar@gmail.com,(+91) 8888004083
C-042	Laser Security Alarm System	---	Nikhil Rane nikhilarane2908@gmail.com, 9767190819
C-043	Experimental Investigation Of Spot Weld Ability Of TWIP Steel For Automotive	---	Nandkumar Vele nandkumar.vele@pccoer.in, 7887956712
C-044	Automatic Paper Cutting Machine	---	Prasad Jamdar prasadjamdar7@gmail.com,8378907017
C-045	Numerical Solution Of Two Dimensional Rayleigh Benard Convection In Infinite Domain	---	Pradeep Ravindra Gaikwad pradeep.gaikwad@pccoer.in, 8510030448
C-046	Jatropha Oil Methyl Ester By Transesterification	---	Rahul Bawane rahul.bawane@pccoer.in, 8806668536
C-047	Rapeseed – A Potential Feedstock For Biodiesel	---	Rahul Bawane rahul.bawane@pccoer.in, 8806668536
C-048	Coriander Seed Oil Methyl Esters As Biodiesel Fuel: Unique Fatty Acid Composition And Excellent Oxidative Stability	---	Rahul Bawane rahul.bawane@pccoer.in, 8806668536
C-049	Hazelnut: Alternative Fuels Used In Ic Engine	---	Rahul Bawane rahul.bawane@pccoer.in, 8806668536
C-050	Compressed Air As Alternate Fuel To Power The Vehicles	---	Rahul Bawane rahul.bawane@pccoer.in, 8806668536
C-051	Diesel Engine Performance For Cotton Seed Biodiesel	---	Rahul Bawane rahul.bawane@pccoer.in, 8806668536
C-052	Coffee Biofuel Feedstock For An Alternative Fuel	---	Rahul Bawane rahul.bawane@pccoer.in, 8806668536
C-053	Castor Non-Edible Oil Feedstock For Biodisel Production And Its Prospectus	---	Rahul Bawane rahul.bawane@pccoer.in, 8806668536
C-054	Biodiesel Production From Non-Edible Cottonseed Oil Feedstock	---	Rahul Bawane rahul.bawane@pccoer.in, 8806668536
C-055	Working Phenonmenon Of Six Stroke Ic Engine	---	Rahul Bawane rahul.bawane@pccoer.in, 8806668536
C-056	Pendrive Storage Display Without	---	Sahil Deepak Nagpure

	Connecting To Computer		sahilnagpure23@gmail.com, 7066900589
C-057	Flow Chart To Fit A Straight Line Using Least Square Technique	---	Prof. Sukhadip Chougule sukhadip.chougule@pccoer.in, 860076119
C-058	Lab Manual – Theory Of Machine	---	Sanjay M Narayankar1 sanjay.narayankar@gmail.com, 9922919256
C-059	Automatic Light Controller Using Ldr For Street Lights	---	Achyut Khare achyut.khare@pccoer.in, 9822848799
C-060	Investigation And Micro Structural Analysis Of Pivot Assembly In WAG-09 Locomotive	---	Ms. Sneha V. Pawade sneha.pawade@pccoer.in, 7972003204
C-061	Smart Dustbin	---	Vedant Chaudhary vedi.t.chaudhary@gmail.com, 9604149502
C-062	Smart Stabilizer	---	Dumbre S.T. SCOE, Belhe
C-063	Smart Contract For Educational Digital Certificate using Blockchain	---	Gaikwad Vishal Bhimashankar vishalgaikwad26199@gmail.com, 8805295965
C-064	Mini Cabinet Saw	---	Gayatri Kailas Medge
C-065	Energy Harvesting From Human Motion And Vehicular Seat Vibration Using Piezoelectric Sensors	---	Kale Suhas R. Tupe
C-066	Smart Backpack	---	Kalpesh Malpure kalpeshmalpure1@gmail.com,
C-067	Flood Monitoring And Early Warning System Using Ultrasonic Sensor	---	KIRAN KAD kiran1080@gmail.com, 9921156474
C-068	Self-Powered GPS Mechanism For Smartphone Against Misplaced Conditions	---	Prof. Rahul Parbat PCCOE&R, Pune, Maharashtra
C-069	Advanced Microstrip Patch Antenna For Wearable Application	---	Kranti D. Patil1 krantidpatil27@gmail.com, 9130014797
C-070	Patient Health And Saline Monitoring	---	Madhavi Darokar madhavid21@gmail.com
C-071	Iot Based Smart Solar Pole System	---	Mahua Mukhopadhyay ISBM COE, Pune
C-072	Mvp Krushi Basket	---	Dr. Vijay R. Sonawane hod.it@kbtcoe.org, 7588025179
C-073	Disaster Management System For Smart Cities Using IOT	---	Mr. Shreeyash Kaujalgikar shreeyashk50@gmail.com, 8485082299
C-074	Intelligent Parking System-Parcare	---	Ms. Komal Mishra komalmishra1209@gmail.com, 9665029796

C-075	Energy Generating Shock Absorber Shoes	---	Mst. Nayan Madhav Sarode nayansarode2@gmail.com, 9373063480
C-076	Soil Quality Monitoring Using IOT And Machinelearning	---	Naikwadi Divya K Divyanaikwadi99@gmail.com, 9922391991
C-077	IOT Based Home Automation Security And Safety system Using Smart Phone Application	---	Lalitkumar Gupta j.nidhi831@gmail.com, 91566 46140
C-078	Transaction Theft Prevention Using Face Detection And Shuffled Keyboard Using Machine Learning	---	Namita Velgekar velnamita@gmail.com, +91 9325226343
C-079	Demonstration Of Decomposition Of Rice Paddy By Enzymatic Activity	---	Omkar Landge
C-080	2-D Laser Engraver Cnc Plotter	---	OnkarPhule onkarphule007@gmail.com, 9819207336
C-081	Automatic Assessment Of Depression Level Prediction On Visual Cues Using Deep Learning	---	Pandurang Shinde jsonali622@gmail.com, 9112787994
C-082	Floodert System Using Iot	---	Prajakta Ingale prajaktaingale98@gmail.com, +918408883152
C-083	Artificial Noise Detection And Alarming System To Save Forest Reserves	---	Prasad Hindurao Mali maliprasadh98@gmail.com, 9420415197
C-084	Employability Skills- A Kano Analysis	---	Rishikesh K. Nalawade nalawade.rihshikesh@gmail.com, 9975639455
C-085	Sound Prohibited Zone For Smart Cities	---	Snehal Sahebrao Ruchira NDMVP KBTCOE, Nashik
C-086	Design And Testing Of Lightweight Sandwich T- Joint Of Composite Material Using FEA And Experimental Techniques	---	Sachin S Yadav sachinsyadav17@gmail.com, 9890092101
C-087	Bio Oil Extraction From The Organic Fruit Waste (Kagelia Africana)	---	SAGAR MUKUNDRAO GAWANDE gawande.sagar@gmail.com ,
C-088	Smart Plant Nursery Management System Using AI & IOT	---	Sanket Shashank Kapole
C-089	Secure And Energy Reconfigurable Cryptosystem architecture For Video Application On FPGA	---	Shekhar Bodake bodake.shekhar@gmail.com, 7028068103
C-090	IOT Based Home Automation Security And Safety System Using Smart Phone Application	---	Soham Kamat mahua7980@gmail.com, 8652640258
C-091	Driverless Metro Train	---	Sweetie.S. Ware Patil.pranita2020@gmail.com,

			8149016366
C-092	Mulbotics	---	UlkaPravin Ghosalkar ulkaghosalkar@gmail.com , 9139340119
C-093	Sopc Based Convolution Encoding And Viterbi Decoding	---	Anuradha Kulkarni SCOE, Pune, Maharashtra
C-094	Agriculture Pooling Using Blockchain	---	Deepti Gatne abhishek.medhane@gmail.com,
C-095	Analysis And Visualization Of Privacy Policies Of Online Services	---	Ashish Chavan chavan.ashish98@gmail.com, 8605769077
C-096	Solid Dessicant Assisted Air- Conditioning System	---	Dr. C Shriramshastri csrshastrijee@gmail.com, 9921993248
C-097	Protection Of Multimedia Document Using Digital Video Watermarking Techniques	---	Dr. Chhaya S. Gosavi chhaya.gosavi@gmail.com, 9850239897
C-098	Digital Image Stegaanalyzer Using Ensemble Classifier	---	Govind R Suryawanshi Suryawanshi.rs@gmail.com,9403670736 snmali@rediff.com
C-099	An Appratus For Conducting Ex- Vivo Studies On Tissues	---	Dr. AVINASH TEKADE arti.tekade@pccoer.in, 9371152536
C-100	Bell Peppers	15229/2019- CO/SW	Vaishnavi Jagtap nilesh.korade@pccoer.in, 8600721374
C-101	Delisho'cravings		ISHA SAWANT PCCOER,RAVET
C-102	Rsocietymaster	15218/2019- CO/SW	RASIKA DHANDE
C-103	Tracking User History	15222/2019- CO/SW	Mohit Gautam Kabadi PCCOER, Ravet.
C-104	Meddie	15213/2019- CO/SW	Saurabh Singh Khushwah PCCOER, Ravet.
C-105	Milk Dairy	16027/2019- CO/SW	SAPANA BURUD vaishali.latke@pccoer.in
C-106	Stay Fit Master	15204/2019- CO/SW	JITEN ADAV
C-107	Title: Mission India : "A 5-Trillion Dollar Economy"	13865/2019- CO/L	Dr.Harish U. Tiwari Principal,PCCOER,Ravet
C-108	Harish Temperature Scale For The Measurement Of Degree Of Coolness/Coldness With New Unit Degree Harish (°H)	4195/2019- CO/L	Dr.Harish U. Tiwari Principal,PCCOER,Ravet
C-109	Design And FPGA Implementation Of High Speed Vedic Multiplier	17605/2019- CO/L	Saurav Mahajan PCCOR, Ravet
C-110	Biometric Authentication For Pen Drive	---	Priya Oghe priya.oghe@pccoer.in, 9960467234
C-111	Distance Indicator And High Efficient Camera For Train	---	Priya Oghe priya.oghe@pccoer.in, 9960467234
C-112	Photoluminescence Band For	---	Priya Oghe

	Directing The Path In Tunnel And Airport Runway		priya.oghe@pccoer.in, 996046723
C-113	Niche Based E-Commerce Platform – Healthcare Sector	---	Asif Ali Department of Computer Engg., ISBM, Pune, (MS)
C-114	Domestic Refrigerant Compatible With Phase Change Material	19869/2019-CO/L	Ambuj Kumar Sinha Department of Computer Engg., ISBM, Pune, (MS)
C-115	Copyright Format Of Wireless Military Surveillance Robot	---	Shubham Kandekar Department of Computer Engg., ISBM, Pune, (MS)
C-116	Note To Note Exchanger	20058/2019-CO/L	Trupti Pawase MIT Art, Design and Technology University
C-117	Implementation Of Digital System For College Management	20057/2019-CO/L	Mr.Amol N. Dumbare amol.dumbare@pccoer.in, 8600616444
C-118	Text Document Classification	---	Manali Munot PCCOER,Ravet,(MS)
C-119	Solid Desiccant Assisted Air-Conditioning System	18675/2019-CO/L	Mrs. Anuja Bhondve anuja.bhondve@pccoer.in, 8237444001
C-120	Selection Of Best Cover Image From A Database Of Cover Images For Improved Imperceptibility In Image Steganography Using Genetic Algorithm	20046/2019-CO/L	Mohammad Jaid Mulani mjzaid921.pccoer@gmail.com
C-121	Analysing Real Time Big Social Data And Modelling Emotions In Social Media (Twitter)	---	Mahendra Balkrishna Salunke mahendra.salunke@pccoer.in, 9763722206
C-122	Plastic, Metal And Paper Industry Waste Segregation	---	Ompriya Kale ompriya.kale@pccoer.in, 8451949219
C-123	To Develop An App For The Navlakh Umbre Gram Panchayat	---	Omkar S. Ghotekar pccoer.ravet@gmail.com,8237238080
C-124	To Supply Electricity With Proper Consumption Details & Correct Billing Amount	---	Omkar S. Ghotekar pccoer.ravet@gmail.com,8237238080`
P-408	The FinPrint	201921037533	Ms Ishika Prasad 22prasad09@gmail.com,7620313124
P-409	Cutting Dies for Kolhapuri Chappal and Automation thereof	201821034508	Ganesh S. Jadhav gsjadhav@yahoo.co.in
P-410	Multifunction Pen	---	Jain Shrenik Sanjay shrenik123jain@gmail.com, 8975958356

P-411	Multipurpose ,Modular & Smart Agriculture Equipment with attachments	201821045524	Prithviraj Vitthal Wable prithvi762@gmail.com,8983727847
P-412	Biocomposite Material Based Drawer Slide Assembly	----	Virendra Bhagwat bhagwatvirendra@gmail.com,
P-413	Lind Assistance Shoes	201921000903	Siddharth G. Gupta siddharth.gupta18@vit.edu, 7798073899
P-414	Agriculture Pooling Using Blockchain	---	Deepti Gatne 9890031783
P-415	Dog Tying Rope With Elastic Spring	---	Sneha V. Pawade 7972003204
P-416	Individual Carbon Footprint Calculation And Tax Charging System For Sustainable Environment	201721014007	Ompriya Kale ompriya.2007@gmail.com, 8451949219
P-417	A Thermal Camera Sensor For Fan To Save Electricity	---	Mrs.Shilpa Rajesh Kale shilpa.kale@pccoer.in, 8888148877
P-418	Puc Expiry Indicator	---	Tejal Patil jayashri.chopade@pccoer.in, 9545452763
P-419	Book Record System In Reference Section Of Library	---	Rupali S. Sonawane sonawane@pccoer.in, 9923147404
P-420	A Smart Tool For Testing Deficient Elements In Soil	201921052371	Vijayalaxmi S. Kumbhar vijayalaxmi.kumbar@pccoer.in, 8390455493
P-421	Retrofit Mechanism For Flow Control In Flush Tanks Of Toilets	---	Sonali Kedar Kanase sonali.kanase@pccoer.in, 9850780995
P-422	Fertilizometer	---	Dr. Archana A. Chaugule archana.chaugule@pccoer.in, 8007773086
P-412	Fulfillment Of Water Needs In The Vehicles	---	Jadhav Mahadev Rajaram



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-001

A Compass Attachment For Drawing Circle

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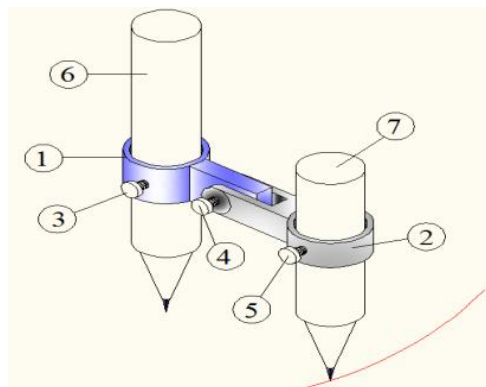
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ABSTRACT-

According to this invention there is provided an attachment which can replace the use of conventional drawing instrument compass and use to draw an arc and or circle. In this attachment, pivoted type attachment is used whose one end is fixed to any drawing aids like pen or pencil and other end is used to carry pen or pencil to draw an arc or circle, at the time of use of this attachment, one end is kept fixed and other end is used to draw an arc or circle. Thus this attachment eliminates the use of conventional drawing instrument compass. The said system comprises mainly a fixed housing (1) which is fixed and lock to the any writing aids pen (6) with the help of lock screw for fixed housing (3), the another end the pivoted housing (2) which is used to accommodate another writing aids pencil (7), there is a lock screw for attachment (4) which is used to vary the distance to acquired the required distance of the arc. Pencil is fixed into the pivoted housing with the help of lock screw for pivoted housing (5). During drawing an arc, fixed housing (1) attached pen (6) keep at the centre of an arc, and the distance is adjusted with the help of the pivoting the pivoted housing (2) and fix its position with the help of lock screw for attachment (4). Thus using the pencil (7) drawing an arc or circle.

DIAGRAM/SCHEMATIC –



1 : Fixed Housing, 2 : Pivoted Housing, 3 : Lock Screw for Fixed Housing, 4 : Lock Screw for Attachment, 5 : Lock Screw for Pivoted Housing, 6 : Pen, 7 : Pencil

IPR APPLICATION / PATENT NO. –201821049608



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCI 2019)

CIPCI 2019 : P-002

Co-Passenger Weight Sensing Automatic Opening and Closing Foot Rest of Bike

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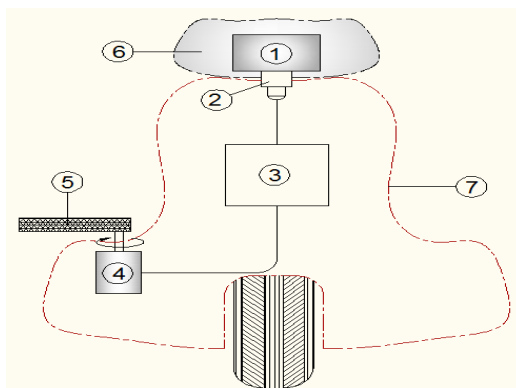
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ABSTRACT-

This innovation is based on providing a system which senses the load of the co-passenger by using the load sensor and thus a signal send to programmed power supply base which send the corresponding electrical pulse to the DC motor, the said DC motor then convert the electrical pulse into mechanical work in terms of rotation of shaft in particular direction which moves foot rest in outward direction and thus foot rest open to rest the riders foot, when DC motor received opposite programmed electrical pulse then it rotates in opposite direction and move the foot rest inward to closing position, thus this system provide automatic opening and closing of foot rest of two wheeler / bikes by sensing co-passenger weight.

DIAGRAM / SCHEMATIC –



1 : Load Rest Pad, 2 : Load Sensor, 3 : Programmable Power Supply Base, 4 : DC Motor, 5 : Foot Rest, 6 : Bike Seat, 7 : Bike Body

IPR APPLICATION / PATENT NO. – 201821049600



CIPCIS 2019 : P-003

Extensible Sun Visor to Obstacle Sun Rays from the Centre Portion of the Wind Shield of Vehicle

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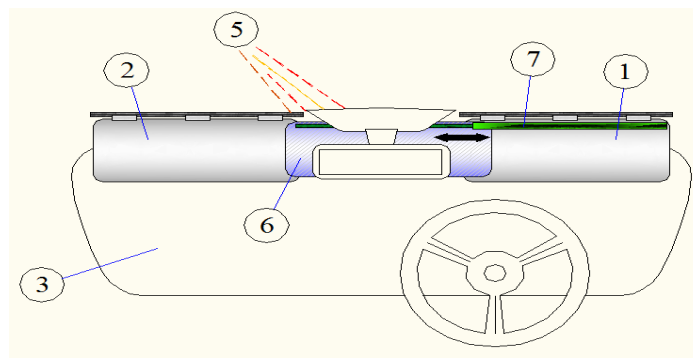
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ABSTRACT-

This innovation is based on providing a sliding type extensible sun visor, this sliding sun visor is attached to the driver's sun visor and can slide out to cover the middle open gap portion of the wind shield, and it cover the open gap and obstacle the sun rays to passed through the wind shield and strike on the driver's eyes to avoid disturbance to the driver's site, this sliding sun visor can be wind up by sliding in and bring it to the overlap position and can be hinged with the main sun visor of the driver's side and thus this invention can use to protect driver's eye site from the sun rays passing through the middle portion of the wind shield when ever needed.

DIAGRAM / SCHEMATIC –



1 : LH Sun Visor, 2 : RH Sun Visor, 3 : Wind Shield, 4 : Middle Section Space, 5 : Sun Rays, 6 : Sliding Sun Visor,
7 : Slider

IPR Application / Patent No. – 201821049589



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-004

Rotating Lock Ring and Fixed Slider Hose Clamp

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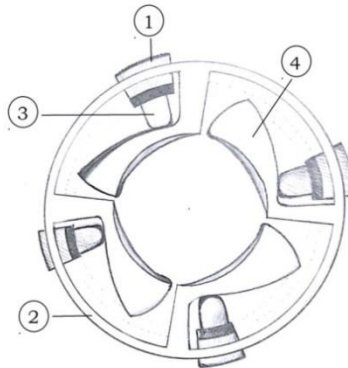
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ABSTRACT-

This innovation is based on providing a mechanical system to provide the locking of the hose clamp, for this the rotating lock ring is rotated along with the inner profile ring whose profile is rested against the slider of the fixed knob, when profile slides over the slider it result in inward movement of profile ring and provide the clamping grip over the hose pipe and when the lock ring rotates clockwise then the pressure on the profile ring released and due to elastic in nature the profile ring restored its unlock position and thus hose clamp released the fitting.

DIAGRAM / SCHEMATIC –



1 : Fixed Knob, 2 : Lock Ring, 3 : Slider, 4 : Profiled Ring

IPR APPLICATION / PATENT NO. – 201821049584



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-005

Pneumatic Pressure Operated Hose Clamp

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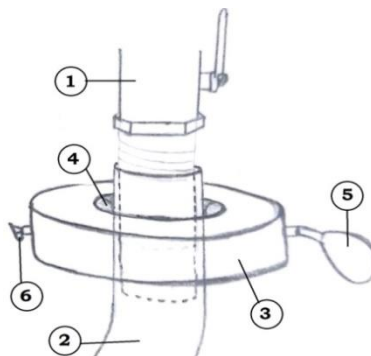
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ABSTRACT-

This innovation is based on providing a even pressure on especially soft and delicate hose pipe by using pneumatic pressure clamp which having a bellows to pump the air into the clamp and this air pressure used to expand the inner flexible lining and provide a firm grip without damaging the hose pipe, also the pressure relief valve used to control and limit the clamping pressure which avoid excess pressure on clamping, thus using pneumatic pressure operated hose clamp one can make a hose fitting easy and quick.

DIAGRAM / SCHEMATIC –



1 : Metal Pipe, 2 : Hose Pipe, 3 : Pneumatic Clamp, 4 : Clamp Inner Lining, 5 : Bellows, 6 : Pressure Relief Valve

IPR APPLICATION / PATENT NO. – 201821049586



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-006

Offset Drilling Fixture for Drilling Hole on Inclined Surface of Any Object

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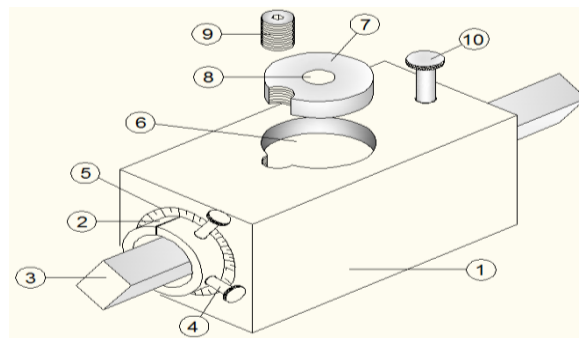
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ABSTRACT-

This innovation is based on providing a fixture with facility of rotating job work to any angular position on calibrated angular scale, without removing the job work, and also this fixture provide a means to guide and support a drill during drilling operation on inclined surface, which eliminate addition work of spot facing required on inclined surface of any object when drill approaching, and at the same time the collate provide a circumferential grip to give more firm and rigid holding of job work without any gripping marks or spoiling surface finish.

DIAGRAM / SCHEMATIC –



1 : Fixture, 2 : Collate, 3 : Job Work, 4 : Job Work Lock Screw, 5 : Angular Calibrated Scale, 6 : Recess For Drill Guide Sleeve, 7 : Drill Guide Sleeve, 8 : Drill Guide, 9 : Grub Screw, 10 : Collate Lock Screw

IPR APPLICATION / PATENT NO. – 201821049572



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-007

An Alteration in Ruler To Draw Parallel Line

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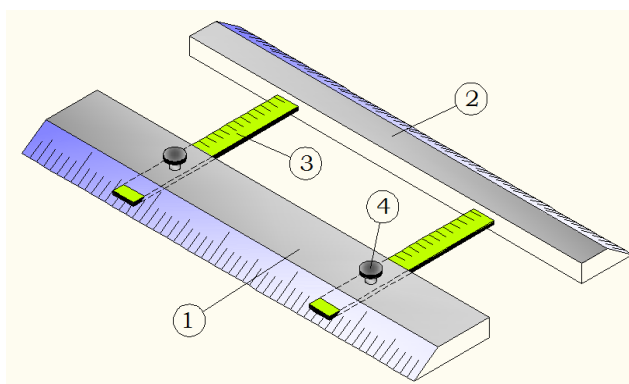
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ABSTRACT-

This innovation is based on providing a extensible parallel line ruler, in which one part of ruler matched with the parental line and the other part is extend out using calibrated extension arm to fix the offset distance, and using lock screw one can lock the offset distance during drawing parallel line using the other part of ruler, thus this innovation in alteration in ruler scale use to draw parallel line without error and get compact to carry easily.

DIAGRAM / SCHEMATIC –



1 : Main Ruler, 2 : Parallel Line Ruler, 3 : Extension Arm, 4 : Lock Screw

IPR APPLICATION / PATENT NO. – 201821049570



CIPCIIS 2019 : P-008

Generation of Electrical Energy Using Piezoelectric Cell on Bicycle Pedals

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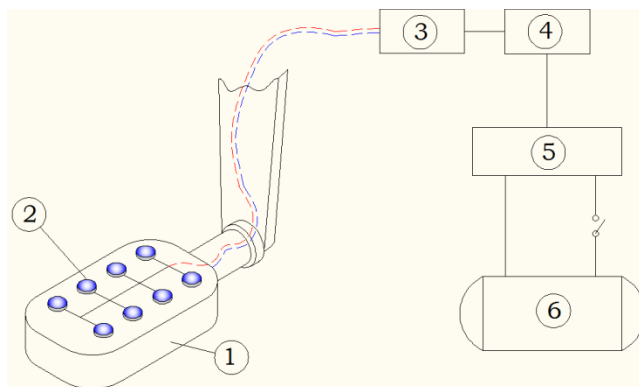
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ABSTRACT-

This innovation is based on providing a piezoelectric cell arrangement on the bicycle pedals so that when a rider applies force on the pedal to propel the bicycle the mechanical stresses applied on the piezoelectric cell generates the piezoelectric energy which then after rectifies and stored in a battery, these stored energy then after may be used for head lamp for illumination, operating radio or charging a mobiles etc., thus using no external power sources electrical / electronic devices can be operated by recovering riders mechanical force energy.

DIAGRAM / SCHEMATIC –



1 : Pedal, 2 : Piezoelectric Cell, 3 : Rectifier, 4 : Voltage Regulator, 5 : Battery, 6 : Electronics Devices

IPR APPLICATION / PATENT NO. – 201821049594



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-009

Alteration in Paper Punching Machine to Staple Simultaneously

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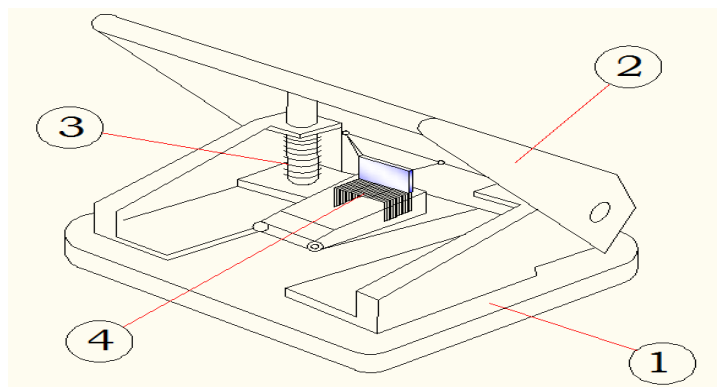
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ABSTRACT-

This innovation is based on providing a simultaneously punching and the stapling operation, in this a common handle is use to operate the punch for producing holes in the paper sheet and at the same time to operate the stapler to pierce the staple pin at the centre of the space between two punch holes, thus using this new and improve punching machine one can simultaneously punch and staple the paper to fastening together.

DIAGRAM / SCHEMATIC –



1 : Punching Machine, 2 : Handle, 3 : Punch, 4 : Stapler

IPR APPLICATION / PATENT NO. – 201821049567



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-010

Hand Held Stapler With Stapler Lock

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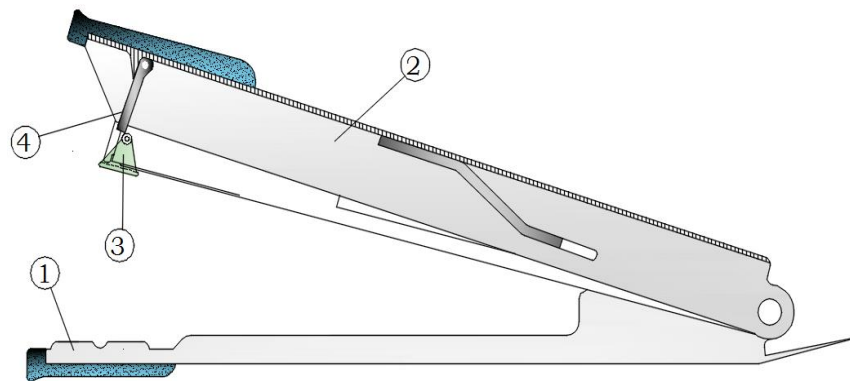
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ABSTRACT-

This invention is based on providing a hinged type stapler lock to the stapler which can be rotated to cover or uncover the stapler pin ejection port, in the regular stapler hammer is always in operative position which may cause ejection of staples pin unknowingly and result in injury, thus to safeguard it, the stapler lock is made hinged so that wherever not in used one can rotate the lock to the position which cover the stapler pin ejection port to block the staple pin from ejection so stapler become inoperative, which does not eject staples pin even if handle is pressed and when needed then stapler lock rotate at hinged to uncover the stapler pin ejection port so now the pressure applied on handle eject the staples pins for stapling the bunch of papers, thus the conventional hand held stapler is modified to make it operative or inoperative as needed to make it more safer when handled.

DIAGRAM / SCHEMATIC –



1 : Anvil, 2 : Handle, 3 : Lock, 4 : Hammer

IPR APPLICATION / PATENT NO. – 201821049606



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-011

Tire Wear out Warning Visual Indicator

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ABSTRACT-

This innovation is based on providing a color layer in the tire at a certain depth of the tire grooves beyond which if wear is exceed then tire does not provide the sufficient grip on road and get skidded and also there is a power loss because of less in traction, the system only visually indicate the time for replacement of tire when wear is exceed the certain limit, the system may incorporate the different color layer at different depth of tire grooves to show the severity of the tire wear and intern the tire life.

DIAGRAM / SCHEMATIC –



1 : Tire Bead, 2 : Tire Inner Liner, 3 : Tire Tread, 4 : Color layer in Tire, 5 : Tire Belts, 6 : Tire Spies, 7 : Tire Grooves, 8 : Tire Shoulder, 9 : Tire Sidewall, 10 : Tire Body Plies

IPR APPLICATION / PATENT NO. – 201821049603



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-012

Centrifugal Force Operated Ceiling Fan Blade Cleaning Attachment

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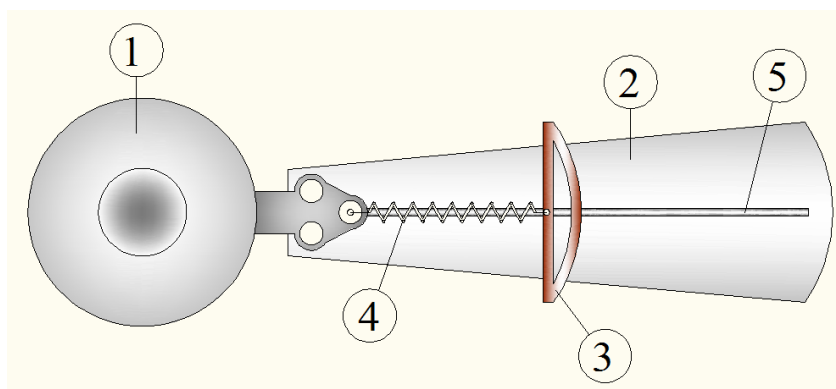
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ABSTRACT-

This innovation is based on providing an attachment for cleaning the ceiling fan blade automatically using the centrifugal force when fan is switch on and off, the attachment slides along the guide ways and during its motion it remove the dust, the slider get position according to the centrifugal force experience and when fan is switch off then retracting spring pull back it and position near the fan rotating hub, thus whenever ceiling fan switch on or off the slider moves along the blade and clean it each time, thus eliminate the accumulation of dust on the fan blade.

DIAGRAM / SCHEMATIC –



1 : Hub, 2 : Blade, 3 : Slider, 4 : Retracting Spring, 5 : Guide Ways

IPR APPLICATION / PATENT NO. – 201821049613



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-013

Automatic Bike Passing High And Low Beam Signal

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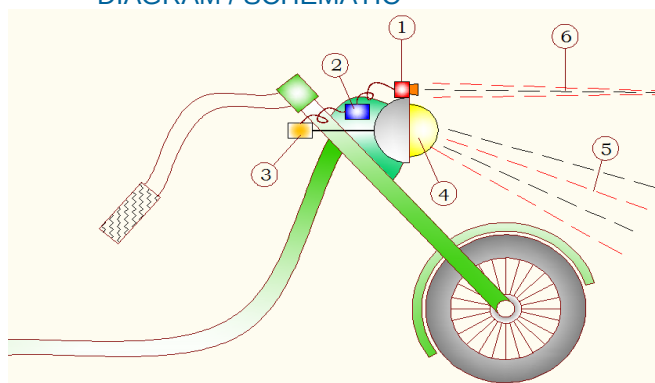
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ABSTRACT-

This innovation is related to provision of a mechanism to make automatic pass signal by shifting high beam to low beam by detecting opposite side vehicle head lamp illumination, in this system a light beam detector senses the opposite side vehicle illumination and accordingly the electronic control unit generate the signal to actuate the shifting mechanism from high beam to low beam automatically to give the pass signal to the opposite side vehicle at night riding, when the vehicle is pass then resume the high beam illumination automatically again, thus the night driving visibility is enhanced and eliminate the human interference to operate the knob of pass signal and high and low beam of bike for better driving experience.

DIAGRAM / SCHEMATIC –



1 : Light Beam Detector, 2 : ECU, 3 : Head Lamp Illumination Control Device, 4 : Head Lamp, 5 : Light Beams, 6 :
Opposed Vehicle Light Beams

IPR APPLICATION / PATENT NO. – 201821049611



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-014

Non-Newtonian Fluid Shoe Cushioning and Shock Absorbing

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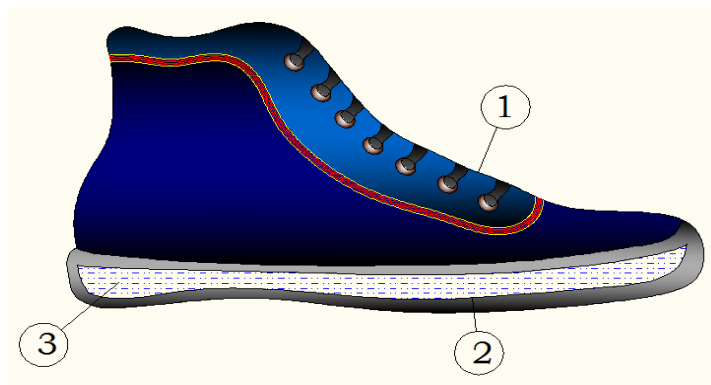
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ABSTRACT-

This invention is based on use of Non-Newtonian fluid in the shoe sole for the cushioning and shock absorption, specially Oobleck, which is a corn flour and water mixture, initially behaves like a liquid or a jelly, however, when gradual force is applied it behaves like a semi-solid material and absorbed shock by displace the fluid to other side in the pocket which enhance the comfort to the foot, but when sudden force is applied then non-Newtonian fluid become more denser and harder than semi-solid and absorbed the shock, thus the shoe with non-Newtonian fluid provides the good shock absorbing as well as enhance the comfort to the foot.

DIAGRAM / SCHEMATIC –



1 : Shoe, 2 : Cushioning Pocket, 3 : Non-Newtonian Fluid, 4 : Fluid Spread Out, 5 : Fluid Denser In

IPR APPLICATION / PATENT NO. – 201821049593



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-015

Ball Pen On / Off Using Fluid Pressure at Nozzle Body

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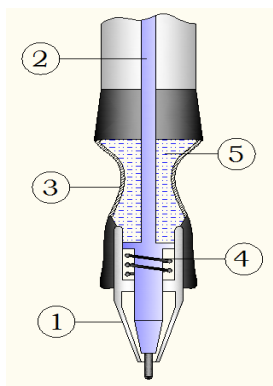
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³Students, Department of Mechanical Engg., PCCOER, Ravet, (MS) India

ABSTRACT-

This innovation is based on a system for on / off ball pen using fluid pressure at nozzle body, said system have flexible grip filled with incompressible fluid thus when it is hold the pressure is applied on the fluid which slide out refill from the pen nozzle against the retracting spring, and when pressure is removed the retracting spring kick back the refill inside the nozzle thus pen if off and thus pen refill tip protected from any damage and flexible grip provide fluid cushioning to finger and the said system thus provided better fluid grip and enhance writing comfort.

DIAGRAM / SCHEMATIC –



1 : Nozzle, 2 : Refill, 3 : Flexible Grip, 4 : Retracting Spring, 5 : Fluid

IPR APPLICATION / PATENT NO. – 201821049556



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-016

Mechanical Linkage Operated Mudguard Extension for Two Wheeler Motor Vehicle

**Nilima Baliram Gadge¹, Rahul Krishnaji Bawane², Himanshu Toshpal Mahajan³, Aniket Nagrale³,
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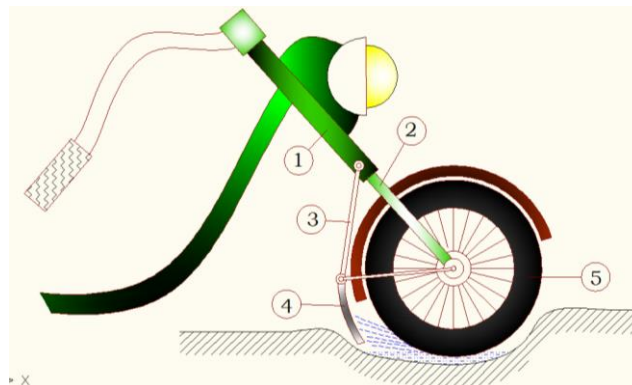
²Asst. Prof. Department of Mechanical Engg., PCCOER, Ravet, (MS) India, rahul.bawane@pccoer.in, 8806668536

³Students, Department of Mechanical Engg., PCCOER, Ravet, (MS) India

ABSTRACT-

This invention is based on a system for extensible extraction of guard in addition to convention mudguard to catch the splashes when wheel goes into dig, there is provided a linkage system attached to the extensible guard and its outward movement is depends on the inward movement of telescopic shock absorber, as the wheels pass through any dig, for absorbing shock the telescopic absorber piston rod moves inward, this movement pushes extensible guard outward and extend the length of mudguard and collect splashes from wheel, on normal condition linkages keep this extensible guard behind the main mudguard so that additional drag force is avoided.

DIAGRAM / SCHEMATIC –



1 : Cylindrical Barrel, 2 : Piston Rod, 3 : Linkage, 4 : Extensible Guard, 5 : Tire

IPR APPLICATION / PATENT NO. – 201821049590



CIPCIS 2019 : P-017

Pen to Push Out and Pull In Refill Automatically When Gripped and Un-Gripped Using Fluid Gripper

Rahul Krishnaji Bawane¹, Nilima Baliram Gadge²

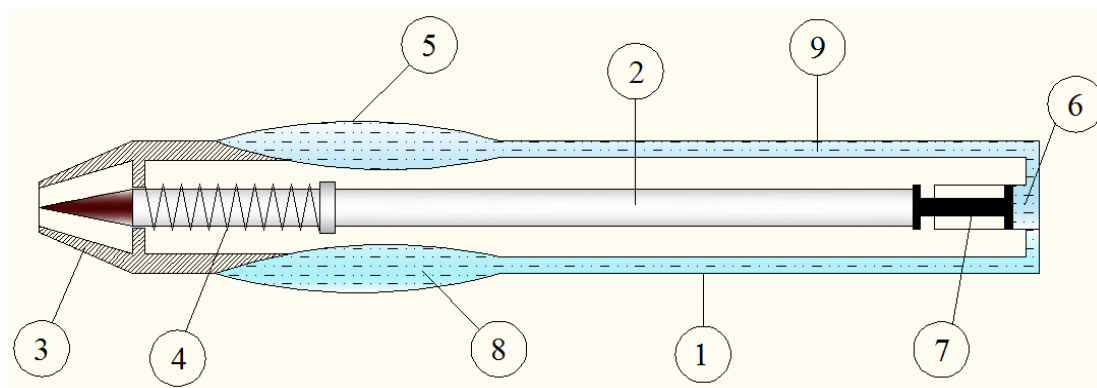
¹Asst. Prof. Department of Mechanical Engg., PCCOER, Ravet, (MS) India, rahul.bawane@pccoer.in, 8806668536

²Asst. Prof. Department of Automobile Engg., NCER, TalegaonDabhade, (MS) India, nilimagadge80@gmail.com, 7558545385

ABSTRACT-

A system for automatic push out and pull in of refill using fluid pressure when gripped and un-gripped the pen, and also provide more deeper fluid cushioning to enhance the comfort at grip, the have flexible gripping area filled with incompressible fluid, when it is gripped it provide fluid cushioning to finger and also increase the fluid pressure according to grip force, the fluid channel transmitted this increased fluid pressure to plunger arrangement, which push out the plunger, in turn pushes the refill against spring and bring out the tip from pen nozzle, the excess fluid pressure generate back pressure at gripping area which provide better grip and cushioning to enhance writing comfort, when un-gripped, the spring expand and depressurized fluid system and push back plunger and refill, thus pen tip is pull in the nozzle, the said system thus protect pen tip from damage due to fallen down, also provided better fluid grip.

DIAGRAM / SCHEMATIC –



1 : Pen Casing, 2 : Refill, 3 : Pen Nozzle, 4 : Retracting Spring, 5 : Flexible Fluid Gripper, 6 : Plunger Arrangement, 7 : Plunger, 8 : Incompressible Fluid, 9 : Fluid Channel

IPR APPLICATION / PATENT NO. – 201621025803



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-018

Motorcycle Helmet Having Sliding Chin-Guard with Helmet Locking To Mirror Rod

Dinesh Krishnaji Bawane¹, Rahul Krishnaji Bawane², Nilima Baliram Gadge³

¹Asst. Prof. Department of Automobile Engg., Govt. Polytechnic, Washim, (MS) India, dinesh.bawane@gmail.com, 7709060934

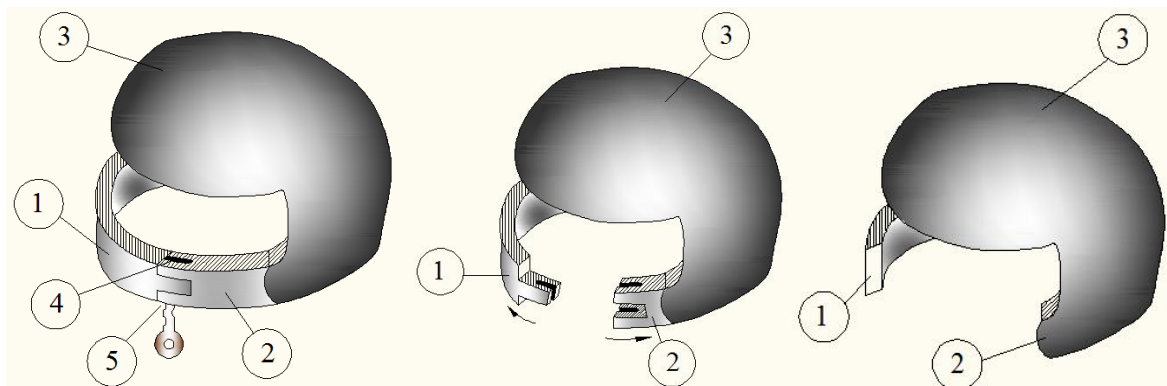
²Asst. Prof. Department of Mechanical Engg., PCCOER, Ravet, (MS) India, rahul.bawane@pccoer.in, 8806668536

³Asst. Prof. Department of Automobile Engg., NCER, Talegaon Dabhade, (MS) India, nilimagadge80@gmail.com, 7558545385

ABSTRACT-

A helmet provided with a sliding mechanism to the split chin guard, which when slide out from helmet shell, matched and interlocked together, the arrangement make it a full face helmet, and the said mechanism of chin guard is when unlocked then chin guard can slide and push into the helmet shell and the arrangement make it a open face helmet, the matching part of two chin guard having provision of recess to accommodate the mirror rod during interlocking, the locking arrangement with key lock chin guard together with the mirror rod accommodated centrally which secured helmet from being stolen.

DIAGRAM / SCHEMATIC –



1 : Right Side Chin Guard, 2 : Left Side Chin Guard, 3 : Helmet, 4 : Mirror Rod Accommodating Recess, 5 : Key with Interlocking of Chin Guard

IPR APPLICATION / PATENT NO. – 201621026956



CIPCIS 2019 : P-019

Pressurized Ink Ball Pen Refill Employing Magnetic Repulsion Force

**Dinesh Krishnaji Bawane¹, Nilima Baliram Gadge², Rahul Krishnaji Bawane³,
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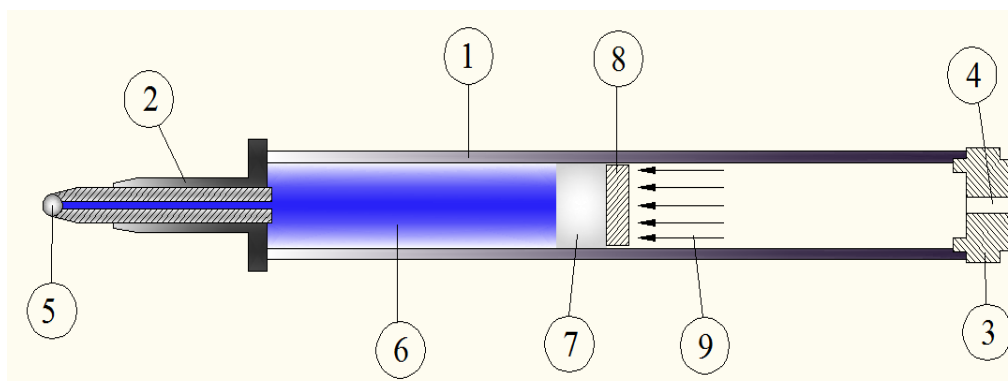
²Asst. Prof. Department of Automobile Engg., NCER, TalegaonDabhade, (MS) India, nilimagadge80@gmail.com, 7558545385

³Asst. Prof. Department of Mechanical Engg., PCCOER, Ravet, (MS) India

ABSTRACT-

A ball pen refill casing is a cylindrical barrel which have provision to fix the end cap fixed magnet at rear end and pen nozzle at front end, nozzle can be detaching from refill casing and it accommodating writing tip with roller ball and having internal drilled passage to supply ink to tip roller ball, the pen refill casing accommodating writing ink followed by heavy fluid in it, sliding magnet which rested against heavy fluid maintain continuous pressure on writing ink due to repulsive magnetic forces as end cap fixed magnet and sliding magnet have the similar poles facing each other.

DIAGRAM / SCHEMATIC –



1 : Casing, 2 : Nozzle, 3 : End Cap Fixed Magnet, 4 : Air Vent, 5 : Tip Rolling Ball, 6 : Writing Ink, 7 : Heavy Fluid, 8 : Sliding Magnet, 9 : Repulsive Magnetic Force

IPR APPLICATION / PATENT NO. – 201621029856



CIPCIS 2019 : P-020

Vacuum Water Evaporation And Humidification Air Cooling System For Car In Dry & Hot Climate

Dinesh Krishnaji Bawane¹, Rahul Krishnaji Bawane², Nilima Baliram Gadge³

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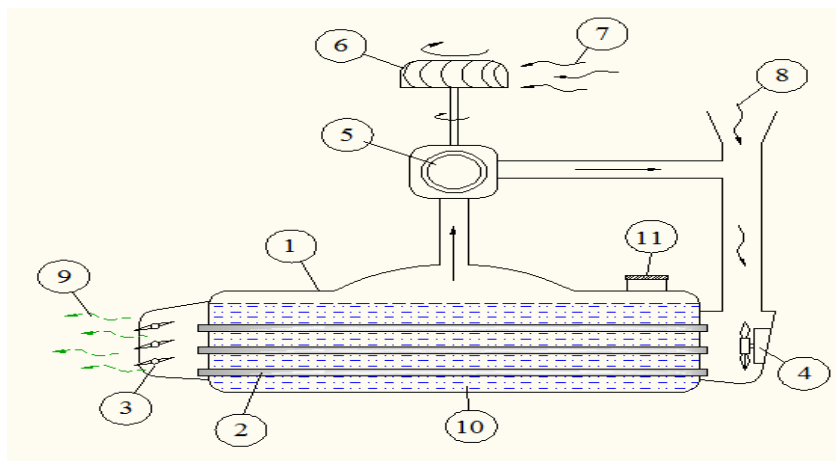
²Asst. Prof. Department of Mechanical Engg., PCCOER, Ravet, (MS) India, rahul.bawane@pccoer.in, 8806668536

³Asst. Prof. Department of Automobile Engg., NCER, TalegaonDabhade, (MS) India, nilimagadge80@gmail.com, 7558545385

ABSTRACT-

Air cooler for car which uses energy of wind flow when car is in motion, the cooler is operated on the vacuum water evaporation air cooling system. The evaporation of water is carried out by decreasing pressure in below the water vapor with the help of vacuum pump, it is driven by the wind turbine, the vacuum pump extracted the water vapors are mixed to the incoming air steam thus it get humidified and when the temperature of air is reduced to the level of cooling effect, the said cooled air flow is supplied to car cabin.

DIAGRAM / SCHEMATIC –



1 : Evaporating Vessel, 2 : Copper Tube, 3 : Baffles, 4 : Fan With Motor, 5 : Vacuum Pump, 6 : Wind Turbine, 7 : Wind Flow, 8 : Cooling Air, 9 : Cooled And Humidified Air, 10 : Water, 11 : Water Level Top-Up Cock

IPR APPLICATION / PATENT NO. – 201721009979



CIPCIS 2019 : P-021

A sensing device to auto switch-off The powered domestic water purifier

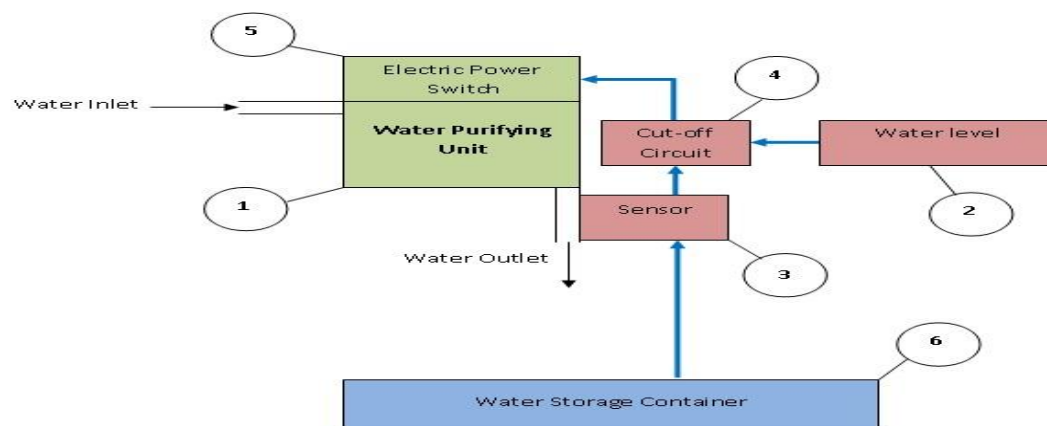
Vaishali Prasad Latke

Asst. Prof. Department of Computer Engg. PCCOER, Ravet, (MS) India, vaishali.latke@pccoer.in, 8669492686

ABSTRACT-

Powered water purifier is an every household commodity today. However the switching on and off of the unit is entirely a manual operation. Particularly, the switching off requires supervision and timely action, otherwise it may lead to overflowing of water container, loss of valuable purified water and electricity, not to mention, wetting and spoiling of objects around the container. The idea proposed herein is to stop the loss of water and power, to avoid the anxiety and time-loss in supervision, while the container is being filled with water coming out of the outlet of domestic water purifier. It is possible to develop a simple auto switch-off mechanism, which will sense the water level in the container and once the pre-set level in the container is reached, will cut off the electric current, thereby automatically stopping the flow of water through purifier's outlet, at the same time, sounding an alarm to warn the user that the process is over. The mechanism will require assembly of an appropriate sensing device, a pre-set unit to specify desired highest water level in the container, connectivity to the power switch on the purifier unit and to an alarm and the necessary electronic circuit to control the auto switch-off operation, on receiving the signal from sensor. The number of equipment involved is small, inexpensive, harmless, easily available in present scenario of advanced electronics and simple to assemble. The idea of auto switching off of the domestic water purifier at the desired level of water in storage container, thereby avoiding loss of water and electricity shall be welcomed by every user, particularly the conscientious housewives of our nation.

DIAGRAM/SCHEMATIC –





CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCI 2019)

CIPCI 2019 : P-022

Fuel Injection Assisted By Recirculation of Exhaust Gas and Dilution of Intake Charge

Nilima Baliram Gadge¹, Rahul Krishnaji Bawane², Jayashri V. Chopade²

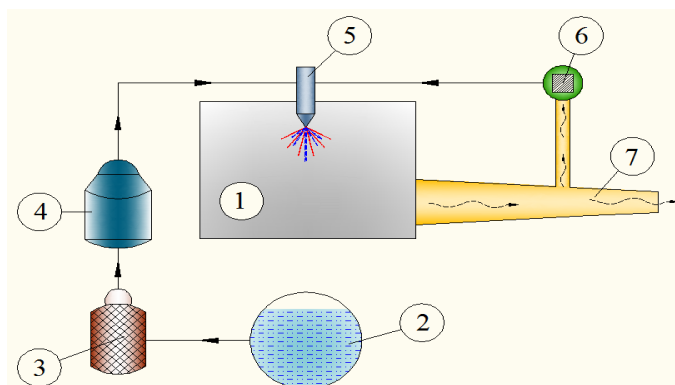
¹Asst. Prof. Department of Automobile Engg., NCER, TalegaonDabhade, (MS) India, nilimagadge80@gmail.com, 7558545385

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ABSTRACT-

The exhaust gas assisted injection system, in which a pilot stream of exhaust gas is re-circulate to injector where it mixes with the incoming high pressure fuel, the said system preheat the incoming fuel by heat of exhaust gas and help to improve the spray characteristics, thus the said system reduces the delay period and hence the tendency to knock is reduced, in the system when exhaust gas entered into the combustion chamber with fuel it dilute the intake charge, thus the said system help to reduce the overall temperature of the product of combustion which result in reduction in emission of oxides of nitrogen.

DIAGRAM / SCHEMATIC –



1 : Engine, 2 : Fuel Tank, 3 : Fuel Filter, 4 : Fuel Pump, 5 : Fuel Injector,
6 : Exhaust Gas Recirculation System, 7 : Exhaust Gas Main Stream

IPR APPLICATION / PATENT NO. – 201821012914



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIIS 2019)

CIPCIIS 2019 : P-023

Production of Plastic Pyro-Oil Using Waste Heat from Automobile Exhaust Gases

Rahul Krishnaji Bawane¹, Nilima Baliram Gadge²

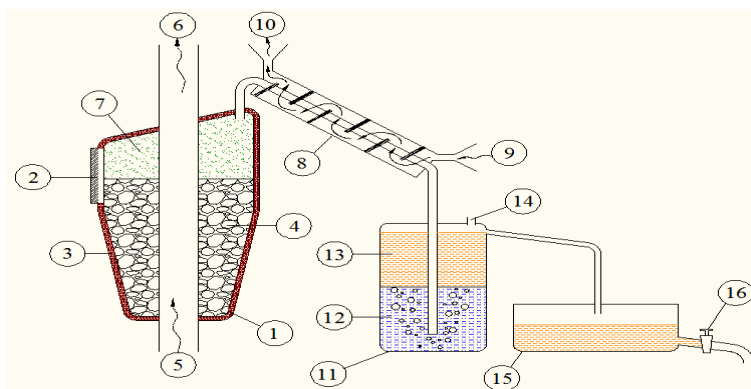
¹Asst. Prof. Department of Mechanical Engg., PCCOER, Ravet, (MS) India, rahul.bawane@pccoer.in, 8806668536

²Asst. Prof. Department of Automobile Engg., NCER, TalegaonDabhade, (MS) India, nilimagadge80@gmail.com, 7558545385

ABSTRACT-

A biodiesel production setup, which utilized a waste heat of automobile exhaust gases, to produce the biodiesel / alternative fuel from the plastic, this target three issues, viz, reducing thermal emission by heat recovery from exhaust gases, and using plastic for production of pyro-oil to tackle the severe problem of waste plastic management, and at the same time till date any automobile when run it consumed fuel from the fuel tank, and thus needed to top up by new purchase, but this invention, result in production of biodiesel / alternative fuel during the running of vehicle, thus on one side fuel get consumed and on other side other fuel get produced to top up fuel tank to some extent.

DIAGRAM / SCHEMATIC –



- 1 : Heating Chamber, 2 : Feeding Door, 3 : Thermal Insulation, 4 : Waste Plastic, 5 : Exhaust Gases Inlet,
6 : Exhaust Gases Outlet, 7 : Plastic Fumes, 8 : Condenser, 9 : Cooling Water Inlet, 10 : Cooling Water Outlet,
11 : Water Bath, 12 : Water, 13 : Plastic Pyro-Oil, 14 : Air Vent, 15 : Plastic Pyro-Oil Collector, 16 : Tap

IPR APPLICATION / PATENT NO. – 201821006521



CIPCIS 2019 : P-024

Speed Governing By Automatic Braking System for Automobiles

Nilima Baliram Gadge¹, Rahul Krishnaji Bawane², Priyanka R. Chavan², Rupali M. Patil²

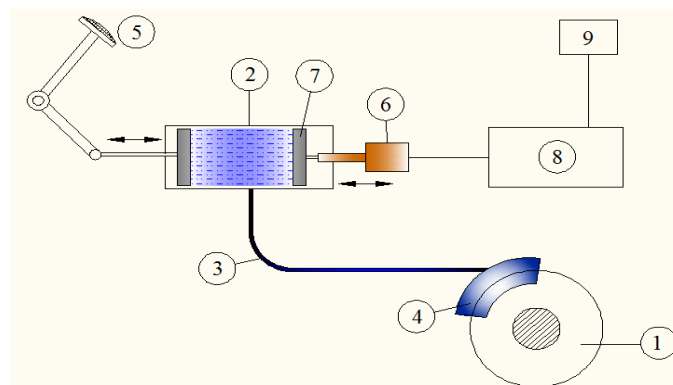
¹Asst. Prof. Department of Automobile Engg., NCER, TalegaonDabhade, (MS) India, nilimagadge80@gmail.com, 7558545385

²Asst. Prof. Department of Mechanical Engg., PCCOER, Ravet, (MS) India.

ABSTRACT-

Speed of automobile vehicle is limited within the maximum safe speed limit using the additional braking system incorporated in the main braking system, thus when vehicle speed is exceed the set limit of maximum safe speed then a sensor receive signal and the data is analyzed by computerized system and accordingly actual the solenoid valve which automatically applied the braking force by building up pressure in brake master cylinder, thus vehicle speed reduces, when speed is bring back to within the maximum safe speed then system de-activated solenoid and de-pressurized the brake system and braking force is removed, within set maximum safe speed the said system remain inactive and it does not interfere any kind of normal braking system.

DIAGRAM / SCHEMATIC –



1 : Brake Drum, 2 : Brake Master Cylinder, 3 : Brake Line, 4 : Brake Shoe Actuator,

5 : Brake Paddle, 6 : Solenoid Valve, 7 : Solenoid Valve Plunger, 8 : ECU, 9 : Speed Sensor

IPR APPLICATION / PATENT NO. – 201721032364



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-025

Voice Recognized Gear Shifting For Automobile

Nilima Baliram Gadge¹, Rahul Krishnaji Bawane², Sneha V. Pawade², Aniket D. Deshmukh²

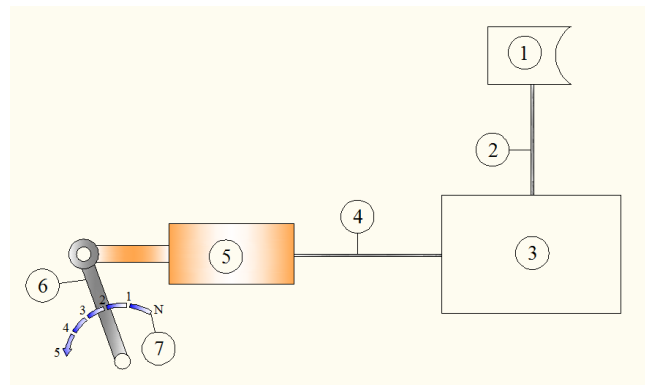
¹Asst. Prof. Department of Automobile Engg., NCER, TalegaonDabhade, (MS) India, nilimagadge80@gmail.com, 7558545385

²Asst. Prof. Department of Mechanical Engg., PCCOER, Ravet, (MS) India.

ABSTRACT-

An apparatus are disclosed for recognizing voice commands for generating control signals once the command is recognized, in accordance with this disclosure the audio signal is converted into a electrical signal, the electrical signal is operate the actuator accordingly and thus actuator operate the gear shifter to respective gear position, thus using voice command the gear and thus speed of vehicle can be changed accordingly, this eliminate any physical involvement and mind diversion in operating the knob / paddle.

DIAGRAM / SCHEMATIC –



1 : Microphone, 2 : Voice Signal, 3 : Voice Recognized System, 4 : Electrical Signal,

5 : Actuator, 6 : Gear Shifter, 7 : Gear Shifting Position

IPR APPLICATION / PATENT NO. – 201721038390



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-026

Standby Single Cylinder Engine Drive System for Car

Nilima Baliram Gadge¹, Rahul Krishnaji Bawane², Jayesh V. Bute², Jayashri V. Chopade²

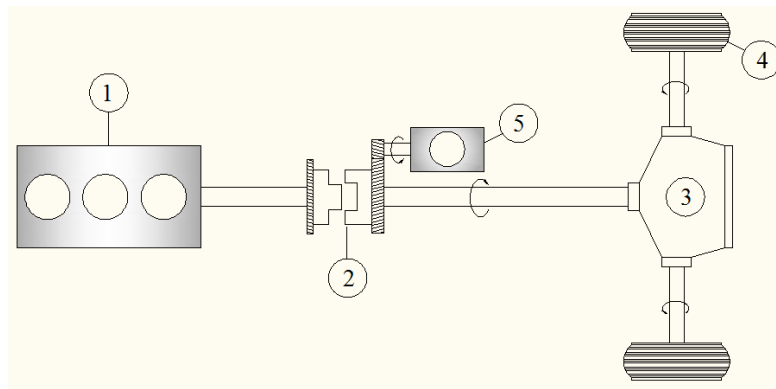
¹Asst. Prof. Department of Automobile Engg., NCER, TalegaonDabhade, (MS) India, nilimagadge80@gmail.com, 7558545385

²Asst. Prof. Department of Mechanical Engg., PCCOER, Ravet, (MS) India.

ABSTRACT-

The main internal combustion engine when fails and no source of repairing it nearby, then needed to push the vehicle or toe it to service station which is physically exhausting and time consuming activity, this is addressed by using a single cylinder standby internal combustion engine which remain idle during normal working and come to play if main engine fails, it is run to produce a power, which provide the torque to drive a vehicle to nearby service station without any physical exertion or toe service.

DIAGRAM / SCHEMATIC –



1 : Main Engine, 2 : Gear Box, 3 : Differential, 4 : Wheel,

5 : Single Cylinder Standby Engine

IPR APPLICATION / PATENT NO. – 201721040061



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCI 2019)

CIPCI 2019 : P-027

Fuel Heating Before Injector Using Exhaust Gas for Diesel Engine

Rahul Krishnaji Bawane¹, Nilima Baliram Gadge²

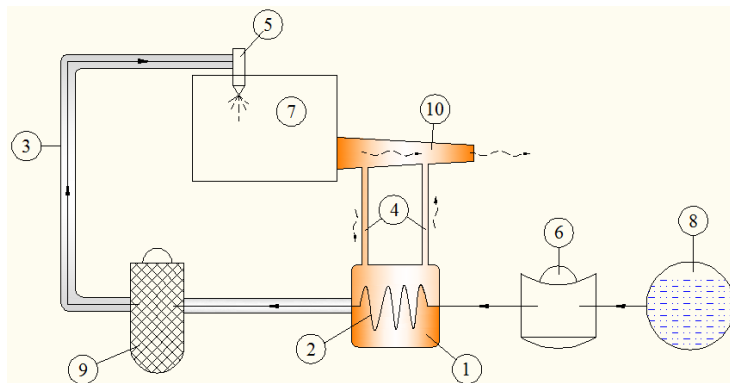
¹Asst. Prof. Department of Mechanical Engg., PCCOER, Ravet, (MS) India, rahul.bawane@pccoer.in, 8806668536

²Asst. Prof. Department of Automobile Engg., NCER, TalegaonDabhade, (MS) India, nilimagadge80@gmail.com, 7558545385

ABSTRACT-

A system for preheating diesel fuel before being introduced into a combustion chamber of an internal combustion engine, particularly during passing of the fuel through a fuel line, the system includes a heating chamber and a hot exhaust gas system, where the heat is exchanged from hot exhaust gases to diesel fuel through a coil type tube in heating chamber. This preheated diesel fuel improve the spray quality and combustion characteristic and minimizes the residual emitted to atmosphere and clogging of fuel filter in cold weather.

DIAGRAM / SCHEMATIC –



1 : Heating Chamber, 2 : Coil Type Fuel Line, 3 : Thermal Insulation, 4 : Exhaust Gas System,
5 : Fuel Injector, 6 : Fuel Pump, 7 : Engine

IPR APPLICATION / PATENT NO. – 201721032362



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-028

Automatic Mobile Flight Mode System For Vehicle Driver

Nilima Baliram Gadge¹, Jagdish Jain Palve², Ganesh Balu Jawalkar², Sunil Sahadu Yewale²

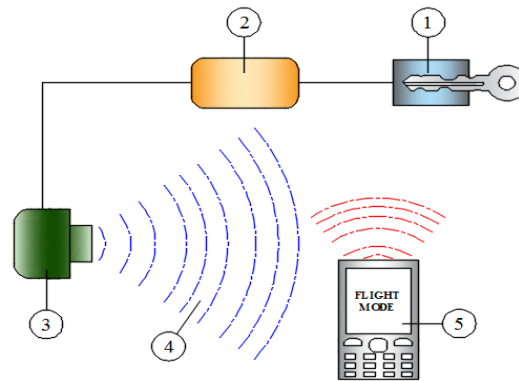
¹Asst. Prof. Department of Automobile Engg., NCER, TalegaonDabhade, (MS) India, nilimagadge80@gmail.com, 7558545385

²Department of Mechanical Engg., PCCOER, Ravet, (MS) India.

ABSTRACT-

This innovation is based on automatic shift over to flight mode whenever ignition switch is ON to drive a vehicle by using the control unit and wireless signal transmitter, these signal catches by mobile and according to programmed it automatically shift to flight mode, and when the ignition switch is OFF the respective signals are send to mobile and it shift back to its original mode, thus during driving mobile shift over to flight mode to avoid call during driving which result in reduction in road accidents.

DIAGRAM / SCHEMATIC –



1 : Ignition Switch, 2 : Control Unit, 3 : Transmitter, 4 : Wireless Signal, 5 : Mobile

IPR APPLICATION / PATENT NO. – 201821023309



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-029

Non-Newtonian Fluid Mobile Casing Absorbing Impact Shock and Providing Fluid Cushioning Grip

Nilima Baliram Gadge², Jagdish J Palve², Ganesh B Jawalkar², Bhagyashree A Bhosale², Ganesh N. Garade², Sandeep H Mhaske², Sunil S Yewale², Jitendra N Nawale²

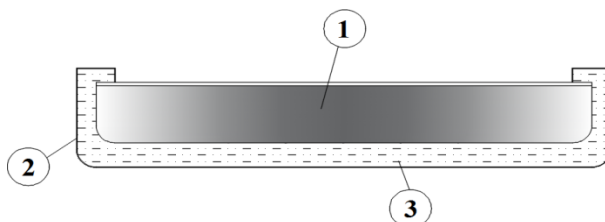
¹Asst. Prof. Department of Automobile Engg., NCER, TalegaonDabhade, (MS) India, nilimagadge80@gmail.com, 7558545385

²Department of Mechanical Engg., PCCOER, Ravet, (MS) India.

ABSTRACT-

When mobiles fallen down due to impact its cases broken and or damages. Also all types of cases many made for protecting mobiles from scratches but unable to absorb the impact shock, this invention is based on use of Non-Newtonian fluid in mobile cases, specially Oobleck, which is a cornflour and water mixture, initially behaves like a liquid or a jelly, however, when force is applied it behaves like a solid for a short time, thus mobile will protected from any shock impact, if force is slowly applied then it like a liquid or jelly which provide a cushioning fluid grip.

DIAGRAM / SCHEMATIC –



1 : Mobile Handset, 2 : Flexible Cover Case, 3 : Non-Newtonian Fluid

IPR APPLICATION / PATENT NO. – 201721025740



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-030

5-Cylinder Tw0-Stroke Radial Turbo- Charged Gasoline Engine for Helicopter and the Like

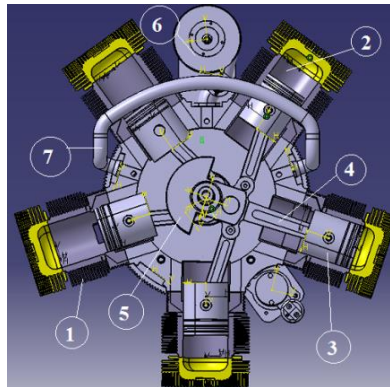
Pradip Shivaji Mohite¹, Sandeep Raghunathrao Mohitepatil¹

¹At. Post – Wangi, Tal. - Kadegaon, Dist. - Sangli, – 415305, Maharashtra, India

ABSTRACT-

This innovation is based on providing a light weight 5-cylinder two stroke gasoline radial engine for the helicopter and the like applications, the said engine consist of a master connecting rod whose big end is modified to accommodate other four connecting rod, where the power to weight ratio is enhanced by providing turbo-charging to the gasoline engine, which is positive displacement pump which draws charge (mixture of gasoline and air) from carburetor and supplies at higher density to the engine cylinder through crankcase, the said radial gasoline engine in pair is provided which are use to propel the helicopter and lift and fly, there are provision such as on failure of any one other will take care of the helicopter flight.

DIAGRAM / SCHEMATIC –



1 : Cylinder Block, 2 : Cylinder, 3 : Piston, 4 : Master Connecting Rod, 5 : Crankshaft, 6 : Turbo-Charger,
7 : Charge Inlet, 8 : Cooling Fan

IPR APPLICATION / PATENT NO. – 201921038631



CIPCIS 2019 : P-031

Detection of Crop Diseases Using Image Processing & Atmospheric Condition and Suggesting Remedy

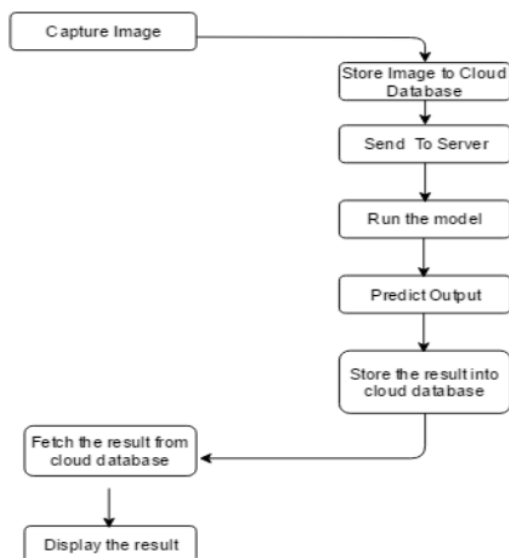
Pradnya Vitthal Dhende¹, Rachana Raju Patil¹, Kirti Bhaskarrao Deshmukh¹, Nagini Mallikarjun Kangle¹, Bashirahamad Fardin Momin¹, Medha Abhijeet Shah¹

¹ Walchand College of Engineering, Sangli. Vishrambag, SANGLI-416415 (M.S.), India

ABSTRACT-

This invention is based on the process to detect the crop disease at early stage to take correction action using image processing technique, the said process wherein the crop disease detection system with the help of cloud database and server interaction for result analysis and providing corresponding disease information with nearby Krushi Centers, for the said process, the input is captured image, all atmospheric conditions and this information is then stored to cloud database and used for computation and processing at server side and then predicted results are send to database for future analysis and result also send to user with detailed description as reasons, defects caused by corresponding disease and nearby agriculture centers for further prevention, thus the process can easily detect the crop disease and identify the remedies and can plan respective correction action.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 201921038636



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-032

Alteration in Bike Helmet for Better Audibility During Riding By Providing Air Breath Sliding Windows

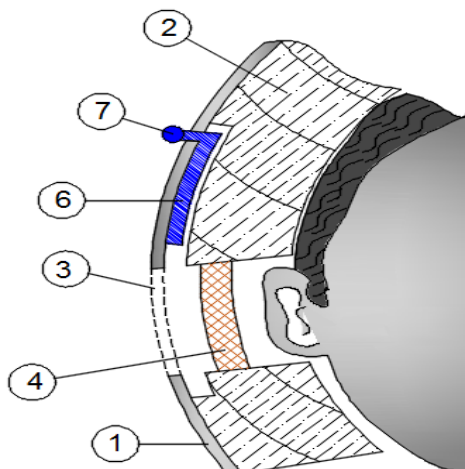
**Dhanaji Raghunath Jadhav¹, Anjani Dhanaji Jadhav¹, Anant Balaso Khandkole¹,
Rushikesh Shirish Pande¹, Sandip Anandrao Shewale¹**

¹Nutan Maharashtra Vidya Polytechnic, Mechanical Department, Talegaon Dabhade, Pune, 410507, Maharashtra, India

ABSTRACT-

This innovation is based on providing a sliding windows in bike helmet for rider's ears to enhance the audibility of rider and at the same time windows are provided with detachable air filter for clean air breathing of helmet for more comfort and also provide a space for ear to get accommodate in to the window pocket so that it remain un-pressed and naturally open.

DIAGRAM / SCHEMATIC –



1 : Helmet Outer Shell, 2 : Cushioning of Helmet, 3 : Window, 4 : Air Filter, 5 : Helmet

IPR APPLICATION / PATENT NO. – 201821004386



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-033

An Automatic Potato Sowing Mechanism

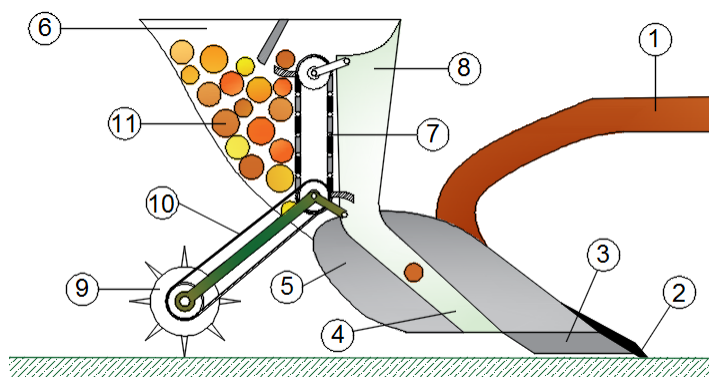
Rushikesh Shivaji Gambhire¹, Shivaji Santram Gambhire¹

¹Computer Department, Alard College of Engineering, Marunji, Hinjewadi, Pune, 411057, Maharashtra, India.

ABSTRACT-

This innovation is based on an automatic sowing mechanism for potato, which is otherwise a lots of effort and time consuming task, the said mechanism consist of a conveyer which pickup a potato seedlings and drop to sowing hopper which then pass through the channel and sow into the dig made by the preceding plough, the sowing distance between two, can be adjusted by the various pulley combination in belt drive system and also by using different number of picker troughs on conveyer, thus the potato are sowed at the equal depth and hence increase the productivity at minimum human effort and in less time.

DIAGRAM / SCHEMATIC –



1 : Beam, 2 ; Chisel, 3 : Share, 4 : Sowing Hopper Channel, 5 : Mouldboard, 6 : Feeder, 7 : Conveyer, 8 : Sowing Hopper, 9 : Sowing Speed Control Wheel, 10 : Belt Drive, 11 : Potato

IPR APPLICATION / PATENT NO. – 201821012927



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-034

Alteration in Heating System by Using Additional Submerged Coil Hot Air Heating System

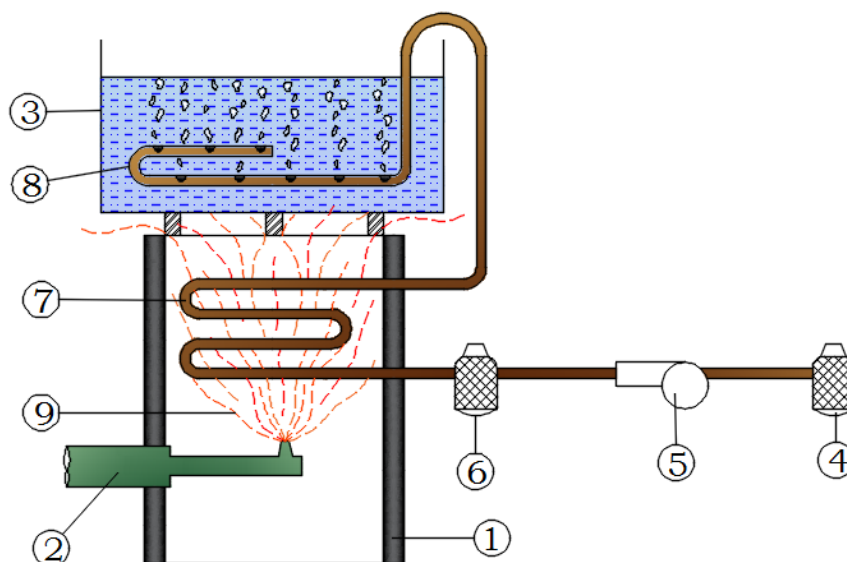
RanjanaUddharao Dhote¹, AmolUddharaoDhote¹

¹G2-111, Indra Park, Near Police Station, Chinchwadgaon, Pune, (MS) India.

ABSTRACT-

This innovation is based on providing an additional submerged coil hot air heating system, which utilized heat from hot flue gases, and heat up incoming clean air, the said hot air is then supplied to submerged type hot air delivery coil which delivered heat directly to the substance and the during its extraction it produces turbulence which enhances the spreading of heat throughout the substance, this reduces the net heat requirement as well as the waiting time period for heating.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 201821012925



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-035

Illumination Sensing System to Give Automatic Passing Indication to Opposite Vehicle Head Lamps

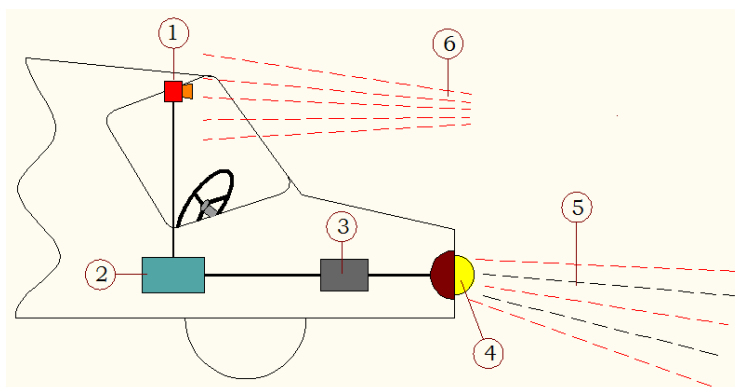
**Sandeep Prakash Patil¹, Sayali Nitin Mane¹, Nitin Vishwasrao Mane¹, Yuvraj Ramrao Patil¹,
Jyoti Jagannath Jadhav¹**

¹Flat No. 604, Devrai Phase-2, Sr. No. 82/P, Near Bapdev Chowk, Kiwale, Tal.- Haveli, Pune – 412101, Maharashtra, India.

ABSTRACT-

This innovation is based on providing an automatic shifting high beam to low beam and vice versa for automobile head lamps using opposed vehicle illumination sensing, this can improve visual identifiability of vehicle at dim dusk, this system consist of the illumination detector sensor and electronic control unit which record and analyze the illumination of opposed vehicle and corresponding actuation signal is generate and send to lighting control unit which shift over the high beam to low beam of the vehicle head lamp automatically, thus the night driving road visibility is improve and human interfere for giving pass or manual changing high beam to low beam is eliminated for better driving experience.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 201821039900



CIPCIS 2019 : P-036

Self Adjusting Traffic Signal Timing By Monitoring Traffic Flow

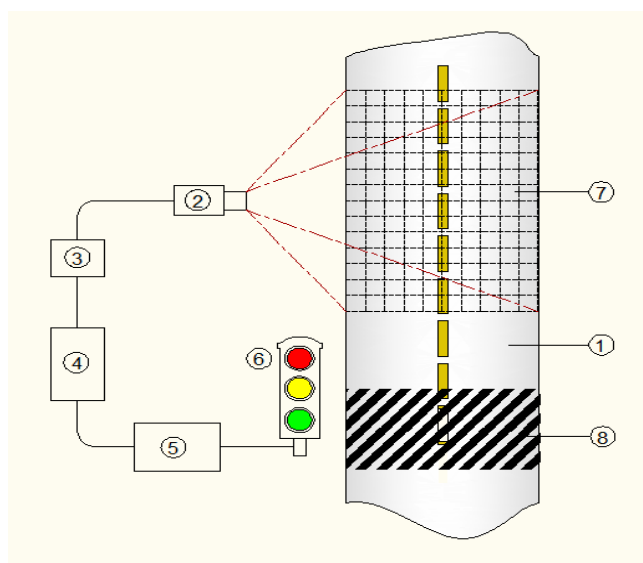
Sangita Sanjay Mane¹

¹Hill Top Recidency, P-4/201, Behind Akurdi Railway Station, Ravet, Pune, PIN-412101, Maharashtra, India..

ABSTRACT-

This innovation is based on providing traffic flow monitoring system which capture the live video of the segment of roadway, and the information is supplied to vision processor in the form of analog data, this data then processed and convert to digital signal and then with the help of electronic control unit, the data is analyzed and traffic signal time interval is varied according to the traffic flow and thus traffic signal operated for this new time interval which may change as the traffic flow changes, hence by allowing more time to relieved the traffic in heavy traffic flow direction and reducing time on low traffic flow direction, this system minimizes the traffic jams.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 201821004395



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-037

Inbuilt Lifting and Caterpillar Tracks Drive for to Pull out Vehicle When Wheel is Sink into Soil

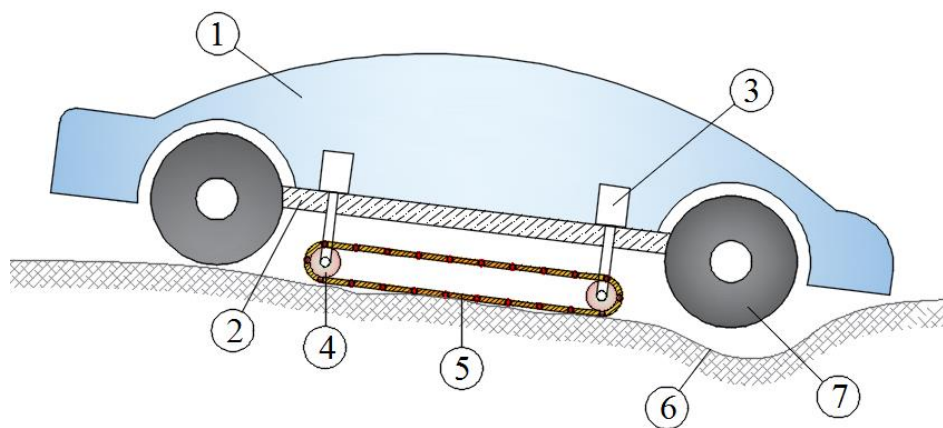
Sarthak Gajendra Kshirsagar¹, Varun Pramod Katkar¹

¹Flat No. 3, Plot No. 103, Krushnai Apartment, Rao Colony, Talegaon Dabhade, Pune, 410507, Maharashtra, India

ABSTRACT-

This innovation is based on providing an alternative drive system in terms of caterpillar track which is used to move the vehicle when the main drive system is not functioning, most commonly when drive on soft soil like desert and also a lifting inbuilt system which lift the vehicle if the wheel is sink into the soil or using caterpillar drive system, thus the sink wheel is lifted up using pneumatic telescopic cylinder and then using caterpillar drive it is pull out from the dig or sink.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 201821012926



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-038

Vehicle Tire Wear Out Engraved Studs Indicator

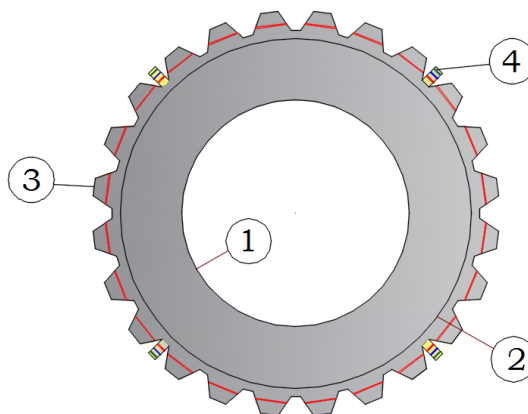
**Sayali Nitin Mane, Jyoti Jagannath Jadhav, Nitin Vishwasrao Mane,
Sandeep Prakash Patil, Yuvraj Ramrao Patil**

¹E-601, Runals Royal Casa, Near Bank of Maharashtra, Ravet, Tal.- Haveli, Pune – 412101, Maharashtra, India.

ABSTRACT-

This innovation is based on providing a color layer in the tire at a certain depth of the tire grooves beyond which if wear is exceed then tire does not provide the sufficient grip on road and get skidded and also there is a power loss because of less in traction, the system only visually indicate the time for replacement of tire or remolding for new traction when wear is exceed the certain limit, the system may incorporate the different color layer at different depth of tire grooves to show the severity of the tire wear and intern the tire life.

DIAGRAM / SCHEMATIC –



1 : Tire Bead, 2 : Tire Inner Liner, 3 : Tire Tread, 4 : Engrave Studs

IPR APPLICATION / PATENT NO. – 201821049528



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-039

Magneto-Rheological Strut for Light Commercial Vehicle

Rahul Nagnath Yerrawar, Rachayya Rudramuni Arakerimath

Flat No. 404, Opulence, Behind Premia Society, Narhe Dhayari Road, Narhe,
Pune PIN 411041, Maharashtra, India.

ABSTRACT-

The use of suspension system is to enhance ride comfort and road holding which are conflicting with each other, these two characteristics compromise each other for comfort as well as good handling, the magneto-rheological damper is assembly of cylinder, piston wound with copper winding, piston rod with through hole, the said piston though piston rod is connected to sprung mass whereas cylinder end is connected to unsprung mass of vehicle, the said magneto-rheological fluid is filled between the piston and cylinder, the said magneto-rheological fluid changes its viscosity as per magneto-rheological properties of fluid, as the intensity of magnetic field whose intensity is control by the current in damper thus the fluid resistant to flow absorb the shock applied by the road bumps to unsprung mass is damp by damper.

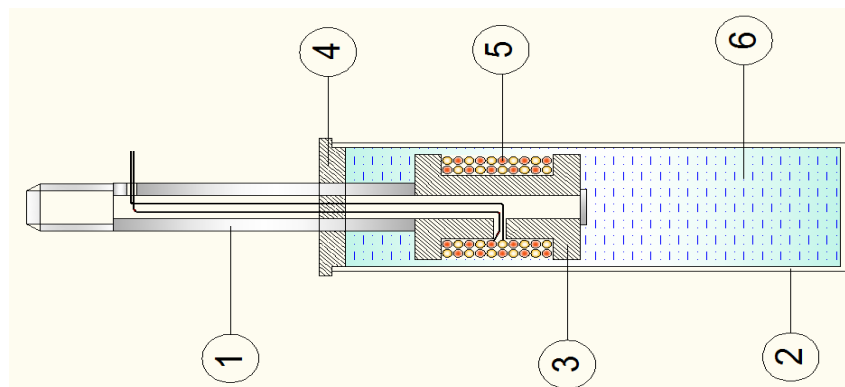


DIAGRAM / SCHEMATIC –

IPR APPLICATION / PATENT NO. – 201821006522



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-040

Automatic Opening and Closing of Two Wheeler Foot Rest Controlled By Ignition Switch On/Off Position

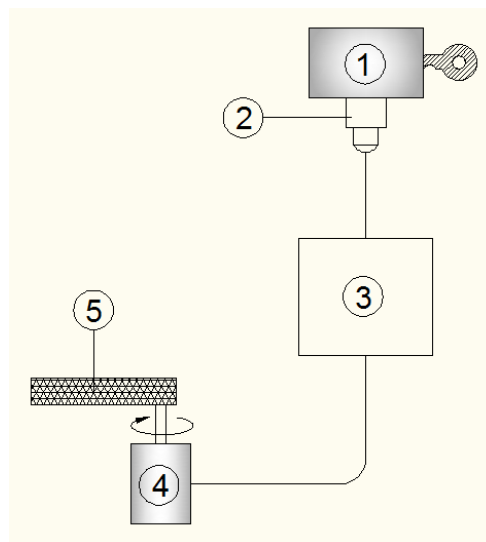
**Amol Subhash Khursule, Mayur Vijay Shinde, Somnath Gulab Jambhulkar,
Prasanna Ankush Ghojage**

430 Shukrawar Peth, Dabhade Aali, Talegaon Dabhade, Tal.- Maval, Dist. – Pune, PIN - 410507, Maharashtra, India.

ABSTRACT-

This innovation is based on providing a system which senses the position of the key in the ignition switch by using the proximity sensor and thus a signal send to programmed power supply base which send the corresponding electrical pulse to the DC motor, the said DC motor then convert the electrical pulse into mechanical work in terms of rotation of shaft in particular direction which moves foot rest in outward direction and thus foot rest open to rest the riders foot, when DC motor received opposite programmed electrical pulse then it rotates in opposite direction and move the foot rest inward to closing position, thus this system provide automatic opening and closing of foot rest of two wheeler by sensing the ignition ON / OFF position.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 201821004392



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-041

Enclosure Barrel Casing for Household Broom

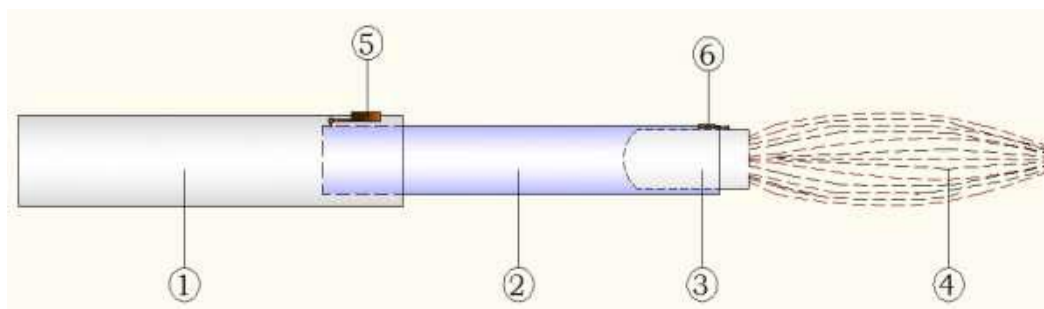
Shubham Jagannath Jadhav, Jyoti Jagannath Jadhav

Flat No. 604, Devrai Phase-2, Sr. No. 82/P, Near Bapdev Chowk, Kiwale, Tal.- Haveli, Pune – 412101, Maharashtra, India

ABSTRACT-

This innovation is based on providing a sliding type enclosure in which when broom slides out then uncover the broom fibers and broom is ready to sweep the floor, but when broom slides into the enclosure then it encloses broom fibers completely into it which protect it from any damage or bending due to long time storage against it, also this enclosure prevent the housefly to get attracted to the broom fibers is dirt is stick to it if any, thus this type of enclosure used to enhance the life of the broom during operation, and long time storage as well as during transportation, at the same time when broom enclosure operates through its telescopic enclosure arrangement then the length of broom extends to the extend so that it can be used for cleaning the ceiling, which make it multi-purposed household broom.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 201821035557



CIPCIS 2019 : P-042

Fixed Amount Dispenser for Deformable Tube Packed Semi-solid Material

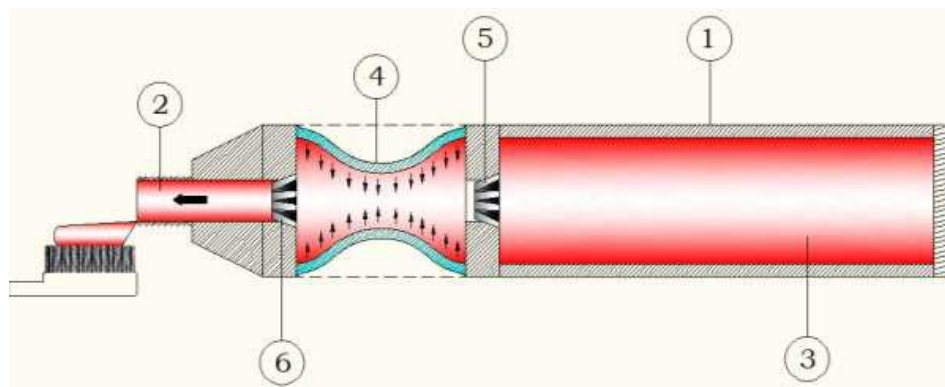
Sayali Nitin Mane, Nitin Vishwasrao Mane

Flat No. 604, Devrai Phase-2, Sr. No. 82/P, Near Bapdev Chowk, Kiwale, Tal.- Haveli, Pune – 412101, Maharashtra, India

ABSTRACT-

This innovation is based on providing fixed amount toothpaste dispenser using flexible squeezer and one way valve, when the pressure applied at squeezer it pushes out toothpaste to nozzle through one way valve at nozzle and when the pressure removed from squeezer, due to its elastic nature it regain its original volume and shape causes negative pressure at squeezer result in suction of toothpaste from tube through one way valve at tube, thus each time when squeezer experience pressure it dispenses the same amount of toothpaste.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 201921003632



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-043

Helicopter Pilot Flight Training Simulation Mechanism

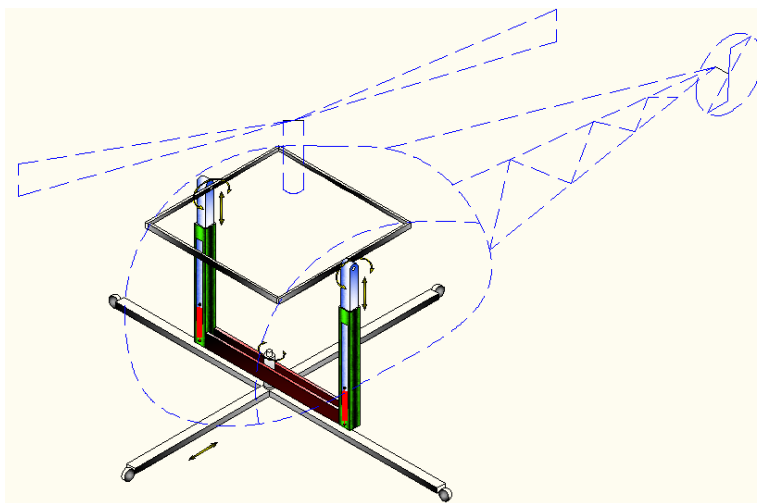
Pradip Shivaji Mohite, Padmavati Pradip Mohite

At./Po. – Wangi, Tal. – Kadegaon, Dist. - Sangli, PIN – 415305, Maharashtra, India.

ABSTRACT-

This innovation is based on providing a mechanism for actual experience of the helicopter flight training simulation, this allows to experience the actual flight and corresponding responses of the system during the flight of the helicopter, this mechanism shorten the time of training as it allows pilot to operate the helicopter in actual conditions and make the decision accordingly, this mechanism allows pilot to lift the helicopter upto three feet and can rotate 360 degree and can swing up and down and the complete assembly can moves on ground, thus this mechanism is allows pilot to experience the actual working conditions and responses which shorten the learning time and hands-on training.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 201821027872



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-044

Cable Operated Pull Down Type Swashplate Assembly with Nylon Fiber Ball for Helicopters

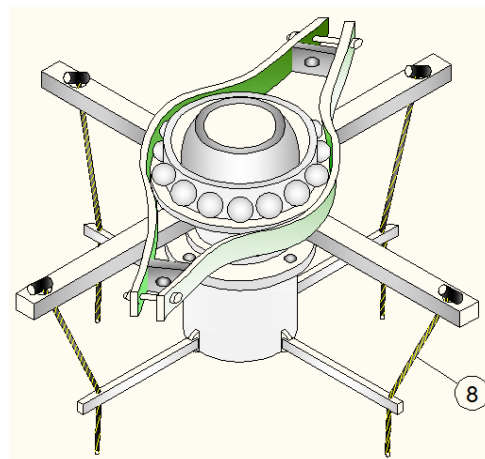
Pradip Shivaji Mohite, Padmavati Pradip Mohite

At./Po. – Wangi, Tal. – Kadegaon, Dist. - Sangli, PIN – 415305, Maharashtra, India.

ABSTRACT-

This innovation is based on providing a rotor swashplate assembly wherein the swashplate is supported over the nylon fiber ball for tilting which ensure less maintenance and wear of the matching parts, and its tilting is achieved by using pull down type application of force which is assisted by gravity, thus push up type actuation is eliminated, the flexible link, the wire rope cable is used instead of rigid rod link, to actuate the swashplate tilting, this given better smooth actuation, allows misalignment and most important given more stronger link operation conditions, this also help in easy replacement of the link with minimum maintenance.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 201821027873



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-045

Reversible and Secure Watermarking Using Cryptography on Permuted Digital Media

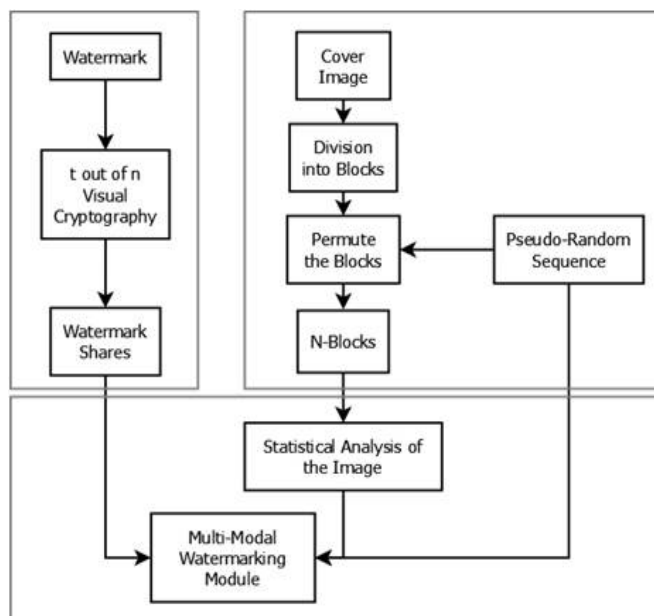
Dr. Reena Gunjan

MIT, Loni Kalbhor, Rajbaug, Pune, Maharashtra, India

ABSTRACT-

With the rapid development of technology, the digital information revolution has caused significant changes in the society but major challenges have opened due to the multimedia data being available in digital form which can be now be easily copied, manipulated and distributed by the use of versatile software and thus the perfect reproduction of digital data has caused a need for protection of ownership rights under this the copyright protection of digital data has become an important research issue, the digital watermarking has emerged as a method to authenticate document ownership and to identify illegal copies of a document, the same is achieved by inserting a unique digital watermark into each copy of the multimedia content to identify the owner and prevent piracy also if a person sells unauthorized copies of the watermarked content, then these illegal copies can be traced using a watermark extraction and detection algorithm, thus the said invention provide a robust digital watermarking scheme by pre-processing the watermark and embedding it into an image.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 201821030063



CIPCIS 2019 : P-046

Disk cleaning and automatic disk cooling mechanism with color coded wear measurement technique in Disk pads

Vivekanand Naikwadi ¹, Dr T.R.Shinde ²

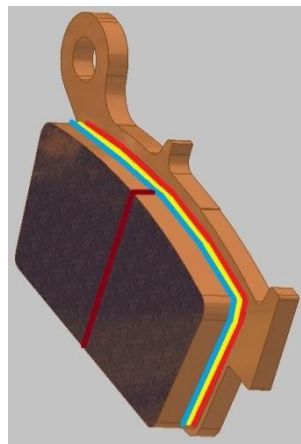
¹Pune University, Maharashtra, India, naikwadivivek@gmail.com, 9970226802

²Pune University, Maharashtra, India, tarangshinde@gmail.com, 9822625745

ABSTRACT-

This invention discloses the unique technique describing the wear factor associated with disk pad. Every friction pad of a disc is given a Particular paint on lower end of disk pad device in operation. Once the pad is worn to beyond an allowable wear limit thereby causing a warning color getting highlighted and the disk to be lit with that color and indicating the operator that disk pad is worn out and needs replacement, various depth gauges and sensor based devices are innovated till date, but this invention work utilize easy methodology and any one can detect the wear rate of disk pad promptly. The middle layer of self cleaning mechanism will keep the disk free from debris and cool down disk rapidly. It is associate degree object of the current invention to beat the on top of delineate difficulties incidental the acknowledged art and to produce, in an exceedingly disc brake of the moment category, a wear alarm system of extremely reliable operation.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 201921041362



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-047

Innovative steering mechanism in modern vehicles for after parking straight wheel alignment

Vivekanand Naikwadi ¹, Amit Dusane ²

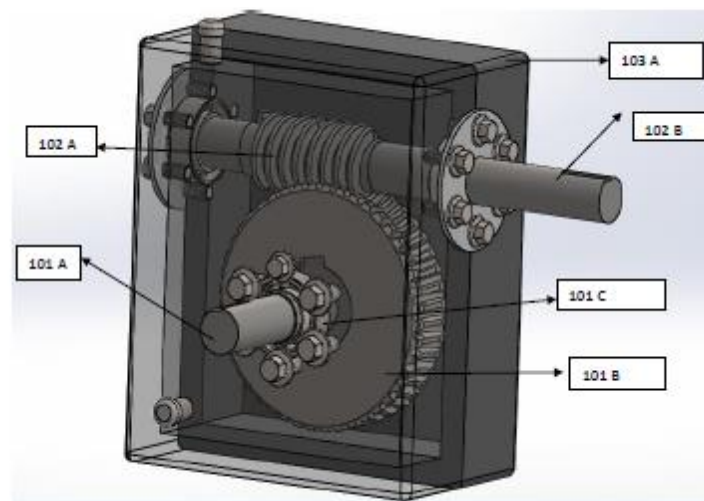
¹Pune University, Maharashtra, India, naikwadivivek@gmail.com, 9970226802

²Pune University, Maharashtra, India, dusaneamit@gmail.com 7507351696.

ABSTRACT-

The present invention relates to Innovative steering mechanism in modern vehicles for after parking straight wheel alignment, for several years, analysis has been conducted into causes of, and remedies for traditional wheel alignment method but there is very little focus on the stresses on tyres when vehicle is parked or in standalone condition, we know that when vehicle is parked with wheel turn in definite angle can produce ill effect on center of gravity of vehicle and stresses can be excreates leading to form misalignment. Over the years, parking the car having the wheels in straight direction is known phenomenon but present invention will help to automates this characteristics using various mechanisms.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 201921025313



CIPCIS 2019 : P-048

Design and development of modified seatbelt mechanism for pregnant women passenger

Vivekanand Naikwadi¹, Amit Dusane²

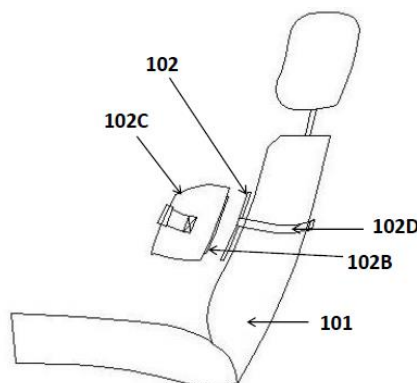
¹Pune University, Maharashtra, India, naikwadivivek@gmail.com, 9970226802

¹Pune University, Maharashtra, India, dusaneamit@gmail.com 7507351696.

ABSTRACT-

Design and development of modified seatbelt mechanism for pregnant women passenger is disclosed for use with a vehicle seat which includes a one point attachment system forming a lap belt, a shoulder belt and further includes a chest belt and a magnetic stress relief mechanism. The belt system includes a presenter mechanism to move the clasp for the one point portion of the system into an easy to reach position to encourage seatbelt usage. The system includes generally consist of one buckle on opposite sides of the seat with a release mechanism provided to automatically release buckle upon the release of the other buckle regardless of which is first manually released, the modern seatbelt assembly makes an uncomfortable attachment for pregnant women passenger traveling in car because focal point for dampening external kinetic energy effect generated in sudden braking or accidental scenario can generate severe ill effect on womb of pregnant women passenger due to jerk from kinetic energy and may leads to health complication during pregnancy.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 201821041617



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-049

Design and Development of Car Seat Constrainer System

Vivekanand Naikwadi ¹, Nitin Chopra ²

¹Pune University, Maharashtra, India, naikwadivivek@gmail.com, 9970226802

¹Pune University, Maharashtra, India, chopranitin@gmail.com 9049690569

ABSTRACT-

A conventional car seat which is only adjustable in forward and the reverse movement by being fixed on the floor, is a convenient way for adjusting the distance between the pedals and the seat. Be that as it may, likewise, this can be perilous if the same is performed while the vehicle is mobile, as it would distract the driver to adjust the position of the seat rather than driving. In view of the foregoing, an object of the present invention is to provide a locking mechanism to prevent the driver from adjusting the position whilst the vehicle is in motion, to prevent any hazards that can take place due to the lack of focus of driver.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 201821020932



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-050

Conveniently Unfolding Of Laptop

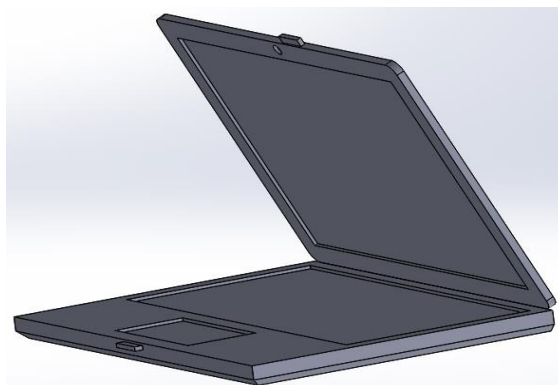
Nolesh Premraj Warke , Akshay Dadasaheb Ranpise

Department of Computer Engg., PCCOER, Ravet, (MS) India

ABSTRACT

According to this invention, there is a mechanism provided for unfolding the laptop in a comfortable manner, usually when people unfold their laptops frequently their fingers are been touched to the web cam on the display casing, to overcome this, this mechanism is used, it helps to open the laptop by applying the opposite forces on the plates, it is the mechanism which makes it easy for unfolding the laptop due to the plate fixed in the casings, the plates are long lasting due to they are being fixed into the casings.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. –201621027637



CIPCIS 2019 : P-051

Switch Module For Efficient Mobile Charging

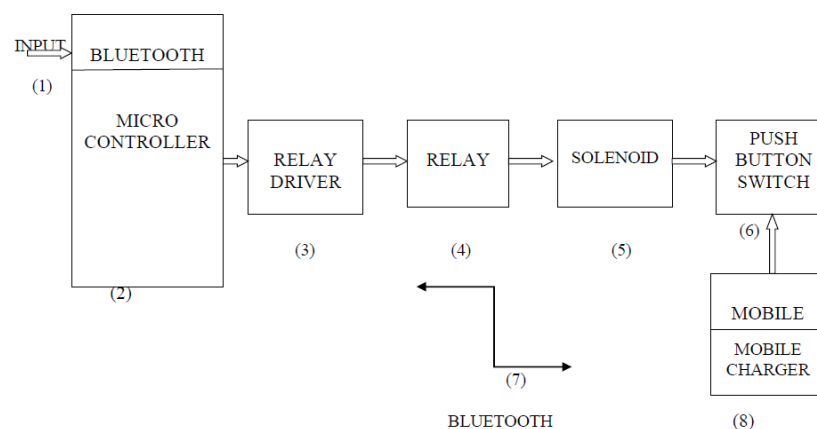
Arati Tekade

Asst. Prof. Department of E&TC Engg., PCCOER, Ravet, (MS) India arati.tekade@pccoer.in, 9545452766

ABSTRACT

Mobile and many other electronic gadgets have become an integral part of human life. Many times when mobile is connected to charger, even after 100% charging of battery, we forgot to switch off the button of mains supply and so battery gets continuous power supply which will ultimately lead to reduced life of battery over the years. Moreover, sometimes we connect the mobile to the charger and forgot to switch-on the button so the mobile does not get charged, which leads to irritation. So the designed system automatically OFF the switch of main supply when the mobile battery is 100% charged or ON the switch of main supply when battery is less than 100% charged, So this electronic arrangement provide automatic ON/OFF the switch of main supply so that mobile battery will be efficiently charged and also save electricity. A Sophisticated software application is designed which will On successful acknowledgement of the command, turns OFF the Bluetooth module of smart phone

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO.-201721016767



CIPCIS 2019 : P-052

Induction of An Extra Oxygen In The Engine To Reduce Ignition Lag With Increase In Power & Reduction In Air Pollution

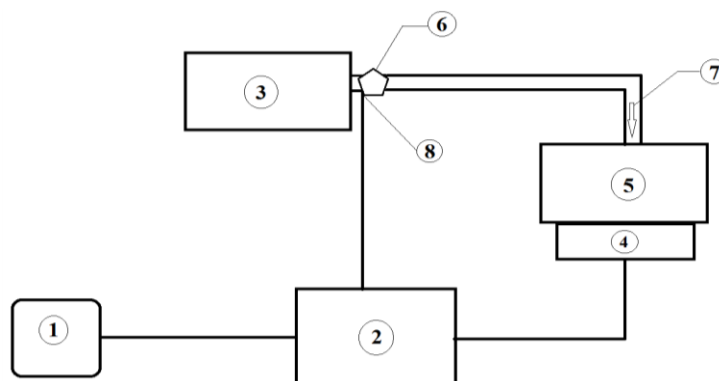
Indrajeet Rajendra Khandait

Department of Mechanical Engg., PCCOER, Ravet, (MS) India

ABSTRACT

A system for producing more power in the engine of the heavy vehicles whenever needed, the said system uses oxygen cylinder, electronic control unit, crankshaft position sensor and one pushbutton switch, said pushbutton switch required to be mounted on the dash board of the vehicle, said switch is connected to the electronic control unit, said unit is middle and the main part of the system, which is also connected with the oxygen cylinder tap to control the flow of pure oxygen and to the crankshaft position sensor, as the pushbutton switch is pressed manually, system gets active, crankshaft position sensor finds the exact middle of the swept volume and sends the signal to control unit, inlet valve gets closed at the exact middle of the suction stroke, as soon as control unit gets the signal control unit opens the supply of oxygen from oxygen cylinder to the combustion chamber, as a driver of the heavy vehicle; you just need to press the pushbutton switch when the vehicle is on the elevation of road, it will automatically increase the acceleration of the vehicle and as soon as elevation road ends just need to press the pushbutton switch again for normal power production, the overall cost for installing this system is nominal for heavy vehicles.

DIAGRAM/SCHEMATIC –



IPR APPLICATION / PATENT NO.-201621025367



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-053

Multi Function Pen Consisting Of Inbuilt Paper, Advanced Punching System, Advanced Stapler, Glue

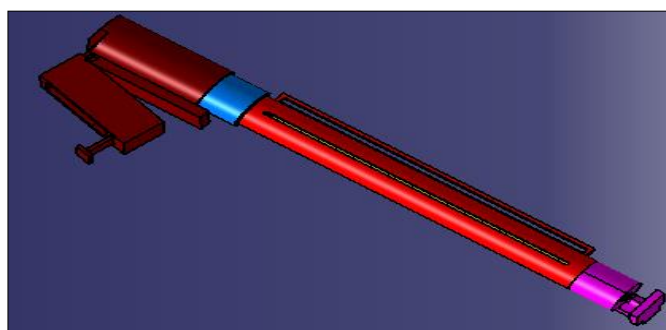
Shrenik Jain , Vinayak Endgallu

Department of Mechanical Engg., PCCOER, Ravet, (MS) India

ABSTRACT

A product, consist of a pen which contains a multi-functioning such as stapler which is mounted on the cap of the body of a pen the said combination also have a punching system which is mounted on the push button of the pen, the said combination also have paper rill mounted on the refill casing on the upper side while a glue is mounted on the lower part of refill casing, the said combination also have a refill inserted inside the refill mounting, the said combination have rubber bush inserted on the lower outer pen body by which the person is comfortable while using it and the product overall dimension is 150mm*10.5mm approximately also its total cost for manufacturing is affordable to everybody.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 201621025532



CIPCIS 2019 : P-054

A Protective Film for Helmet Visor Which Is Water Repellent And Detachable

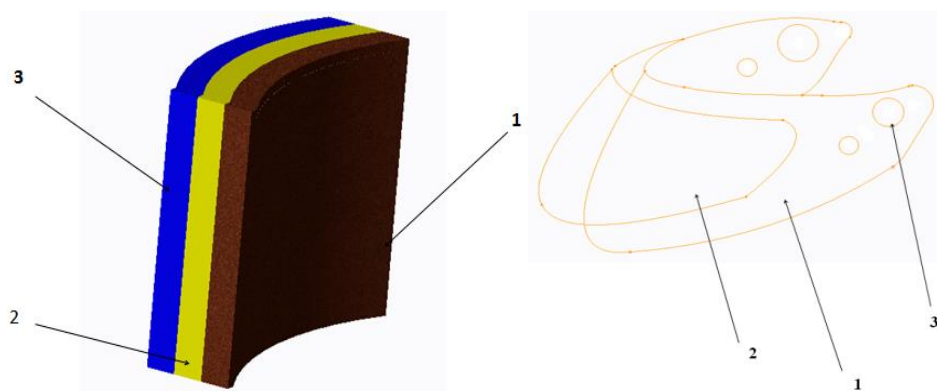
Omkar Hanumant Shinde

Department of Mechanical Engg., PCCOER, Ravet, (MS) India

ABSTRACT

The invention relates to a visor film suitable for a helmet having an adhesive detachable protective film made up of a transparent plastic type material, mainly PET(polyethylene terephthalate) and TPU(thermoplastic polyurethane). The invention can also be used by an addition of an UV protection layer on the film, the film is photo chromatic on the outer surface and has UV stabilizing additives which are capable of responding to the sun light and UV light. The invention will also have water repellent and dust repellent layer of Super hydrophobic and oleo phobic coating materials, which will repel most of the water and oil based liquids. The helmet can be suitable for driving a motorbike, for police or soldiers or in sports.

DIAGRAM / SCHEMATIC –



1: relates to helmet visor, 2 : relates to detachable transparent adhesive film, 3 : relates to visor lock.

IPR APPLICATION / PATENT NO. –201621025506



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-055

The Additional Control Unit (ACU) For Automated Speed Control In Required Zones

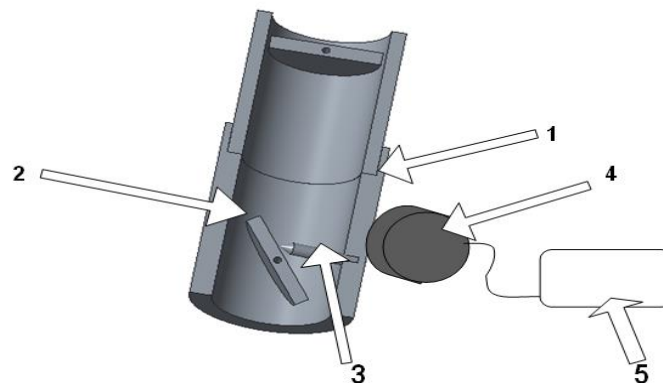
**Abel Mathew, Kartik Mundase, Ashwin Bhalerao, Ashish Maurya Kartik Kinge,
ShrutikaTakalkar, Shrikant Shetty**

Department of Mechanical Engg., PCCOER, Ravet, (MS) India

ABSTRACT

The system is for preventing accidents by controlling the speed of the vehicles by modifying the carburetor. The speed of a vehicle is controlled or governed by the throttle valve in the carburetor which in turns controls the air-fuel mixture. The throttle is controlled manually by the user, but in case of over speeding in restricted zones like schools, hospitals, sharp turns; the speed then, can be controlled by reducing the air fuel mixture supply to the engine which is a governing factor for vehicles speed. We can restrict the maximum speed of the vehicle by using our modification with the assistance of transmitter & receiver.

DIAGRAM / SCHEMATIC –



1 : relates to Outer Shell, 2 : relates to control valve, 3 : relates to control pin, 4 : relates to cam controller,
5 : relates to receiver device

IPR APPLICATION / PATENT NO.–201621025537



CIPCIS 2019 : P-056

Heart Rate Sensing Helmet for Safer Driving

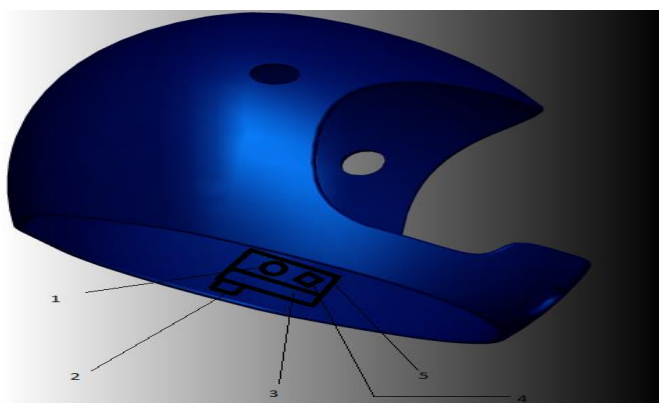
Shubham Suresh Poojary

Department of Mechanical Engg., PCCOER, Ravet, (MS) India

ABSTRACT

The system used to sense heart rate and start your vehicle (two wheeler) with the help of helmet. The said technology uses heart rate sensor, battery, Bluetooth (in speedometer and helmet). First we need to connect speedometer and helmet via Bluetooth, which is present in both. We need to start the connection by switching ON the vehicle (battery mode) and also by switching ON the switch present on the helmet's at one side chin (inner side). The connectivity can be established after LED on the Bluetooth symbol present on speedometer stops blinking (i.e. continuously ON mode). After connecting, the speedometer will receive the signal by the heart rate sensor present on helmet and then person can start the vehicle (ignition). The overall cost for installing this system is around 4000 rupees.

DIAGRAM / SCHEMATIC –



- 1 : Heart rate sensor, 2 : Charging Port, 3 : Lithium-ion Battery installed on Helmet,
4 : switch installed on the helmet, 5: whole component of system on helmet

IPR APPLICATION / PATENT NO. –201621025788



CIPCIS 2019 : P-057

Smart Slipper With Weight Sensor, Clock With Stop Watch, Weather Sensor And Bluetooth

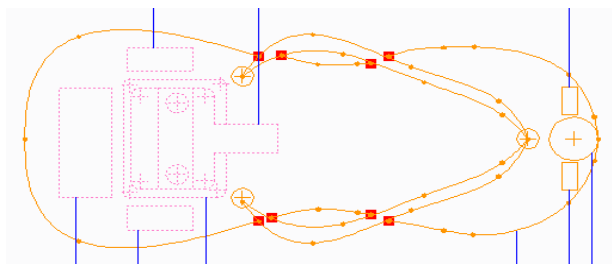
Priyanshu Kukkar

Department of E&TC Engg., PCCOER, Ravet, (MS) India

ABSTRACT

A slipper - based weight measuring, watch with facility of stop watch, system comprising: a slipper, one or more weight sensitive detectors constructed and arranged with the slippers to sense weight of a person wearing the slippers and walking or standing, accessible using Bluetooth; a sensor to measure the weight of a person or body standing on sensor. There is also weather sensor is provided. From weight sensor the signals are transmitted to the digital display detector. On digital display we can see the weight of the body. For seeing the time there is additional display is provided. In slipper there is Bluetooth is available. The control of Bluetooth is connected to band. The band can be wear on hand. For water protection in addition we can use the silica layer as it protects the slipper from the any short circuit.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 201621026952



CIPCIS 2019 : P-058

Sensor Operated Automatic Ink Stamping Machine

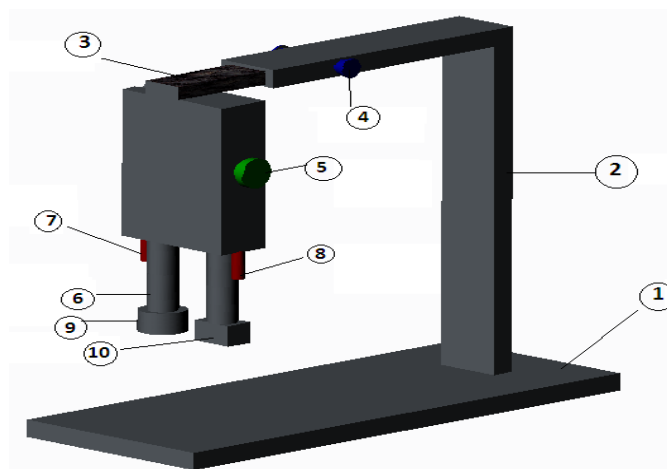
Jayashri V. Chopade

Asst. Prof. Department of Mechanical Engg., PCCOER, Ravet, (MS) India, jayashri.chopade@pccoer.in, 9545452766

ABSTRACT

For stamping, when paper comes below the plunger, on stand the slider can be moves forward or backward for correct position on paper. Sliding screw locks the slider at correct position. Paper sensor senses the paper and moves in downward direction for impression. Round stamp and rectangular stamp make the impression on paper. After two seconds, plunger moves upward direction. In this system instead of using two stamps, single stamp can be used. For ink, ink refill may use for continuous operation. Ink sensor is provided, to detect the ink for impression.

DIAGRAM / SCHEMATIC –



1 : relates to stand, 2 : relates to support, 3 : relates to slider, 4 : relates to slider screw,
5 : relates to locking screw, 6 : relates to plunger, 7 : relates to ink darkness sensor, 8 : relates to paper sensor,
9 : relates to round stamp, 10 : relates to rectangular stamp

IPR APPLICATION / PATENT NO. –201621026957



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-059

A System for Drinking Water Cooler to Reduce Water Wastage and Energy Conservation

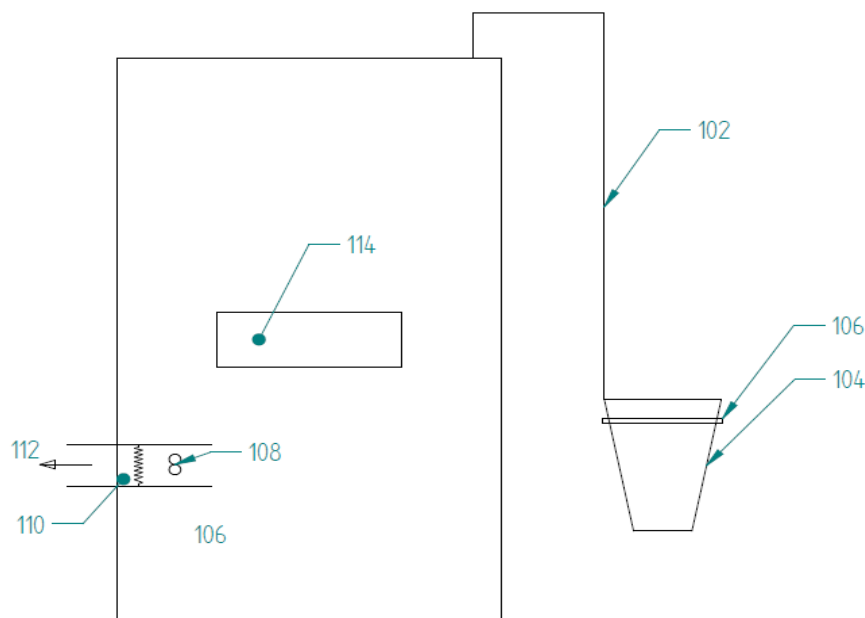
Harish Umashankar Tiwari, Amruta Harish Tiwari

Prof. & Principal, Pimpri Chinchwad College of Engineering & Research, Ravet, Pune 412101, (MS) India, harish.tiwari@pccoepune.org.

ABSTRACT-

The present subject matter is a system for drinking water cooling with advancement to reduce the wastage of water and reduce the energy consumption. In the said system the means for drinking water is especial type of glass. The glass is an integral part of the system wherein the upper portion of the glass surface is corrugated type and pointed edges so that one does not touch it directly to mouth or lips. The water cooler is provided with a hot air stream for glass cleaning and hand cleaning. It results in saving of water otherwise required for glass cleaning and hand cleaning.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 201921047772



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-060

A system for Weight Indicator in Seating Arrangement

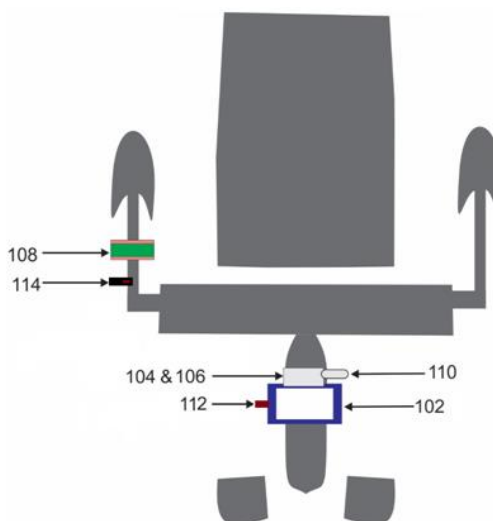
Harish Umashankar Tiwari, Amruta Harish Tiwari

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ABSTRACT-

The present subject matter is a seating arrangement with advancement in chairs or seats. The seating arrangement is having a means for the measurement and display of weight of person seating on it. The conventional means which are used for the measurement and display of weight are used. The chairs or seats are modified to position the components of the weighing machines for this advancement. The load cell is positioned to sense the weight at appropriate position where the overall weight acts and the display is positioned suitably on chair or other location

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 201921047773



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-061

A System for the Measurement and Indication of Weight in Elevators

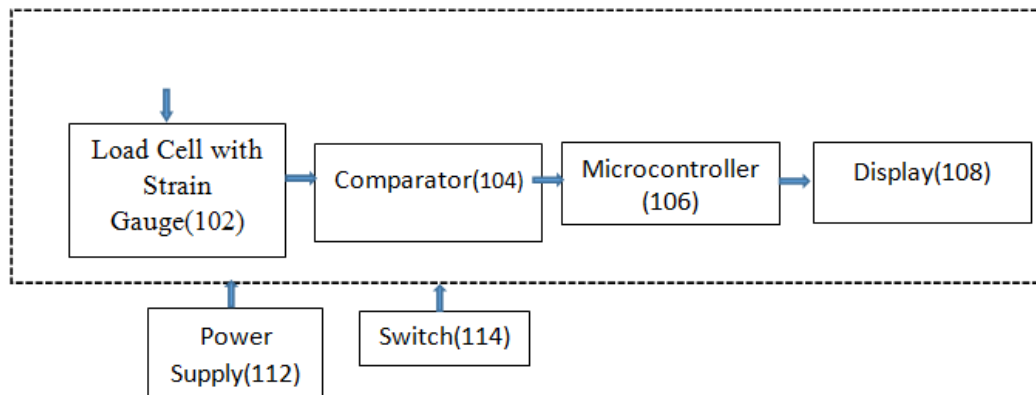
Harish Umashankar Tiwari, Amruta Harish Tiwari

Prof. & Principal, PimpriChinchwad College of Engineering & Research, Ravet, Pune 412101, (MS) India, harish.tiwari@pccoe pune.org.

ABSTRACT-

The system of the present subject matter is an advancement in elevator to measure and display weight of a person. The advancement in the elevator is done to include a system for the measurement and display of weight. A load cell is placed at the bottom of elevator to sense weight, the signals are processed and the necessary information is forwarded to display the weight of the person using elevator. The objective is to alarm the user so as to avoid use of elevator for weight conscious and health conscious people.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 201921047774



CIPCIS 2019 : P-062

A System of Vehicle Indicators to Use the Hazard Lights and Direction Indicators Simultaneously

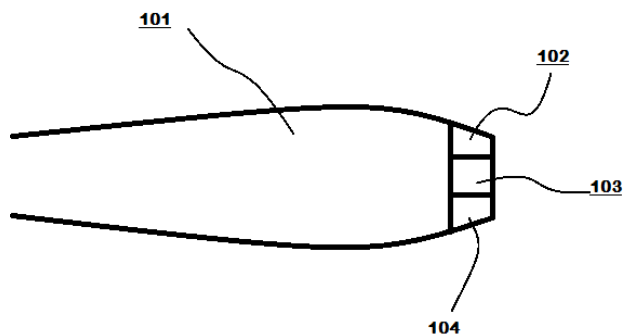
Harish Umashankar Tiwari¹, Amruta Harish Tiwari²

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ABSTRACT-

A system of vehicle indicators to use the hazard lights and direction indicators simultaneously, a circuit which lets the simultaneous use of hazard lights and direction indicators, first when the hazard lights are being used when the car is being drove and simultaneously the driver has to use the direction indicators, there is provision in the system where, when single direction indicator is used corresponding hazard lights are switched of simultaneously and the following direction indicator turns on, second when the use of direction of indicator decays, hazard lights are simultaneously switched on according to the prearranged system, Typically, said first the hazard lights are switched on for vehicle to get recognized, said second the hazard lights can be turned on using any existing power source, said first the direction indicators can be simultaneously used while the hazard light is turned on, said first while the hazard lights are in use and the direction indicator is to be used, the direction indicator can be directly switched on without turning of the hazard light and as the use is done the hazard lights can resume to glow.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 201921047775



CIPCIS 2019 : P-063

A System for Drinking Water Cooler for the Enhancement of Performance

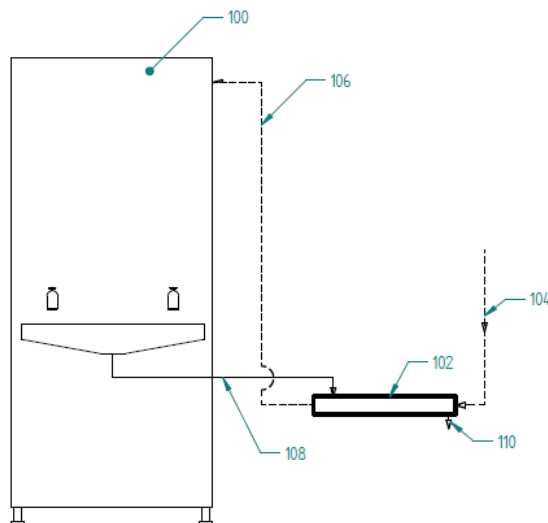
Harish Umashankar Tiwari¹, Amruta Harish Tiwari²

¹Prof. & Principal, PimpriChinchwad College of Engineering & Research, Ravet, Pune 412101, (MS) India, harish.tiwari@pccoepune.org.

ABSTRACT-

The system of the present subject matter is an advancement in the drinking water cooler. Water is cooled in two stages first in an evaporative cooler by utilizing the potential of waste water going away to drainage line. It cools water partially and thereby reducing the required cooling in main cooler which works on the principle of vapor compression refrigeration. The main advantage claimed is power saving without much effect on overall cost of the machine.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 201921047776



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIIS 2019)

CIPCIIS 2019 : P-064

A System for the Measurement and Indication of Time with Rotating Dial

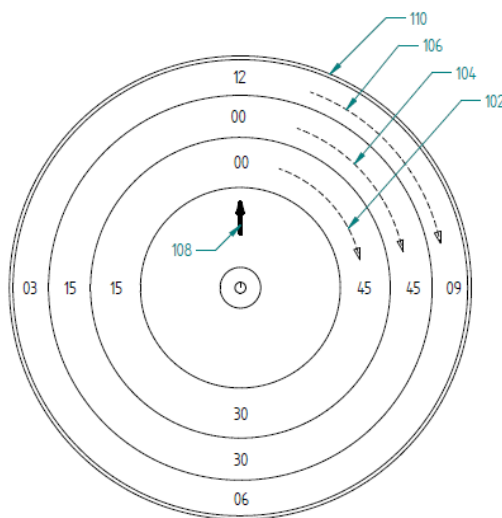
Harish Umashankar Tiwari¹, Amruta Harish Tiwari²

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ABSTRACT-

Disclosed herein is a system for the measurement and display of time (100), with rotating dials and fixed pointer the system (100) comprising of means to measure time in second minutes and hours. The system of the present subject matter indicates time by measuring the relative positions of rotating dial with respect to a fixed pointer. The time is measured in second hour and minutes by using three rotating dials. The dials are marked with time indicating numbers like 1 to 12 for hours and 0 to 60 for minute and seconds. It gives an entire new type of watch or clock where there are no moving or rotting hands of conventional watches.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 201921047777



CIPCIS 2019 : P-065

A System for Tube to Remove the Inside Stored Material

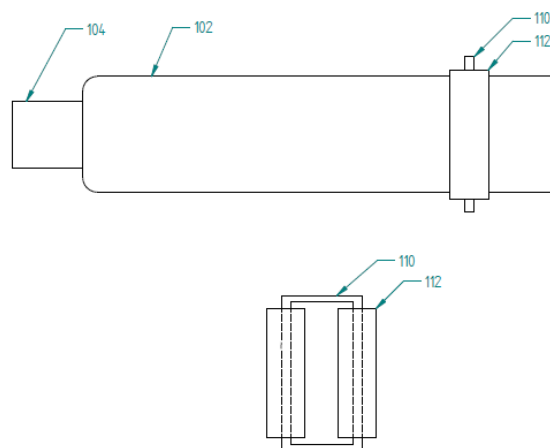
Harish Umashankar Tiwari¹, Amruta Harish Tiwari²

¹Prof. & Principal, PimpriChinchwad College of Engineering & Research, Ravet, Pune 412101, (MS) India, harish.tiwari@pccoe pune.org.

ABSTRACT-

There is provided a system for easy removal and minimizing wastage of material due to incomplete removal of stored material in a tube. As shown in Figure 1, 100 is the tube container in which material required to be stored is filled. 110 is the closed end of the tube. 108 is the one way lock which allows the clip to be installed on the tube. This locking arrangement is like V shape wings fitted at the bottom with the wings parallel to the length of the tubes. The closed end of V shape lock is fixed at the bottom and the two legs of lock are open and positioned along tube body. Due to its shape the locking arrangement restricts the sliding clip from coming out. 106 is the moving clip which can move up and down along the length of the tube pushing the stored material out from the opening. 104 is the cap fitted on the tube. The details of the movable clip 106 in Figure 1. Are shown in Figure 2. In figure 2, 202 and 204 are hollow cylinder placed in the clip such that, they can freely rotate and can roll over the surface of the tube. 206 is the rectangular structure holding the hollow cylinder 202 and 204.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 201921047778



CIPCIS 2019 : P-066

A System for Minimization of Wastage of Soap

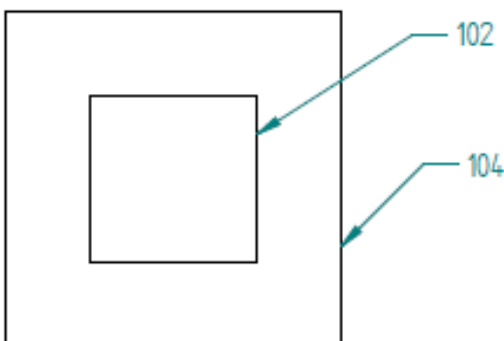
Harish Umashankar Tiwari¹, Amruta Harish Tiwari²

¹Prof. & Principal, PimpriChinchwad College of Engineering & Research, Ravet, Pune 412101, (MS) India, harish.tiwari@pccoepune.org.

ABSTRACT-

Disclosed herein is advancement in soap. The system (100) includes means for enhancing the utility of soap by providing a block or core inside soap. The block inside reduces the waste of soap material and a soap can be used fullest possible. The block later is used to clean body. It is designed in such a way that allows use till very last and thereby economical.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 201921047779



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-067

A SYSTEM FOR END FINDING AND TAPE CUTTING FOR ADHESIVE CELLO TAPES

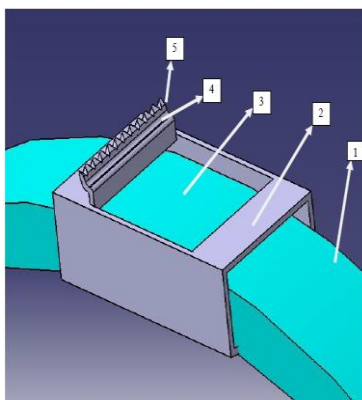
Harish Umashankar Tiwari¹, Amruta Harish Tiwari²

¹Prof. & Principal, PimpriChinchwad College of Engineering & Research, Ravet, Pune 412101, (MS) India, harish.tiwari@pccoepune.org.

ABSTRACT-

The system of the present subject matter is advancement in the adhesive cello tape. The common problem of edge finding and cutting of cello tape in piece is addressed; a sliding clip or clamp is installed on the roller along the circumference of the roller. The clamp is so designed that the cello tape strip rests on the clamp thereby helps in locating the edge of the cello tape strip. The clamp or clip is formed from metal or plastic wire or strip and is wrapped on the cello tape bundle to minimum two wraps. The cello tape strip with zigzag edges flows through gap between these wraps and the clip along with the cello tape moves on the circumference of the cylindrical cello tape bundle. The cello tape is designed as a zigzag strip from both side of the strip thereby the cutting becomes easy.

DIAGRAM / SCHEMATIC -



IPR APPLICATION / PATENT NO. – 201921047791



CIPCIS 2019 : P-068

A SYSTEM FOR SMOOTH IRONING AS PER FABRIC REQUIREMENTS

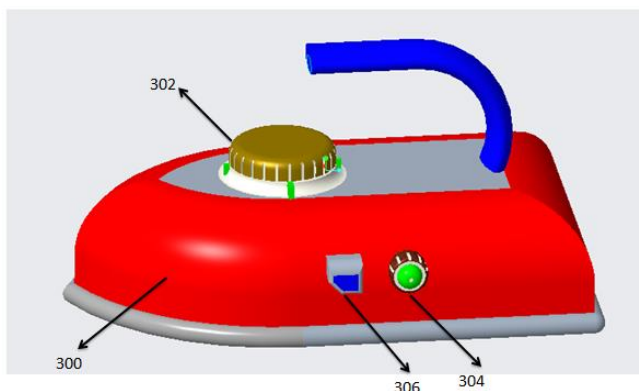
Harish Umashankar Tiwari¹, Amruta Harish Tiwari²

¹Prof. & Principal, PimpriChinchwad College of Engineering & Research, Ravet, Pune 412101, (MS) India, harish.tiwari@pccoepune.org.

ABSTRACT-

Disclosed herein is an ironing system which includes iron of the present system (300) and Fabric with stored information. Information required for smooth ironing of the fabric is stored electronically and or in printed form on fabric. The means for storing information is RFID storage. The information is also available in printed form on the fabric at suitable position on the fabric in the form of suitable recommendation of ironing temperature and other requirement like weather steam is required or not. The Iron of the present subject matter is equipped with a reader that can read and further process the information. The processed information is then sending to the thermostat for setting desired temperature. The processor also controls flow of steam. A manual system is also employed which is a knob placed on Iron which controls the temperature manually

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 201921047792



Pimpri Chinchwad Education Trust's
PIMPRI CHINCHWAD COLLEGE OF ENGINEERING AND RESEARCH
Laxminagar, Ravet, Pune-412101 (Maharashtra)

CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)



CIPCIS 2019 : P-069

A System for cutting zigzag edges on strips

Harish Umashankar Tiwari¹, Amruta Harish Tiwari²

¹Prof. & Principal, PimpriChinchwad College of Engineering & Research, Ravet, Pune 412101, (MS) India, harish.tiwari@pccoepune.org.

ABSTRACT-

The system of the present subject matter is advancement in elevator to measure and display weight of a person. The advancement in the elevator is done to include a system for the measurement and display of weight. A load cell is placed at the bottom of elevator to sense weight, the signals are processed and the necessary information is forwarded to display the weight of the person using elevator. The objective is to alarm the user so as to avoid use of elevator for weight conscious and health conscious people.

IPR APPLICATION / PATENT NO. – 201921047780



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Laxminagar, Ravet, Pune-412101 (Maharashtra)

CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)



CIPCIS 2019 : P-070

AN INTEGRATED KEYPAD WITH MOUSE FOR COMPUTER

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ABSTRACT-

The system of the present subject matter is an integrated model of Computer keypad and mouse. The mouse of the present subject matter is designed as a combined unit of mouse and keypad with features of both. The problems associated with the operation of keypad as compared to operation with mouse are minimized. The features of the keypad are not compromised but the utility of the system increases.

IPR APPLICATION / PATENT NO. – 201921047790



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-071

An Altration in Television and Its Remote Control to Make Easy Search of Remote Control

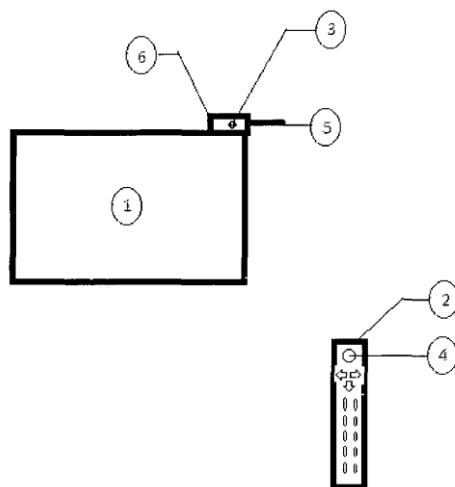
Harish Umashankar Tiwari¹, Amruta Harish Tiwari²

¹Prof. & Principal, PimpriChinchwad College of Engineering & Research, Ravet, Pune 412101, (MS) India, harish.tiwari@pccoepune.org.

ABSTRACT-

A system for searching a misplaced remote control of a Television or other electronic gadgets, the said system uses a combination of RF (radio frequency) transmitter and a receiver, the said combination is known as RF Module Pair(TX+RX), the said transmitter is required to be installed in Television, the said reviver is to be installed in remote control, the said transmitter installed in the TV is having a switch which will be operated when remote is to be searched, the receiver installed in the remote control have a beeper which beeps after receiving signal from transmitter, the pair of receiver and transmitter is a RF module pair(TX+RX). The beeping sound of receiver helps in locating the misplaced remote control The overall cost of installing this system is very small(Rs.300).

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 201921047787



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-072

Refrigerator With Instant Cooling System

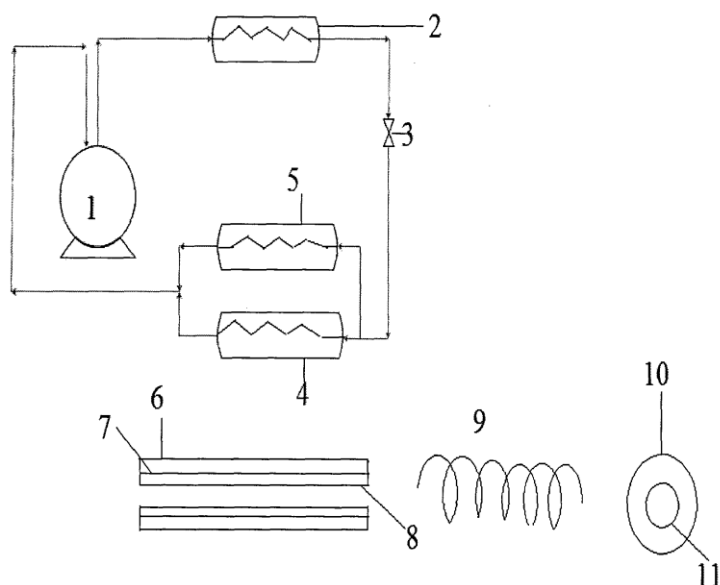
Harish Umashankar Tiwari¹, Amruta Harish Tiwari²

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ABSTRACT

A system for instant cooling in a refrigerator, said system comprising: conventional vapor compression refrigeration system and an additional evaporator, said additional Evaporator is connected in parallel or in series as required, said additional evaporator is covered by a brine solution jacket, said jacket containing brine solution is covered at back side, said evaporator and covered jacketed is arranged in such a way that a hollow space is formed where material to be cooled is placed, said jacket is made from a flexible material so that it can hold a standard size bottle of one liter of water, said additional evaporator absorbs heat from material to be cooled through brine solution, the said brine solution has a freezing point around -10°C , said additional evaporator enclosed in brine solution jacket forms an assembly in which material to be cooled is placed, said assembly is enclosed in an insulating material cabinet, said cabinet is covered from front is placed below regular evaporator of refrigerator.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 452/MUM/2015



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-073

A Time Scale (Indicator) On Writing Pen

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ABSTRACT-

A pen with a writing time indicator is invented; the said pen has an indicator to show the writing time possible with the pen; said time duration is decided based on the ink in refill or the pen; the said time duration is decided on the basis of calibration; the said calibration is done in laboratory based on average speed of a person; the said average speed is calculated by taking mean of speed of writing of a sample of people using same type of pen; the said calibration time is printed on the body of the pen; the said time duration is the indication of writing time possible with the pen at an average speed; the said system is useful in many applications like writing in an examination; the said improvement in existing technology of pen is with no additional cost in the basic cost of the pen

DIAGRAM / SCHEMATIC –

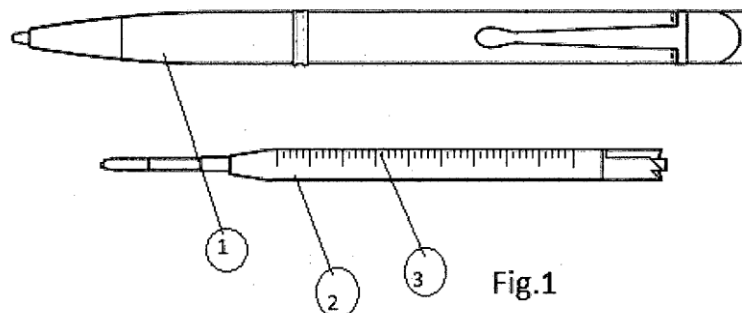


Fig.1

IPR APPLICATION / PATENT NO. – 864/MUM/2015



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-074

A Two Wheeler Vehicle With Dual Side Stand

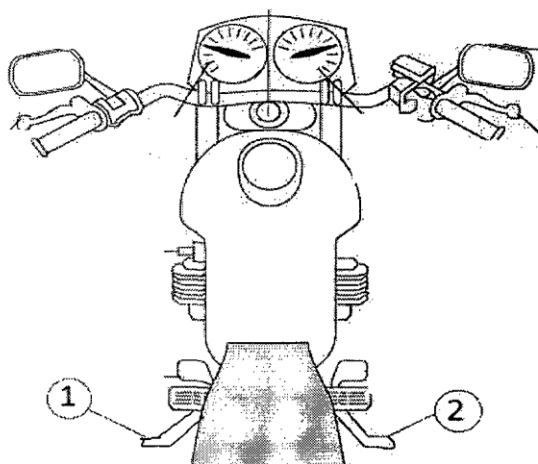
Harish Umashankar Tiwari¹, Amruta Harish Tiwari²

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ABSTRACT

A system used for parking the vehicle on both the side as per the person's requirement. Said system, consists of the similar side-stand installed on the either side of the motorcycle (that is on the right side).the above system will help the person to park his/her vehicle on any side as per his/her convenience. The overall cost of installing this system is very small.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO.– 866/MUM/2015



CIPCIS 2019 : P-075

A Compact Internal Combustion Engine With Charge Comprising Of Liquid O₂ And Fuel

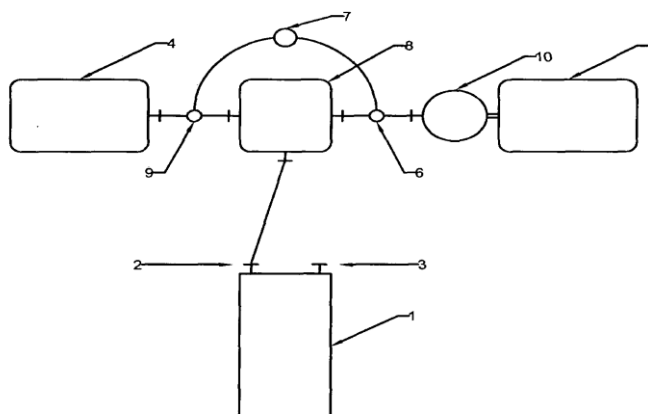
Harish Umashankar Tiwari¹, Amruta Harish Tiwari²

¹Prof. & Principal, Pimpri Chinchwad College of Engineering & Research, Ravet, Pune 412101, (MS) India, harish.tiwari@pccoepune.org.

ABSTRACT-

An internal combustion engine system for high power output, said system comprising: input means adapted to receive 100% oxygen in place of air with fuel said fuel can be of any type which requires oxygen for combustion; firstly expansion chamber is adapted to receive liquid O₂ from said input means, for change of state from liquid to oxygen gas; said oxygen gas is supplied to the mixer through said pressure control valve wherein controlled by integrated control unit; secondly flow control valve is adapted to receive fuel from said input means; said flow control valve being a flow control valve allows a fixed proportion of fuel to pass through it, further said fuel is then supplied to the mixer, wherein the flow control valve is controlled by integrated control unit; said integrated control unit controls the flow and pressure of fuel and oxygen in fix proportion to avoid improper combustion and hazardous exhaust gases; said mixer can be carburetor in case of spark ignition engine; said mixer is used for mixing oxygen and fuel to a required oxygen fuel ratio; oxygen-fuel ratio required in said system is around 3.5 depending on type of fuel; said mixer supplies the charge to said internal combustion chamber for the combustion process; proceeding with combustion power output is 4 times that of present internal combustion engine; in said system emission reduces by 3 to 4 times.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO.– 201921047772



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-076

A System For Cooling Using Engine Exhaust Heat

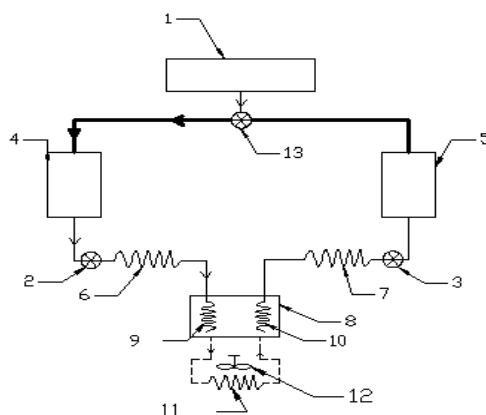
Harish Umashankar Tiwari¹, Amruta Harish Tiwari²

Prof. & Principal, PimpriChinchwad College of Engineering & Research, Ravet, Pune 412101, (MS) India.

ABSTRACT-

A system for cooling using engine exhaust heat, said system comprising: input means adapted to receive exhaust gas from said engine; first adsorber adapted to receive exhaust gas from said input means, said receiving being controlled by a first valve, said adsorber being a shell and tube heat exchanger such that said exhaust gas passes through said tubes and refrigerant adapted to be compressed in said shell of said heat exchanger, wherein, adsorbing material of said first adsorber is heated upon receipt of said exhaust gas thereby making refrigerant to come out of said adsorbing material; second adsorber adapted to receive exhaust gas from said input means, said receiving being controlled by a second valve, said adsorber being a shell and tube heat exchanger such that said exhaust gas passes through said tubes and refrigerant adapted to be compressed in said shell of said heat exchanger, wherein, adsorbing material of said first adsorber is heated upon receipt of said exhaust gas thereby making refrigerant to come out of said adsorbing material; first air cooled condenser coil placed in series with said first adsorber; second air cooled condenser coil placed in series with said second adsorber; first evaporator adapted to be connected in series with said first air cooled condenser; second evaporator adapted to be connected in series with said second air cooled condenser; and cooling coil with fan and water pump in order to circulate cold water in said cooling coil, wherein said fan from one side is adapted to supply cold air to a cabin of vehicle, and further wherein, said water pump is adapted to pump water from and back to a water tank and said cooling coils.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 201921047772



CIPCIS 2019 : P-077

Magnet In The Pen Clip For Improved Grip In Pocket

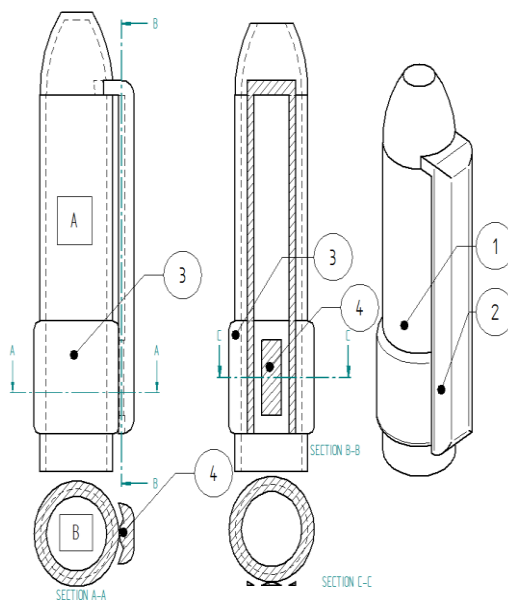
Harish Umashankar Tiwari¹, Amruta Harish Tiwari²

¹Prof. & Principal, PimpriChinchwad College of Engineering & Research, Ravet, Pune 412101, (MS) India, harish.tiwari@pccoe pune.org.

ABSTRACT-

A modification of a pen cap in which there is a use of permanent magnet and a ferromagnetic material such as iron, nickel or cobalt so that there is a firm clipping of clip of cap so that there is no misplacing of pen; the said magnet is fitted at the lower tip of the clip; the said tip is covered or uncovered; the said pen clip tip is made up of permanent magnet and the interfacing part of the barrel of cap with clip is made up a ferromagnetic material and vice versa; when the pen is clipped to a pocket of shirt and even though there is a movement of the external body the pen doesn't fall due to magnetic effect between clip and the surface of barrel of cap designed; the cost of the pen is not much affected as the cost of a small required magnet is very small.

DIAGRAM / SCHEMATIC -



IPR APPLICATION / PATENT NO. – 2918/MUM/2015



CIPCIS 2019 : P-078

A System For Reduction Of Weight Of School Bag

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ABSTRACT-

A system or scheme for reducing weight of school bag of students, said system is about rearranging the contents of books used by the students; in the said system it is proposed that the chapters of the books should not be arranged subject wise. It is proposed that the all the chapters from all the books of the standard syllabus should be divided in sections. One particular section should contained chapters from all subjects. For example if a student has to study four subjects with 12 chapters in each subject, it is proposed that there can be four sections. In each section three chapters of each book can be placed. Similarly the notebooks can also be rearranged. The notebooks can be prepared according to requirement in desired number of section. Each section of notebook contains required pages for particular subjects. In this case student has to carry only one section of books and one section of notebook to school. In case those chapters of particular subjects are finished and chapters of another particular subject are unfinished student has to carry maximum two sections of books and two sections of notebooks. This will reduce the load to be carried to school and thereby will reduce the weight of schoolbag by 75 to 50 %.

IPR APPLICATION / PATENT NO. –



CIPCIS 2019 : P-079

A Mechanism For Transferring Material In A Multistory Apartment Building

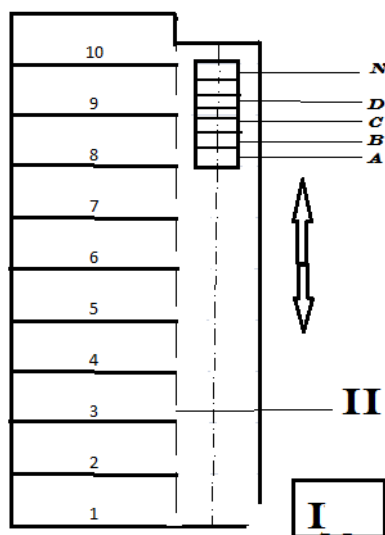
Harish Umashankar Tiwari¹, Amruta Harish Tiwari²

¹Prof. & Principal, PimpriChinchwad College of Engineering & Research, Ravet, Pune 412101, (MS) India, harish.tiwari@pccoepune.org.

ABSTRACT-

A system for transferring items to apartments in a multistory building, in the said system a mechanism is proposed, the mechanism consist of an electronically controlled trolley arrangement along the length of a multistory building. The objective of the proposed design is to save electricity enhance security for apartments and also to save human efforts. The trolley is designed with multiple compartments, where material to be transported to apartment can be placed, the compartment have plungers to push material in to an apartment. The apartment has provision to receive the delivered material. An alarm system is proposed to inform the resident about receipt of material. The proposed mechanism will help to reduce security threat to apartments; it will also help to reduce the efforts of person, who otherwise has to visit multiple apartments.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. –



CIPCIS 2019 : P-080

Adjustable Back Support Of Front Seat In A Car To Give Flexibility Of Forward And Backward Seating

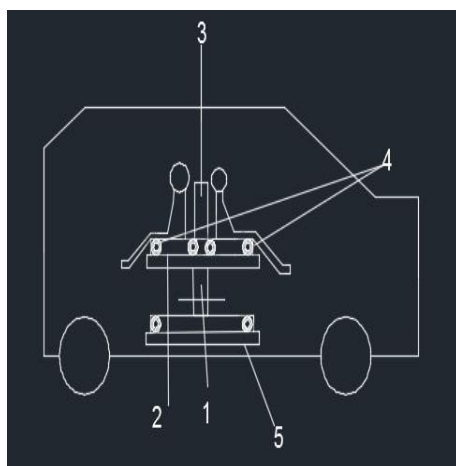
Harish Umashankar Tiwari¹, Amruta Harish Tiwari²

¹Prof. & Principal, PimpriChinchwad College of Engineering & Research, Ravet, Pune 412101, (MS) India, harish.tiwari@pccoepune.org.

ABSTRACT-

A system for changeable seating position in a car for front passenger, said system comprises of a sliding mechanism fitted between back support of seat and sides of the base of the seat, said sliding mechanism allows the back support to move backward and forward along the length of the seat, said back support is fitted with a mechanism to allow the back support by 90°, said sliding mechanism and 90° turning seat can convert the seat in to a bed, said arrangement gives flexibility in seating, said arrangement allows the seat to change in to a bed in case of emergency

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 453/ MUM/ 2015



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-081

A Tooth Brush With Toothpaste Inside

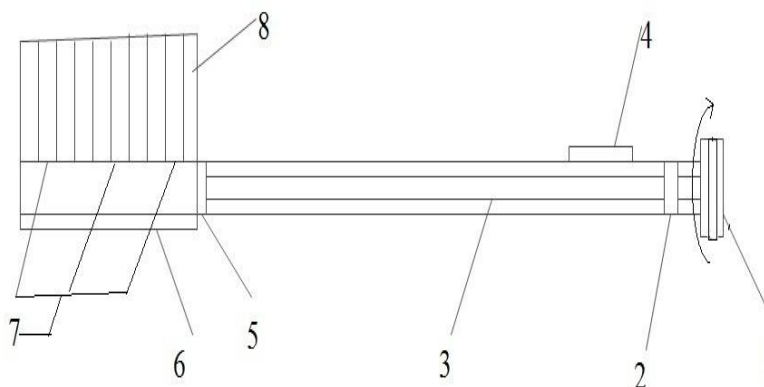
Harish Umashankar Tiwari¹, Amruta Harish Tiwari²

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ABSTRACT-

A system for brushing teeth is designed, the said system have a regular toothbrush with a cavity in the handle for containing toothpaste, the said system have an opening for filling toothpaste in the handle, the said system have a mechanism for pushing toothpaste in forward direction, the said pushing mechanism is a lead screw and nut arrangement, the said arrangement push the tooth paste towards bristles, the said bristles have an opening at the base to admit toothpaste, the said opening allows the toothpaste to speed over the bristles

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. –



CIPCIS 2019 : P-082

A System For Reduction Of Puncture In Tyres

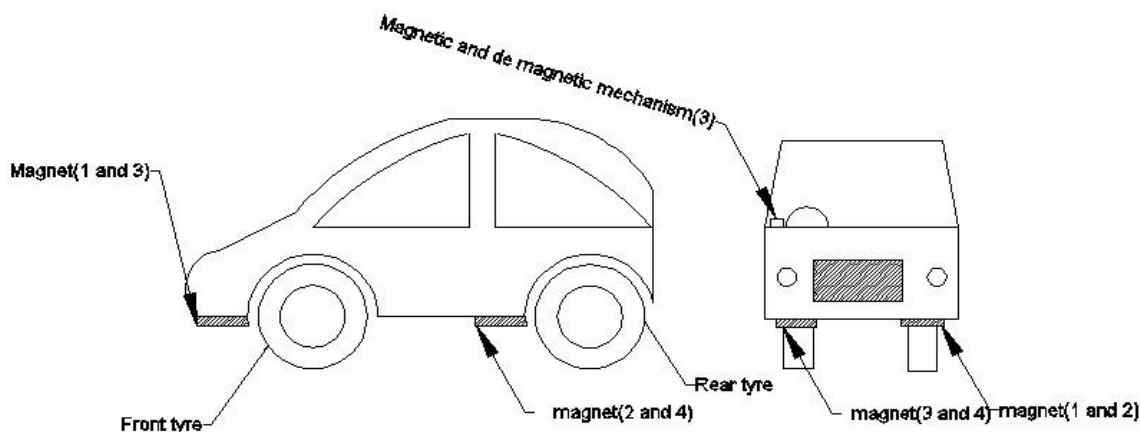
Harish Umashankar Tiwari¹, Amruta Harish Tiwari²

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ABSTRACT-

A system for reducing chances of puncture in automobiles, in the said system a technique is proposed, in which magnets are placed before the wheels of automobiles, said automobiles can be a two wheeler or a four wheeler. It is observed that tire of automobile get punctures mainly because of nails on the road, in the said system when magnets are placed before the tires; the said magnets attract nails from the road the nails will not come in contact with tires. The said technique will eliminate need of extra tire or stepney, this will reduce the overall cost and weight of the automobiles, further the time lost for removal of puncture is also saved. The number of magnets required in a two wheeler is two and in a four wheeler is four, the said magnets are to be placed in such a way that magnet should not touch the road at the same time it should attract nail or pointed steel materials from the road.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. –



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-083

A White Board Marker Pen For Smooth Writing On Inclined And Vertical Surfaces

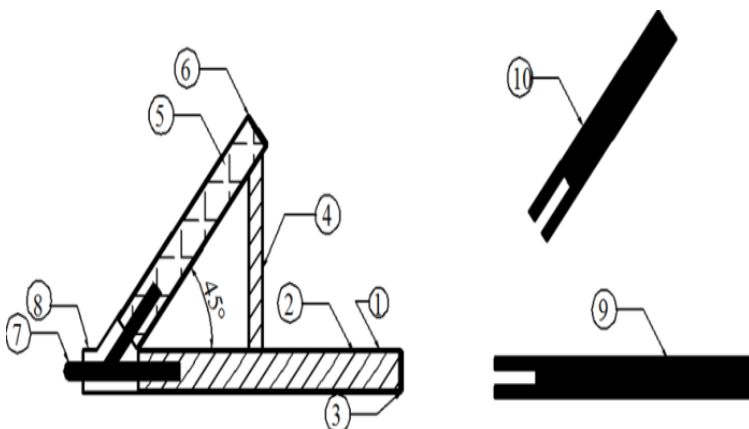
Harish Umashankar Tiwari¹, Amruta Harish Tiwari²

¹Prof. & Principal, PimpriChinchwad College of Engineering & Research, Ravet, Pune 412101, (MS) India, harish.tiwari@pccoepune.org.

ABSTRACT-

A white board marker pen is designed for writing on inclined and vertical planes or surfaces, the said pen has an additional ink storage space attached to the pen, and the said additional storage for ink is inclined when pen is horizontal. The ink is stored in inclined storage in conventionally used pad or refill, the said refill keeps on supplying ink when pen is writing on inclined or vertical surfaces, the said attachment is an alteration in a conventional whiteboard marker pen as shown in figure in complete specification section, the said refill is in addition to the main refill used in a conventional pen, when the said pen is writing on vertical surface the supply of ink from main refill is difficult as it will be against gravity, the supply of ink is in such case from inclined refill, the inclined storage space is attached to the body of a conventional pen in such a way that it improves the grip of the pen, the said pen will cost 20 to 30 % more than a conventional marker pen, the said pen gives continue and smooth writing on horizontal, inclined or vertical surfaces.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. –



CIPCIS 2019 : P-084

A Water Cooling System For Two Wheelers Using Engine Exhaust Heat

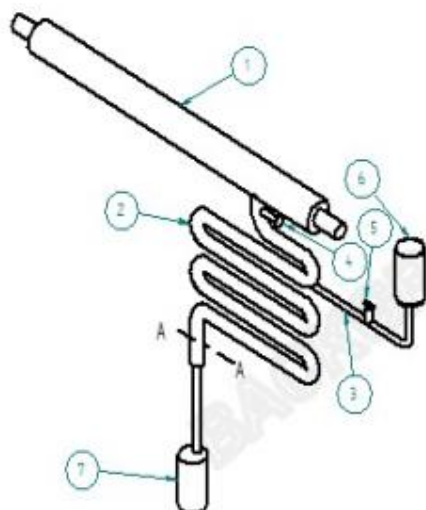
Harish Umashankar Tiwari¹, Amruta Harish Tiwari²

¹Prof. & Principal, PimpriChinchwad College of Engineering & Research, Ravet, Pune 412101, (MS) India, harish.tiwari@pccoe pune.org.

ABSTRACT-

A system for cooling of water on a two wheeler using engine exhaust heat, said system comprising: input means adapted to receive exhaust gas from said engine; adsorber adapted to receive exhaust gas from said input means, said receiving being controlled by a first valve, said adsorber being a shell and tube heat exchanger such that said exhaust gas passes through said tubes and refrigerant adapted to be compressed in said shell of said heat exchanger, wherein, adsorbing material of said adsorber is heated upon receipt of said exhaust gas thereby making refrigerant to come out of said adsorbing material; air cooled condenser coil (evaporator cum condenser coil) placed in series with said adsorber; the condenser coil is a double tube heat exchanger coil which act as a condenser as well as an evaporator; the refrigerant is cooled and becomes liquid in the condenser coil: the said condenser cum evaporator coil is connected to the adsorber through a control valve; said control valve allows the flow of refrigerant to condenser coil in heating mode; the said control valve is opened after some time and allows flow of refrigerant back to adsorber; the said flow back of refrigerant to condenser coil produces refrigeration; during said refrigeration water is flown through inner tube for cooling; the said water can be used as cold water for drinking purpose.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. –



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-085

A System For Iron And Fabric

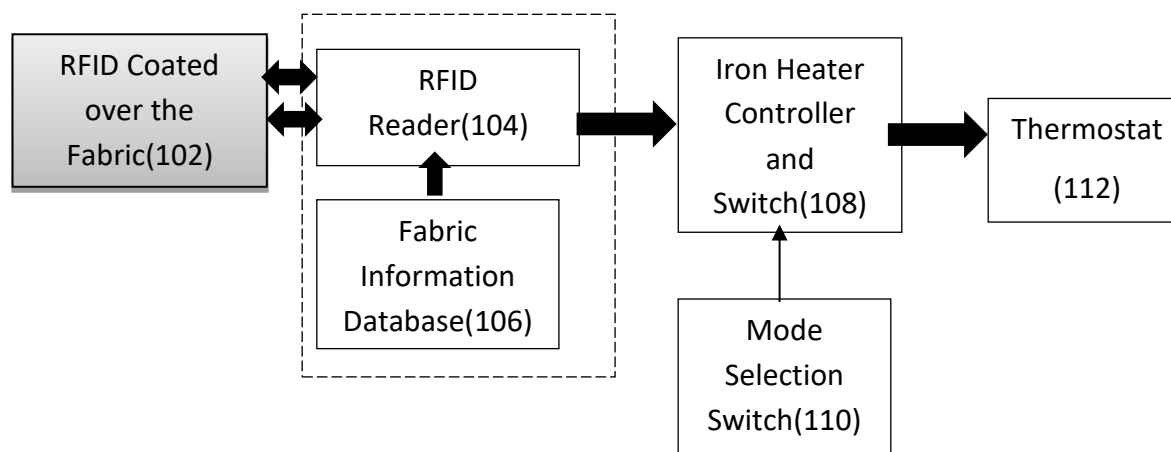
Harish Umashankar Tiwari¹, Amruta Harish Tiwari²

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ABSTRACT-

Disclosed herein is an Autonomous Iron system (300) iron and ironing of fabric. The system (300) includes means determination and or identifications of the fabric material; and means for to set the required temperature to press a fabric smoothly. The ironing can be done efficiently as and after scanning the RFID sticker printed over the fabric and scanned RFID code will get matched with the fabric database to set the effective temperature handled by the cloth during the press with automatic decision of whether steam is required or not. The manual mode is also provided with a digital dial and a knob arrangement which is used to set the required temperature of the Iron.

DIAGRAM / SCHEMATIC -



IPR APPLICATION / PATENT NO. –



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-086

Shaving Razor With Shaving Foam Gel Inside The Handle

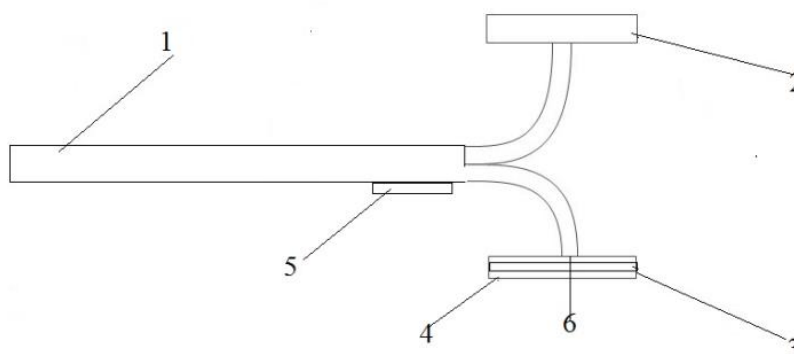
Harish Umashankar Tiwari¹, Amruta Harish Tiwari²

¹Prof. & Principal, PimpriChinchwad College of Engineering & Research, Ravet, Pune 412101, (MS) India, harish.tiwari@pccoepune.org.

ABSTRACT-

A shaving razor with a provision for containing pressurized shaving foam producing liquid is designed, the said razor have a cavity in the handle for containing pressurized liquid, the pressurized liquid is a shaving foam producing liquid, the said liquid flow is controlled by operating a knob, the said knob is fitted on the handle, the said shaving foam is sprayed over a pad, the said pad is fitted behind the blade of the razor, the said pad is fitted with a set of smooth bristles, the said pad is having an opening for flowing the shaving foam at the base of the pad, the said razor blade system contains around 8 to 10 ml pressurized shaving foam liquid.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. –



CIPCIS 2019 : P-0087

Vibration Absorber System For Controlling/ Minimizing Vibrations

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ABSTRACT-

A vibration absorber system, coupled with a vibrating component, comprises a magneto rheological element. The magnetorheological element comprises a magneto rheological elastomer block, and at least one shape memory alloy element embedded in the magneto rheological elastomer block, wherein the shape memory alloy element is in electrical communication with a power source. The vibration absorber system further comprises an electromagnet disposed proximal to the magneto rheological element such that the magneto rheological element is positioned operatively between the poles of the electromagnet. The stiffness of the magnetorheological element can be varied by the application of at least one of a magnetic field via the electromagnet and increasing the temperature of the shape memory alloy element by an application of voltage using said power source.

DIAGRAM / SCHEMATIC –

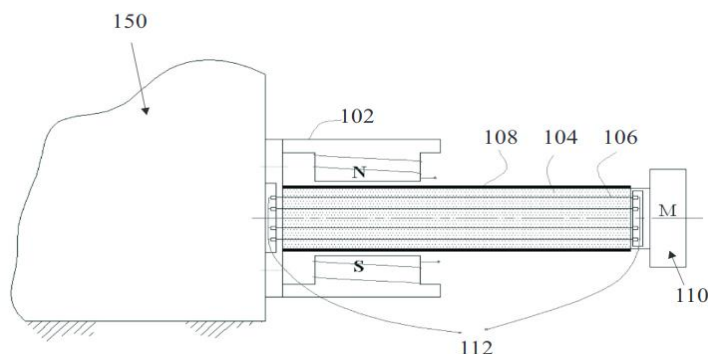


FIGURE 1

IPR APPLICATION / PATENT NO. – 2605/MUM/2014



CIPICIS 2019 : P-088

Adjustable And Automated Treatment Platform Of Dynamic Back-Bending-Bench For Physiotherapeutic Treatment

DIVEKARDHANAJAY DATTATRAY

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DESHPANDE PRASHANTPRALHADDR

House No. 1394/9, Near Adarsh Balak Mandir School, Urun, Islampur - 415 409; Taluka:Walwa, District:Sangli, Maharashtra State, India

BHAGWAT SANDEEP LAXMAN

82, Vishal Nagar, Jule Solapur, Maharashtra State, India

ABSTRACT-

The invention relates to new dynamic back-bending- bench to be used in physiotherapeutic treatment of patients having spinal disorders providing incremental passive spinal extension in human body and also used in physiotherapeutic exercise done by healthy individuals for maintain spinal flexibility thereof. Owing to the fixed structure of the existing back-bending-bench, assistance of other persons is required by the therapist to provide small incremental extensions needed by the physically impaired patient, which cannot be done by the patient himself. This makes the treatment more laborious and expensive. The present invention of new dynamic backbending-bench does not have one fixed structure. Instead, different shapes of top surface-profiles giving incremental modifications can be created by using plurality of mechanical linkages, flats, platforms, and horizontal and vertical linear actuators. Thus the physically impaired patient can be easily provided with small incremental extensions to the back-bone of the patient, by the physiotherapist.

DIAGRAM / SCHEMATIC –

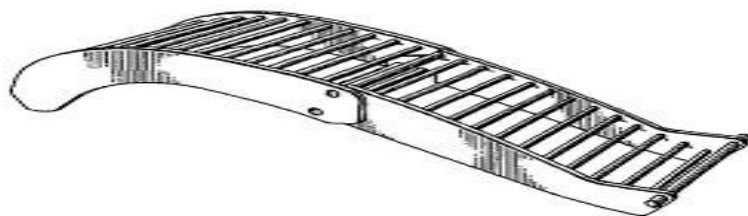


Figure 1

IPR APPLICATION / PATENT NO. – 265/MUM/2013



CIPCIS 2019 : P-089

An Apparatus For Heart Blockage Diagnosis

A.B Kakade

BajiNivas, Chahur, Post-Krishna Nagar, Tal.& Dist. Satara, Maharashtra, India, PIN- 415 003

B.S . Shete

Sonai, 4/2, Sankalp Colony, Ajantha Chowk, near samrat motors, Godoli, Tal. & Dist. Satara, Maharashtra, India, PIN-415 004

Shailesh Kuthe

255/1, Subhash ward, Salai (Bujruk), At Post-Khapa, Taluka-Mohadi, Dist-Bhandara-441 912, Maharashtra, India.

Manoj Lonkar

1335, Lonkar mala, at post-Supa, Taluka-Baramati, Dist-Pune-412 204, Maharashtra, India.

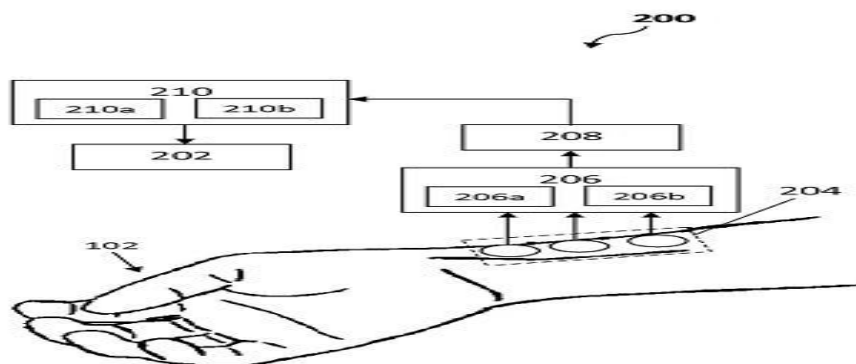
Kulkarni Sourabh Shekhar

'Ramashailya', Near Nirmala Hall, Mahadevnagar, Islampur, Tal.Walwa, Dist. Sangli. Maharashtra, India, PIN- 415409.

ABSTRACT-

The present disclosure envisages an apparatus for diagnosing cardiac related abnormalities in a patient. The apparatus comprises a repository that stores discrete pulse waveforms with identified features and threshold values related to a patient suffering from at least one cardiac related abnormality including a cardiac artery blockage. A plurality of sensors are placed on the radial artery of the patient to sense pulses of the patient, and generate corresponding pulse signals. These pulse signals are conditioned and converted into digital signals. The digital signals are then analyzed to detect a plurality of features and their values which are then compared with the features and threshold values stored in the repository to diagnose and determine at least one cardiac related abnormality

DIAGRAM SCHEMATIC –



IPRAPPLICATION/ PATENT NO. – 3211/MUM/2014



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCI5 2019)

CIPCI5 2019 : P-090

Electronic Geometric Compasses

S.R. JAGTAP

Road No. 7, Krantisinh Nana Patil Nagar, Islampur, Dist: Sangli-415409, Maharashtra, India

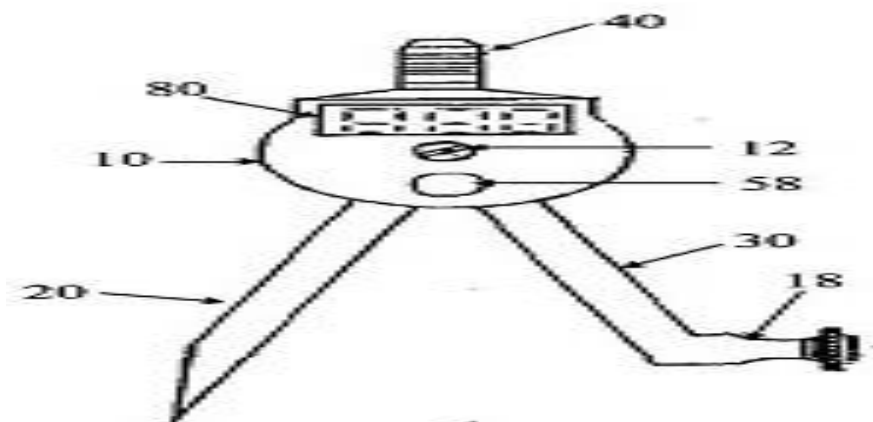
RAJARAMBAPU INSTITUTE OF TECHNOLOGY

Rajaramnagar, Islampur, Dist. Sangli - 415414, Maharashtra, India

ABSTRACT-

An electronic geometric compass comprises a housing, a first and a second arm having an first operative end portion and a second operative end portion with a first and a second rotatable member having a pivot opening for receiving shafts are disposed at the second operative end portion of the first and second arms. Further, a sensor, a convertor, a processor and a display are disposed in the housing, wherein the sensor measures angular displacement of at least one of the first and second rotatable members, the convertor the measured angular displacement into a digital format and the processor receives, stores and processes the digital data into the user-defined format, which may be one of a length between the point tips of the first and second arms and angle between the first and second arms. The display unit displays the processed digitized angular displacement data in the user-defined format.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 3363/MUM/2013



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-091

Hinge System

A.C. ATTAR

'Hariyali' Sanmitra Housing Society, At.Po.Kasegaon Tal. Walwa Dist. Sangli, Maharashtra, India, Pin 415404

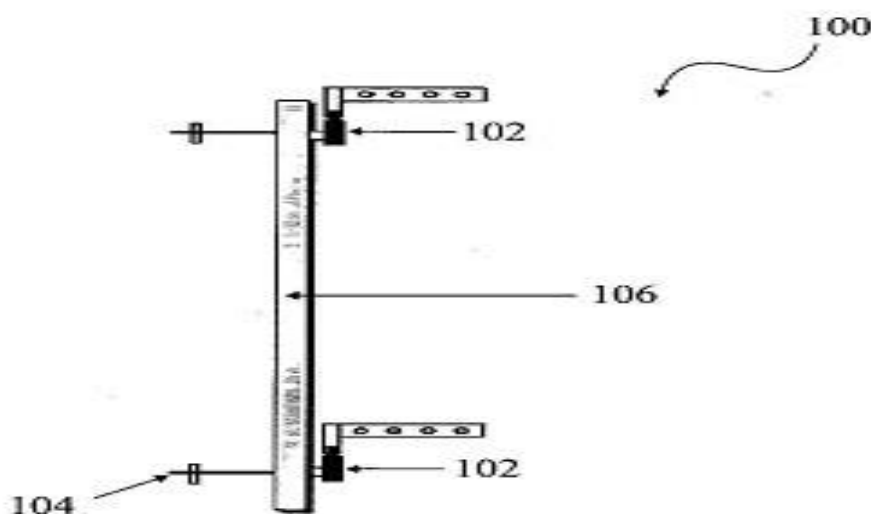
RAJARAMBAPU INSTITUTE OF TECHNOLOGY

Rajaramnagar, Islampur, Dist. Sangli - 415414, Maharashtra, India

ABSTRACT-

A hinge system includes: ? a longitudinal element secured to a structure; and ? at least one hinge assembly disposed on the longitudinal element; o the hinge assembly comprising: ? first and second barrels having a longitudinally outwardly extending pintle element and a longitudinally inwardly extending bore formed on first operative ends thereof; ? first and second elongate engaging elements connected to first and second barrels at first ends thereof and connected to the longitudinal element at second ends thereof; wherein the longitudinally inwardly extending bore and the longitudinally outwardly extending pintle element are complementary to each other and the longitudinally inwardly extending bore rotatably and removably receives at least a portion of a corresponding longitudinally outwardly extending pintle element to facilitate an angular displacement between the first and second barrels to facilitate angular displacement of the wing with respect to the structure.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 3364/MUM/2013



Pimpri Chinchwad Education Trust's
PIMPRI CHINCHWAD COLLEGE OF ENGINEERING AND RESEARCH
Laxminagar, Ravet, Pune-412101 (Maharashtra)

CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)



CIPCIS 2019 : P-092

Bike Handle Gripper integrated with Phase Change Material & Sweat absorber

**Nishandar Sidhanath Vishvanah, Sayyad Mazhar Maulaali, Phalke Prasanna Shinde,
Bagal Swapnil Vare Pankaj**

Zeal College of Engineering & Research, Sr.No.39, Narhe, Pune -411041

ABSTRACT-

This invention relates to the multifunctional comfort enhancement of Bike Handle Gripper which is integrated with Phase change material & sweat absorber. Due to combination of the Phase change material & absorber gripper adequate heat & sweat problem. Alternative additions of the Phase change material & absorber it resolves most of the problem & also it becomes thermally more comfortable. This device can also be more useful in domestic as well as industrial application after some design modifications.

IPR Acknowledgement / Grant Certificate – 201921011080



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-093

Automatic Agricultural Chemical Sprayer

AWATI JAYASHREE SUDHIR

'Deccan' Molasis Compound, At Post-Karandwadi, Taluka-Walwa, District-Sangli, Maharashtra 416301

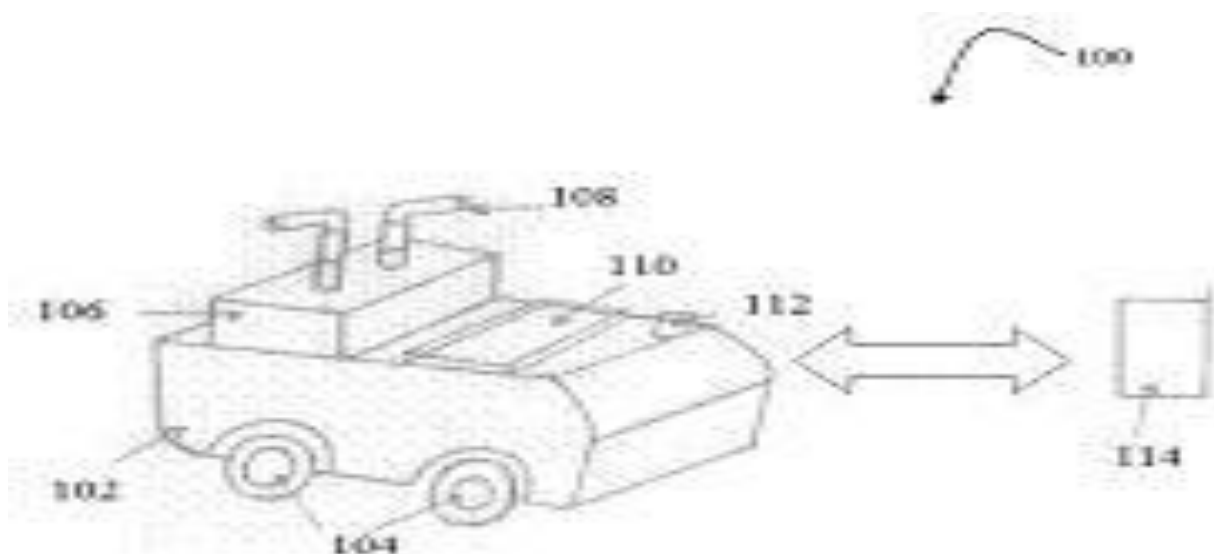
RAJARAMBAPU INSTITUTE OF TECHNOLOGY

Rajaramnagar, Islampur, Distt. Sangli, 415414, Maharashtra, India

ABSTRACT-

A spraying system includes a vehicle, a tank, a pump, at least one sprinkler, at least one sensors and a control unit. The tank is mounted on chassis of the vehicle and hold fluid to be sprayed. The pump pressurizes the fluid held inside the tank. The sprinkler is disposed on the tank and in fluid communication with interior of the tank. The at least one sprinkler adjustably sprays fluid at different heights. The least one sensors are configured on the vehicle and detects parameters associated with the vehicle, the tank, the pump, the sprinkler and other external conditions. The control unit is functionally coupled to various elements of the spraying system and the sensors and interacts with a remote control via a wireless communication network for facilitating remotely controlling movement of the vehicle and operation of the pump and the least one sprinkler.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 3867/MUM/2013



CIPCIS 2019 : P-094

Tracking System For Vehicles With People Flow Management

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M.S. Kumbhar

A/P - Borgaon, Tal-Walwa Dist - Sangli-Maharashtra 415413

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ABSTRACT-

The present disclosure discloses a computer implemented vehicle tracking and passenger flow management system. The system utilizes a network having integrated communication with the inter-connected micro-controllers, readers/sensors, and display relevant information a display units associated with a vehicle unit, a vehicle-stop unit and a vehicle-station server, cooperating with each other for retrieving information related to a vehicle unit such as vehicle arrival time, distance travelled by the vehicle, distance yet to be covered by the vehicle and the like. Further, conveying the aforementioned information to the interested parties or passengers. The overall function of the proposed system is to improve decision making, often in real time thereby improving operation of the entire transport system.

DIAGRAM / SCHEMATIC –

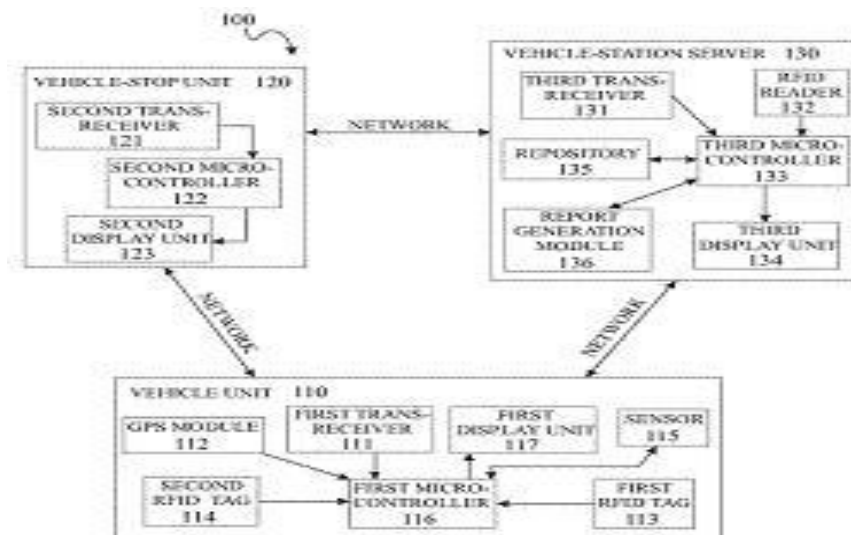
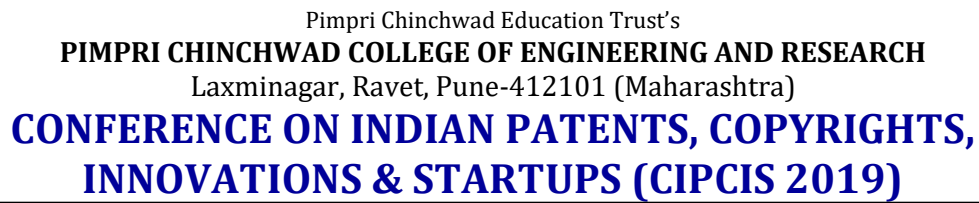


FIGURE 1

IPR APPLICATION / PATENT NO. – 4087/MUM/2013



CIPCIS 2019 : P-095

Electronic Baby Cradle

M.S. Patil

Mauli, 1047, Buda Scheme, Sahyadrinagar, Belgaum, Karnataka, India

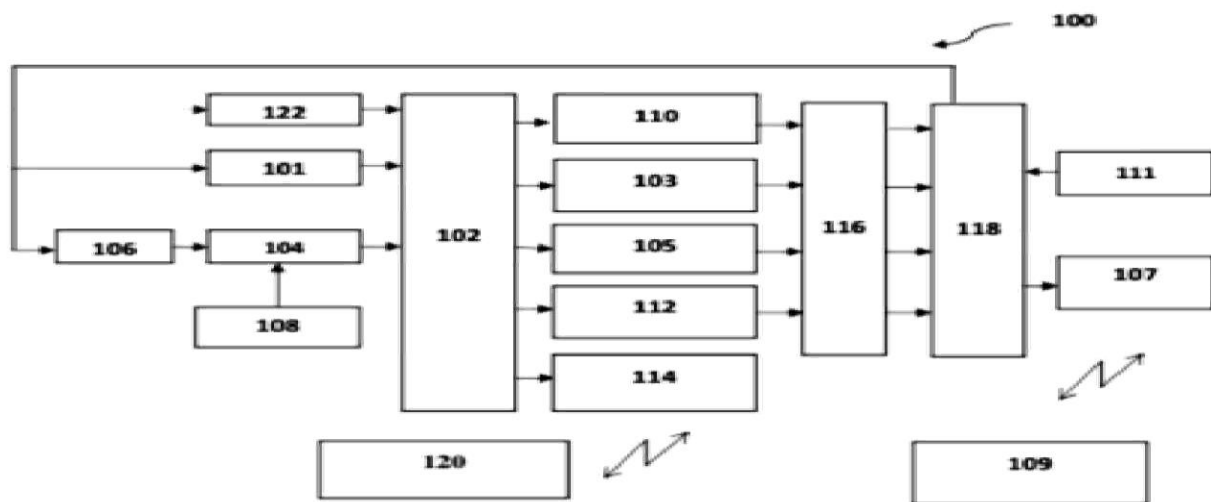
RAJARAMBAPU INSTITUTE OF TECHNOLOGY

Rajaramnagar, Islampur, Sangli-415414, Maharashtra, India

ABSTRACT-

An electronic baby cradle is disclosed and includes a cradle, an actuating mechanism, a power source, a proximity sensor, a voice recorder and play circuit device, an audio sensor, a humidity sensor, a posture sensor, a signal amplifier, a controller device, a camera and a display unit. The proximity sensor detects the presence of the baby in the cradle. The voice recorder and play circuit device produces audible voice when the baby is crying. The controller device either actuates the actuating mechanism or generates an alarm. The humidity sensor signals for generating the alarm. The posture sensor signals for generating the alarm while the baby is in at least one of a sitting posture and a standing posture. The audio sensor signals for actuation of the actuating mechanism. The camera enables capturing visuals of the baby for enabling remote monitoring of the baby through the display unit.

DIAGRAM / SCHEMATIC



IPR APPLICATION / PATENT NO. – 91/MUM/2014



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-096

A Concentrated Solar Pv Thermal Energy System

More Supriya Sagar

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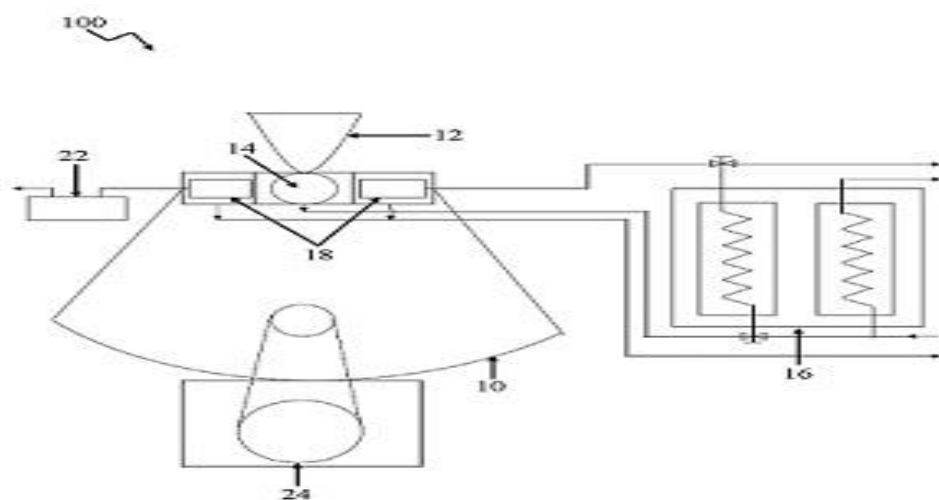
More Sagar Eknath

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ABSTRACT-

The present disclosure relates to an integrated solar system. The integrated solar system comprises a primary mirror including a parabolic reflective surface and at least one flat reflective surface, a secondary mirror, a thermal energy storage system, and at least one photo-voltaic cell. The primary mirror is adapted to receive and reflect electromagnetic radiations. The secondary mirror is adapted to receive the electromagnetic radiations reflected from the parabolic reflective surface, and concentrate the electromagnetic radiations on an absorber tube, thereby heating a fluid circulated in the absorber tube to obtain a heated fluid. The thermal energy storage system is adapted to receive the heated fluid and store the thermal energy contained in the heated fluid therewithin. The photo-voltaic cell receives the electromagnetic radiations reflected from the flat reflective surface and converts the received light energy into a DC signal.

DIAGRAM / SCHEMATIC



IPR APPLICATION / PATENT NO. -1459/MUM/2015



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-097

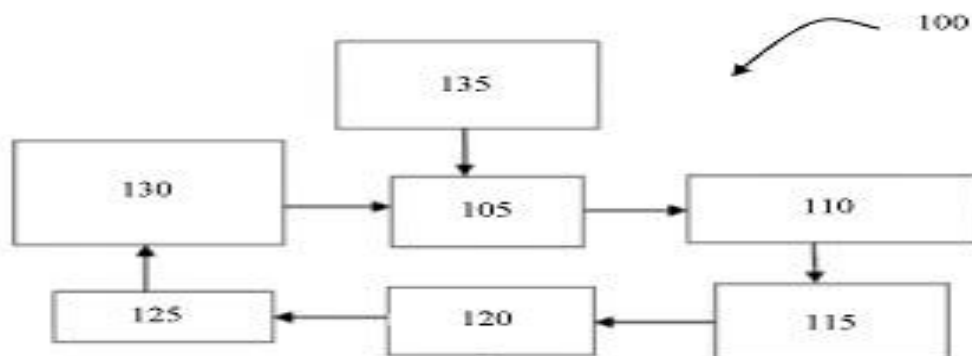
Automatic Bhel Vending Machine

Anand Kakade

ABSTRACT-

The present disclosure envisages a weed removal system for removing weed from the roots. The weed removal system comprises a radio-frequency generator, an antenna, and a detecting and controlling unit. The radio-frequency generator of the weed removal system is configured to generate high power radio-frequency signals. The antenna of the weed removal system is coupled with the radio-frequency generator and is configured to transmit the generated high-power radio-frequency signals toward the roots of the weed. The detecting and controlling unit of the weed removal system is configured to monitor the position of the antenna to generate position signals and further configured to control the generation of high power radio-frequency signals by the radio-frequency generator based on the position signals. The weed removal system further includes a high voltage power source which is configured to provide high voltage power to the radio-frequency generator.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 1453/MUM/2015



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-098

A Cutter Assembly For A Crop Harvester

Salunkhe Suresh Rao Anandrao

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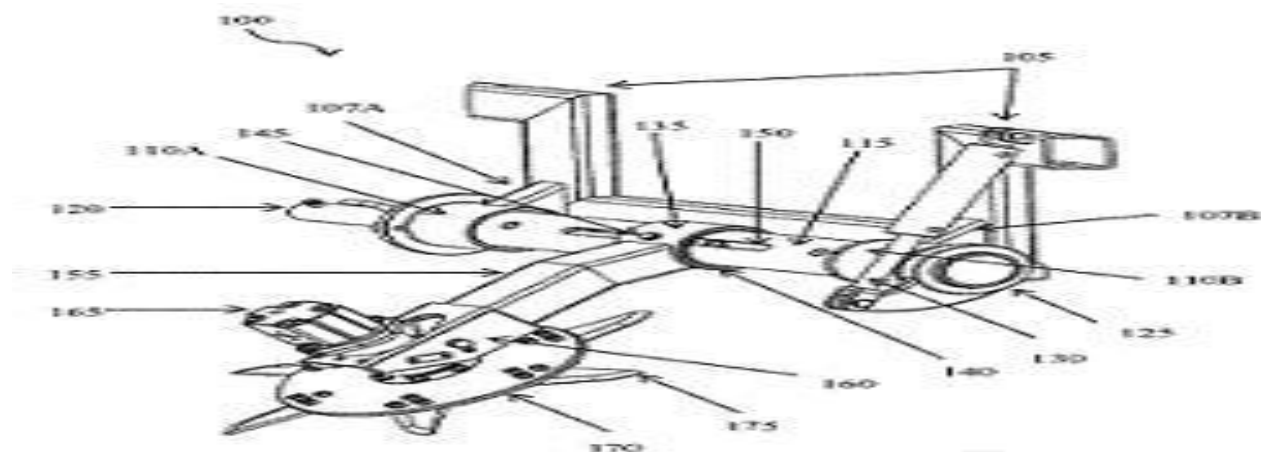
Salunkhe, Sonalkumar Suresh Rao

A/P-Bahe. Works: Plot No.-B-12, M.I.D.C., Islampur – 415409, Tal.-Walwa, Dist – Sangli, Maharashtra, India

ABSTRACT-

A cutting assembly for a crop harvester, wherein the cutting assembly comprises a cutting wheel assembly consisting of at least one cutting wheel having at least one cutting blade, a bracket fitted on the cutting wheel assembly, a power source fitted within the bracket for driving the cutting wheel(s), a support arm, a guide bush, a guide pipe that guides the reciprocation motion of guide bush in a controlled manner, a guide bush pin fitted within the guide bush, and a slit on the body of the guide pipe for accommodating the guide bush pin for restricting the guided reciprocating motion. The cutting assembly further comprises a displacing mechanism for angular and lateral displacement of the guide pipe and cutting wheel assembly, and a control mechanism for controlling the angular and lateral displacement of the guide pipe and cutting wheel assembly.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 3596/MUM/2015



CIPCIS 2019 : P-099

A Bundling System And Method

Salunkhe Sureshrao Anandrao

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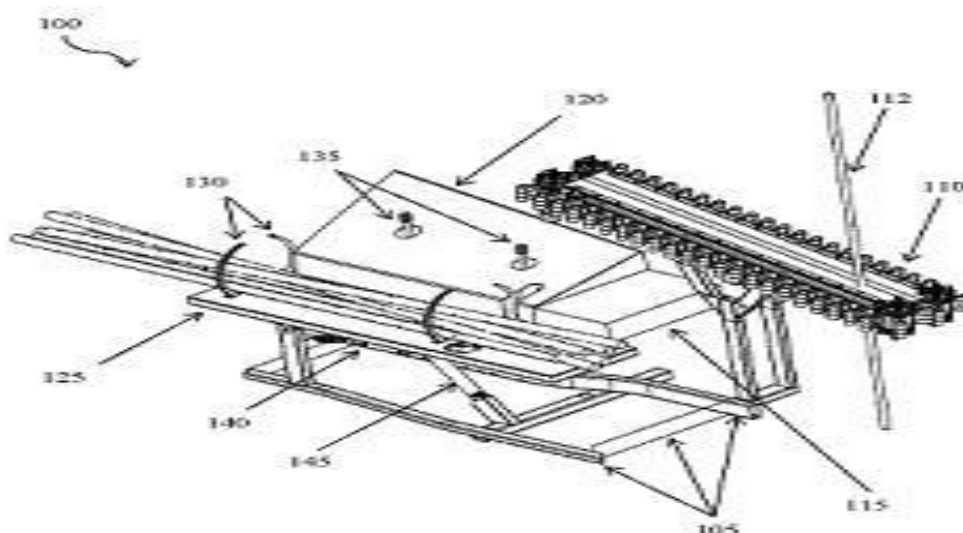
Salunkhe Sonalkumar Sureshrao

A/P-Bahe. Works: Plot No.-B-12, M.I.D.C., Islampur – 415409, Tal.-Walwa, Dist –Sangli, Maharashtra, India

ABSTRACT-

A bundling system and method for bundling articles, wherein the bundling system and method comprises a conveying mechanism for conveying articles to a bundling station, a bundling platform that is configured to receive the articles from the bundling station, a load cell configured to measure the weight of the articles that are received on the bundling platform, a first actuator actuating at least one grabber that is configured to bundle the weighed articles together and a second actuator actuating at least one buffer stopper provided between the bundling station and the bundling platform, configured to restrict the reception of articles on the bundling platform. The bundling system and method further comprises a tying mechanism to tie the bundled articles held together by the grabber(s), and an unloading mechanism configured to unload the tied articles from the bundling platform.

DIAGRAM / SCHEMATIC -



IPR APPLICATION / PATENT NO. – 3597/MUM/2015



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-100

A Conveyor System

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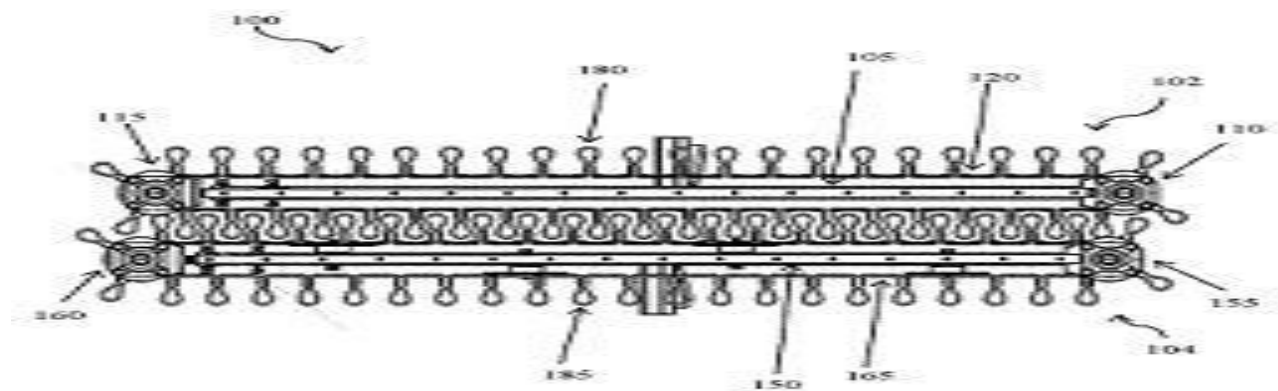
Salunkhe Sonalkumar Suresh Rao

A/P-Bahe. Works: Plot No.-B-12, M.I.D.C., Islampur – 415409, Tal.-Walwa, Dist –Sangli, Maharashtra, India

ABSTRACT-

A conveyor system for conveying articles from a first location to a second location, wherein the conveyor system comprises a first endless belt and a second endless belt placed adjacently to the first endless belt such that the first endless belt and the second endless belt are configured to rotate in opposite directions. The conveyor system further comprises at least one resilient holding fixture extending from the first endless belt and the second endless belt, wherein the resilient holding fixture(s) of the first and second endless belt have complementary configuration and are configured to mesh with each other. A plurality of independent segments on each of the resilient holding fixture(s) is formed by cutting or dividing each of the resilient holding fixtures(s). The resilient holding fixture(s) of the conveyor system is in the form of a loop or a block or a plate.

DIAGRAM / SCHEMATIC -



IPR APPLICATION / PATENT NO. – 3498/MUM/2015



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-101

Scraping Apparatus

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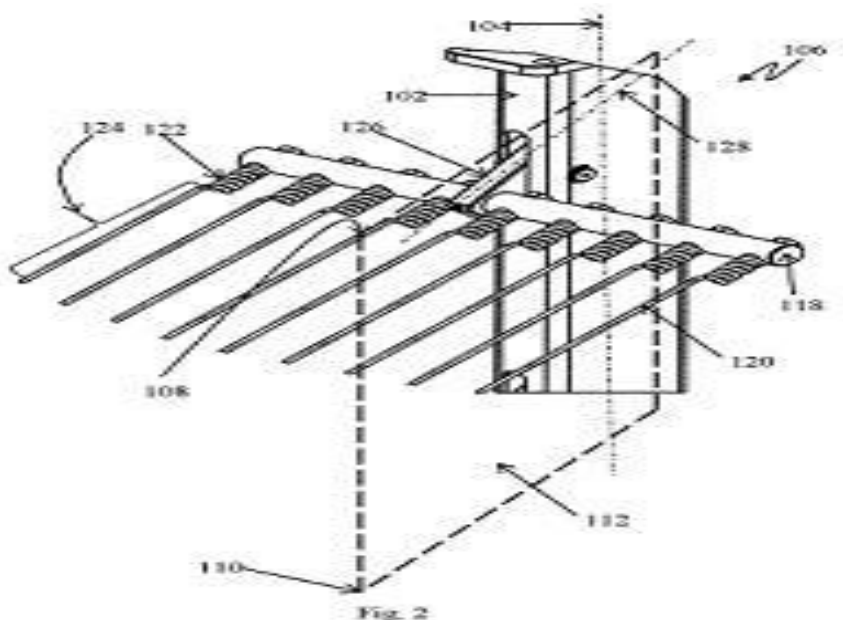
Salunkhe Sonalkumar Suresh Rao

A/P-Bahe. Works: Plot No.-B-12, M.I.D.C., Islampur – 415409, Tal.-Walwa, Dist – Sangli, Maharashtra, India

ABSTRACT-

The present disclosure envisages a scraping apparatus that comprises a support structure, and a plurality of brushes pivotably mounted on the support structure such that the plurality of brushes is configured to perform an oscillatory motion along a longitudinal axis of the support structure. The apparatus further comprises an actuator operatively coupled with the plurality of brushes to facilitate the oscillatory motion of the plurality of brushes, wherein the oscillatory motion of the plurality of brushes facilitates the cleaning of a component

DIAGRAM / SCHEMATIC -



IPR APPLICATION / PATENT NO. – 3599/MUM/2015



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-102

Trimming Mechanism

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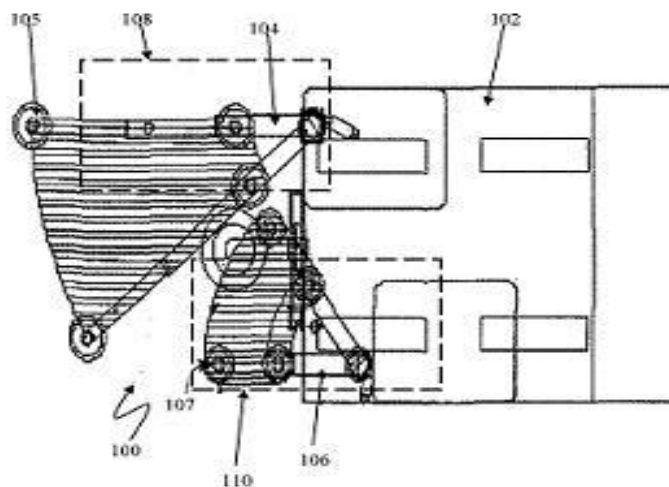
Salunkhe Sonalkumar Suresh Rao

A/P-Bahe. Works: Plot No.-B-12, M.I.D.C., Islampur – 415409, Tal.-Walwa, Dist –Sangli, Maharashtra, India

ABSTRACT-

The present disclosure envisages a vehicle mounted trimming mechanism. The trimming mechanism comprises at least one cutter arm mounted on the vehicle, wherein the cutter arm is configured to pivotally move in a plane, and wherein the cutter arm has a telescopic configuration. The trimming mechanism further comprises at least one cutting element mounted on a free end of the cutter arm. Fig.1

DIAGRAM/SCHEMATIC –



IPR APPLICATION / PATENT NO. – 4056/MUM/2015



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-103

Improved Sugarcane Harvester And Method Of Using The Same

Salunkhe Suresh Rao Anandrao

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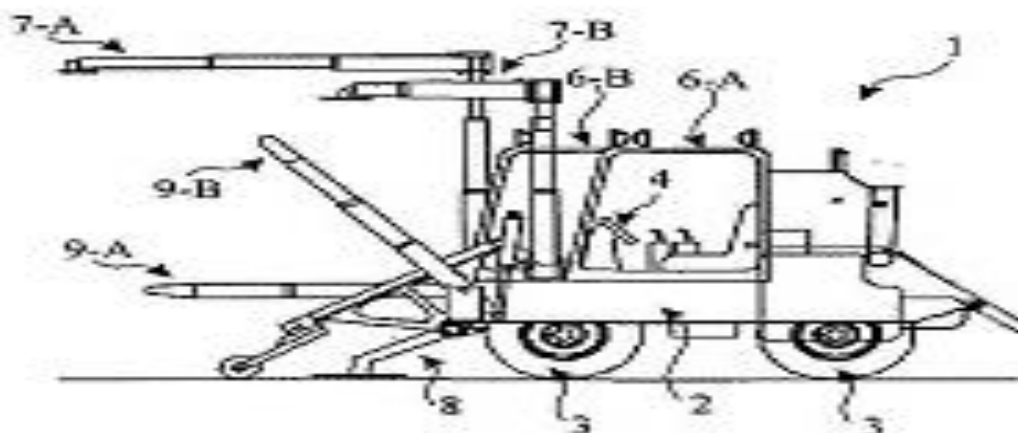
Salunkhe Sonalkumar Suresh Rao

A/P-Bahe. Works: Plot No.-B-12, M.I.D.C., Islampur – 415409, Tal.-Walwa, Dist –Sangli, Maharashtra, India

ABSTRACT-

This invention relates to a machine for harvesting crop of vertically-elongated, stalk-type such as sugarcane. As the present large size harvester machines are designed to be efficiently used in large size sugarcane fields and are useful for base-cutting of sugarcane stalks of plantations only of one particular row width, they are not useful for countries where different framers use different row-width in there sugarcane fields and farm - sizes are small. Similarly, where same operator carries out top -chopping and base-cutting work, farmers face serial difficulties due to lack of proper chopping and cutting work. Also, in countries where collecting , bundling and cane-bundle-binding works are done before sugarcane stalks are transported to sugar mills, farmer face serious difficulties due to lack of sufficient available labor and hence mechanizations if these operations is very essential. The present inventions provides new inventive mechanisms to carry out all these operations in sugarcane fields of different row widths and hence is a boon to sugarcane-farmers of developing countries.

DIAGRAM/SCHEMATIC –



IPR APPLICATION / PATENT NO. – 1123/MUM/2011



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-104

System And Method For Detection Of Adulterated Milk

A.B.Kakade

At Chahur, Bajinivas, Post-Krishnanagar Taluka & District, Satara-415003.

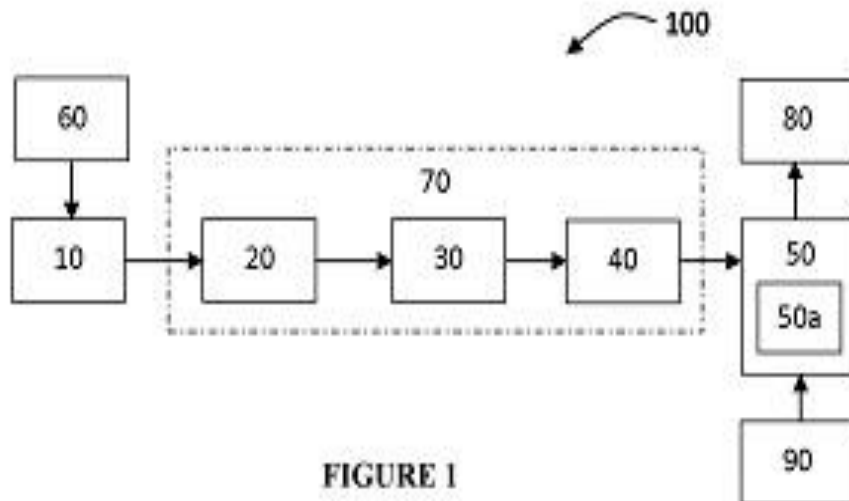
RAJARAMBAPU INSTITUTE OF TECHNOLOGY

Rajaramnagar, Islampur, Dist. Sangli 415414, Maharashtra, India

ABSTRACT-

A system and method for detecting adulteration in milk is envisaged. The system includes an AC source, a sensor, a signal processing module and a processor. The AC source provides an AC signal having a pre-determined voltage. The sensor receives the AC signal, and is configured to be immersed in a milk sample for detecting milk adulteration. The signal processing module includes an AC amplifier that receives AC signal across the immersed sensor and amplifies the received AC signal to obtain an amplified AC signal, a peak detector that receives the amplified AC signal and obtains a corresponding DC signal, and a buffer amplifier receives and amplifies the DC signal to obtain an amplified DC signal having a DC voltage. The processor receives this amplified DC signal, the DC voltage of which is compared with a predefined DC voltage by a comparator to detect adulteration in the milk sample.

DIAGRAM/SCHEMATIC –



IPR APPLICATION / PATENT NO. – 1455/MUM/2015



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-105

Material Handling System

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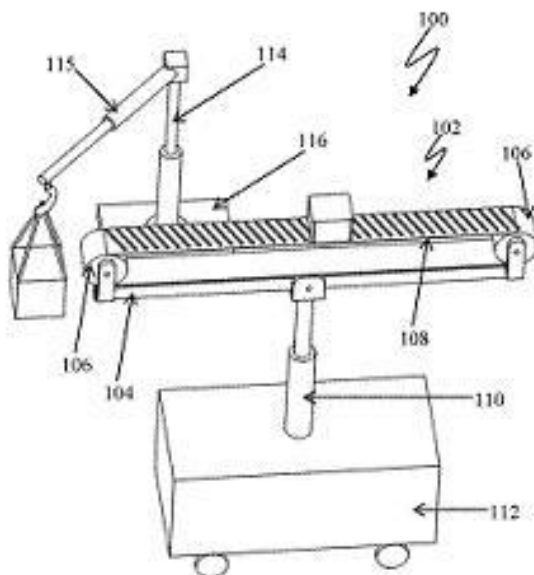
Deshpande Prashant Pralhad

House No.1394/9, Near Adarsh Balak Mandir School, Islampur - National 415409, Tal—Walwa, Dist.-Sangli, Maharashtra State, India.

ABSTRACT-

The present disclosure envisages a material handling system comprising a conveyor system for conveying items from a first location to a second location. The material handling system further comprises a crane operatively coupled with the conveyor system. The crane is displaceable along the length of the conveyor system, wherein the crane is configured to lift and place items on and from the conveyor system

DIAGRAM/SCHEMATIC –



IPR APPLICATION / PATENT NO. – 4056/MUM/2015



CIPCIS 2019 : P-106

System And Method For Fermentation Of Batter

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At Chahur, BajiNivas, Post_Krishnanagar, Taluka and District Satara -415 003, Maharashtra, India

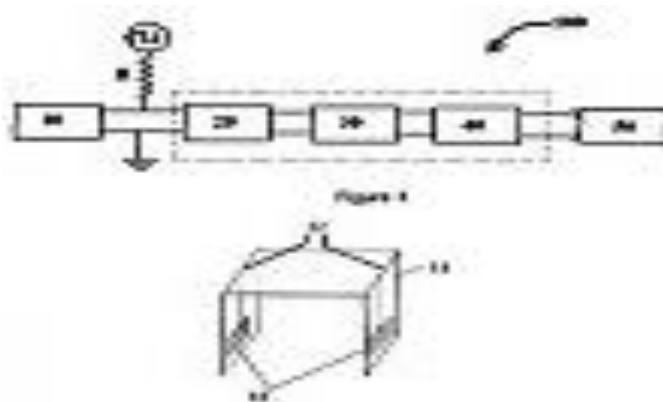
Rajarambapu Institute Of Technology

Rajaramnagar, Islampur, Dist. Sangli - 415414, Maharashtra, India.

ABSTRACT-

The present invention provides a system and method for fermentation of batter. Conventionally fermentation of batter for food products such as Dhokala, Idli, Dosa, Jalebi is done by manual means wherein it is not possible to control the fermentation process to desired value of tartness depending on climatic variations. The present invention provides a system and method to ferment batter required for food items in less time without affecting any nutritional values and by automatically monitoring and controlling the tartness level of the batter being fermented.

DIAGRAM/SCHEMATIC –



IPR APPLICATION / PATENT NO. – 201621033852



Pimpri Chinchwad Education Trust's
PIMPRI CHINCHWAD COLLEGE OF ENGINEERING AND RESEARCH
Laxminagar, Ravet, Pune-412101 (Maharashtra)

CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)



CIPCIS 2019 : P-107

Novel Indole Compounds

A. B. Thomas, G.S. More

ABSTRACT-

The present invention related to novel indole compounds and the salts thereof used for the treatment of cancer. The invention also relates to processes for preparing these compounds and their intermediates.

IPR APPLICATION / PATENT NO. – TEMP/E-1/21312/2018



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CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)



CIPCIS 2019 : P-108

Method For Preparing Highly Stable Anthocyanin

**Santosh Bhujbal, Sohan Chitlange,
Reshma V. Jadhav, Vijay Jadhav and Ashish Jain**

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Maharashtra, India. 020-27805292 / 020-27805293/ 020-27420261 / 020-27421549 Info.Pharmacy@Dypvp.Edu.In

ABSTRACT-

The present invention relates to a method for preparing highly stable anthocyanin where in stabilization of anthocyanin is carried out by co-pigmentation method using ferulic acid and the use of stable anthocyanin as food additive and colorants in various fields. The invention also relates to a method to enhance the thermal and color stability of anthocyanin pigment at higher temperature

IPR APPLICATION / PATENT NO. – 201821041712



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CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)



CIPCIS 2019 : P-109

A Novel Two Components Herbal Microparticulate Formulation For Diabetes Management

Santosh Bhujbal, Aditi Kulkarni

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ABSTRACT-

The present invention relates to a novel two components herbal microparticulate formulation for the management of Diabetes Mellitus, particularly the present invention related to a novel antidiabetic herbal formulation prepared using microparticulate drug delivery system with improved solubility and bioavailability

IPR APPLICATION / PATENT NO. – 201921045670



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Laxminagar, Ravet, Pune-412101 (Maharashtra)

CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)



CIPCIS 2019 : P-110

Vapour Shield Insect Repellent Composition And System Thereof

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ABSTRACT-

The present invention relates to a vapour shield insect repellent composition and system thereof, more particularly a sublimating vapour shield insect repellent composition comprising volatile non-toxic repellent substances along with other sublimable base material having a high degree of efficacy in repelling mosquitoes and other insects.

IPR APPLICATION / PATENT NO. – TEMP/E-2/2143/2019/MUM



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CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-111

Medicated Skin Regenerative Dusting Powder Hydrogel For Wound Healing

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ABSTRACT-

The formulation is a dusting powder. This dusting powder is made-up of cross-linked chitosan and gelatin. It contains azithromycin and lidocain medicament. This dusting powder particle size is kept below 5 microns. These particles stimulate clotting mechanism and get entangled in fibrin during clotting and form an instant layer over wound. When applied on the wound, this formulation absorbs the wound exudes and form hydrogel. Hydrogel slowly releases antibiotic which kills bacterial infections and lidocain stops pain. Hydrogel, in addition to medicament release, inhibit growth of fibroblast cells and avoid scar tissue formation. The gelatin part get dissolved in body fluids due to action of lysozyme and generate 3D porous scaffolds where skin cells migrate and grow, thus healing the wound faster. Chitosan being mucoadhesive remain adhered to mucosal surface of wound, thus supporting one time application of the formulation.

IPR APPLICATION / PATENT NO. – TEMP/E-1/21751/2018-MUM



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-112

Advance Rain Water Utilization Using Digital Control System

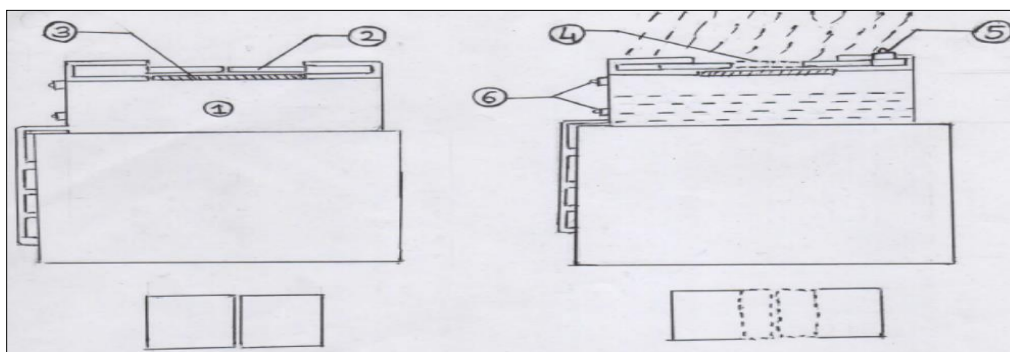
Aditya Sudhir Yadav

Department of Mechanical Engg., PCCOER, Ravet, (MS) India

ABSTRACT-

A system which makes it easy to utilize and store rain water in the tanks of the building, a said system uses combination of automatic opening and closing lid, filters, sensors: water level sensor, filter quality sensor, rain water sensor, and a digital display with LED indicators. The said system consist of automatic opening and closing of lid is controlled by rain water sensor the lid is open till maximum water level is achieve further lid will closed avoid overfilling. The said filter is to be installed in between lid and tank, filter plays vital role to purify water and avoid unwanted foreign particles. The said digital display installed in filter will glow GREEN LED when filter is safe and will glow RED LED when filter has to change.

DIAGRAM / SCHEMATIC –



1 : Water Storage tank on building, 2 : Lid (closed, 3 : Layer of filters, 4 : Lid (open),
5 : Rain water sensor, 6 : Water level sensors

IPR APPLICATION / PATENT NO. – 201621027009



CIPCIS 2019 : P-113

The System Which Separates Steam And Water From Moist Steam

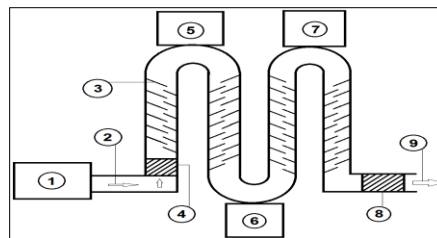
Indrajeet Rajendra Khandait

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ABSTRACT-

For stamping, A system not only separates the water and steam from the moist steam but also converts collected moisture again into the steam, said system uses metallic pipe, heat suppliers and insulating materials, insulating materials are attached at the starting and ending point of the metallic pipe so that there will be no heat transfer in between pipe and the other components of the system, circular metallic pipe consists if zig-zag arrangement in the middle so that when the moist steam gets pass through it, moisture gets stuck on the surface of the pipe and due to lower density of the steam, steam gets passed through the pipe, heat suppliers are attached to the metallic pipe so that to maintain the temprature of the pipe in between 140-150 degree celcius because when the moisture gets stuck on to the suface of the pipe, due to higher temprature of the metal pipe, moisture gets again converted into to the steam, Installing this system will make nominal increment in the cost of the whole structure.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 201621027008



CIPCIS 2019 : P-114

Laser Assembly Used For Surveyor's Tripod Centering

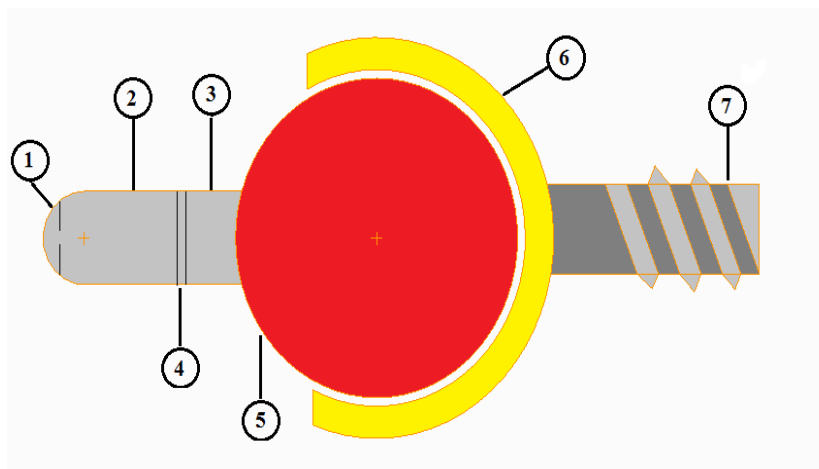
Onkar Anandkumar Indlkar and Akshay Kirit Kacha

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ABSTRACT-

An apparatus is set forth for providing vertical alignment and indication of a fixture positioning with relative to a ground reference point, wherein the apparatus includes a laser emitting diode mounted with axial ball and socket and the socket is fixed with tripod stand. The laser member is fixed with ball to focus a laser beam on the ground surface. an laser emitting diode situated in cylindrically shaped compartment being battery operated. The socket is threadably connected to the bridge screw (tripod head) and has an aperture through which the laser beam is emitted wherein the beam is aligned a reference position on the ground, with a fixture target point on the ground. Vertical alignment is provided by the use of laser beam directed from the laser diode through the objective and focusing lens respectively regardless of the relative planer relationship of the ground surface. An on/off switch is provided along with a rechargeable battery.

DIAGRAM/SCHEMATIC –



IPR APPLICATION / PATENT NO. – 201621027266



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-115

The Rotatory Jaw Chuck

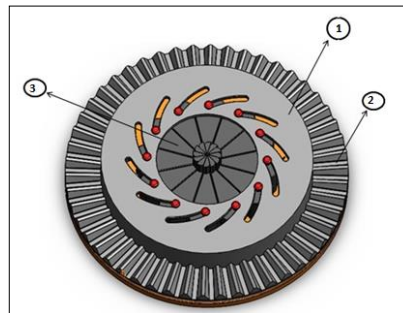
Jay Nagnath Itkal

Department of Mechanical Engg., PCCOER, Ravet, (MS) India

ABSTRACT-

The system is for preventing misalignment of work piece due to irregular movement of jaw. The chuck is suitable for holding round, square or hexagonal & other similar shaped work piece & the job is centre automatically & quickly. The accuracy is obtained by changing the no of jaw of chuck to alignment the work piece. To increase the no of jaws successfully without using more space we used a system like lens aperture.

DIAGRAM/SCHEMATIC –



1 : Rotating Plate, 2 : Gears, 3 : Jaws

IPR APPLICATION / PATENT NO. –



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCI 2019)

CIPCI 2019 : P-116

Buzzer Indicator System For Headlight On During Daytime

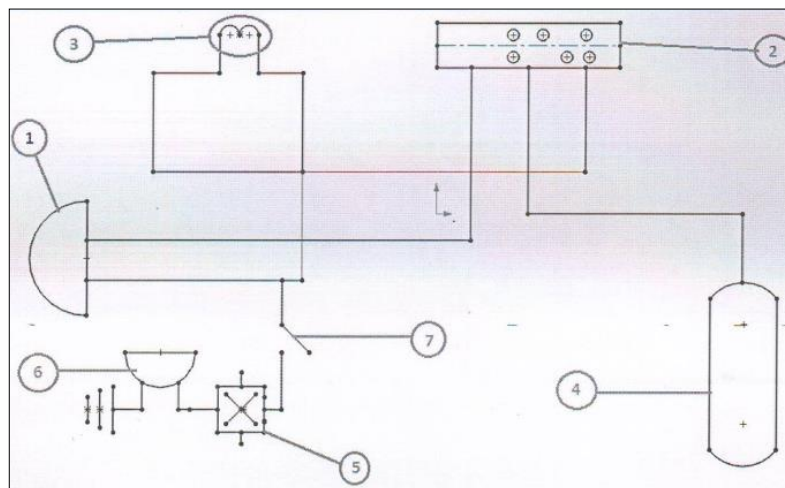
Parimal Shankar Kore and Manish Vinayak Kude

Department of Mechanical Engg., PCCOER, Ravet, (MS) India

ABSTRACT-

This invention is based on sensor with buzzer and to operate them one separate key switch is provided and this sensor is sensed by intensity of light during daytime which passes signal to the buzzer, the buzzer will blow and that time driver gets reminder that the headlight is on and it takes action on that but during night time because of sensor the buzzer will not blow and in the system one separate switch is also provided, if anybody needs headlight on during daytime in fog and rainy days then by switching off this key switch they can keep headlight on, so by concluding all these we can save electric power in vehicles

DIAGRAM/SCHEMATIC –



1 : headlight, 2 : switch, 3 : speedometer headlight indicator, 4 : coil, 5 : sensor, 6 : buzzer, 7 : key switch

IPR APPLICATION / PATENT NO. – 201621029851



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-117

Electric Meter With Smartcard

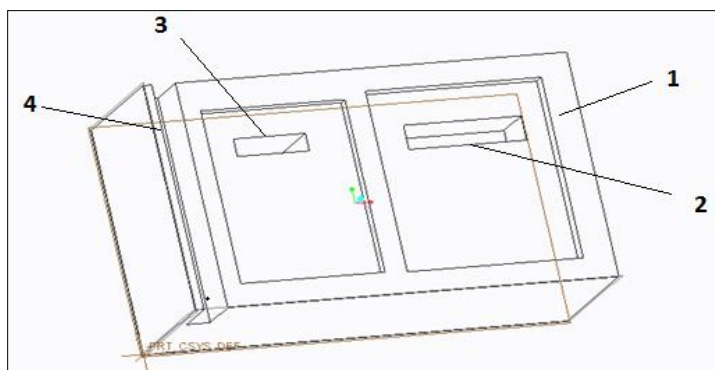
Chetan Ramesh Ingale

Department of Mechanical Engg., PCCOER, Ravet, (MS) India

ABSTRACT-

Swap machine attach to the electric meter, when internet connected swap the smartcard to the swap machine, current billing unit is recorded and then gives the message to register mobile number of billing unit and amount, for paid the amount machine is installed in the billing office which connect to the computer , when insert the card in to the machine , information display on computer screen ,when paid the amount machine operator change current reading to last reading. Next time when swap the card on your electric meter according to reading show on your register mobile number.

DIAGRAM/SCHEMATIC –



1 : electric meter, 2: billing unit, 3 : led display , 4 : swap the smartcard

IPR APPLICATION / PATENT NO.– 201621030633



CIPCIS 2019 : P-118

Automated Tyre Puncture Protection And Tyre Cleaning System When Vehical Is Running Simultaneously

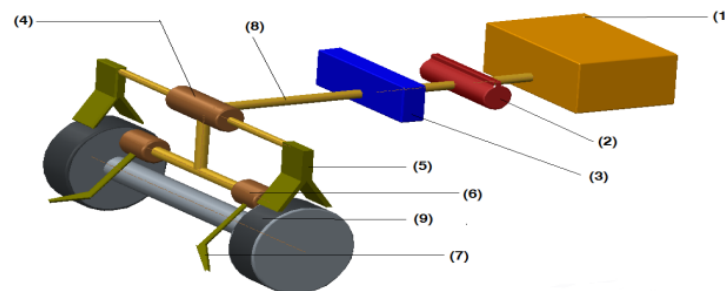
Ashish Chandrashekhar Shinde

Department of Mechanical Engg., PCCOER, Ravet, (MS) India

ABSTRACT-

Swap machine A system for automatic Tyre puncture protection and Tyre cleaning system when vehicle is running simultaneously by using pressurized fluids or pressurized cooled exhaust gases, the said system consists of fluid tank where fluids or exhaust gases are stored, further they are supplied to compressor where they are compressed which increases their pressure and if exhaust gases are used they are supplied to cooler to lower their temperature to a suitable value, then they are supplied to the pump 1 and then from the pump 1 they are supplied to nozzle 1 which is fitted above the tyres and in case of Tyre cleaning system the pump 1 is operated by the driver, which pumps compressed as well as pressurized fluids or cooled exhaust gases tangentially on the Tyres such that the mud and the dirt stuck on the surface and in between grips of the Tyres is washed off due to force exerted by the pressurized fluids or pressurized cooled exhaust gases, thus cleaning the Tyres which provides better grip and smooth and easy driving of the vehicles and also reduces the temperature of the tyres, wheels and brakes and in case of Automated Tyre puncture protection system the metal detector fitted below the bumper in the front of the Tyres as shown in figure 2 will detect the metal elements before the Tyres ride over it and will send the electric signal to the pump 2 and hence the pump 2 will get ON and will eject compressed as well as pressurized fluids or cooled exhaust gases on the metal elements and will blow off to the side before Tyres rides over it, thus preventing the Tyres from puncture and if the driver is driving on the unmetalled or dirt roads he will ON the pumps 2 manually and will keep it ON continuously and hence the pumps 2 will blow off the stones, thorns or any other elements present on the road before Tyres roll over it, thus ensuring that Tyres rolls over smooth surface, hence preventing the Tyres from damage and increasing its durability.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO.-201621030635



CIPCIS 2019 : P-119

Automatic Opening Of Laptop Lid Using Toggle Switch

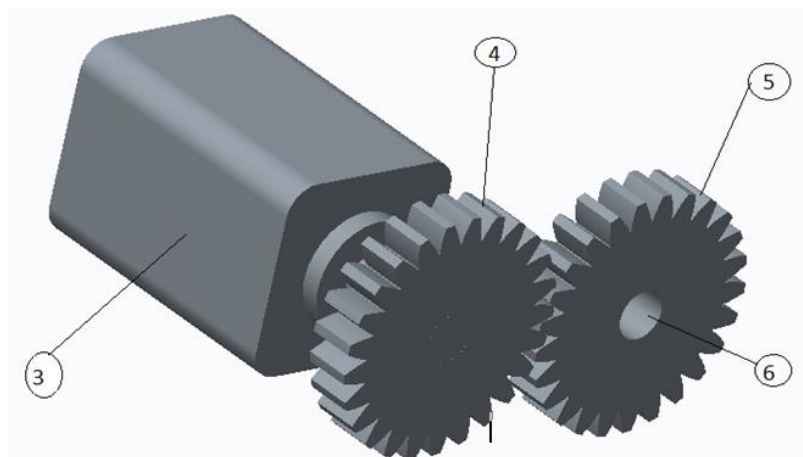
Shreekant Rakesh Shukla

Department of Mechanical Engg., PCCOER, Ravet, (MS) India

ABSTRACT-

The system used to open and close the lid of the laptop by using this system which consist of a programmed DC stepper motor, spur gear, momentary toggle switch, by using this system the laptop lid can be opened and closed by manually as well as automatically, the switch is momentary toggle switch which means it will be operated manually in either direction meaning that when you pull the switch from the off position to one of the two on positions it will only stay there as long as you hold it and then spring back to OFF position the stepper motor will get the supply from the battery which is provided within the laptop, the motor rotates in both direction

DIAGRAM/SCHEMATIC –



3 : Stepper motor which rotates in both the directions, 4 : Spur gear attached to the motor, 5 : spur gear attached to the hinge of the lid, 6 : position of hinge of laptop lid

IPR APPLICATION / PATENT NO.– 201621031258



CIPCIS 2019 : P-120

Electrically Adjustable Mirrors In A Two Wheeler Vehicle Using A Switch

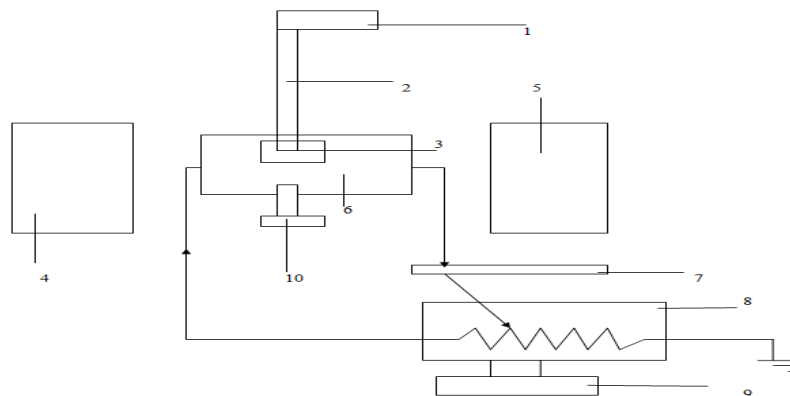
Ronak Paresh Hariya, Suhrida Goutam Chakraborty

Department of Mechanical Engg., PCCOER, Ravet, (MS) India

ABSTRACT-

A system with mirror adjustment in two wheeler vehicle by a switch, said system is consist of actuator, resistance switch, linear mover and magnets, actuator is current carrying conductor which is kept in between two magnets. Magnets provides magnetic field, linear mover slot button is provided on the vehicle as a switch. One end of Linear mover slot button is in contact with resistance switch, and other end is connected to actuator by current carrying wire, as button slides, it changes value of resistance in contact, ultimately changes the value of current and electric power supply is provided from the battery of the vehicle to the resistance switch, as one terminal of the resistance switch is grounded, other terminal is directly connected to the actuator, actuator experiences some force in presence of magnetic field and electric current, as actuator is pivoted at the centre, it will deflect by some angle, mirror is connected to actuator by mirror stand, so by supplying different values of current, mirror can move by some angle.

DIAGRAM / SCHEMATIC –



1 : mirror, 2 : mirror stand, 3 : connection slot, 4 : north pole of the magnet, 5 : south pole of the magnet,
6 : actuator, 7 : linear mover, 8 : resistance switch, 9 : power supply, 10 : pivoted link.

IPR APPLICATION / PATENT NO.– 201621031258



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-121

Innovative And Efficient Smart Calculator With Unit-System

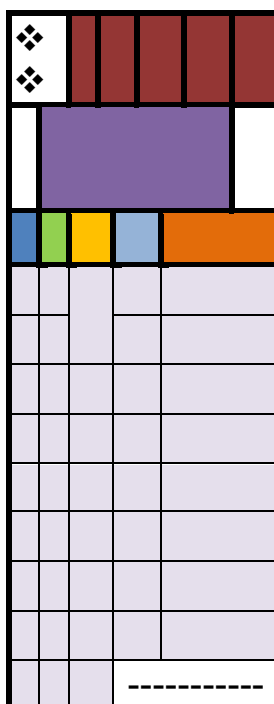
KUDOLI ANAND BASAVRAJ and SUDARSHAN SAMPATRAO BOBADE

Asst. Prof. Department of Mechanical Engg., PCCOER, Ravet, (MS) India, anand.kudoli@pccoer.in
Asst. Prof. Department of Civil Engg., PCCOER, Ravet, (MS) sudarshan.bobade@pccoer.in

ABSTRACT-

Smart Calculator in which input data in any unit-system (SI, MKS, CGS) entered is shown directly on display with numerical value along with its unit, is processed through inbuilt transformation system at the time of entry itself, and solve the problems of millions of users in finding final answer as per their choice in any of above said unit-system, that saves the time of user as a main resource, build confidence of solving the mathematical problems, required less time to convert final answer in various unit, as in every field calculations are required to be carried out with various unit-system, users will enjoy calculations with ease and accuracy.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 201621032482



CIPCIS 2019 : P-122

Fin Based Preheating Of Catalytic Converter

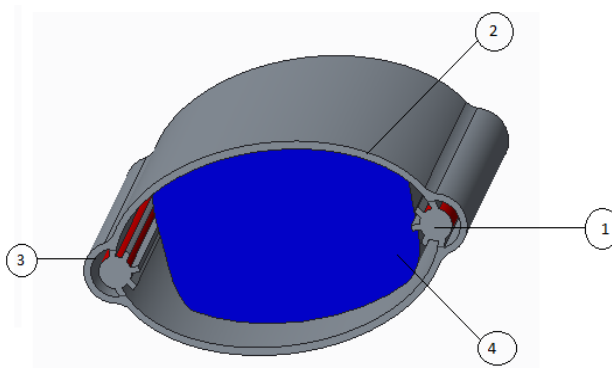
Tejas Kashinath Bodke & Omkar Virendra Deshpande

Department of Mechanical Engg., PCCOER, Ravet, (MS) India

ABSTRACT-

A system for preheating the core of platinum-palladium, platinum-rhodium of the catalytic converter so that the reaction of the core with the exhaust gases happens at a better and a faster rate, by means of a heating element of red-brass having fins at its periphery, positioned at the casing of the catalytic converter, so as the starter is turned a voltage is amplified through the wire harness and is given to the heating element thus the heating element (red brass) having high thermal conductivity (159 W/mK) transfers the heat by means of fins on the periphery into the casing of the converter: thereby heat energy is absorbed by the core of platinum-palladium and platinum-palladium which enables the proper reaction of the platinum-rhodium, platinum-palladium core with the exhaust gases from the engine and hence increases the efficiency of the core to react with the exhaust gases.

DIAGRAM/SCHEMATIC –



IPR APPLICATION / PATENT NO. – 201721001280



CIPCIS 2019 : P-123

An Alteration In Screwdriver To Make It Easy To Grip And Apply More Torque

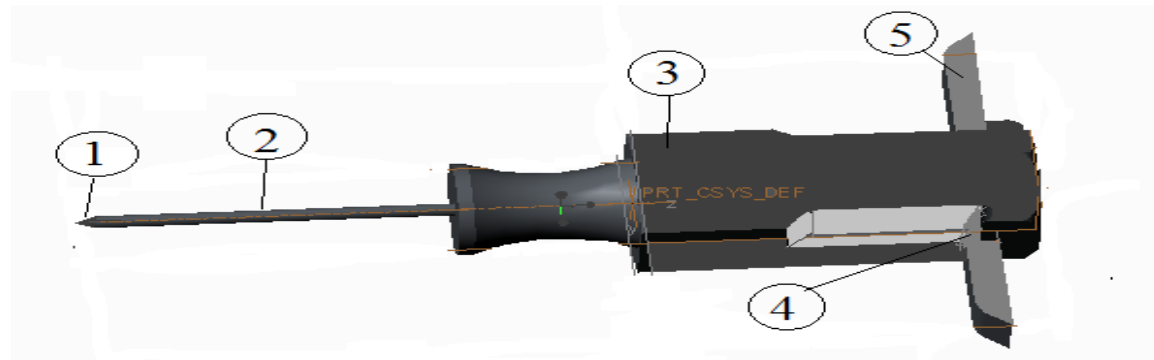
Suraj Balasaheb Satav

Department of Mechanical Engg., PCCOER, Ravet, (MS) India

ABSTRACT-

Tip of screwdriver (1) is kept on target screw, Wings (5) are pulled outside so that they will be perpendicular to the cylindrical shaft (2), for tightening purpose handle (3) is moved in clockwise direction and for removing Purpose it is moved in anticlockwise direction, action of wings is used whenever the grip is required and screws are tight.

DIAGRAM/SCHEMATIC –



IPR APPLICATION / PATENT NO. –



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-124

Computer Mouse Containing Fingerprint Sensor For Detecting Password And User Id Of User

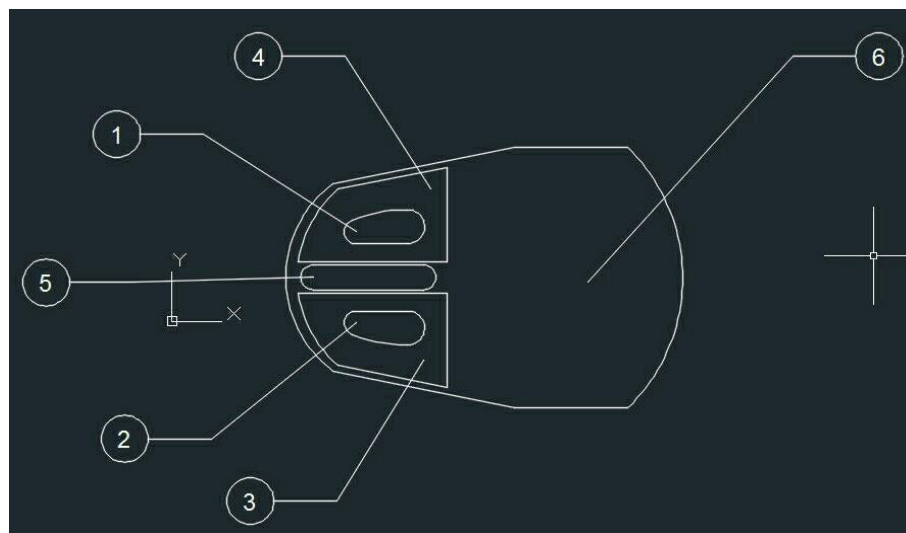
Vivek Padmakar Mahajan

Department of First Year Engg., PCCOER, Ravet, (MS) India

ABSTRACT-

This innovation is based upon digital authentication by fingerprint sensor, a system use to sense user digital authentication, when system is initiated then it will ask to you digital password, later on you should put your first finger on mouse left portion, then scanner will scan your finger print and identify authorized user, after this put your second finger on right side portion of mouse then system will recognized your fingerprint as digital password, suppose unauthorized user try to access password so system will decline it, if an unauthorized user try to open desktop with digital fingerprint password or user ID the system will not open, if user is authorized then desktop will get open, after successful opening of desktop then right click and left click will work as normal right click and left click of computer.

DIAGRAM / SCHEMATIC –



1 : First Finger Print Scanning Area, 2 :Right Click, 3 : Second Finger Print Scanning Area,
4 : Left Click, 5 : Scroll Button, 6 : Mouse Case

IPR APPLICATION / PATENT NO. –201721009976



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-125

Safety Indicator System For The Personal Protective Equipment (PPE)

Sushmita Sanjay Shinde

Flat No.203 A-wing Gulmohar Garden, Laxmi Park, Kalewadi, Pimpri,, (MS) India

ABSTRACT-

This system is used to indicate the complete wearing of the PPE (Personal Protective Equipment) by the worker during the working hours which forms an altogether connection when switched on between all the safety equipment's where each equipment is attached by a sensor and when all equipment's are connected in a loop connection it indicates a green light on the led mounted on the helmet and if the worker removes any one of the equipment which disturbs the connection made by the sensors and it sends a feedback to microcontroller which is continuously monitoring the loop and indicates a red light which shows that the worker is working in the working hours without following the safety measures and thus not following the safety rules which makes easier to detect the working measures followed by the workers and the risk owned by not following the rules in working hours

DIAGRAM/SCHEMATIC –



IPR APPLICATION / PATENT NO. – 201721011307



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-126

A Smart Switching System For Electrical Appliances To Prevent The Wastage Of Electricity

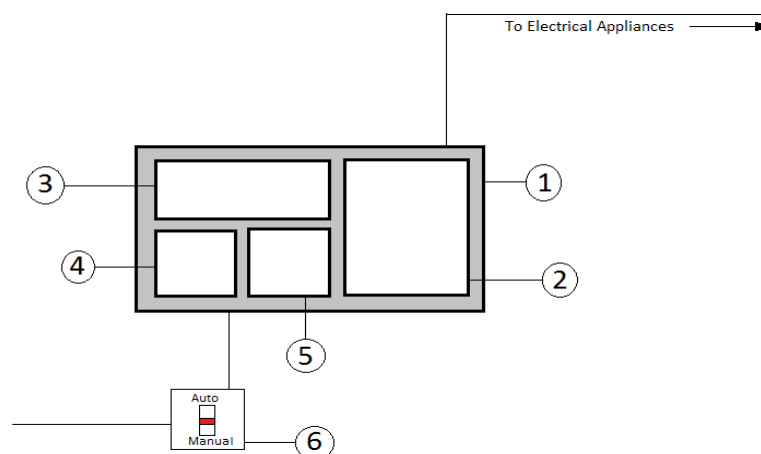
Shreyash Sanjay Pimpalshende

Department of Computer Engg. PCCOER, Ravet, (MS) India

ABSTRACT-

The Sensor Hub will be used as a control unit in the above mentioned work of automating the switching system, it can be used for switching ON/OFF a wide variety of electrical appliances based on the detection system used in the sensor hub and using any extra sensor required for detection work according to the need, for this purpose the default sensors of sensor hub are used and no extra sensors are required, the detection work of the sensor hub will start if the manual override switch is on automatic mode, then firstly, the proximity and the infrared heat sensor assembly will together detect the presence of any human body in the room by looking for the appropriate human body temperature and position of body, if sufficient natural light required is not present in the room, then the ambient light sensor will determine the amount of light required in the room and thereby switching ON the lights and adjusting their luminous intensity according to the need, if the manual override switch is turned to MANUAL mode, then the sensor hub will not work, hence automation could not be performed and the user will be able to operate the conventional switching system to turn the lights ON/OFF.

DIAGRAM/SCHEMATIC –



IPR APPLICATION / PATENT NO. – 201721011569



CIPCIS 2019 : P-127

Kilometer Predictor Which Will Sense Fuel In Tank And Predict How Much Kilometer Vehicle Will Travel Further

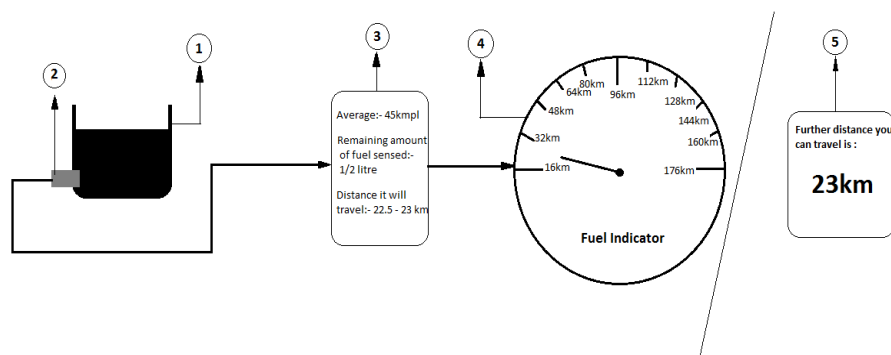
Rutvij Rajiv Patil, Anagha Sudhir Navale, Anagha Sudhir Navale

Department of Mechanical Engg., PCCOER, Ravet, (MS) India

ABSTRACT-

This innovation is based upon fuel indicators which the vehicles have. Vehicles generally show that is your tank empty or full. But it can't exactly show how much far will it go. According to our invention, sensor(2) in the tank(1) will sense the amount in the tank. Sensed amount will be in the form of litres. Sensor will command the automatic calculator (3). Automatic calculator will be programmed to calculate distance which vehicle can travel with respect to average of the vehicle. Calculated amount will be displayed on dashboard in analog indicator(4) or digital indicator(5). Digital indicator will show exact value as compared to analog indicator. We can call them distance predictor rather than fuel indicator. This will help rider to get accurate value of distance he can travel with remaining amount of fuel and he can refill his/her vehicle from nearby fuel station.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. –



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-128

Smart Universal Mobile Charger With Different Current Rating

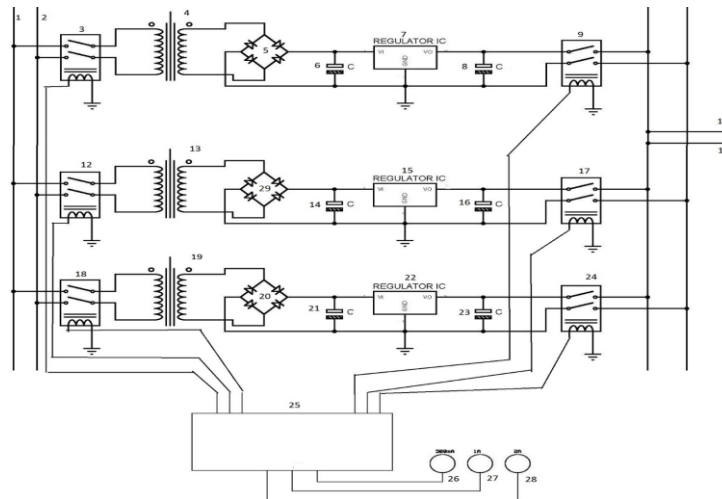
Shreyash Sanjay Pimpalshende

Department of ComputerEngg., PCCOER, Ravet, (MS) India

ABSTRACT -

This innovation is based upon the use of relays and a microcontroller system that provides single mobile charger to be used for the different current ratings. This charger can be used to generate N different values of current rating at the output of the mobile charger. It uses '2N' number of relays, '2N' capacitor filters, 01 or many Microcontroller (depending upon current rating values), N step down voltage transformers, 'N' bridge rectifiers, 'N' Voltage regulator ICs. Here, an example is given for N = 3 as show in schematic show in circuit diagram below. There are 03 push buttons given for selecting desired current ratings of 500mA, 1A and 2A. As user selects the desired current mode, microcontroller activates respective rectifier circuit and produces desired current rating at the output

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. –



CIPCIS 2019 : P-129

Brakes Containing Integrated Circuit (IC), Switch For Switching On Indicator In Moped

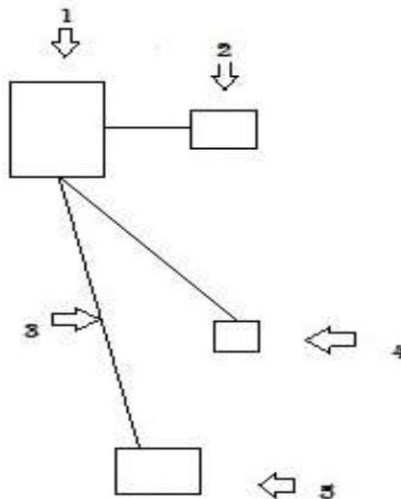
Deven Prashant Padale

Department of Mechanical Engg., PCCOER, Ravet, (MS) India

ABSTRACT -

This innovation is based upon, an IC which is designed or programmed to switch on the indicators by pressing brakes two time and thus it will allow to flow the current, a switch is placed between the brakes an IC by which when the brake is pressed it presses the switch and then it presses the IC by which the current is allowed, this invention will make it more easy for the user to turn on indication system for mopeds.

DIAGRAM/SCHEMATIC –



IPR APPLICATION / PATENT NO. –



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-130

AUTOMATICBHEL VENDING MACHINE

Dr. Anand kakade

At Chahur, BajiNivas, Post_Krishnanagar, Taluka and District Satara -415 003, Maharashtra, India

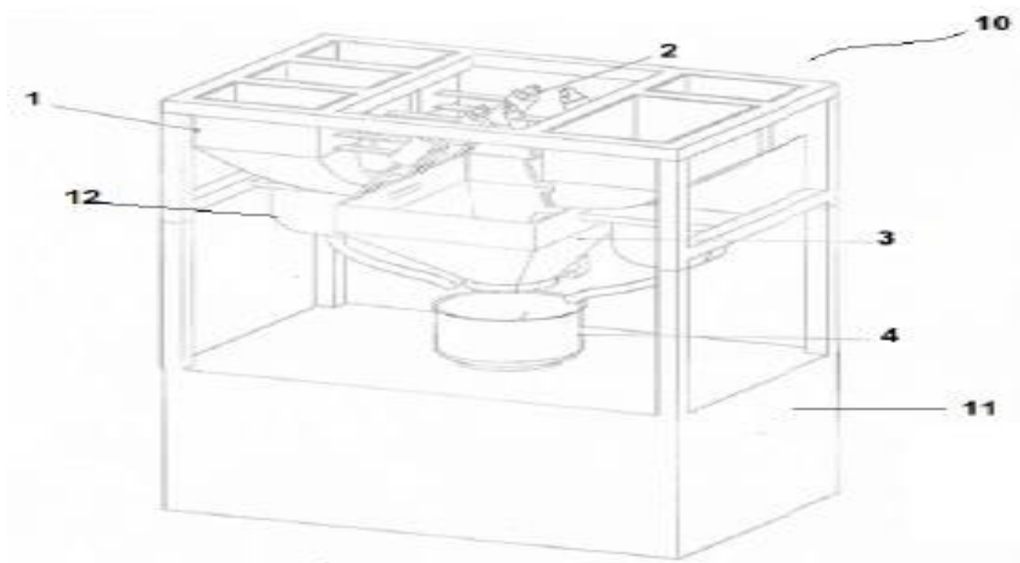
Rajarambapu Institute of Technology

Rajaramnagar, Islampur, Dist. Sangli - 415414, Maharashtra, India.

ABSTRACT-

The present invention provides an automatic Bhel making machine. The invention replaces the manual method, and provides a consistent, quicker and hygienic manner for preparation of Bhel as desired by a user's taste preference. The present invention also reduces the preparation time significantly.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 201621033974



Pimpri Chinchwad Education Trust's
PIMPRI CHINCHWAD COLLEGE OF ENGINEERING AND RESEARCH
Laxminagar, Ravet, Pune-412101 (Maharashtra)

CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)



CIPCIS 2019 : P-131

HIGH TRACTION MANUAL TILLER

Dr. Anand kakade

At Chahur, BajiNivas, Post_Krishnanagar, Taluka and District Satara -415 003, Maharashtra, India

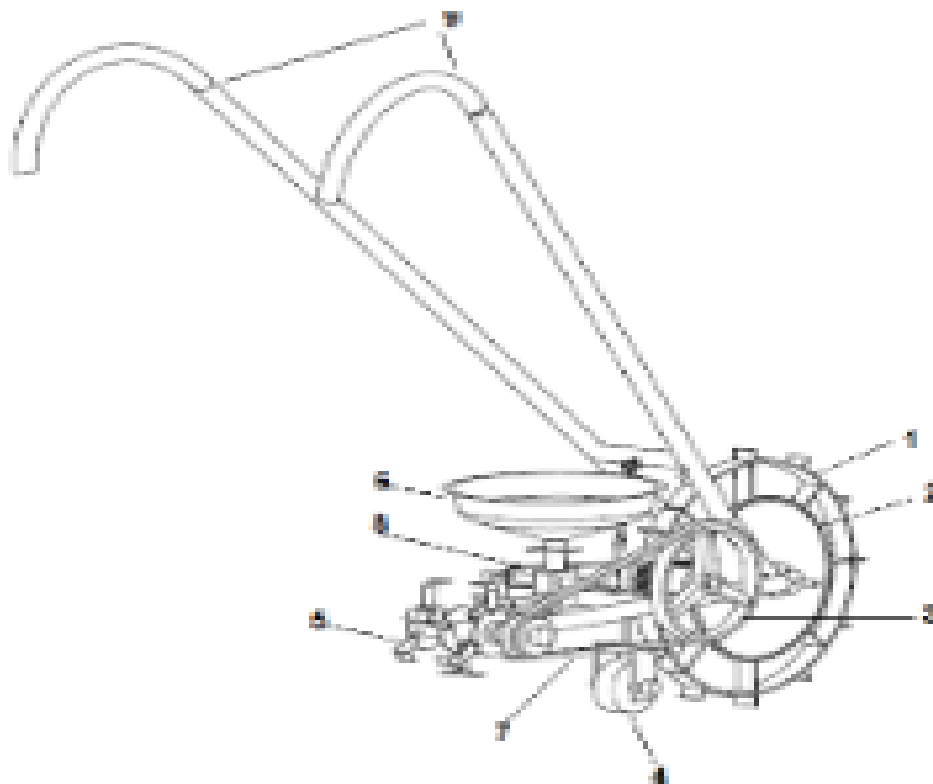
Rajarambapu Institute Of Technology

Rajaramnagar, Islampur, Dist. Sangli - 415414, Maharashtra, India.

ABSTRACT-

The present invention provides an agricultural device that can be operated manually by a single person and is capable of performing tilling, weeding, seeding and fertilizing operations by use of the same device, with minimum manual effort. The device is suitable for use by the Indian farmer where land holdings are small. The device is economically affordable and results in increase in agricultural productivity.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 201621042348



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-132

Continuously Variable Length Circular Intake Manifold System

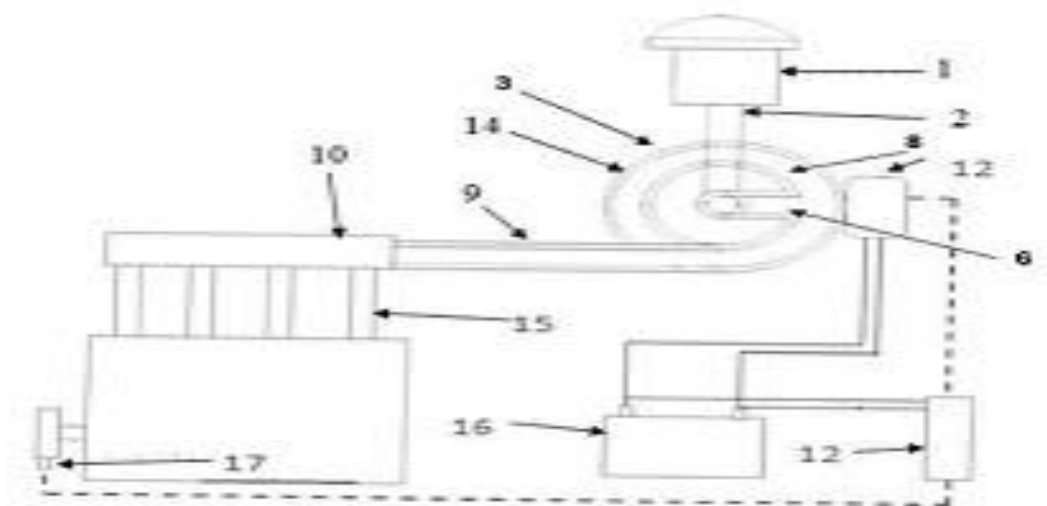
**Mr.Thombare Dhananjay Ganpati¹, Mr.Badhan khushaldas vasant², Mr.injamuri jagdish
shriniwas³**

Jijai, Shripadnagar, Peth Road, Isiampur, Tal. Walwa, Dist. Sangli, Maharashtra, India, PIN – 515409
Peth Lane, Near Gram-panchayat Office, A/P: Nampur, Tal: Satana, Dist: Nashik, Maharashtra, India, PIN - 423204
Home No. 1671, Kuchan Nagar, Solapur, Dist. Solapur, Maharashtra, India. PIN — 413005

ABSTRACT-

The present invention provides an agricultural device that can be operated manually by a single person and is capable of performing tilling, weeding, seeding and fertilizing operations by use of the same device, with minimum manual effort. The device is suitable for use by the Indian farmer where land holdings are small. The device is economically affordable and results in increase in agricultural productivity.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 201621034077



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-133

Utensils Washing Glove

Dr. Anand kakade

At Chahur, BajiNivas, Post_Krishnanagar, Taluka and District Satara -415 003, Maharashtra, India

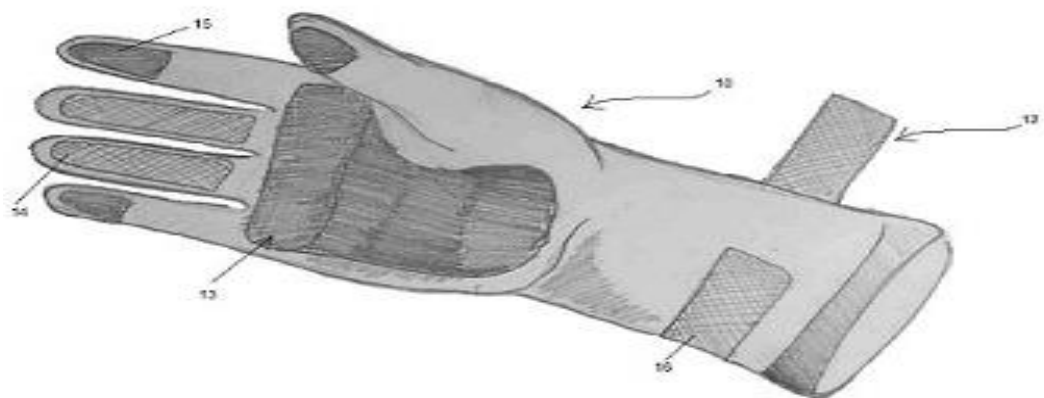
Rajarambapu Institute Of Technology

Rajaramnagar, Islampur, Dist. Sangli - 415414, Maharashtra, India.

ABSTRACT-

The present invention provides a glove for user-friendly, water-proof cleaning and scrubbing of soiled utensils and various unclean surfaces, where direct contact of skin with the cleaning solution is to be avoided. The glove comprises of abrasive material and hook-and-loop fabric fastener affixed on the upper ends of the finger-receiving members, the palm region and the wrist enclosing region to provide a safe and hygienic cleaning experience to the user. The applications of the invention include dirty utensils, human and pet grooming and industrial applications such as those dealing with construction chemicals, cleaning solvents for walls and floors and toxic and hazardous wastes.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 201721016810



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-134

Multiple Sized Stapler

Dr. Anand kakade¹, Dr.S.K.Patil²

At Chahur, BajiNivas, Post_Krishnanagar, Taluka and District Satara -415 003, Maharashtra, India

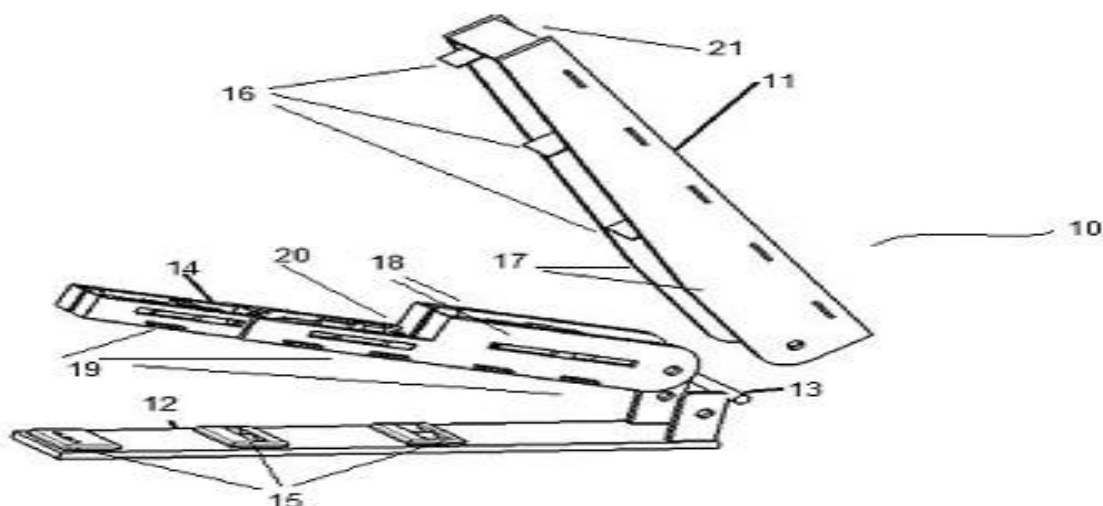
Rajarambapu Institute of Technology

Rajaramnagar, Islampur, Dist. Sangli - 415414, Maharashtra, India.

ABSTRACT-

The present invention provides a multiple sized stapling device, capable of dispensing multiple staple pins of different predetermined size, according to a user's choice. The invention is capable of dispensing staple pins of various sizes – ranging from two pins to three, four or five pins, which provides flexibility in stapling using different pin sizes. The device is handy and compact, and can be a good replacement for heavy duty stapler. The invention advantageously provides an economical device for maintaining and delivery of multi-sized staples, eliminating the use of multiple staplers for different applications

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 201721024732



CIPCIS 2019 : P-135

System And Method For Efficient Control Of Room Temperature

Dr. Anand kakade¹, Mr.S.V.Kadam²

At Chahur, BajiNivas, Post_Krishnanagar, Taluka and District Satara -415 003, Maharashtra, India

Rajarambapu Institute of Technology

Rajaramnagar, Islampur, Dist. Sangli - 415414, Maharashtra, India.

ABSTRACT-

The present invention provides a system and method for efficient control of indoor air temperature within a room, after sunset, using ambient air from outdoor. The system comprises a blower assembly, an air distribution assembly, at least one indoor temperature sensor positioned inside the room to detect the indoor air temperature, at least one outdoor temperature sensor located outside the room to detect the outdoor air temperature, and a microprocessor system. A user can set the required temperature within the room and achieve the comfort of required cool or warm indoor environment at an economical cost.

DIAGRAM /SCHEMATIC-

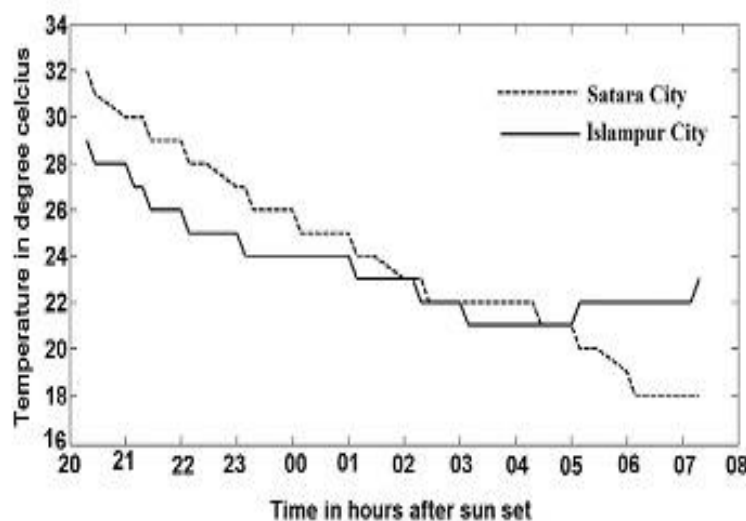


Figure 1: Outdoor temperature after sunset measured in two cities

IPR APPLICATION / PATENT NO. – 201721028962



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-136

Automatic Sugarcane Plantation Machine

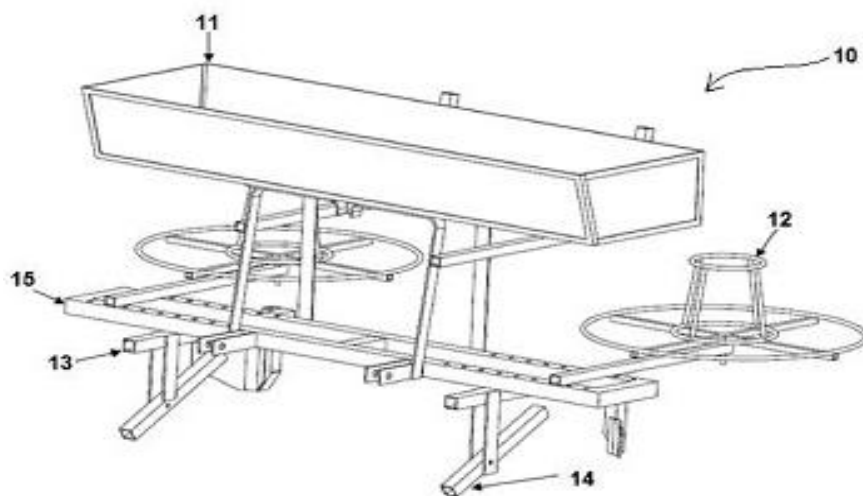
Dr. Anand.B. kakade¹, Mr.Daji Appanna Patil², Mr. Arvind Maruti³
At Chahur, BajiNivas, Post_Krishnanagar, Taluka and District Satara -415 003, Maharashtra, India

Rajarambapu Institute of Technology
Rajaramnagar, Islampur, Dist. Sangli - 415414, Maharashtra, India.

ABSTRACT-

The present invention provides an automatic sugarcane plantation machine, which is capable of performing efficient sugarcane plantation by ploughing, digging furrows, discharging cut sugarcane pieces in furrows, soil covering, laying drip pipe and fertilizer distribution concurrently. The machine is capable of being customized to suit different sugarcane varieties by adjustment of the distance between furrows. The machine not only saves effort and time, but is also easy to operate. It helps in increasing overall productivity of sugarcane cultivation.

DIAGRAM / SCHEMATIC-



IPR APPLICATION / PATENT NO. – 201821004125



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-137

Multi-Sided Toothbrush

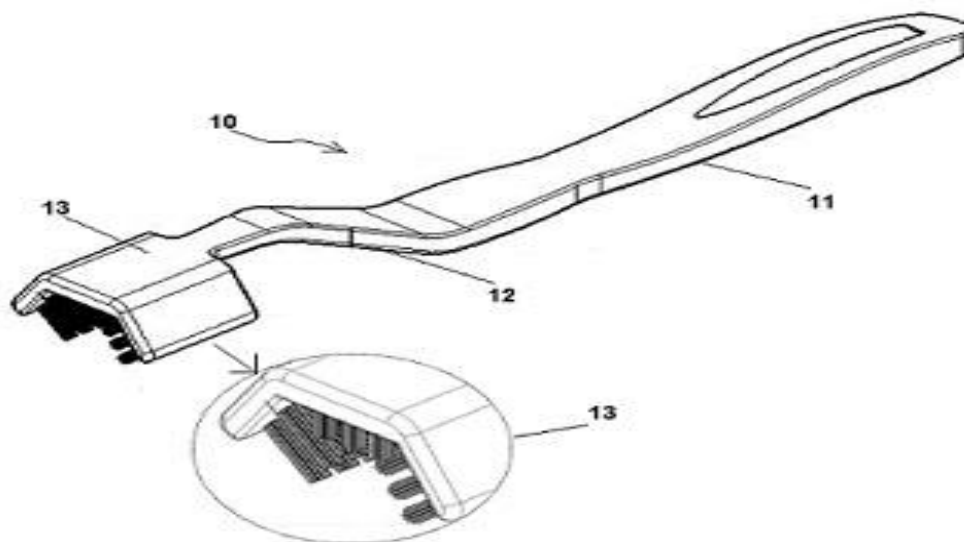
Mr. Attarde Rushikesh¹, Mr. Satish. Salunke², Prof. pratiksha jayawant³

Rajarambapu Institute of Technology
Rajaramnagar, Islampur, Dist. Sangli - 415414, Maharashtra, India.

ABSTRACT-

The present invention provides a multi-sided toothbrush, capable of cleaning all sides of the teeth simultaneously rather than three different strokes as used in conventional toothbrush. The angle of bristles is kept 45 degree for maximum cleaning of teeth and gum line. For this bristles are provided at central part of brush head as well as on the side flanks of the brush head. The side flanks of the brush have the bristles inclined so that they make 45 degree angle while brushing the tooth. In the three sided toothbrush time required is reduced due to simultaneously cleaning of all sides of a tooth. Also the human efforts are also reduced with three side cleaning tooth brush.

DIAGRAM / SCHEMATIC-



IPR APPLICATION / PATENT NO. – 201821008931



CIPCIS 2019 : P-138

Switching Polarity Multi-Stable Vibration Energy Harvester

Prof. L.M.JUGULKAR¹, Prof. NITIN SATPUTE²

ABSTRACT-

The present invention provides a wide band vibration energy harvester device. The operating frequency range ensures utilization of low frequency vibrations that include human motion, highway traffic and an automobile suspension motion. The device has incorporated magnetic non-linearity with an inertial mass constrained to undergo rectilinear vibrations. Furthermore, to utilize a wider spectrum with varying base acceleration, switching magnetic polarity has been incorporated to ensure efficient power output. As compared to existing vibration harvesters with piezoelectric generators, the proposed invention is capable of generating significant and higher electric power. The present invention also has better electric power output for higher base acceleration level.

IPR APPLICATION / PATENT NO. – 201721004160



Pimpri Chinchwad Education Trust's
PIMPRI CHINCHWAD COLLEGE OF ENGINEERING AND RESEARCH
Laxminagar, Ravet, Pune-412101 (Maharashtra)



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-139

SMA Actuator System for Battery temperature Control

Prof.S.B.Patil¹, Prof.P.M.Jadhav², Mr. Pratik Hiremant³, Mr.Vittal.kore⁴

ABSTRACT-

An SMA actuator system is provided to control and manage the temperature of the battery pack of an electric vehicle. The system is efficient and better than the battery cooling systems being used currently, such as air-cooling and water cooling based systems. The present invention is compact and reliable and provides air cooling to the battery pack, as and when required, thus increasing the overall performance efficiency of the vehicle and the longevity of the battery pack.

IPR APPLICATION / PATENT NO. – 201921031455



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-140

Locking Tongs

Prof.S.B.Khot¹, Mr. Rohit Maskar², Mr. Amar Gadeka³, Mr. Ninad Patil⁴

ABSTRACT-

The present invention is a novel tong device capable of being in a locked position and an unlocked position. The device helps a user to hold a utensil with firm grip without requirement of continuous force while carrying the utensil. The problem of slipping of the utensil due wrong orientation of the tong during holding the utensil is prevented. The device comprises of three links engaged in relative motion with each other, wherein relative positions of links takes care of constant force required to hold the utensil and any slippage of the utensil from tong is prevented

IPR APPLICATION / PATENT NO. – 201921031500



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-141

A Method And An Optomechanical Scanner For Three Dimensional Focused Laser Beam Spot Scanning In Microstereolithography

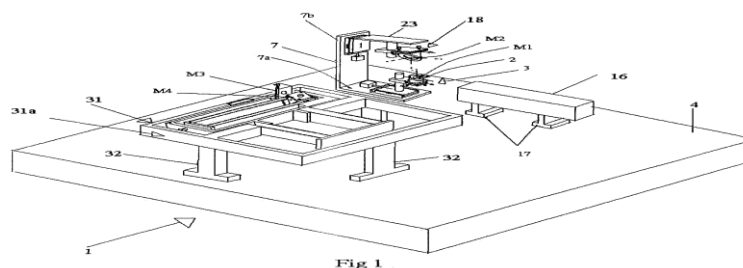
Prof. Deshmukh Suhas Pandurang¹, Prof. Gandhi Prasanna Subhash²

Smaul, Mechanical engineering department, Indian institute of technology, Bombay, Powai, mumbai-400076

ABSTRACT-

A method and an opt mechanical scanner for three dimensional focused laser beam spot scanning. A laser beam is allowed to fall on a first mirror (M1) held in the path of the laser beam with its reflective surface inclined at 45° to the optic axis of the laser beam. The first mirror is linearly movable in the horizontal plane along the Y-axis. The laser beam reflected from the first mirror is allowed to fall on a second mirror (M2) held above the first mirror spaced apart from the first mirror with the reflective surface of the second mirror inclined at 45° to the optic axis of the laser beam reflected from the first mirror. The second mirror is linearly movable in the vertical plane along the Z-axis. The laser beam reflected from the second mirror is allowed to fall on a third mirror (M3) held spaced apart from the second mirror with the reflective surface of the third mirror inclined at 45° to the optic axis of the laser beam reflected from the second mirror. The laser beam reflected from the third mirror is allowed to fall on a fourth mirror (M4) held spaced apart from the third mirror with the reflective surface of the fourth mirror inclined at 45° to the laser beam reflected from the third mirror. The laser beam reflected from the fourth mirror is allowed to fall on a focusing lens (L) held below the fourth mirror spaced apart from the fourth mirror and perpendicular to the optic axis of the laser beam reflected from the fourth mirror. The third and fourth mirrors and the lens together are linearly movable along the X-axis and the fourth mirror and lens together are linearly movable along the Y-axis and the lens is linearly movable along the Z-axis. On-axis scanning is carried out by linearly adjusting the first and second mirrors to allow the optic axis of the laser beam and lens axis to be on-axis and moving the third and fourth mirrors with the lens along the X-axis to carryout X-axis scanning, moving the fourth mirror with the lens along the Y-axis to carryout Y-axis scanning and moving the lens along the Z-axis to carry out Z-axis scanning. Off-axis scanning is carried out by linearly adjusting the first and second mirrors to allow the optic axis of the laser beam and lens axis to be off-axis, moving the first mirror along the Y-axis to carry out X-axis scanning, moving the second mirror along the Z-axis to carry out Y-axis scanning and moving the lens along the Z-axis to carryout Z-axis scanning (Fig 1).

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 270072



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-142

A Mounting Structure For Magnets

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²B-7/502, Bramha Majestic co-op society, NIBM road, Kondhwa, Pune

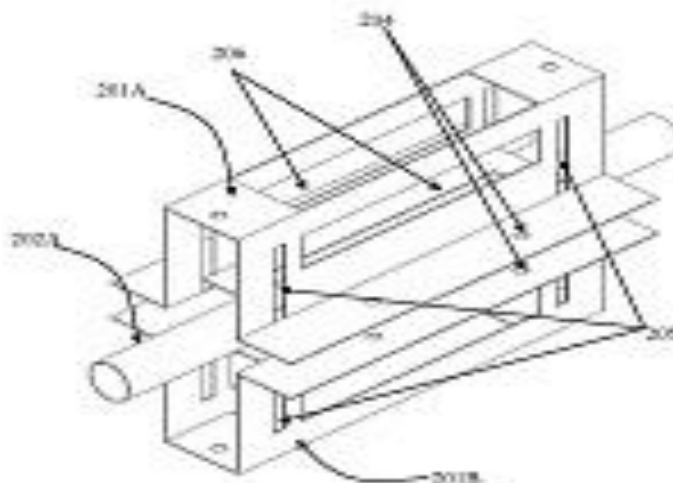
³Bhagyaday",Plot no.24,Link road,Shivparvati Nagar,Phandharpur

⁴A-1001, Megh Malhar Raga, Behind Maratha Mandir, Bavdhan Chandni Chowk, Pune

ABSTRACT-

A mounting structure for magnets comprises a first mounting element and a second mounting element having a profile identical to the first mounting element. The second mounting element is coupled with the first mounting element to define the mounting structure. The mounting structure further comprises at least one support plate engagable with each of the mounting elements, wherein, in an engaged configuration, the support plates and the mounting elements define an enclosure to accommodate at least one magnet. A passageway is configured operatively between the support plates and is adapted to allow a passage of a conduit there through.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 2573/MUM/2015



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCI 2019)

CIPCI 2019 : P-143

Pyramidal Solar Still

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¹B-7 / 502, Brahma Majestic, NIBM Rd., Kondhwa, Pune

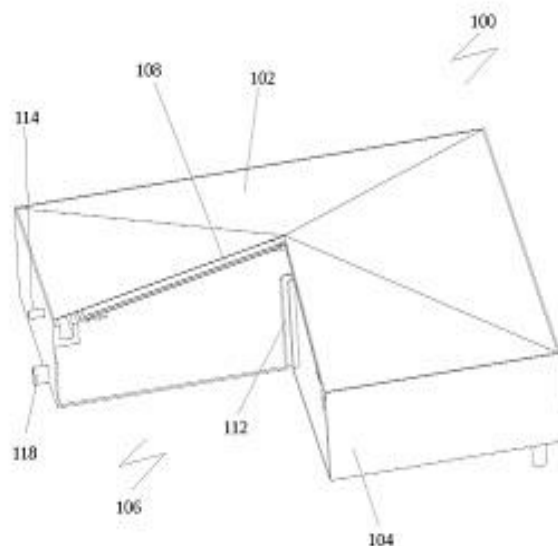
²401 / Dream City, Ambegaon Bk, Pune

³ A- 1001, Meghamalhar Raga, S. No. 54, Bavdhan, Chandani Chowk, Pune bhojwanivk@gmail.com

ABSTRACT-

The present subject matter envisages a solar still for distilling a liquid. The solar still comprises a glass cover disposed over a basin such that the glass covers and the basin defining a housing. An absorber plate is disposed within the housing such that the absorber plate is held substantially parallel to the glass cover. The absorber plate has a hollow profile configured to receive a phase change material therein. A black fabric material is configured to cover the absorber plate and adapted to receive the liquid via a first conduit extending from an inlet opening configured on the housing. An outlet opening configured on the housing to facilitate a discharge of pure condensed liquid collected on an inner surface of the glass cover.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 201621002282



CIPCIS 2019 : P-144

A Mechanism To Conveniently Release Footrest In Vehicles

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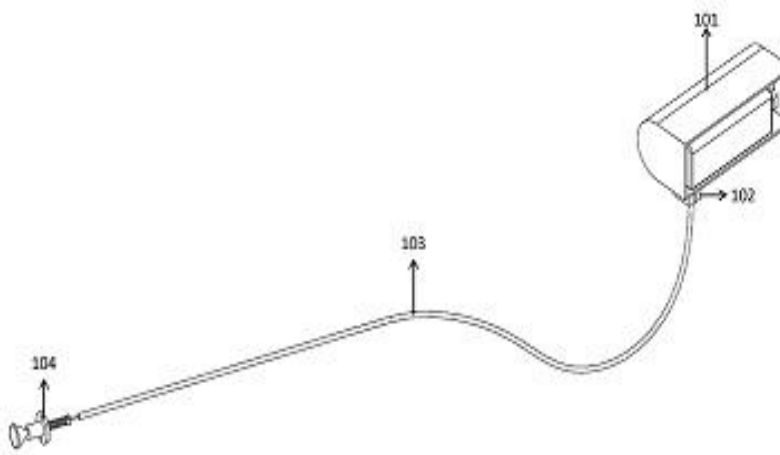
²B-7/502, Bramha Majestic co-op society, NIBM road, Kondhwa, Pune

³A-1001, Megh Malhar Raga, Behind Maratha Mandir, Bavdhan Chandni Chowk, Pune

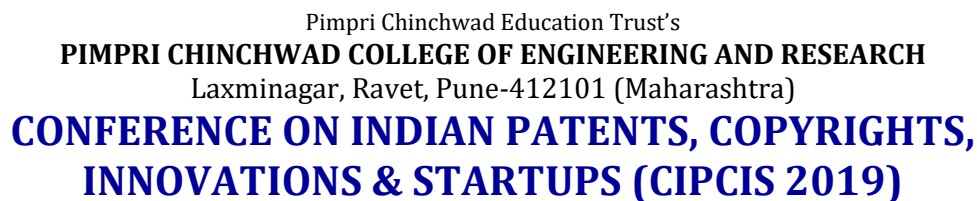
ABSTRACT-

A mechanism to conveniently release footrest in vehicles, said mechanism comprising; a footrest (101C); a hinge (101E), wherein said hinge (101E) is a fixed member and constrained to the frame of vehicle; a pin (101B) configured to couple the footrest (101C), a spring (101D) and the hinge (101E) and helps to give rotational degree of freedom to the footrest (101C); the spring (101D) configured to provide tension force to the footrest (101C), when footrest (101C) gets released; a sliding pin mechanism box (102); a cable (103) configured to transmit motion; and an actuator 104 configured to transfer motion through a cable to a sliding pin (102B), which moves the sliding pin (102B) axially downward and unlocks the footrest (101C).

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 201621025659



Automated Oxygenation Device

Suhas Deshmukh Ketan¹, Sakharam Kulkarni²

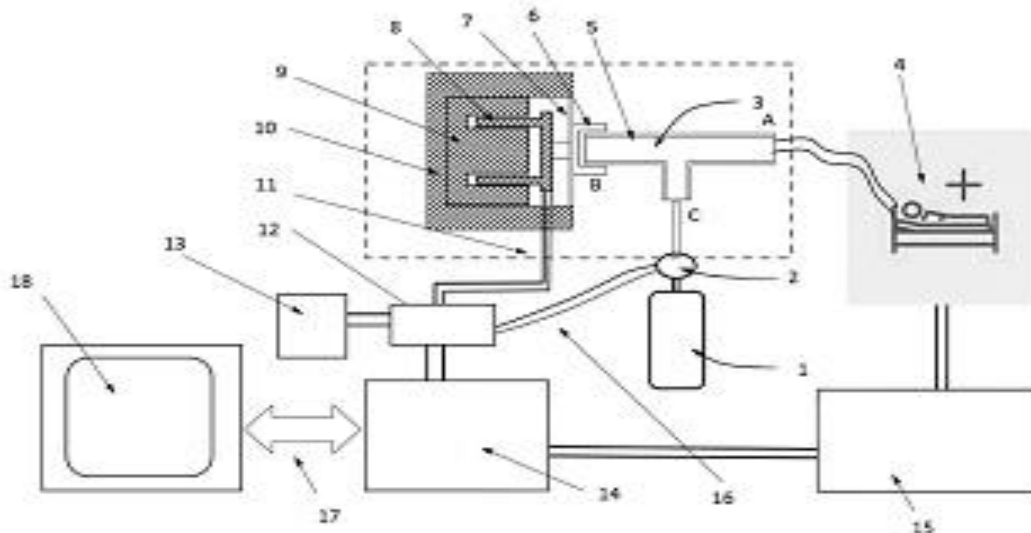
¹A-1001, Megh Malhar Raga, S.No. 54, NDA Road, Bavdhan, Pune 411021

²Near Janata High-school, Mahadeonagar, Islampur, Tal. Walwa, Dist. Sangli 415406

ABSTRACT-

Present invention will be used as automated oxygenation device in emergency situation of cannot intubate cannot ventilate, consists of oxygen source, junction for O₂ delivery, actuator (Voice Coil Motor), oxygenation valve, actuator conditioning system, microcontroller and display device, pulse oxygen sensor (pulse-oximeter). Pulse-oximeter detects the level of oxygen from subject body and this will be used as feedback for actuation of automated oxygenation device. Signal is fed to microcontroller and microcontroller actuates the VCM valve which will divert the oxygen to lungs of the patient and de-actuation will allow expiratory gases along with CO₂ to come out. Frequency of operation depends on amount of oxygen content available in the patient's body. This innovation prevents morbidity as well as mortality by providing oxygen in timely and more precise way.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 201721017826



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-146

Blood Warmer

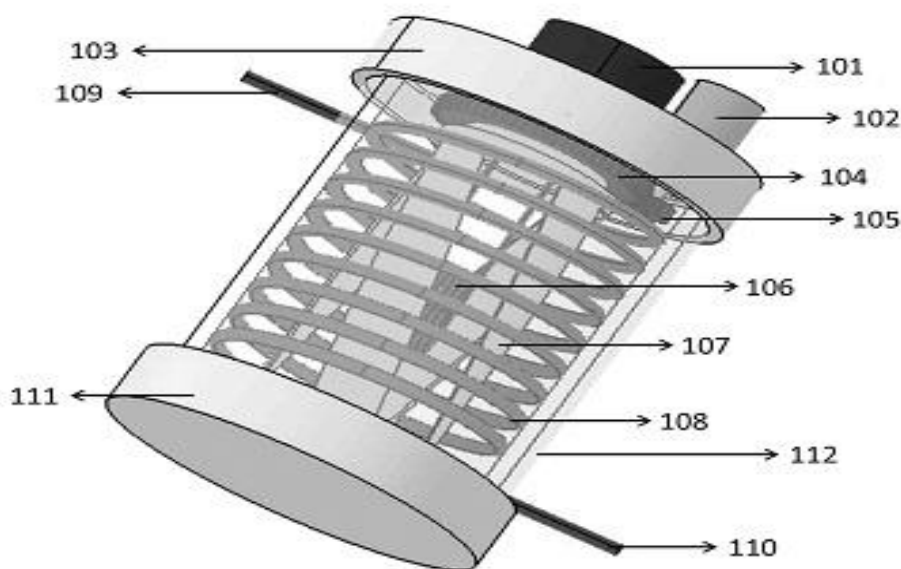
Mr.Suhas Deshmukh

A-1001, Megh Malhar Raga, S. No. 54, NDA Road, Bavdhan, pune

ABSTRACT-

At present before anesthesiologists infuse blood into a patient's body, the blood which is preserved in a blood bag and stored in a cold storage is warmed to the patient's body temperature. If cold blood is injected in patient's body then he may suffer from hypothermia, and on the other hand if blood warmer than 42 degrees is injected then it might cause hemolysis. Some current practices in hospitals to prepare blood for infusion are the use of a heat solder, warm water, the screw blood warmer, heater, running water as well as leaving the blood bags to room temperature. The methods are inefficient, time-consuming and inconvenient for the anesthesiologists. To improve work efficiency of the medical staff, this invention provides high efficiency blood warmer system. The system is portable and simple to operate. The disclosed blood warmer system utilizes two types of technologies for heating blood which gives optimum results.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 201721002404



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCI 2019)

CIPCI 2019 : P-147

Machine Health Monitoring System

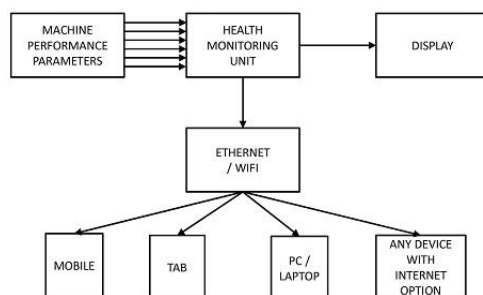
Mr.Suhas Deshmukh

A-1001, Megh Malhar Raga, S. No. 54, NDA Road, Bavdhan, pune

ABSTRACT-

Machines have been an inevitable part of our life in today's era. The health of machines has been a vital aspect in overall life, efficiency, and performance. To check the health of such machines, various devices have been developed in the past which measure vibrations, temperature, noise and power consumption. Any defect in the machine is indicated by no acceptable behavior in these parameters. Vibration is one of the critical factors in the machine health, FFT analyzers are used to measure vibrations in the machine. However, the cost of these FFT analyzers is very high and it becomes difficult to use it for small scale industries. Also, they rarely have a provision to measure the speed, temperature and power consumed by the machine. The present invention is an effort to provide a low cost and sophisticated solution to the existing health monitoring systems along with facility to measure various parameters like triaxial vibrations, noise, rotational speed, temperature and power consumption of machine. Arduino Mega 2560 microcontroller is used along with sensors and integrated to MATLAB GUI to store and display the acquired data. Further, the acquired data is transmitted through wired and wireless networks using Internet of Things (IoT) connected devices. This facilitates the flexibility and accessibility of system parameters for supervisor to optimize the process. The developed device was compared with existing systems and found a good agreement up to 99.175%. This device can be highly useful in the small scale industries where high cost FFT analyzers become obsolete due to costing issue. Time domain is the analysis of mathematical functions, physical signals or time series of economic or environmental data, with respect to time. In the time domain, the signal or function's value is known for all real numbers, for the case of continuous time, or at various separate instants in the case of discrete time. An oscilloscope is a tool commonly used to visualize real-world signals in the time domain. A time-domain graph shows how a signal changes with time, whereas a frequency-domain graph shows how much of the signal lies within each given frequency band over a range of frequencies. A function or signal can be converted between the time and frequency domains with a pair of mathematical operators called as transform, i.e. the Fourier transform, which converts the time function into a sum of sine waves of different frequencies, each of which represents a frequency component. The 'spectrum' of frequency components is the frequency domain representation of the signal. The inverse Fourier transform converts the frequency domain function back to a time function. A spectrum analyzer is the tool commonly used to visualize real-world signals in the frequency domain.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 201721003774



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-148

Multi DOF Manual Precision Positioning Mechanism With Motion Amplification

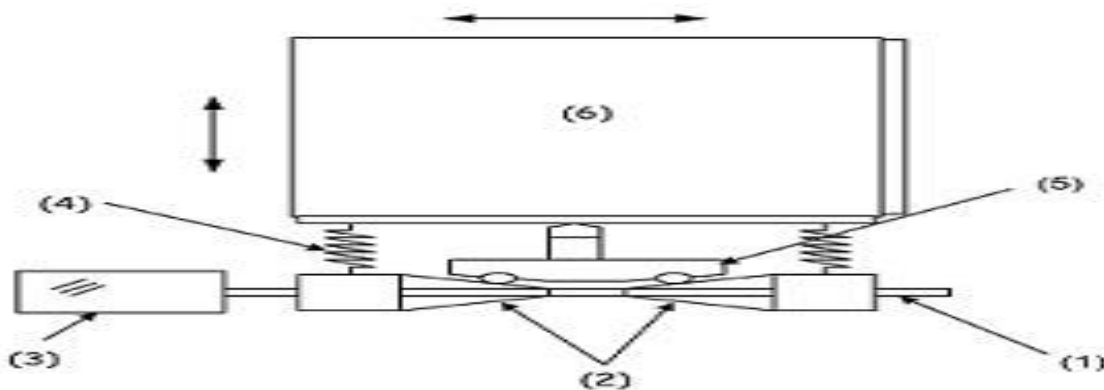
Mr.Suhas Deshmukh

A-1001, Megh Malhar Raga, S. No. 54, NDA Road, Bavdhan,pune

ABSTRACT-

The present subject matter relates to manual precision scanning mechanism for single, two, three or more degrees of freedom. It converts rotary motion into linear motion in perpendicular direction also provides amplification and de-amplification by using combination of LH & RH threaded tapered nuts and LH and RH threaded lead screw.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 201721034464



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

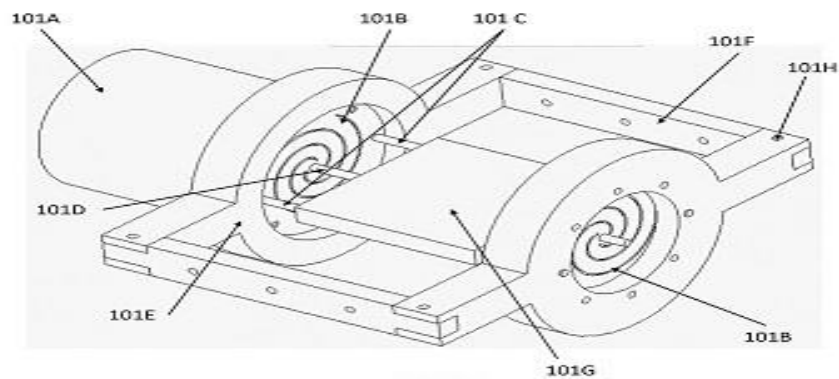
CIPCIS 2019 : P-149

Sensor-Less XYZ Scanner For Precision Application

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A-1001, Megh malharraga, s.no -54 behind Maratha mandir, bavdhan khurd, pune. info@krishnaandsaurastri.com

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 201621027261



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-150

Cutting Dies For Kolhapuri Chappal And Automation Thereof

Ganesh Suresh Jadhav¹, Urmi Ravindra Salve², Suhas Deshmukh³

ABSTRACT-

Present invention relates to cutting dies for Kolhapuri Chappal manufacturing, consists two parts one is shoe sole (cutting of base of the Chappal) and heel of the Chappal. Die for shoe and heel will together manufacture Kolhapuri Chappal, die further automate the manufacturing process as against traditional manual manufacturing which involves large no of processes and tools such as sharp edged tool (rappi), current invention helps to make the process automate and improves manufacturing speed as well as accuracy along with reduction in artisans effort.

DIAGRAM / SCHEMATIC –

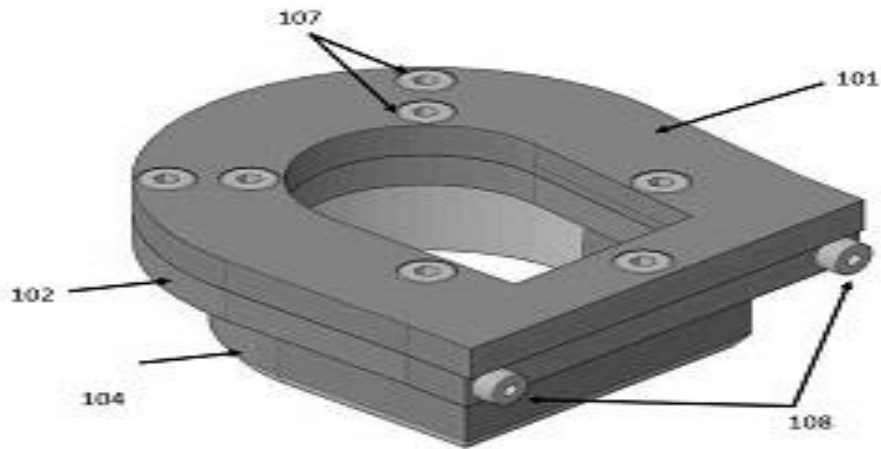


Figure 1

IPR APPLICATION / PATENT NO. – 201821034508



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-151

Flexure Spring

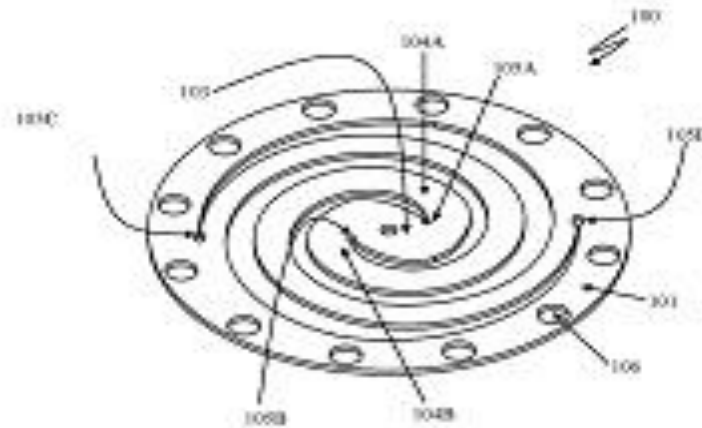
Mr. Mayur Jadhav, Mr. Fayaz Kharadi, Mr. Amit Jomde, Mr. Virendra Bhojwani, Mrs. Madhura Kulkarni

A2-12 Samrat Garden, Behind Vaibhav Theater, Hadapsar, Pune

ABSTRACT-

FLEXURE SPRING A flexure spring having an outer rim and a diaphragm with an integral central core having a shaft opening configured thereon. The flexure spring comprises at least one spiral arm extending circularly in a radially outward direction from the central core, wherein the thickness of the spiral arm is maximum at the initial part of the spiral arm extending from the central core and the thickness gradually reduces along the length of the spiral arm. The flexure spring further comprises at least one stress relief zone defined at both ends of the spiral arms.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 3053/MUM/2015



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-152

A Drying And Roasting Solar Energy Apparatus And Method Of Using The Same

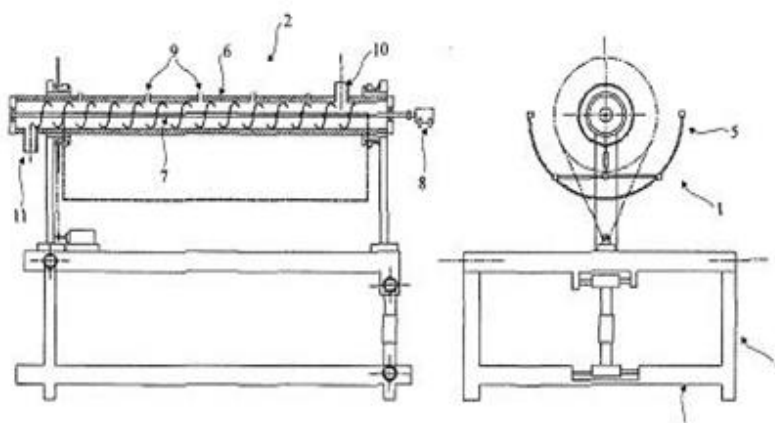
Prof.S.B.Kumbhar¹, Mr.Samir Bhagvan²

Near Zp School, A/P Narsinghpur (Tal - Walwa, District - Sangli-415409,
Maharashtra State, India
Rajarambapu Institute Of Technology
Rajaramnagar, Sakharale - 415414 (Islampur) Taluka: Walwa, District: Sangli, Maharashtra State, India

ABSTRACT-

The invention relates to the food-processing-industry and drying and roasting solar-energy-apparatus. In the existing systems, where heat is removed from heat-receivers with the help of working fluids like steam, hot water, thermal oil and such other heat-removing agents and supplied to utilization side where food material is to be heat-processed it becomes very difficult to control the operating temperature range applied to food material. In the present invention, a focal-line-location-adjustment-mechanism is provided to enable changing location of focal line of reflector trough with respect to location of center line of heat-receiver-pipe, thereby supplying appropriate needful amount of solar-heat-energy to process the food material at adequate temperature-range. The invention is used in the food-processing industry to dry and roast the food material.

DIAGRAM / SCHEMATIC-



IPR APPLICATION / PATENT NO. – 304/MUM/2013



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-153

Vibration Massager

Dr. A. P. Kakde

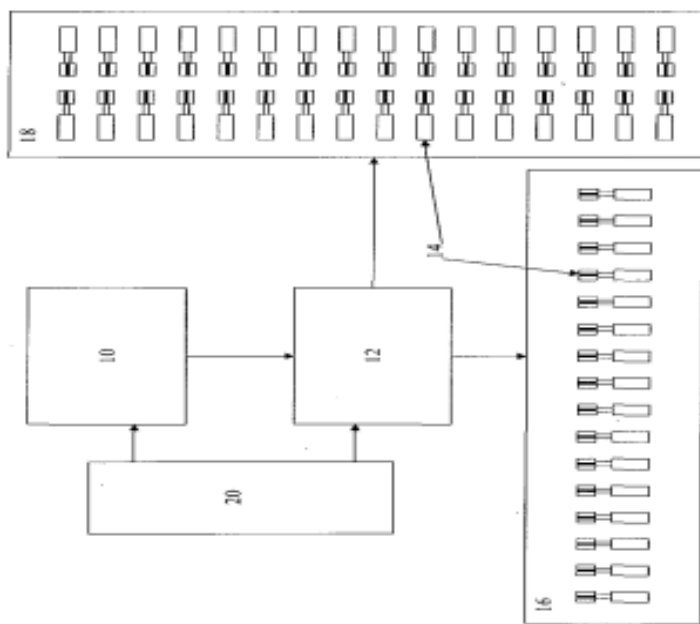
Chahur, Baji Niwas, Post - Krishna Nagar, Taluka & District - Satara, Pin Code 415003, Maharashtra, India.

RAJARAMBAPU INSTITUTE OF TECHNOLOGY
Rajaramnagar, Islampur, Dist. Sangli - 415414, Maharashtra, India.

ABSTRACT-

The present disclosure relates to a vibration massager configured to provide alterable vibrations of different patterns and varying intensity, frequency and speed. The vibration massager in accordance with the present disclosure comprises a belt, a plurality of vibrators operatively secured to said belt, wherein said vibrators are adapted to generate vibrations, a control system including a driver circuit and said driver circuit adapted to control vibration of said vibrators and a power supply unit adapted to power said plurality of vibrators and said digital control system, wherein at least one of said plurality of vibrators are adapted to generate alterable vibration patterns by varying at least one vibration parameter. A method of generating alterable vibrations by the vibration massager is also disclosed.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 2971/MUM/2013



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-154

An Apparatus For Preparing Curd

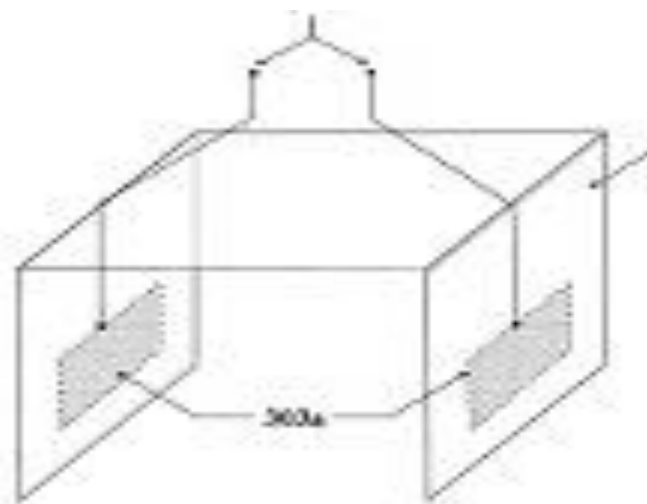
Prof. Kakade Anandrao Bajirao

Chahur, Baji Niwas, Post - Krishna Nagar, Taluka & District - Satara, Maharashtra Pin Code 415003, Maharashtra,
India, Rajarambapu Institute of Technology Rajaramnagar, Islampur, Dist. Sangli - 415414, Maharashtra, India

ABSTRACT-

An apparatus for preparing curd, the apparatus comprising: a housing including: a door for accessing a space inside the housing; a vessel disposed within the housing for holding mixture for preparing the curd; and optionally a plurality of supporters for supporting the housing; and a control unit comprising: a temperature meter with a temperature sensor for monitoring temperature in the space; at least one of a curd sensor and a pH meter comprising a pH sensor dipped in the mixture, wherein the curd sensor monitors electrical conductivity of the mixture and the pH sensor monitors pH of the mixture during fermentation process; a heater for heating the space; an intelligent system, typically a micro-controller, coupled to the temperature meter, pH meter and heater, the intelligent system controlling the temperature within the housing thereby controlling the pH value of the mixture; and a power supply for powering electrical and electronic components.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 2972/MUM/2013



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-155

System For Piracy Detection And Method Therefor

Dr. Chhaya S. Gosavi, Dr. Suresh N. Mali

Associate Professor, Maharashtra, India, chhaya.gosavi@gmail.com, 9850239897

ABSTRACT-

The present invention relates generally to techniques for embedding a watermark and more particularly, to a system and a method for piracy detection using video watermarking. Video watermarking refers to embedding a watermark in a video sequence in order to provide protection against an illegal use and to identify manipulations if any. An objective of the present invention is to design a robust, blind, imperceptible digital video watermarking methodology to provide copyright protection in a frequency domain to sustain against geometric, signal processing and collusion attacks and to provide watermarking in a video stream as well as in an audio stream of an input video. The system comprises a generation unit, an embedding unit and an extraction unit. The generation unit is adapted to generate a watermark for an input video. The generation unit comprises an input module, a feature extraction module and an output module. The input module is used for entering the input video into the generation unit. The feature extraction module is adapted for extraction of key frames of the input video. The output module generates the watermark corresponding to the input video. The generated watermark comprises a video signature, a time stamp and copyright information. The embedding unit is operably connected to the generation unit and adapted to embed the generated watermark in the input video. The embedding unit comprises a first splitter, a scene change module, a processing module and a first merge module. The first splitter is adapted to split the input video into a video stream and an audio stream, and the generated watermark into sub watermark images. The scene change module identifies scene change frames of the video stream. The processing module processes the sub watermark images to generate sub shares. The processing module also processes the audio stream to generate a watermarked audio sequence and the video stream to generate a watermarked video sequence. The first merge module is adapted to merge the watermarked audio sequence and the watermarked video sequence to generate a watermarked video. The extraction unit is used by a user to detect an authenticity of the input video. The extraction unit is adapted for extracting the embedded watermark from the input video. The extraction unit comprises a second splitter, a scene change detection module, an extraction module, a second merge module and a compare module. The second splitter divides the input video into the video stream and the audio stream. The scene change detection module identifies scene change frames of the video stream. The extraction module is adapted for extracting information embedded in blocks of scene change frames of the video stream and the audio stream to generate the sub shares. The second merge module is adapted to merge the sub shares to reconstruct the watermark. The compare module compares the reconstructed watermark with an original watermark to know the authenticity of the input video.

IPR APPLICATION / PATENT NO. – 331/MUM/2015A



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-156

Innovative System To Improve The Settling Of Sediments In The Water Storage Tank

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Assistant Professor, Maharashtra, India, Gajanan.Supe@Pccoer.In,

ABSTRACT-

Many times the crushing industries or construction industries may be located in the area of water sources which deposits huge particles in water, and such water is responsible for blockage of taps, showers and water sprayers connected to water supply system of the building, leaving the layers of sediments on the floors of bathrooms and toilets, which needs regular cleaning, with the wastage of the huge quantity of water.

IPR APPLICATION / PATENT NO. – 331/MUM/2015A

CIPCIS 2019 : P-157

SOLID FUEL DIESEL ENGINE WITH INDUCTION OF SOLID FUEL

Ladekar Chandrakishor Laxman, Khandare Shashikant Shrikumar

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ABSTRACT-

The present invention is related to use of solid fuel as an alternative form of energy in a modified internal combustion engine. The fuel injector of the conventional diesel engine has been replaced with coal carburetor (Coal Power). It has a hopper in which the coal powder of volatile coal is filled with size of 30-75 micron by granulating it from large size coal. The coal pump in the system is working as coal carburetor which is controlled by DC series motor whose speed can be controlled and the rotor of the carburetor is rotated using DC series motor. The metered quantity of coal is taken by carburetor Docket from bonnet and supplied to the suction manifold. When the pocket goes to intake manifold. The coal is inducted to the engine cylinder manifold in the flowing air. The coal enters the engine cylinder through the intake valve of engine. The mixture of coal and air is heated to very high temperature due to compression of air. The diesel fuel is injected at the end of compression stroke which self ignites and burns because of which the coal particle is ignited. The flame is generated in the engine due to which the coal particle burns at faster rate producing power at the engine crank shaft. The present system provides use of solid fuel as coal and has an additional feature of coal carburetor to supply coal intake manifold. This system has payback cost of the system and is at par with the liquid fuel engine. It has wide range of applications due to availability of low cost fuel.



CIPCIS 2019 : P-158

Innovative And Efficient Logistic System For Sugar Industries

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ABSTRACT-

Innovative logistic system for sugar industry through which there will be hike in profit of farmers raw material without compromising profit of the sugar industries, and will increase GDP of the nation against less fuel consumption with sense of environmental impact assessment, permanent solution to road traffic with decrement and control over the accidents, use of speedy transportation vehicles related to the sugar industries will cause less maintenance for existing road infrastructure, and farmers are able to have another crop due to in time response from sugar industries.

IPR APPLICATION / PATENT NO. – 201621030821

CIPCIS 2019 : P-159

Innovative And Efficient Smart Calculator With Unit-System

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ABSTRACT-

Smart Calculator in which input data in any unit-system (SI,MKS,CGS) entered is shown directly on display with numerical value along with its unit, is processed through inbuilt transformation system at the time of entry itself, and solve the problems of millions of users in finding final answer as per their choice in any of above said unit-system, that saves the time of user as a main resource, build confidence of solving the mathematical problems, required less time to convert final answer in various unit, as in every field calculations are required to be carried out with various unit-system, users will enjoy calculations with ease and accuracy

IPR APPLICATION / PATENT NO. – 201621032482



CIPCIS 2019 : P-160

An Alteration In Screwdriver To Make It Easy To Grip And Apply More Torque

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ABSTRACT-

Tip of screwdriver is kept on target screw, wings are pulled outside so that they will be perpendicular to the cylindrical shaft, for tightening purpose handle is moved in clockwise direction and for removing purpose, it is moved in anticlockwise direction, action of wings is used whenever the grip is required and screws are tight.

CIPCIS 2019 : P-161

Alteration In Mobile Charger With Heat Level And Charging Percentage Indicator On The Charger

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ABSTRACT-

A innovative and easily displayable friendly charger consisting of a LED board onto which 2 units are displayed showing battery percentage and heat level of the charger which is programmed onto a IC which is fitted in the charger. This features are given for easy access. The heat level displayed on the LED board, is to prevent charger from overheating and thus will increase the life of the charger. The second specification which is showing the battery percentage of the mobile to prevent it from over charging. The main motive to build this charger is to increase the life of the charger as well as the cell phone or mobile, to make this product, overall positive and success.



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-162

River Sweeping Arm, (River Cleaning System With Screening, Chlorination & Aeration)

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ABSTRACT-

This system is the solution for river pollution, they reduce water purification load on water treatment plant. This system reduces the suspended particles from river. The chlorination process helps to increase the quality of water by killing the bacteria. We mix the chlorine and increase the dissolved oxygen and removing harmful gases from river water by process of aeration.

CIPICIS 2019 : P-163

Gear Pedal Operated Side Stand Retrieving Mechanism

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ABSTRACT-

This invention relates to Side stand retrieving mechanism for motorcycles. An auto retractable type side stand in two wheeler comprises of two holding member depending upon the gear shifting pattern, characterizing TOE side and HEEL side, of the gear shifting pattern of the vehicle and where the input come from the rider who takes the vehicle by engaging the first or any other gear with the help of HEEL or TOE rest through which the force is applied on gear pedal, then due to the mechanism between gear pedal and pivoted holding member, the member get disengaged through the attachment between fixed holding member and pivoted holding member. Thus due to the torque produced by torsion spring which is attach to side stand, side stand get lifted up from its service position (parking position) to retrieved position.



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CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)



CIPCIS 2019 : P-164

Side Stand For Motorcycle

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ABSTRACT-

The present subject matter discloses a system for side stand for motorcycle. The system comprises a movable side stand and an actuator attached to the said side stand. The actuator operates to rotate the side stand between an up position and a down position. The actuator is actuated by a manually operated switch mounted on a handlebar of a motorcycle.

CIPCIS 2019 : P-165

System For Automated Monitoring And Controlling Of Unauthorized Settlement In Urban Areas Using Remote Sensing

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ABSTRACT-

A system and method of automated monitoring and controlling of unauthorized settlement in urban areas using remote sensing is presented. The system comprises; input as satellite or Arial images of targeted urban areas over a time interval; Geographical Information System(GIS) of selected area; the processor such as GPU for image analysis and validation with town planning sanctioned data; the automated hardware system to communicate the municipal commissioner and respective authorities of selected area for further action and controlling.



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CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)



CIPCIS 2019 : P-166

System And Method For Recognizing Musical Instrument Sound Using FRFT Based MFCC Features

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ABSTRACT-

The automatic classification of musical instrument has been built using novel Fractional Fourier transform (FrFT) based MFCC feature. The discriminating capability of the proposed features have been maximized for between-class instruments and minimized for within-class instruments compared to other conventional features. Also, the proposed features show significant improvement in classification accuracy compared to other conventional features. McGill University Master Sample (MUMS) sound database has been used to test the performance of the system. Keywords: MFCC, FrFT, Musical instrument classification, FrFT-based MFCC features.

IPR APPLICATION / PATENT NO. – 201621012767

CIPCIS 2019 : P-167

System And Method For Recognition Of Human Emotions

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ABSTRACT-

System and method for recognition of human emotions using Electrocardiogram (ECG) signals are disclosed. Hilbert Huang transform is used to analyze ECG signals to detect emotions. Less number of physiological signals are used to serve the purpose and the recognition rate is also good.



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-168

Energy Efficient Railway Tunnel

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ABSTRACT-

It has been observed that; Railway sector is one of the major electricity consumers in India. In Indian Railway sector, there are more than 50 tunnels having length more than 1 Km. All these tunnels are continuously ON which causes wastage of electricity. In this proposal Energy efficient railway tunnel has been claimed. In this proposed claim, the tunnels will be made ON and OFF as and when required using electronic control and switching circuitry which includes load cell, detector, microcontroller and relay with buzzer driver circuit. In this patent, the detail analysis of Nine Tunnels having length more than 1 Km as well as lamp cost analysis has been presented.

Key words: Load cell, Detector, Switching, Electricity save.

IPR APPLICATION / PATENT NO. –: 201621020163

CIPCIS 2019 : P-169

Design And Implementation Of Shielded Channel Double Gate Junction Less Metal Oxide Semiconductor Transistor For Low Power And High Performance

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ABSTRACT-

This invention describes a multi-material double gate junctionless metal oxide semiconductor transistor this device comprises a semiconductor material, which is divided into first (2), second (3) and third (4) portions. The first (2), second (3) and third (4) portions are doped with dopants of the same polarity and the same concentrations. The gate conductor is formed on the gate dielectric and an active area (3) is located in the semiconductor layer under the gate dielectric on both top and bottom side. The source (2) and drain (4) regions and active area have the same conductivity type. The transistor device further comprises an electrode-two (5) which is present on both top and bottom portion of the transistor device and electrode-one (6) is connected to the side of electrode-two (5) of top portion.



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-170

Design And Development Of Mea For High Peak Power Fast Responding PEM Fuel Cell

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ABSTRACT-

For effective working of any system, the power source should supply power according to load demand. Fuel cell can be used as power source if the load demands constant power. Response of fuel cell to the instantaneously changing load is very less due to slow reaction kinetics of the fuel at electrodes. Supercapacitor can be used as power source if load demands large power for short duration. Continuous power for longer durations using Supercapacitor is not possible. For the load like motor load or electrical vehicle load, the load requires large power at start, during acceleration and for uphill, while nearly constant power for continuous operation. Such type of load characteristics cannot be supplied by only fuel cell or only Supercapacitor. In practical cases, to supply such loads, a parallel combination of fuel cell and Supercapacitor or parallel combination of battery and Supercapacitor is used called as Hybrid System. The space required and cost of hybrid system is always more. The present invention proposes design and development of membrane electrode assembly (MEA) for a power source which includes features of both Supercapacitor and PEM fuel as a single power source and therefore it is novel and highly useful for electrification and transportation (Electric Vehicle).

IPR APPLICATION / PATENT NO. – 201621007958

CIPCIS 2019 : P-171

Advance Speed Control System Using Wireless Communication

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ABSTRACT-

Advance Speed Control System using Wireless Communication is described. The system comprises a Hardware system for Speed Control and Mobile App. A Hardware system for Speed Control comprises GPS, Microcontroller, GSM, Buzzer, and Speed Violation Indicator. If driving speed is greater than threshold value, Microcontroller sends signal to ring buzzer and to turn on speed violation indicator. After receiving speed violation alert, driver can slow down the driving speed. If driving speed is greater than threshold value, processor also sends message containing information such as driving speed and location to registered mobile number using GSM. Using Mobile App the user can store mobile number and speed threshold value in memory associated with Microcontroller. Using Mobile App, the owner of the vehicle can also track the location of the vehicle.

IPR APPLICATION / PATENT NO.– 201621017763



CIPCIS 2019 : P-172

System And Method For Predicting Heart Disease Risk Factors

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ABSTRACT-

System and method for predicting heart disease risk factors based on handwriting analysis is disclosed. The writing features such as horizontal lines, vertical lines, left slant, right slant, total length of horizontal baselines, total length of vertical baselines, total number of left slant lines, total number of right slant lines, size, pen pressure etc are used to predict the presence of heart disease risk factors and the type of the heart disease risk factors. The system is easy to use, cost effective and user friendly. The recognition rate is also good.

CIPCIS 2019 : P-173

System And Method For Predicting Human Emotional State

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ABSTRACT-

System and method for predicting emotional state based on handwritten text is disclosed. The writing features such as letter size, letter slant, top margin, bottom margin, left margin, right margin, spacing between the words and lines, baseline, pressure etc are used to predict the 'emotional state of the writer. The system is cost effective, and user friendly. The recognition rate is also good.

IPR APPLICATION / PATENT NO. – 20172023790



CIPCIS 2019 : P-174

Driver Aligned Seat Belt Position Sensor To Avoid False Use Of Seat Belt Safety System

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ABSTRACT-

A system for proper use of seatbelt safety system, the said system uses a seatbelt with heartbeat sensor/strain gauge, the said arrangement enables driver to wear the seatbelt from backside to avoid uncomfortable feeling or due to laziness by using heartbeat sensor with seatbelt which sense the heartbeats of driver and continuous warning alarm is given by locking sensor till driver locks seatbelt from front side, modification over conventional seatbelt system which unable to locate proper position of seatbelt, sensing position of seatbelt with respect to driver, over the chest of driver, ensure proper locking of seatbelt, avoid improper use of seatbelt, ensures safety of driver and occupants and minimizes the possibilities of body damage during accidents, helpful to avoid violation of Traffic Rules.

IPR APPLICATION / PATENT NO.- 2186/MUM/2015

CIPCIS 2019 : P-175

An Auto-Adjustable Headlamp Of The Vehicle For Safety purpose

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ABSTRACT-

When we are driving the car in the night time, headlamps can be one of the reasons for the major accidents happening in the night time. While driving if there's any vehicle coming from opposite side; sometimes there is divider between two way road and sometimes not. It is expected that both the drivers should shift their headlamps to the low beam for avoiding the problem of non-visibility of the road for certain time due to glare coming from the opposite light. But possible reasons for not keeping the headlamps on the low beams can be avoiding to move the lever time to time from high beam to low beam due to laziness and most of the times on low beam, left side of the roads are literally not visible (according to Indian driving conditions). If there is any pot holes pits or valleys on left side, we have to slow down the speed of the car so most of the drivers don't follow the rules which can lead to major accidents. In my concept I am developing the system in which only the right headlamp shifts to the low beam automatically and only if there is any possibility of the car coming from opposite side so that the visibility of left side is maintained and fatigue of the driver is also eliminated or reduced. According to the concept first of all the headlamps will originally on the high beam position and then the ultrasonic sensor will sense the obstruction which in our case is divider between roads. So if there is any divider both the headlamps will remain on high beam but if there's not, system will shift only right headlamp on low beam hence the problem will be solved."

IPR APPLICATION / PATENT NO. – 158/MUM/2015



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CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-176

Optimization Of Overhead Conveyers For Noise, Vibration Reduction & Stable Operation

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ABSTRACT-

An overhead conveyer system for noise, vibration reduction & stable operation comprising: - A conveyor system which is a common piece of mechanical handling equipment that moves, transport products, pieces or parts from one location to another, the said system is especially useful in applications involving the transportation of heavy or bulky loads and odd shaped items to suitable location, it allow quick and efficient transportation for a wide variety of materials, which make them very popular in the material handling and packaging industries. Conveyor systems are used widespread across a range of industries due to the numerous benefits they provide in material handling. - As conveyor systems are commonly used in many industries, including the automotive, agricultural, computer, electronic, food processing, aerospace, pharmaceutical, chemical, bottling and canning, print finishing and packaging, safety & mental fatigue become prime consideration in designing of overhead conveyers. In conventional conveyer system or over conveyer system I-Beam track are used, chain, side bars, center links, pins & high carbon steel wheels or rollers are used. All these mechanical parts creates huge noise & vibration during production run. This noise & vibrations are caused by surface contact of high carbon steel wheels that is too from both side of I-Beam track, during running condition. Also noise is caused by trolley with "H" or "I" attachment. - Instead of using high carbon steel rollers or wheels on I-Beam track, we could use hardened plastic spherical roller from one or either side of the I-Beam track, which will form only point contact with track & produce minimum noise & vibrations, also hardened plastic spherical rollers will helps for smooth running of conveyer.

IPR APPLICATION / PATENT NO. – 157/MUM/2015



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CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)



CIPCIS 2019 : P-177

An Alteration In A Pen For Easy Viewing Ability

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ABSTRACT-

A system for better viewing in case of writing letters or any document, the said system uses a combination of ball pen and a attachment of magnifying lens, the said magnifying lens attachment is to be fitted to a ball pen by some external arrangement, the said magnifying lens is of +8 diaptor, the said magnifying lens attachment can be adjusted depending upon the requirement, which helps for better viewing during writing. The overall cost of the said system is very small (Rs. 400)

IPR APPLICATION / PATENT NO. – 159/MUM/2015

CIPCIS 2019 : P-178

A Mobile-Portable Water Heater Attachable To Any Given Water Outlet Working On Domestic Electrical Supply

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ABSTRACT-

A system for heating running water from the domestic water outlets to any desired temperature. The device consists of the main heating unit plus an adapter that would be connected to any available electrical output. The main heating unit consists of a clamping mechanism that has been designed such that it facilitates the attachment and detachment of the heating unit from the water outlet. There is also a regulation knob that would help the user adjust the temperature of the water as desired. The required electrical input is supplied through the adapter. The Nicrome coil is the major heating unit internally working on the voltage-resistance relation. The complete system offers its users a time-saving, durable, portable and also inexpensive way of water heating with its price almost 33% of that of the conventional water heaters.

IPR APPLICATION / PATENT NO. – 1016/MUM/2015



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-179

A Portable Grinding Fixture For Regrinding Of Single Point Cutting Tool Of Lathe Machine

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ABSTRACT-

A system for regrinding the single point cutting tool of Lathe Machine, the said system uses a combination of Block along with LM guides, clamps, base plate, motor, battery, rack and pinion and screws, the said block is required to be mounted on LM guides, the said rack and pinion is to be fixed on block and motor respectively, the said motor fixed on base plate will transfer motion to block through rack and pinion, the motion of block is controlled by the switch, the amount of force required for grinding is controlled by motion of block towards grinding wheel. The said setup is able to provide exact angles on tool, the overall cost of installing this system is about Rs. 7000/-.

IPR APPLICATION / PATENT NO. – 965/MUM/2015

CIPCIS 2019 : P-180

Solar Powered Portable Bucket Air Conditioner

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ABSTRACT-

A normal air conditioning system consists of a vapor compression cycle comprising of a compressor, condenser, expansion valve and an evaporator; however this system has many moving parts as well as valves and consumes very high power even if it is switched on for a small duration of time; hence a new system have been introduced which is a new clean, and nonpolluting air conditioning system wherein air conditioner is a simple air conditioner powered by solar energy; this system works on the principle of forced convection and has chilled water kept in a Styrofoam bucket which is placed inside an outer plastic bucket and this Styrofoam bucket provides insulation to chilled water/ice; when air is blown over the chilled water, cool air is formed in the bucket and this cool air is circulated to the room with the help of PVC pipes provided on the periphery of the bucket; a photovoltaic cell which is placed outside of the house, and a small battery which is also fixed with the cell for powering the fan; this air conditioner is thus a best & most economical solution for the rural areas or any remote place of the world as; the only additional requirement for the system being chilled water which is available in almost everywhere in the domestic purpose.

IPR APPLICATION / PATENT NO. – 455/MUM/2015



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CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-181

Modified Paper Sheet Perforator Cum Stapler

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ABSTRACT-

A system which is a modified version of the paper sheet perforator (commonly known as "paper punching machine") also attached with a stapler. The conventional paper sheet perforator is reduced in size such that there is a provision for one punching hole instead of the conventional two punching hole. The assembly of the paper sheet perforator and the stapler is held together with the help of one long bolt which is 30 to 35mm. The entire assembly is of 45 to 55mm length and nearly 50 mm width. The sheet of paper that is to be punched is first folded (to obtain proper alignment) then inserted through the gap in the perforator. The result is that there are two holes on the sheet of paper by a single punch. The die plate (base plate) also has the provision for bending the staple pins and holding the plastic reservoir. The stapler that is attached is a medium sized stapler that is available in the market for a nominal cost. The base part of the stapler that does the bending of pins is incorporated within the base part of the device. So the working of two devices is done by a single apparatus. The main objective of this invention is to provide the benefits of two daily used devices into one. There is also a considerable reduction in space and material. This system can be used anywhere by students, clerks, office workers or anyone who use staplers and perforators for daily use. The system is reliable and works like the conventional devices.

IPR APPLICATION / PATENT NO. – 1614/MUM/2015

CIPCIS 2019 : P-182

A Clinical Thermometer For Rural India

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ABSTRACT-

A thermometric system for the rural India, said system comprising: input means adapted to receive contact with the human body whose body temperature is to be measured; the mercury bulb used to receive heat from the body whose temperature is to be measured; connecting wire of minimum resistance, said connecting wire is used to complete the electric circuit, is connected to mercury bulb at one end and to the button cell holder at the other end; button cell holder, said button cell holder is used to insert the button cell and is of the same specification as that of the button cell; button cell, said button cell is a silver cell and acts a source of electricity; LED (Light Emitting Diode), said LED acts as a visual indicator and lights up when the body temperature of the human body is greater than the normal body temperature and the connecting wires is again connected to the stem of the clinical thermometer allowing it to make contact with the mercury of bulb.

IPR APPLICATION / PATENT NO. – 2127/MUM/2015



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-183

A System Which Gives An Indication Before The LPG Cylinder Is Completely Empty And System Gives The Time For Which LPG Is Utilized

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ABSTRACT-

Gas cylinder getting empty suddenly, is the major problem faced by the many households and commercial users and also in case of emergency, changing empty cylinder is a time consuming process. So as to resolve this problem in today's time many people have invented a system which uses weight of the cylinder as a parameter to determine the quantity of Liquefied Petroleum Gas remaining in the cylinder. Some inventors have used load cell at the bottom of the cylinder which also rings the alarm before the cylinder gets empty. But as the cylinder is continuously placed on the load cell it can cause permanent deflection which results into error in the system. So, in this new invention, the gas stove is modified in such a way that it's displayed how much time the Liquefied Petroleum Gas in cylinder is utilized and an indication to order for the next gas.

IPR APPLICATION / PATENT NO. – 3433/MUM/2015

CIPCIS 2019 : P-184

Effective Attendance Monitoring Using Smart-Phone

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ABSTRACT-

A system is invented for effective attendance monitoring, the said system uses a mobile phone for monitoring attendance in a classroom, in the said system biometric scanner application is used for attendance recording, the said system has an inbuilt feature to scan the fingerprint of individual student and his attendance is monitored, the said system minimizes time of attendance and error less attendance is taken without proxy attendance, the said system this feature requires only one smart phone to monitor the attendance, the said system saves stationary and avoids paperwork.

IPR APPLICATION / PATENT NO. – 4718/MUM/2015



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CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)



CIPCIS 2019 : P-185

Integrated Wireless Online Oil Condition And Oil Level Monitoring System For I C Engine

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7774076967

ABSTRACT-

The deterioration rate of Lubricating oil in internal combustion engines is strongly depends on the blow by gases, the fuel quality, the ambient conditions and engine parameters like speed, distance travelled Engine temperature etc. In order to avoid an engines thermal fatigue failure, the oil must be changed in regular intervals i.e. before it loses its protective properties like Viscosity, Total acidic number and total base number, soot concentration and water content etc. At the same time, an unnecessary oil change should be avoided for environmental and economical reasons as still active additives left in the oil may react with the environment and may cause harmful effects. Also in our experimental study, we have tested above said properties of oil after every 1000 km distance travelled and it is proved that engine"s lubricating oil losing its protective properties before completion of 3000 km which is reference set by oil manufacturer as oil changed interval. Today, in automotive applications, condition of the engine oil is monitored indirectly by measuring engine"s operating parameters and they do not physically measure the condition of lubricating oil in the crankcase. The same system can"t tell if the oil is contaminated with coolant or soot, if additive packages are depleted and if it is low. Currently proposed wireless system uses Bluetooth technology which integrates oil condition and its level monitoring which uses temperature sensor, ultrasonic sensor and both the sensors are integrating with oil filling cap. Both the Sensor integrated with oil filling cap is put up in the engine crankcase. Programmable coding language will be developing for effectively analyzing the signals from sensors like oil level in engine crankcase and oil temperature to evaluate oil"s viscosity, soot concentration etc. and when different oil properties reaches its deterioration level or oil level falls below optimum level; corresponding indicator will indicates that the oil needs to be replace or fill.

IPR APPLICATION / PATENT NO. – 3106/MUM/2015



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-186

System For Monitoring And Identifying The Working Status Of Appliances In A Network

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ABSTRACT-

The present invention relates to a System for monitoring and identifying the working status of appliances in a network using Android mobile or display device. The device will monitor all the appliances like an array of light bulb, array of Fans, array of speakers, array of water coolers or other appliances using an android application. In the present invention there is feedback unit which will be indicated on mobile application at the same time it will be displayed on controller using led's. There are many systems present but no one is telling about working status of appliances automatically. The present invention not only controls the switching of appliances but also the working status of appliances which can be seen on application. The microcontroller is used here to do controlling and as well monitoring according to feedback generated by sensors present near the appliances in realtime.

IPR APPLICATION / PATENT NO. – 4157/MUM/2015

CIPCIS 2019 : P-187

Automatic Waste Segregator

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ABSTRACT-

says 1,60,000 metric tonnes is the amount of garbage India generates every day! Most of this is wet waste, which can be used to produce fertilizer and generate electricity. Studies say that waste which is segregated is very valuable which can be then used to produce fertilizers, generate biogas and electricity. Whereas, waste dumped unsorted in open, like it is done presently in India, produces harmful liquids and gases that spread diseases and also make that land barren on which it is dumped. So, effective and reliable waste management has become a need of the hour. The objective of this proposed project is to design a system to segregate the household waste into dry, wet and metallic waste. Waste is pushed through a flap into the proposed system. An IR proximity sensor detects this and starts the entire system. Waste then passes the metal detection system. This system is used to detect metallic waste. After this the object falls on the circular rotating disc. The waste is sensed by capacitive sensing module which determines the dry or waste wet based on its dielectric value. The circular disc then stops rotating and the waste is made to fall in the container of the corresponding garbage type.

IPR APPLICATION / PATENT NO. – 4828/MUM/2015



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-188

Wallet Protection And Monitoring Using Smartphone

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ABSTRACT-

A system is for the monitoring a men's wallet. Said system contains controller to monitor the valuables contain in the wallet. Valuables may be credit card, debit card, cash, other important document. These valuable are very important. Every time when we are leaving house, need to remember and check whether wallet is in your pocket or not and also valuables are in wallet or not. Said system provides a remainder for valuables. Said system also provided with anti-theft features. The said system has touch sensor mounted on outer body of wallet. The system will immediately notify to user when other human touches to wallet. The notification through sound in wallet and also on mobile. Said system can easily synch with mobile. Trough smart phones user can monitor wallet and elements containing in wallet. Said system uses Bluetooth and Wi-Fi modules to link with smart phones. Also said system help to search misplaced wallet through mobile.

IPR APPLICATION / PATENT NO. – 4614/MUM/2015

CIPCIS 2019 : P-189

Smart Boxes Notifying Unavailability Of Grocery

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ABSTRACT-

According to this invention, there is provided a system for easy checking of availability of substances remaining in the smart boxes, if the substance quantity is less then we get notification. The said system uses weight sensor to calculate amount of substance quantity remaining in the smart box, the said system consisting of weight/load sensor is connected to controller to convert the data into specific format, the said system require Bluetooth module to be integrated on controller which can send data to mobile/tablet provided the bluetooth of mobile/tablet is ON.

IPR APPLICATION / PATENT NO. – 4488/MUM/2015



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-190

Programmable Meal Feeding Robotic Arm For Handicapped

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ABSTRACT-

The system has been proposed such that it could benefit the society, specially to the people who are physically handicapped. Often we come across situation where people are not able to perform their day-to-day activities such as picking things up, placing or other activities including having their own meal. The system is proposed in consideration with such specially challenged people. The system comprises of microcontrollers, gesture controlled sensors and a robotic arm which is the main building block of the overall system. The arm could be such that it can be controlled using our foot movements in turn making the robotic arm perform its function of feeding the meal. Other way of controlling the system is through voice control which will enable the robotic arm to understand that the person is ready to take another bite. It can also be programmed by a normal human being as per the requirements of the situation using gestures movements which makes it possible to change the functioning of the arm.

IPR APPLICATION / PATENT NO. – 4615/MUM/2015

CIPICIS 2019 : P-191

Brainy Traffic Control System

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ABSTRACT-

The traffic signals used today works on counters and accordingly controls the traffic. The system used goes red or green for a fixed time irrespective of the traffic density on any particular road. This leads to traffic chaos on a very busy road. Our signal works exactly the same but is smart enough to judge which signal to go green and how long to remain green. As per our proposed idea:- We will use sensors which will check if any road has high traffic. Now we have two possibilities 1) If the sensors do not detect heavy traffic then it will force the controller to act as the conventional signal. 2) If the sensors detect heavy traffic then it will give an additional delay to that road when its turn comes. This can help reduce traffic on a densely populated road. And it will take care of all. the disadvantages of the system being used today.

IPR APPLICATION / PATENT NO. – 4958/MUM/2015



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-192

Driver Aligned Seat Belt Position Sensor To Avoid False Use Of Seat Belt Safety System

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ABSTRACT-

A System For Proper Use Of Seatbelt Safety System, The Said System Uses A Seatbelt With Heartbeat Sensor/Strain Gauge, The Said Arrangement Enables Driver To Wear The Seatbelt From Backside To Avoid Uncomfortable Feeling Or Due To Laziness By Using Heartbeat Sensor With Seatbelt Which Sense The Heartbeats Of Driver And Continuous Warning Alarm Is Given By Locking Sensor Till Driver Locks Seatbelt From Front Side, Modification Over Conventional Seatbelt System Which Unable To Locate Proper Position Of Seatbelt, Sensing Position Of Seatbelt With Respect To Driver, Over The Chest Of Driver, Ensure Proper Locking Of Seatbelt, Avoid Improper Use Of Seatbelt, Ensures Safety Of Driver And Occupants And Minimizes The Possibilities Of Body Damage During Accidents, Helpful To Avoid Violation Of Traffic Rules.

IPR APPLICATION / PATENT NO.- 2186/MUM/2015

CIPICIS 2019 : P-193

An Auto-Adjustable Headlamp Of The Vehicle For Safety Purpose

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ABSTRACT-

It is expected that both the drivers should shift their headlamps to the low beam for avoiding the problem of non-visibility of the road for certain time due to glare coming from the opposite light. But possible reasons for not keeping the headlamps on the low beams can be avoiding to move the lever time to time from high beam to low beam due to laziness and most of the times on low beam, left side of the roads are literally not visible (according to Indian driving conditions). If there is any pot holes pits or valleys on left side, we have to slow down the speed of the car so most of the drivers don't follow the rules which can lead to major accidents. In my concept I am developing the system in which only the right headlamp shifts to the low beam automatically and only if there is any possibility of the car coming from opposite side so that the visibility of left side is maintained and fatigue of the driver is also eliminated or reduced. According to the concept first of all the headlamps will originally on the high beam position and then the ultrasonic sensor will sense the obstruction which in our case is divider between roads. So if there is any divider both the headlamps will remain on high beam but if there's not, system will shift only right headlamp on low beam hence the problem will be solved.

IPR APPLICATION / PATENT NO.- 158/MUM/2015



Pimpri Chinchwad Education Trust's
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CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-194

Optimization Of Overhead Conveyers For Noise, Vibration Reduction & Stable Operation

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ABSTRACT-

An overhead conveyer system for noise, vibration reduction & stable operation comprising: - A conveyor system which is a common piece of mechanical handling equipment that moves, transport products, pieces or parts from one location to another, the said system is especially useful in applications involving the transportation of heavy or bulky loads and odd shaped items to suitable location, it allow quick and efficient transportation for a wide variety of materials, which make them very popular in the material handling and packaging industries. Conveyor systems are used widespread across a range of industries due to the numerous benefits they provide in material handling. - As conveyor systems are commonly used in many industries, including the automotive, agricultural, computer, electronic, food processing, aerospace, pharmaceutical, chemical, bottling and canning, print finishing and packaging, safety & mental fatigue become prime consideration in designing of overhead conveyers. In conventional conveyer system or over conveyer system I-Beam track are used, chain, side bars, center links, pins & high carbon steel wheels or rollers are used. All these mechanical parts creates huge noise & vibration during production run. This noise & vibrations are caused by surface contact of high carbon steel wheels that is too from both side of I-Beam track, during running condition. Also noise is caused by trolley with "H" or "I" attachment.

IPR APPLICATION / PATENT NO.- 157/MUM/2015

CIPCIS 2019 : P-195

Renewable Energy Portable Laptop Charger

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ABSTRACT-

The laptops used today, produce a significant amount of heat, all of which is lost. Due to this reason, the battery is not used to its full potential. The idea behind this patent is to utilize this wasted energy to improve the battery life of a laptop. This can be achieved using the principle of thermocouples. The more the heat generated, the more it will charge the battery.

IPR APPLICATION / PATENT NO.- 201621009917



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Laxminagar, Ravet, Pune-412101 (Maharashtra)

CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)



CIPCIS 2019 : P-196

An Innovative Lead Of Lead Pencil With Marking On Lead

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ABSTRACT-

A Lead in mechanical pencil is surprisingly finished at any stage of work, hence in this work a system is made that will indicate before lead is going to finish in mechanical pencil with the help of colour indicator on lead; the said lead pencil has all the necessary components of conventional lead pencil, the said lead of the pencil will have a coloured end, the said coloured end of the pencil gives indication with the help of coloured strap, the said coloured strap can be of any colour which will be distinct from the lead colour, the said lead pencils push mechanism pushes the lead in conventional manner, the said coloured lead is coloured only from outside, the use of this arrangement is to get prior intimation before the end of the useful portion of the lead, colour will be placed at a specific distance from starting point of lead to the end point of lead; eventually telling about that colour will be near to the finishing end of lead with specific distance of strap, When a person will see that indicator colour and will come to know that lead will finish in few time and will keep additional lead with him/her to avoid further losses; a lead may be of any diameter including from 0.2 to 5.6 mm and with different length, the cost to provide coloured strap is negligible.

IPR APPLICATION / PATENT NO.- 201621004333

CIPCIS 2019 : P-197

Design And Development Of Car Seat Constrainer System

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ABSTRACT-

A conventional car seat which is only adjustable in forward and the reverse movement by being fixed on the floor, is a convenient way for adjusting the distance between the pedals and the seat. Be that as it may, likewise, this can be perilous if the same is performed while the vehicle is mobile, as it would distract the driver to adjust the position of the seat rather than driving. In view of the foregoing, an object of the present invention is to provide a locking mechanism to prevent the driver from adjusting the position whilst the vehicle is in motion, to prevent any hazards that can take place due to the lack of focus of driver.

IPR APPLICATION / PATENT NO. – 201821020932



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-198

Utilization Of Heat Released During Cooking With Heat Pipe Embedded Thermal Energy Storage

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ABSTRACT-

According to this invention, there is a system provided for thermal energy storage in a cylindrical chamber, said system comprises: - A cylindrical tank made of stainless steel well insulated with an openable cover from top. - Two chambers in the tank separated by a copper plate - Embedded gravity assisted heat pipes in insulated tank such that evaporator section of the pipe lies below the copper plate and the condenser section lies above it. The copper plates have hole through it such that heat pipes just passes through the holes of the plate. - Stainless steel pipes which are made such that it entraps the steam which is released from cooking systems in household and commercial applications, like from a pressure cooker with its lid at the mouth of exit of steam from cooker and also a removable circular trapping element attached to the pipe which will entrap the steam from circular top vessels which are used for boiling purposes and this will direct the flow of steam in the pipe having a control valve which leads to bottom section of tank for storing its thermal energy. - Pipes carrying room temperature water to upper section of tank having an inlet valve and carrying hot water from bottom of upper section having an outlet valve to the end user. When the stainless steel pipes carry the steam into the tank, the evaporator section of the heat pipe in bottom section of tank thus gets heated up. This evaporates the working fluid of heat pipe carrying the latent heat to its condenser section. In the condenser section, the heat pipe gives off its heat by the condensing of its working fluid. As the condenser section of heat pipe lies in upper section of tank, this thus heats the incoming water or if required, any other fluid which comes in to upper section of tank through the inlet pipe. After a certain time interval, as the heat transfer takes place from condenser section of heat pipes to incoming water, water gets heated up without requiring any external electricity or any other power source. The hot water can thus be withdrawn by opening the exit valve in tank's upper section and can be provided to the end user through outlet pipe.

IPR APPLICATION / PATENT NO.- 201621022091



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-199

Novel Wiper Mechanism For Controlled Cleaning Of Windscreen

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ABSTRACT-

A double slider mechanism for motion of single wiper blade, the said mechanism uses a combination of a link which has two sliders attached to it, the said link is the wiper arm with a rubber or synthetic material wiper blade attached beneath the wiper arm to clean the windscreen, the said slider arms are connected to the slider pins as shown in the accompanying drawings, the said slider pins are provided to allow free rotation of the slider arm about the pin and to move the arm along the said guide-ways on the wiper arm to control the movement of the wiper and when the power is transmitted to one slider arm it moves the wiper arm with the help of slider pin, the said wiper cleans the required portion on the screen and then comes back to its mean position, the said motion continues for the other unclean portion of the screen and if the driver requires cleaning the portion of the windscreen in front of the said driver, then with a press of a button on dashboard the power will be only transmitted to the slider link which will control the said wiper arm to clean the portion of the windscreen in front of the said driver.

IPR APPLICATION / PATENT NO.- 201621012927

CIPCIS 2019 : P-200

Burning Feet Sole Cooler

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ABSTRACT-

The present invention relates to solar powered ice box integrated with thermoelectric generator and cooler. The invented device works on solar energy and does not require any additional power source in any form. The device generates the electric power by using solar energy as heat source through thermoelectric generator. The electric energy stored can be further supplied to the thermoelectric cooler and cooling effect can be generated. The device is portable in nature and can be mounted directly on the bicycle, tricycle, trolley and cart. The invented solar powered ice box can be used for the icebox cargo bicycles or tricycles, ice cream trucks, refrigerated cargo tricycle, ice cream cart, Ice Cream Rickshaw. The invented system can be used in ice cream cart manufacturing industry.

IPR APPLICATION / PATENT NO. – 201821035732C



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-201

An Innovative Base Adjustable Two In One Stapler Punching Machine With A Two-Hole Punching Mechanism

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ABSTRACT-

This invention deals with providing convenience to the people working in the Offices or even in the government sector, whereas also in the banks or places where documents are needed to pinch and staph: together. In general, by the help of this mechanism stated in this invention the user gets 'to use mafia-us combinations of the mechanism by only adjusting the screw type locking system which is attached to both stapler as well as the punching unit. A problem always arises when we have to attach any document and at the same time we have to punch any bunch of documents we have to carry the stapler as well as the punching unit at the same time, and many times the situation takes place that we may forget anyone of the both either stapler or the punching unit which can prove Very irritating at the time of hurry. Thus, this is the device or the unit that can serve both the need from stapling the documents to punching the documents in a single mechanism. More particularly this invention will help the user to either punch the documents or either staple the documents or both punch and staple the document the whole at the same time with a single press of the machine. Also, the cost of this unit would be much less as compared to the cost of individual stapler and punching units which are separately available in the market right now.' Thus, this invention mainly focuses on providing the easiness and comfort to the user. A special purpose locking and unlocking system or a mechanism or we can simply call it as a key, is also introduced in this invention through which we can either do the stapling or punching individually or both at the same time by just adjusting the screw by locking and unlocking method. Now another big advantage in this invention is that we can adjust the base of the stapler and punching on which they are mounted. The advantage of this mechanism is mainly that we can adjust the width or the distance between points where have to punch and the point where have to staple as the distance may differ according to the size of the paper. Also, another plus point of this invention is that we can punch the two holes at the same time in the document rather than just one-hole punch mechanism, this is basically a short description or introduction to the following invention. Also, another interesting feature of this invention is that many times we have to choose the stapler according to the requirement and fulfilment of our purpose i.e. in simple words there are different types of staplers available in the market according to the size of the stapler pins example big medium small sized pins. So, we may need to carry different staplers for different purposes if needed which can prove to be very annoying. So, this invention particularly houses a stapler which can adjust the pin compartment according to the size of the pin we have to use.

IPR APPLICATION / PATENT NO.- 201621042088



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CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-202

Synchronized Power Windows With Auto Air Conditioners For Reducing Human Efforts And Power Wastage

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ABSTRACT-

There has been a progressive development in the Automobile industry. The maximum development has come in the comfort of the passengers. The manual hand cranking to uplift the windows was replaced by power windows. To decrease the temperature of automobiles in hot summer days and to increase the temperature in cold winter days Auto Air Conditioning systems was implemented. There were lots of developments in these fields but there is no systems which synchronizes Auto Air conditioners with power windows. In existing system windows control and air conditioner both switch are working separately. So driver required controlling both separately and some time he has forgotten to close the windows. We have made an attempt to connect the input of Auto Air Conditioner to the power window of the Automobile. This will ensure that when we press the AC button on the dashboard then the windows will get closed automatically as the air conditioner starts to operate. This will help to save the power that is wasted because of negligence which is offered by the passengers and it also reduces efforts required to close the window while driving. Keeping the windows open during use of AC will result in more consumption of power as we increase the volume of the region that is to be cooled. This is also help to reduce human effort which will be required to close power window before starting Auto air conditioner.

IPR APPLICATION / PATENT NO.- 201721008215



CIPCIS 2019 : P-203

Generation Of Electricity With The Help Of Condenser Fan Motor Of A Split Air Conditioner

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ABSTRACT-

There has been progressive development in the field of Refrigeration and Air Conditioning. There is ever increasing demand for the field as it gives human comfort and also helps in preserving and processing variety of things. Mainly the air conditioners have 3 units that consume the electric power which are compressor, condenser fan and blower fan. In the modern world it is necessary to preserve as much power as we can and hence we have come up with this innovation. In our system we basically give power Only to the condenser fan. A shaft is extended from the condenser motor which is loaded with the armature coil. This entire setup of armature coil is surrounded by magnetic poles which produce flux with minimum possible flux. The magnetic poles are fixed on the yoke or the frame. Now, as the shaft rotates the armature winding cuts the flux and according to the Faraday's Law, EMF is generated. This generated voltage is then supplied to compressor and the blower fan. This generated voltage if required can also be supplied for charging of inverter batteries and other appliances if needed.

IPR APPLICATION / PATENT NO.— 201721009534

CIPCIS 2019 : P-204

An Automated Mechanism For Effective Cooling Of Solar Panel

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ABSTRACT-

An automated mechanism is developed for effective cooling of solar panel. As we know the efficiency of the solar panel decreases by half percent for every 1 °C rise above the 25 °C (25 °C is a standard temperature for getting maximum efficiency of the panel). In this attempt we are lowering the solar cell temperature by blowing the fresh ambient air continuously with the help of DC blower on the back side of photovoltaic panel where thermal paste and Aluminum chips is applied. After passing over the back surface of the photovoltaic panel, the air gets heated which is supplied to dryer cabinet where the products to be dried are kept. Due to this mechanism we will reduce a panel temperature by 20 °C and will get improved efficiency of solar panel along with hygienically dried product with reach in taste and aroma.



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-205

Thermal Comfort Enhancement Of Ceiling Fan (Cooling Mode) Integrated With Peltier Cooler, Heat Pipe, Phase Change Material And Adsorbent. (Air Conditioned Ceiling Fan)

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ABSTRACT-

This invention relates to the thermal comfort enhancement of ceiling fan (cooling mode) integrated with Peltier Cooler, Heat Pipe and Phase Change Material. Assembly of the peltier cooler and heat pipe is mounted on the ceiling fan blades and supplied with the electrical energy. Cooling effect produced by peltier cooler is imparted to the air coming in contact with the ceiling fan blades and heat dissipated by peltier cooler is transferred to the phase change material stored in the roof mounted energy storage container via heat pipe. The device invented can be incorporated in the household and industrial ceiling fans to enhance the thermal comfort obtained. Device is cost effective and gives instant cooling effect. All industries which are involved in manufacturing of the household and industrial ceiling fans can use this assembly without any modifications in their designs to enhance the thermal comfort.

IPR APPLICATION / PATENT NO. – 2018210339146

CIPICIS 2019 : P-206

Clothing Iron Sole Cooler Cum Safety Kit

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ABSTRACT-

The present invention relates to self-powered safety kit for clothing iron which gives fast cooling of iron sole and reduces accidental injury with effective utilization of unused heat. Temperature difference between sole of the clothing iron and is in the horizontal position and after a longer period if the iron is vertical. A variety of arrangements are proposed, including some that sense movement of the iron and others that respond to a user's grasp. The invented clothing iron sole cooler cum safety kit overcomes the limitations of the existing technologies/methods and devices developed by previous inventors. The safety kit consists of the thermoelectric generators and peltier coolers which simultaneously gives power generation and cooling effect.

PR APPLICATION / PATENT NO. – 201821036606



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CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)



CIPCIS 2019 : P-207

Energy Optimized Routing Protocol Using Swarm Intelligence With Mobile Sink In Heterogeneous Wireless Sensor Network

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ABSTRACT-

In Health care Wireless Sensor Network (WSN), congestion obtained when the incoming rate of all sources goes beyond the occupied capacity of sensor nodes. Drop of packets in the buffer, increased end-to-end delay, decreased packet delivery ratio and decreased lifetime of sensor nodes (excessive energy consumption of sensor nodes) are some of the issues looked because of congestion. The congestion must be controlled for increasing the lifetime of sensor nodes. Wireless Sensor Networks are finding applications in many areas. In this context, there is a need to manage the battery resources used by the WSNs in a better way in terms of lifetime, stability and energy efficiency. In this project, the data is collected by the sensor nodes and transmitted to the cluster heads through their respective relay nodes. The compressed data is transferred by the cluster head to the nearest rendezvous nodes in a certain number of rounds, depending upon the compression ratio. Finally, the mobile sink gathers the data while moving through the rendezvous nodes in the network. Experimental results show that the stability period of the proposed network is much better than the existing protocols. The proposed algorithm is 1.6 times better than SEP, 1.5 better than DEEC and 1.3 better than TSEP in a 100m— 100m region. The proposed algorithm holds good even when the area of the region is increased.

IPR APPLICATION / PATENT NO. – 201921028010



CIPICIS 2019 : P-208

System And Method For Speaker Identification Using Geographical Region Language

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ABSTRACT-

In this system and method for speaker identification using Geographical region language to develop this system the primary challenge ahead in developing a technique for geographical region language identification of a speaker is to accomplish remarkable recognition accuracy. Hence, the primary objectives of this idea are to construct a speech database of speakers of different geographical regions. Once the database is developed the next step will be to extract features of the speech signals using feature extraction technique and compare the features for the classification of the features various classifiers are available but the most promising classifier like SVM has to be used to classify the appropriate features using classification technique and investigate the performance. To design and develop a geographical region language identification technique for a speaker and to achieve a better tradeoff between the precision and the complexity of the identification technique for a speaker a sophisticated algorithm is required so in our system we have decided to develop one algorithm for full proof system.

IPR APPLICATION / PATENT NO. – 201921013820

CIPICIS 2019 : P-209

System For Identification Of Indian Classical Musical Instrument Sounds Using Audio Descriptors

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ABSTRACT-

The proposed system will be designed to overcome the shortfalls /gaps of the currently available systems. For the system to be developed, the problem statement is Recognition Technique for Identification of Indian Classical Musical Instrument Sounds using Audio Descriptors. In this system, an audio sample of musical instrument is taken as input to the system. Then different features are extracted using audio descriptors. Then the extracted features are classified using Audio Descriptors. Different classification techniques are statistical synthesis, machine learning, supervised learning, and unsupervised learning. By using proper classification techniques, Musical Instrument from North Indian Classical Music will be identified. Proposed System deals with three steps viz, Pre-processing of musical instruments sound samples, Extraction of audio features from sound samples and Classification. In feature extraction technique FT, STFT, LPC, PLP, MFCC, MIR toolbox & audio descriptors are adopted for accurate recognition.

IPR APPLICATION / PATENT NO. – 2019210138114



CIPICIS 2019 : P-210

Disk Cleaning And Automatic Disk Cooling Mechanism With Color Coded Wear Measurement Technique In Disk Pads

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ABSTRACT-

This invention discloses the unique technique describing the wear factor associated with disk pad. Every friction pad of a disc is given a Particular paint on lower end of disk pad device in operation. Once the pad is worn to beyond an allowable wear limit thereby causing a warning color getting highlighted and the disk to be lit with that color and indicating the operator that disk pad is worn out and needs replacement, various depth gauges and sensor based devices are innovated till date, but this invention work utilize easy methodology and any one can detect the wear rate of disk pad promptly. The middle layer of self cleaning mechanism will keep the disk free from debris and cool down disk rapidly.

It is associate degree object of the current invention to beat the on top of delineate difficulties incidental the acknowledged art and to produce, in an exceedingly disc brake of the moment category, a wear alarm system of extremely reliable operation.

IPR APPLICATION / PATENT NO. – 201921041362

CIPICIS 2019 : P-211

Innovative Steering Mechanism In Modern Vehicles For After Parking Straight Wheel Alignment

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ABSTRACT-

The present invention relates to Innovative steering mechanism in modern vehicles for after parking straight wheel alignment, for several years, analysis has been conducted into causes of, and remedies for traditional wheel alignment method but there is very little focus on the stresses on tyres when vehicle is parked or in standalone condition ,we know that when vehicle is parked with wheel turn in definite angle can produce ill effect on center of gravity of vehicle and stresses can be excretes leading to form misalignment. Over the years ,parking the car having the wheels in straight direction is known phenomenon but present invention will help to automates this characteristics using various mechanisms.

IPR APPLICATION / PATENT NO. – 201921035313



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-212

Design And Development Of Modified Seatbelt Mechanism For Pregnant Women Passenger

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ABSTRACT-

Design and development of modified seatbelt mechanism for pregnant women passenger is disclosed for use with a vehicle seat which includes a one point attachment system forming a lap belt, a shoulder belt and further includes a chest belt and a magnetic stress relief mechanism. The belt system includes a presenter mechanism to move the clasp for the one point portion of the system into an easy to reach position to encourage seatbelt usage. The system includes generally consist of one buckle on opposite sides of the seat with a release mechanism provided to automatically release buckle upon the release of the other buckle regardless of which is first manually released, the modern seatbelt assembly makes an uncomfortable attachment for pregnant women passenger traveling in car because focal point for dampening external kinetic energy effect generated in sudden braking or accidental scenario can generate severe ill effect on womb of pregnant women passenger due to jerk from kinetic energy and may leads to health complication during pregnancy.

IPR APPLICATION / PATENT NO. – 201821041617

CIPICIS 2019 : P-213

Switch Module For Efficient Mobile Charging

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ABSTRACT-

Mobile and many other electronic gadgets have become an integral part of human life. Many times when mobile is connected to charger, even after 100% charging of battery, we forgot to switch off the button of mains supply and so battery gets continuous power supply which will ultimately lead to reduced life of battery over the years. Moreover, sometimes we connect the mobile to the charger and forgot to switch-on the button so the mobile does not get charged, which leads to irritation. So the designed system automatically OFF the switch of main supply when the mobile battery is 100% charged or ON the switch of main supply when battery is less than 100% charged, So this electronic arrangement provide automatic ON/OFF the switch of main supply so that mobile battery will be efficiently charged and also save electricity. A Sophisticated software application is designed which will On successful acknowledgement of the command, turns OFF the Bluetooth module of smart phone

IPR APPLICATION / PATENT NO. – 201721016767



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-214

Laser Assembly Used For Surveyor's Tripod Centering

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ABSTRACT-

An apparatus is set forth for providing vertical alignment and indication of a fixture positioning with relative to a ground reference point, wherein the apparatus includes a laser emitting diode mounted with axial ball and socket and the socket is fixed with tripod stand. The laser member is fixed with ball to focus a laser beam on the ground surface. an laser emitting diode situated in cylindrically shaped compartment being battery operated. The socket is threadably connected to the bridge screw (tripod head) and has an aperture through which the laser beam is emitted wherein the beam is aligned a reference position on the ground, with a fixture target point on the ground. Vertical alignment is provided by the use of laser beam directed from the laser diode through the objective and focusing lens respectively regardless of the relative planer relationship of the ground surface. An on/off switch is provided along with a rechargeable battery.

IPR APPLICATION / PATENT NO. – 201621027266

CIPCIS 2019 : P-215

Conveniently Unfolding Of Laptop

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ABSTRACT-

According to this invention, there is a mechanism provided for unfolding the laptop in a comfortable manner, usually when people unfold their laptops frequently their fingers are been touched to the web cam on the display casing, to overcome this, this mechanism is used, it helps to open the laptop by applying the opposite forces on the plates, it is the mechanism which makes it easy for unfolding the laptop due to the plate fixed in the casings, the plates are long lasting due to they are being fixed into the casings.

IPR APPLICATION / PATENT NO. – 201621027637



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-216

In Based Preheating Of Catalytic Converter

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ABSTRACT-

A system for preheating the core of platinum-palladium, platinum-rhodium of the catalytic converter so that the reaction of the core with the exhaust gases happens at a better and a faster rate, by means of a heating element of red-brass having fins at its periphery, positioned at the casing of the catalytic converter, so as the starter is turned a voltage is amplified through the wire harness and is given to the heating element thus the heating element (red brass) having high thermal conductivity (159 W/mK) transfers the heat by means of fins on the periphery into the casing of the converter: thereby heat energy is absorbed by the core of platinum-palladium and platinum-palladium which enables the proper reaction of the platinum-rhodium, platinum-palladium core with the exhaust gases from the engine and hence increases the efficiency of the core to react with the exhaust gases.

IPR APPLICATION / PATENT NO. – 201721001280

CIPCIS 2019 : P-217

A Smart Switching System For Electrical Appliances To Prevent The Wastage Of Electricity

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ABSTRACT-

The Sensor Hub will be used as a control unit in the above mentioned work of automating the switching system, it can be used for switching ON/OFF a wide variety of electrical appliances based on the detection system used in the sensor hub and using any extra sensor required for detection work according to the need, for this purpose the default sensors of sensor hub are used and no extra sensors are required, the detection work of the sensor hub will start if the manual override switch is on automatic mode, then firstly, the proximity and the infrared heat sensor assembly will together detect the presence of any human body in the room by looking for the appropriate human body temperature and position of body, if sufficient natural light required is not present in the room, then the ambient light sensor will determine the amount of light required in the room and thereby switching ON the lights and adjusting their luminous intensity according to the need, if the manual override switch is turned to MANUAL mode, then the sensor hub will not work, hence automation could not be performed and the user will be able to operate the conventional switching system to turn the lights ON/OFF.

IPR APPLICATION / PATENT NO. – 201721011569



CIPCIS 2019 : P-218

Book Content Reorganization By Human Touch

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ABSTRACT-

This invention is based on sensor technology. Whenever the person want to search the necessary content of the book it won't become difficult for him if he follow the said system. In this invention the researcher has to go for single touch on book so that he will immediately get the required content on the screen . The system contain touch sensor which will give signal to signal to the signal conditioning circuit. At this circuit signal going towards controller will get appropriated as per the requirement of signal level of controller. This controller will take an appropriate controlling action on this signal coming from sensor. As per this signal controller will retrieve data stored in memory related to that signal & shows that data on the display that is content of the book stored in memory. Thus the said system helps the person to find appropriate content of the book within fraction of second easily.

CIPCIS 2019 : P-219

Production Of Power Activated Carbon-PAC From Water Hyacinth (Eichhornia Crassipes) - WHPAC

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ABSTRACT-

The present invention relates to preparation of activated carbon from leaves, stems and roots of water hyacinth. It relates to a process for obtaining high surface area activated carbon material. More particularly, the invention provides a process for preparing activated carbon which has a pore structure that includes both mesopores and micropores. Activated carbon materials have become widely used as versatile adsorbents owing to their large surface area, micro porous structure, and high degree of surface reactivity. In particular, these materials are especially effective in the adsorption of organic compounds due to the high capacity of these molecules to bind to carbon. Activated carbons are commonly produced from materials including coconut shell, wood powder, peat, bone, coal tar, resins and related polymers. Activated carbon has been used in a wide variety of processes, and is extensively used in the process of refining and bleaching of vegetable oils and chemical solutions, water and air purification.

IPR APPLICATION / PATENT NO. – 201721009041



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-220

Self Sufficient Tree Guard For Systematic Water Supplies

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ABSTRACT-

In an average the middle or higher income person purchased about 2-3 drinking water bottles a day this will make huge burden on the environment and water bodies as well. This invention will give the solution to utilize the waste plastic bottles effectively. A protective tree guard is formed by combining a set of plastic 1000 ml Polyethylene Terephthalate or PET water bottle vertically interlocked with each other. The interlocking took place between bottom of bottle and top of bottle. The mouth piece of bottle is interlocked at the bottom such that it will hold the vertical column properly. The circular rings placed at equal distance with and steel bar welded to hold these rings. The vertical column which is made up of 5 interlinked water bottle stores about 5 liters of water. The Vertical column Tree Guard with interlinked Bottles has 26 numbers of such columns all vertically place and interlocked bottles are hold in position with tyre tube band which effectively stored 130 liters of water. These 130 liters of water can be collected through rain water or artificially supplied and stored in vertical column

IPR APPLICATION / PATENT NO. – 201721000498

CIPICIS 2019 : P-221

Hole's Model Of Engineering Education

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ABSTRACT-

Hole's Model of Engineering Education ABSTRACT Graduate Engineering outcomes are basic requirements of any engineer at the time of completion of the Engineering program. A Couple of surveys viz. the direct and the indirect survey have been completed in accordance with the same. For Obtaining admission to the engineering course the entry level is 12th Std. (HSC). All corresponding engineering programs are affiliated; Controlled, Monitored, Planned and Coordinated are regulated by International Science & Technology, University, State Government, AICTE, NBA etc. The program outcome mainly states on the criteria that a Graduate engineer should fulfill at the end of his subsequent course which in turn will be beneficial for seeking placement, Higher education, Entrepreneurship, Research & other Fields. These well-defined qualities of a graduate engineer have considerable amount of effect on social factors, economic factors, political factors, demographic factors, market factors, ecological factors, etc. A graduate Engineer with above mentioned qualities is a candidate for the society demand of well being and development of mankind in field of Science & Technology. This Study mainly focuses on the direct surveys with their direct attainments & also on indirect survey with their indirect attainments with their effects on developing the required skills in a Graduate Engineer Trainee.

IPR APPLICATION / PATENT NO. – 201921019097



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-222

Modified Design Of Desorber And Absorber For Small Capacity Vapour Absorption Air Cooling System

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ABSTRACT-

Modified design of Desorber & Absorber is developed for small Capacity vapour absorption air cooling system. In this system the mixture within the Heat Exchanger-1 (Desorber) is heated using an electric heating coil. Liquid medium is used for heating the refrigerant absorbent pair within the Heat Exchanger-1 (Desorber). Fins are provided in order to enhance the heat transfer rate. The weak solution is passed through the fin tube heat exchanger-2 so that it get cooled and part of heat is used on the surface of Desorber to improve heat transfer rate of Desorber. As the surface area of fin tube heat exchanger-1 (desorber) increases, it improves the heat transfer rate of fin tube heat exchanger-1 (desorber) since the existing vapour absorption air cooling system is not yet designed for small, capacity. The present invention relates to a novel based design of desorber and absorber for small capacity vapour absorption air cooling system.

IPR APPLICATION / PATENT NO. – 201721035866

CIPCIS 2019 : P-223

A Fuel Additive And A Fuel Composition Comprising The Same

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ABSTRACT-

The present invention relates to a fuel additive and a fuel composition comprising the fuel additive. In particular, the present invention relates to a fuel additive for enhancing the calorific value of the fuel. The fuel composition comprises a fuel obtained from at least one of a non-renewal resource and a renewal resource; and at least one calorific value booster or the fuel additive, which is one of a free polyunsaturated fatty acid. An enhancement of 5 % to 15 % of the calorific value is achieved by employing the fuel.

IPR APPLICATION / PATENT NO. – 201821014325



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CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)



CIPCIS 2019 : P-224

Mechanical Properties Enhancement In Gas Metal Arc Welded Joints Of Aluminium Alloys Using Copper Base Plates

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ABSTRACT-

Porosity; or, cracks and porosity is reduced to a low acceptable level and which shows the enhancement in mechanical properties. Thus, the procedure eliminates or reduces the need of re-work which usually marking the faulty region and re-welding to create the similar sound and crack free. Porosity in the joint, on the other hand can't be reduced once produced through solidification of the joint; so, cooling gradients are applied to the weld by placing a back-up material with adequate heat-sink ability and having thermal conductivity higher than the base metal/s, the back-up material having the same width which contacts the predictable weld joint width on the opposite surface of joint.

CIPCIS 2019 : P-225

Helical Antenna Loaded In A Triangular Cavity For Aerospace Communication

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ABSTRACT-

In one of the important aspect of the invention it is provided that a compact size antenna/s for aerospace communication, the helical antenna is enclosed in a triangular cavity, the shape of the cavity has an effect on the electromagnetic radiation from and to the antenna. The triangular cavity has designed in order to confine the electrical field of helical antenna which results is the multi band operation and higher power handling capacity of the antenna, the dimensions of the cavity and the helix is determined for multiband operation of the communication which is determined by measurement of Reflection coefficient.

IPR APPLICATION / PATENT NO. – 4566/MUM/2015



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-226

Helical Loaded Hexagonal Cavity Baked Antenna For Satellite Communication

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ABSTRACT-

The present invention relates to a helical antenna that is capable of being used in satellite communication and in RFID application. Said antenna is intended to transmit or receive signals in a predetermined frequency band, λ being the wavelength associated with the minimum frequency of said predetermined frequency band. It comprises: -a helical radiating element made of copper and a cavity made of aluminium having an open end and a closed end and having an axis of symmetry that coincides with the longitudinal axis of the radiating element, at least one lower portion of said radiating element being arranged inside said cavity so that its lower end is in contact with the closed end of the cavity.

IPR APPLICATION / PATENT NO. – 201621003789

CIPICIS 2019 : P-227

Frequency Reconfiguration in a Pentagonal Cavity Backed Helical Antenna

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ABSTRACT-

Frequency-reconfigurable antennas (also called tunable antennas) can be classified into two categories: continuous and switched. Continuous frequency-tunable antennas allow smooth transitions within or between operating bands without jumps. While switched tunable antennas use some kind of switching mechanism to operate at distinct and/or separated frequency bands. Both kinds of antennas in general share a common theory of operation and reconfiguration. The main difference is the extent of the effective length changes that enable operation over different frequency bands and the devices and/or means used to achieve these changes. For a particular design, taking fixed parameters, the analysis is done for helical antenna fixed within a pentagonal cavity. Within the same design a reconfiguration circuit (varactor diode) is introduced and analyzed. For both these simulated designs the comparative analysis of reflection coefficient and gain is studied. For the parameters mentioned above, fabrication of the cavity, helix and reconfiguration chip is done and is tested using a spectrum analyzer. The software used for the simulation is CST Microwave Studio (Version 2011). While for testing the fabricated device, a spectrum analyzer (Fieldfox Microwave Analyzer, Model No. N9961A) is used

IPR APPLICATION / PATENT NO. – 201621003790



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CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)



CIPCIS 2019 : P-228

System For Seed Testing

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ABSTRACT-

SYSTEM FOR SEED TESTING A germination chamber for germination of seed comprising a camera, a source of florescent light, a temperature sensor, a humid sensor, a humidifier, a dark chamber and a podium for germination of seeds. The temperature and humidity is measured every 30 seconds, along with a photograph taken from said camera every 24 hours. When the temperature and humidity goes below or above a pre-determined level, the heater and humidifier are turned ON or OFF respectively. The seeds are categorized accordingly.

CIPCIS 2019 : P-229

A Multiple Parameter Measuring And Leveling Tool

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ABSTRACT-

A multiple parameter measuring and levelling tool comprising a first arm and a second arm coupled to together for defining inclination and angle measures. Further the first arm contains retractable measuring tape, a plurality of slots for accommodating equipment like pen / pencil / marker / chalk etc. and has a closing cap for the slots. The first arm also has a degree scale grooved over its surface. The first arm has a 3 axis spirit level with magnetic base which ensures proper mating of surfaces. The pointer on the first arm defines the inclination and angle measures.

IPR APPLICATION / PATENT NO. – 201621025751



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-230

A Switch Box For Safety Of Lathe Machines With Rotating Chucks

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ABSTRACT-

As those of ordinary skill in the art will appreciate, various features of the various embodiments disclosed and described with reference to the figures may be combined with one or more other features disclosed in one or more other drawings to develop alternative embodiments that are not explicitly described herein. However, such alternative embodiments involving combinations and modifications of the various features described herein are well within the scope of this invention.

IPR APPLICATION / PATENT NO. – 201721000276

CIPICIS 2019 : P-231

Inertia Coupling'-Couple/Decouple Compressor Unit From The Engine Crank Shaft For A Twin Charger

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ABSTRACT-

A twin-charging system combines a supercharger and turbocharger in a complementary arrangement, with the intent of one component's advantage compensating for the other component's disadvantage. The series arrangement, the more common arrangement of twin-chargers, is set up such that one compressor's (mostly turbocharger) output feeds the inlet of another. A sequentially-organized supercharger is connected to a medium to large-sized turbocharger. The supercharger provides near-instant manifold pressure (eliminating turbo lag). Once the turbocharger has reached operating speed, the supercharger can either continue compounding the pressurized air to the turbocharger inlet (yielding elevated intake pressures), or it can be bypassed and/or mechanically decoupled from the drivetrain via an electromagnetic clutch and bypass valve (increasing efficiency of the induction system). However, the efficiencies of the turbo and supercharger are multiplied, and since the efficiency of the supercharger is often much lower than that of large turbochargers, this can lead to extremely high manifold temperatures unless very powerful charge cooling is employed. Many-a-times the temperatures are high up to 263 °C (505 °F), which is enough to melt most rubber couplers and nearly enough to melt expensive silicone couplers.

IPR APPLICATION / PATENT NO. – 201721036829



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-232

PFPA-System: Power Generation, Filter Water And Protein Abstraction Through Pressure Cooker Steam

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ABSTRACT-

Power Generation, Filter Water and Protein Abstraction through Pressure Cooker Steam.' is the technology which produces three main by products that is 'Electricity, Distilled Water' and Protein by using pressure cooker steam. This invention is very cost effective because doesn't require any large amount of fuel or coal or wood to produce electricity. This technology does not use reserve earth material for production of electricity. Present invention focus on the electricity generation from the pressure cooker steam which is used for normal cooking purpose inside the kitchen. Initially cooker used to cook food in less time and at low cost. But that cooker only introduced to generate electricity. Here with the help of pressure cooker steam turbine is moved and mechanical energy sends to generator to create electricity. Once pressure cooker vessels steam goes out, that time that steam is provided to the turbine to get start and generate electricity. After electricity generation again that waste steam is used to transform into distilled water and abstraction protein. This can be possible with the help of condenser and air cooling system. Steam came out is cooled in the condenser and air cooling system. That transformed water is collected in the pipe and went through activated carbon filter to remove impurities. Thus the filtered water is collected in the water storage and used for household purpose. And available impurities apply the abstraction technique of protein, to abstract the available protein in these impurities this invention produces three products which are more demanding nowadays. Water is the natural source depends on the rain cannot be created by any ways. But by using such a methodology water can be reused multiple times from water to steam and again from steam to water. Such a technology can be placed in the house, hotels, restaurants where large amount of steam goes out during cooking time, this is the small scale project but this technology can be applied on the natural sources of water where steam goes out due to sun or any other reason. This invention will solve the world's biggest problem in low cost.

IPR APPLICATION / PATENT NO. – 201821025142



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-233

E-Nose System : Detect Real Time Pollutant Gases, Humidity, Oxygen Level, Air Temperature, And Air Pressure

Prof. Jambi Ratna Raja Kumar, Dr. Rahul K. Pandey, Dr. Biplab Kumar Sarkar, Dr. Abhijeet B. Auti
Genba Sopanrao Moze College of Engineering balewadi Pune

ABSTRACT-

In E-NOSE SYSTEM: multiple sensors are integrated to form a sensor array in order to differentiate multiple odors with the help of constant sensor heating voltage. In this invention E-NOSE SYSTEM: is used to recognize and analyze pollutant gases, humidity, oxygen level, air temperature and air pressure using artificial neural network (ANN) algorithm or Machine Learning. This is a real-time system in which sensing node is monitoring the real-time pollutant gases and other factors as mentioned above, which will be wirelessly transmitted to the parent node to recognize and generate real-time digital values with units on display unit. Harmful gases like methanol, LPG, ammonia are pollutant gases and can harm the environment and living beings. This system will recognize the pollutant gases and other factors in real time on display board. If the value is increased above the threshold then an alert will be sound at the site indicating that the place is not valid for good health and must go away from that place. This information or alert will also be sent to the registered mobile to take an instant action.

IPR APPLICATION / PATENT NO. – 201821049331

CIPCIS 2019 : P-234

Electrically Operated Footrest Assembly For Vehicles

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ABSTRACT-

The present invention relates to a footrest assembly for a vehicles and more particularly pertains to an electrically operated footrest. It includes a lever 105 connected to the footrest 106 which is operated by an actuator 102. Due to the motion of an actuator 102 the lever 105 gets operated and simultaneously footrest 106 opens or closes.

IPR APPLICATION / PATENT NO. – 201821031046



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-235

Mobile Agents Embedding In A Cluster Based Wireless Sensor Network Environment

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ABSTRACT-

Our invention is to going a new research parameter; the overall efficiency improvement using the mobile agents for WSNS, there is any number of concerns while exploiting the mobile agents for clustering operations, data aggregation, data fusion etc. Cluster-based wireless sensor network in advanced sensor networks such as reliability of data transmission, load balancing, and scalability, energy efficiency at both sensor nodes and mobile agents, most important is auto security that may be compromised by mobile agents. From the prior art it is observed that the challenges that need to consider while designing the routing protocols for WSNS. Cluster-based wireless sensor network mobile agent-based methods focused on energy efficiency and QoS efficiency optimization: however, the real challenge is the data security which may be compromised by the mobile agents in the network. And also The Wireless Sensor Network (WSN) is the group of tiny sensor devices deployed randomly for the monitoring tasks according to the need of any application such as environment monitoring, military services, Transport improvement etc. The widely studied problem of WSN is the energy efficiency as the sensor nodes are having almost limited processing and battery capabilities. The Prior art survey revealed that several routing protocols, data aggregation methods, and system designs proposed to address the energy efficiency. Mainly, the energy efficiency is dependent on the efficient design of WSN routing protocol. However, there are very few works attempted for exploiting the mobile agents in WSN clustering to optimize the energy efficiency performance further. In this invention, the concept of the mobile agent in clustering and the recent works proposed for WSN is presented. The proposed mobile agent based clustering methods for WSNs are discussed and experimental evaluation in the form of energy utilization, network lifetime, and throughput performances are considered. The outcome of this experimental analysis is the current challenges and future directions for optimizing the mobile agents based clustering protocol.

IPR APPLICATION / PATENT NO. – 201821049330



CIPCIS 2019 : P-236

Mobile Agents Embedding In A Cluster I- Chair: Intelligent Office Chair

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ABSTRACT-

Smart chair is based on IoT devices useful to automatically rearrange chair in lab, office, etc. After given interval or whenever user makes clap sound, mobile apps, sound sensor of smart chair senses clap sound and if sound matches then smart chair system checks weight of chair, if weight of chair is greater than predefined weight then smart chair system sends signal to motor which controls wheels of chair and place smart chair at proper location. If the location is not free then search another free location. This electronic chair helps to automatically locate at predefined space. Since most of the time in lab/conference room, after session completed people never keeps chair at proper position. So there is need to rearrange chair after session get over which require one person/peon engaged at outside of lab/conference room at all time for every lab. Traditional way of lab arrangement is to done manually by peon who requires hard-work as well• as time so present invention provides new and smart way to keep chair at proper position.

IPR APPLICATION / PATENT NO. – 201821015641

CIPCIS 2019 : P-237

Self-Powered Safety Helmet

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ABSTRACT-

The present invention ensures the helmet is worn by the user and without which the vehicle will never start. It consists a mechanical switch(limit switch) for helmet (safety device for two wheeler), master Bluetooth module; solar panel with rechargeable battery mounted inside the helmet, limit switch for start and stops the ignition of two wheeler, LED(Light Emitting Diode) matrix for direction indication and to it light signal, slave Bluetooth module, ignition key and its set. Present invention ensures the wearing of helmet by driver of the two-wheeler, if helmet is not worn then signal will be generated to microcontroller which will further doesn't allow to start the engine. This will ensure the safety of the user during accident and avoids heavy injury to head and brain. After wearing helmet limit switch will get activated which is connected to master Bluetooth mounted inside the helmet. Bluetooth communicates to slave circuitry of which is mounted on to vehicle which further activate relay. When ignition key and relay signal will start the ignition of the vehicle, which will ensure the wearing of helmet by user and will safeguard from any accident.

IPR APPLICATION / PATENT NO. – 201721033251



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CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)



CIPCIS 2019 : P-238

Industrial Portable Drilling Machine

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ABSTRACT-

The system for portable drilling machine can obtain any point in work envelope. The machine is move to the workplace where drilling will be done. The machine has three degrees of freedom. So drilling head takes to position with the help of lead screw. After taking drilling head to position drilling operation is done. The motions are obtain by rotation of lead screw. Lead screw convert rotary motion into linear motion. The rotation of lead screw is obtain manually or by electric motor.

IPR APPLICATION / PATENT NO. – 201821019833

CIPCIS 2019 : P-239

Detachable Multipurpose Container

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ABSTRACT-

The present subject matter relates to field of Mechanical Engineering which deals with design of multipurpose, multi compartment food, beverages containers. In particular, the present subject matter relates to convenient use of container with compartment. Basically, designed container contains multiple compartments and these compartments can be attached to each other to form a complete single container and assembled container can be detached and separated into multiple pieces or individual containers. Each unit of the compartment is used for storage different items (food/liquid/beverages etc.). Each compartment has individual caps and is can be used as single entity which is very much useful. These individual compartments can be assembled and attachment of these with each other is easily provided with projections and slots onto the face of the compartments. This will ensure ease in assembly and disassembly.

IPR APPLICATION / PATENT NO. – 201721037350



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-240

Fluid Absorbent Body Cover Bag

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ABSTRACT-

As per figure 3, 4, 5 and 6, fluid absorbent body cover bag (100) with replaceable fluid absorbent cloth, comprises of stretcher bag layers in rectangular shape with the top layers in rectangular shape with the top layer of multi-layered cross laminated, U.V. stabilised polyethylene film (1) with zipper (7) facility at the mid portion. Dual opening envelope style zipper facility with two steel head runners (6) provide locking system. The bottom portion is made from multi-layered cross laminated, U.V. stabilised polyethylene film (5) with additional layered stitched with loop facility (8) of velcro at top. This bottom and top portion has been thermal parallel sealed handles (3) has been provided. A body tag pouch (4) has been thermal sealed at the top of the body bag. A non-oven spun bond porous polypropylene cloth (10 and 12) have been stitched with hydrophillic polypropylene cloth (11) in between. A hook facility (9) of velcro has been stitched to upper portion on non-oven spun bond porous polypropylene cloth (10). This replaceable fluid absorbent cloth assembly is stuck on the loop facility (8) of bottom portion (5).

CIPCIS 2019 : P-241

Dropping Catcher- A Bi-Directional Automatically Opening And closing Sanitation Device For Railway Carriage Toilet

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ABSTRACT-

Dropping catcher which holds the droppings of human beings in a stationary train. This innovation works entirely on the wind energy with no use of electricity or chemicals or complicated mechanics. I have developed this by cutting the lower portion of a Hopper pipe of railway toilet in a slanting cut on both sides, in a semicircular (half round) shape, we can fix/fit two flaps on it. When the train is at stationery, the flaps remain closed due to the use of dual torsion spring. When the train attains a speed of 40Km/h or more, the flaps open because of air resists on flap and retained excreta drops down in sprinkles condition. The capacity of these flaps can be controlled. Dropping Catcher system helps to maintain cleanliness of track at the station. With spring tension, it can easily Hold 3 kg Excreta at the station and release it away from the station. The excreta falls on the track outside station area, decomposes due to the dry atmosphere in India. A gap between pipe and flap allows water/urine drainage to reduce weight.



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-242

Hot And Cold Storage

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ABSTRACT-

A thermodynamic cycle of refrigeration system for controlling heating and cooling in a room / storage consisting of compressor (1) circulating refrigerant which enters in the compressor (1) as vapor. The vapor is compressed and then exists the compressor superheated, the superheated vapor passes through the condenser (2) which first cools and removes the superheat. The vapor is condensed into a liquid by removing additional heat pressure and temperature by fan (5) across the condenser coil. The warm air in hot room passes through the condenser coil and gets heated up, this heat is absorbed by the products kept in hot room, the said liquid refrigerant goes through the expansion valve (3) when pressure suddenly drops down, flash evaporations takes place. The cold liquid vapor mixture then travels through the evaporation coil (4) and is vaporized by the cooling of the warm air by a fan (6) across the evaporation coil, the refrigerant vapor returns to the condenser inlet to repeat the cycle. Exhaust fan (8) and fresh air fan (9) helping to maintain temperature of hot room. Water pump (11) decrease the temperature and increase the humidity of hot room. Heater (14) increases the temperature if necessary and decreases the humidity of hot room. Many food & agricultural products need cold temperature to preserve as well as there is need to store grains, pulses and many other food product at dry, warm / hot temperature and certain level of humidity in all geographical locations.

CIPICIS 2019 : P-243

Low Cost Multi Filter For Ground Water Recharging Using Rain Water

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ABSTRACT-

As per Figure1&2, our device in this image a cubical box is attached with filter elements from all directions. The concept is for facilitating rain water harvesting at farms, building, river banks, road sides through surface water reservoirs which have been connected to the bore-well either directly or through a chamber (1) attached to bore pipeline (3) at bottom pipe(2) of assembly, which filters the water for reducing the risk of clogging the underground streams. Each unit of filter has a tubular mesh(5) in between two caps(4) and many doughnut shaped rings(6) made up of paper or spun bond porous polypropylene arranged one top of another or a doughnut type single filter element (6) around the mesh. The filters will be covered with cloth bag (7) of density more than 250gsm having elastic or cord locking which will act as a primary filter. The cloth (7) bag can be periodically cleaned. The device can be used to collect water from direct rain, rain harvesting methods or any fresh or ground water source, either stagnant or flowing. The water collected by the system can be used for rain water harvesting or ground water recharge.



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-244

Hanging Road Divider

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ABSTRACT-

A flexible road divider that is economically and easily installable on a road and offers that provides high visibility and alertness to the drivers of the vehicles is disclosed. The divider comprises a first element with means to affix it vertically on ground; a second element with means to affix it to the first element so that the second element is horizontal and at a pre-determined height from the ground; and an at least one third element wherein the at least one third element is flexibly hung from the second element such that said hanging element act as a traffic divider or barrier. The ground is any of median strip of a road, verge of the road, side of the road, and any strip of the road that divides the road into lanes and the at least one third element aligns with curve of the road.

CIPCIS 2019 : P-245

Railway Track Cleaning

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ABSTRACT-

Figure is a top view of the system to be fixed on the railway tracks for disinfection. Referring to the Figure 1 the rail track disinfecting system consist of the sprinklers 7 are equidistantly arranged from each other in between the rail sleepers 3. Two electronic sensors 8 are placed below the edge of the platform 1, one at the start of the platform and the other at the end of the platform. These sensors are connected to an automatic control panel 10 by a cable 9. This control panel joint to an electromagnetic valve 4. This electromagnetic valve controls the foggers 6 which are also equidistantly placed from each other on the other side of the platform. All the foggers are connected by the water pipe 5 which contains a chemical disinfectant like scented phenyl. This water pipe also provides the water for the sprinklers in the center of the tracks through small pipes which pass below the metal strip 2 and in between rail sleepers. The sprinklers on the tracks help in washing away the waste water falling down from the stationary trains halting on the station. The water jets of the sprinklers assist in the job and thus make the cleaning easier. The sprinklers however can be controlled by the electromagnetic valves with the help of the timers. The timers can be set in such a way that the sprinklers start automatically after intervals of 10min and continue to operate for 3min. This would help in reducing loss of water in arid regions and still maintain cleanliness. When a train reaches the platform the electronic sensors would detect its arrival. This would switch off the electrical supply of electromagnetic valve through automatic control panel and stop the foggers and sprinklers from operating. This would prevent the dirt stuck below the chassis of the rail to fall down by the action of sprinklers. On departure of the train from the station the electronic sensor at the end of the platform would get activated. This would trigger the system to start sprinkling and fogging again. Hence cleanliness and hygiene are maintain continuously.



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-246

Retaining Wall Method Of Precasting Concrete Cement Blocks Of H Or Y Shape To Mitigate Landslide Destruction

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ABSTRACT-

Figure illustrates the cross-section of a hill/mountain range (1), and a road (2). The H blocks (3) are nailed horizontally (14) into the earth so that it holds the gravel (7). The uppermost layer of H blocks however, is nailed vertically (9) into the earth with help of wire ropes/straps (5), across the road (2), from underneath it. This upper layer of H blocks (3) acts as the safety barrier that prevents the vehicles from crashing into the valley in case of accidents. Since the weight of the vehicle is acting on the ropes (5) passing from under the road, the desired support is acquired and it is highly unlikely for the vehicles to break through the blocks, into the valley. The lower two limbs of the upper H block interlocks with the upper two limbs of the lower H block, forming four layers of RCC precast material. The impact of the vehicles is absorbed by the initial layers and the remaining layers reduce the vehicle's momentum. Also, the impact gets transmitted through the ropes/straps (5) into the road (2), and into the earth (8) through the vertical nailing (9) across the road (2), as well as through the vertical (9) and horizontal (14) nailing adjacent to the said H blocks (3).

CIPICIS 2019 : P-247

Road Divider Cum Road Blocker

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ABSTRACT-

A road divider cum road blocker method (100) disclosed wherein precast H block row (3) of road divider rows (4) interlocked each other to close the road (1) to block suspicious vehicle (10) from front & back side by removing locking attachment from fixed pole (9A & 9C) and lock to other side fixed pole (8A & 8B) mounted on footpath (2). A steel wire rope (7) passing through a pin hole (6) of H block to connect H blocks & for locking between fixed pole (9B and 8A) as well as fixed pole (9C & 8B). A wheel (5) at bottom of H block fixed to move a row (3). Movable H block row (3) provided with Nail (15), reflector (14) and impact resists guard (13) and upper hollow part used for plantation (11).



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-248

Method For Aeration And Removing Contamination From Flowing Water

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ABSTRACT-

Figure illustrates a cross-section of river/runnel/canal (10), where 4-5 feet wall (1) is built for channelization. Baffle (5) is sloping towards direction of flow of water, placed at an interval of 5 metres (changeable distance) with a height of 2-3 feet. The construction is in a H-shape so as to hold into the base of the water body firmly. The length of the baffle (5) is 3/4th of the width of the channel. On the baffle (5) groove, a row of aquatic plants (8) is planted with the help of pebbles, sand and soil (9). These plants absorb the toxic gases present in the water and adds oxygen to the water. The baffle (5) acts as a barrier for the flowing water (7), making the flowing water (7) change its direction multiple times and providing maximum aeration in minimum distance. Baffles (5) increase the levels of oxygen and separated containments in the sink (2). The orientation of the up and down paving blocks flooring (6) changes according to the direction of the baffle(5) and water flow. Also, water wheels mounted on the baffles or on channel walls cause aeration and water to the aquatic plants. The building of channel and its calculations depend on the water body, the amount of water flowing and water carrying capacity according to season change. A 2-3 feet Hshape baffle (3) is placed between the channelization to act as an obstruction to the flowing water and to collect mud, silt and other forms of wastes in the sink (2). The sink (2) is at a depth lower than the floor (6). A trolley/gate or other mechanism like conveyor belt system can be made to clean the sink (2) manually, semi automatically or automatically. A sliding mesh (4) is present above the wall to trap wastes like plastic, tins, weeds and other floating wastes. The sliding mesh (4) can be made in a C shape for the convenience in cleaning the waste. The sliding mesh operated manually, semi automatically or automatically. A different type of mesh is used that allows fish to pass through. The flooring (6) is an up and down surface in such a way that alternate Dumaroo shape paving blocks have three steps- 100mm, 80mm and 60mm (6b) while the remaining paving blocks have 60mm height (6a). The flooring (6) makes the water hit the baffles and give it a gushing action. The up-and-down flooring (6) causes a gurgling action, thus providing more aeration. The curve shape of the paving block pushes contaminant towards sink and small gap between paving blocks allows filtered water to percolate after passing through sand, stone dust, that are likely to be used as paving block.

CIPICIS 2019 : P-249

Sanjeevanistretcher

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ABSTRACT-

A stretcher bag of rectangular shape made of non-woven fabric material with a Zip fastener at two continuous sides, provided with eight handles at four corners and midway, and a small chain fastener provided at mid portion of the front side to identify the person with inserted removable EP foam sheet.



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-250

Sanjeevani Rescue Kit

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ABSTRACT-

Sanjeevani bag of long handle, 09 meters long nylon rope with Plastic splint used as floating bag to save life of drowning victim. Activated Carbon mask used for adsorbing toxic gas, foul odor, water filtration Suction apparatus kit is used for suction of venom in snake bite and the like. Neck belt give support to the neck injuries as a first aids. This is stiff, compact, washable, fast drying and increases buoyancy of bag. Urinal bag comprising of a plastic carry bag in conjunction with a condom connected to a flexible conduit nylon pipe with nylon rubber band is used for relieving bladder pressure of victim, Roller bandage used as a crepe bandage for first aid in joints sprain, snake bites and the like. The spun bond non woven fabrics material being porous, stretchable and low cost. 6mm two rods is used for rescuing a victim trapped in lift by unlatching doors and to extend the size of splint by joining the two wooden strips for spinal and leg fracture. Goal: To help victim in any type of accident viz. drowning, natural calamities like earthquake/floods/ cyclone/ tsunami, Snake-bite, Vehicle accidents, food poisoning, electrical shock, fire, HIV, Terrorist attack. Many people died due to non-availability of such kit in emergency. This is useful rescue kit in any type of emergency for rescue operation before victim get proper medical help till get hospitalization.

CIPCIS 2019 : P-251

Enhance Library Automation

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ABSTRACT-

The prevailing practices in library, the borrower picks up a book and goes to the librarian. The librarian enters the borrower's & book's details into the database and issues the book. While the librarian is busy with this work then borrower have to wait for issuing the book. The goal of this project, library automation is to automatically issue the books. In simple words Library Automation can be defined as the use of motoring mechanisms. The RF ID card & GSM Module use to perform basic jobs of library like issue of books, entry of borrowers & books details into the library database. Here we have opted to use stepper motors, dc Linear actuator's and dc motor's, gripper, conveyor, rack and pinion mechanism. With implementation of such a cutting edge technology, an organization will not only be using the library efficiently but will also be effective in time. This system is design to save the time and work of borrower's as well as librarian.



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-252

Wet Garbage Management Bag

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ABSTRACT-

The wet garbage management bag is a rectangular bag made from non woven porous spun bond Polypropylene material having a long handles for hanging the bag. It is a two-compartment bag wherein the two compartments are separated by a nylon mesh or any suitable porous material. The upper compartment consists of a zip and fastener attached to the top of the upper compartment to add the wet garbage. The upper compartment also holds the earthworms on the mesh. The bag maintains its shape due to the non corrosive metal or plastic strip stitched or hooked inside the top corner to give shape to the bag. A zip and fastener facility is provided in the lower compartment to insert a plastic tray to collect the leachate and the additional water poured to maintain humid and wet conditions enhancing the earthworm's activity. A nylon mesh is stitched a few inches above the bottom of the bag so as to filter the vermicompost collected in the lower part. Here too, a small zip (5) has been attached to collect the vermicompost periodically. The non woven porous spun bond Polypropylene material makes sure that enough air is passed through the bag making sure that the bag does not emit odor. It also makes sure that the garbage does not rot. The closed bag protects the earthworms from flies, birds, ants, rats and other rodents. Below is given a view of standing wet garbage management bag. The bag is given standing support by four plastic pipes connected to each other and by additional plastic pipes. The four plastic pipes are press fitted or threaded to the inside holder of the bowl in which water or chemical powder shall be kept so as to keep away ants and other rodents. The Wet Garbage Management Bag gets its rigid shape from the plastic or metallic frame and has been provided with a zip fastener. It has a mesh to hold the earthworms provided with a zip fastener a few inches above the mesh. The zip fastener has been provided to enable collecting the manure from the lower most level and earthworms from the middle layer and use them as a bedding in other Wet Garbage Management Bags. A tray below the mesh is made to collect the leachate with a zip fastener to collect it.

CIPCIS 2019 : P-253

Multifunctional Portable Bed

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ABSTRACT-

The portable bed which can be carried along with the user, with comfortable sheet for resting, can be fitted in the bag, when compressed, even the structure is lightweight, furthermore, when the bed structure is kept reversed can act as resting chair, can be used in various fields of application due to multifunctional portability in the hospitals, for trekkers and rehabilitation center.



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-254

Brake Rotor With Radial Curved Grooves And Petals

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ABSTRACT-

Modern Automobile are mostly provided with Rotor Brake type Brake system, Brake system is provided to Stop or slow down a vehicle, Brakes convert kinetic Energy of the vehicle into Heat energy, As the Heat generated by application of brakes needed to be dissipated at a faster rate, Brake rotor is needed to be designed in order to improve the heat dissipation, According to this invention, there are provided radial grooves and petals over brake rotor to improve heat transfer coefficient ultimately the heat dissipation, The present innovation relates to Brake rotor design of a light weight Automobile, This innovation is based upon principle of providing of radial grooves to increase the air flow velocity at vicinity of rotor surface, leading to increase in heat transfer coefficient, The principle components of the system are brake rotor comprising of radial grooves and petals over periphery of brake rotor, The cost incurred in manufacturing of the innovation is same as of required by the OEM brake rotor.

CIPICIS 2019 : P-255

Stapler Cum Punch

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ABSTRACT-

A system for performing stapler and punching operations using single device instead of two, the said system uses a hinge type joint to combine stapler and punching machine, the said system has stapler part on one side and punching part on other for convenience, the said system includes conventional stapler and punching machine, the said system is able to do these two operations in less time and it is also cheap, compact, the said system performs one operation among two at once, the said system saves the cost of purchasing two different machines for different purposes and gives an inventory solution.



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-256

Universal Stapler

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ABSTRACT-

A system designed by modifying the existing stapler in such a way that we can use multiple sized staple (one size at once) in a single stapler rather than to use different staplers for using various size staples, the said system consist of two rods, also called as slots, installed in the stapler in such a way that they are parallel to each other and distance between them is equal to the size of staple, the said modification is required to be installed while manufacturing a conventional stapler, the said system will work in the same way like the conventional one, the said system is used to staple the bunch of pages usually and it is convenient because two, three or four (more than that if required) sized staples to use in a single stapler which saves money and production cost. The overall cost of the system is very small.

CIPCIS 2019 : P-257

Pressure Cooker Whistle Counter Alarm

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ABSTRACT-

A system for counting the number of whistles of pressure cooker and getting informed in advance to shut off heating medium by providing an alarm system which will prevent overcooking, undercooking and prevent blowing off of safety valve and the basic principle used here is that UP and DOWN motion of Dead weight which is converted into connecting and disconnecting electronic circuit consisting of battery (AAA 1.5V) and counter + alarm through a rod rested upon a fulcrum and the Circuit consisting of battery and counter + alarm is known as CAC circuit (Counter And Alarm Circuit), which gets operated as, when the dead weight is in DOWN position (steam not getting released), thin rod's ring end will be in DOWN position, and rod passing over fulcrum, the other end, ie free end will be in UP (raised) position, thus it won't close the CAC circuit and will remain open and when the Dead Weight will be in UP (raised) position, ring end of thin rod will also get raised and passing over the fulcrum, the free end will get lowered ie in DOWN position and free end of the rod will complete the CAC circuit, thereby activating the counter which will increase the count by 1, thus, the alarm system provided allows the cook to set required number of whistles (say n) and will beep on last but one whistle ($n-1$) to shutdown the heating medium, thereby giving the cook a window of time to approach the heating medium and turn it off after desired whistle and approximate cost of the system is very small and shall be around Rs 400.



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-258

Automated Fuel Cock Of Motorcycle For Anti-Theft Of Fuel

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ABSTRACT-

Presently the motorcycle fuel cocks position is changed manually to on, off and reverse positions. From such manually operated fuel cocks fuel can be easily theft also changing of cock's position is a tedious job. For preventing the theft of fuel, fuel locks attached to fuel tanks of motorcycle but we need to carry an extra key of fuel lock along with the motorcycle key which makes it tedious. The fuel cock positioning can be made automated by mechatronics which will users more comfort and safety from fuel theft.

CIPCIS 2019 : P-259

Cleaning Mechanism

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ABSTRACT-

A system for the complete cleaning of a chalk board, the said system uses a mechanism to get the required motion of the duster on the board, the said mechanism is to be installed on the chalkboard, the said duster is said to have the adequate pressure on the board through mechanical arrangement for proper cleaning, the said handle is to be rotated to wound the rope on the drum which leads to the horizontal movement of the duster. The said spring is provided to get the return motion of the duster after the cleaning process is completed, the said mechanism can be operated manually as well as automatically by installing a motor to get the required rotation of the drum. The overall cost of installing this system is very small.



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CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)



CIPCIS 2019 : P-260

Automatic Mobile Sound Profile Switching In Silent Zone

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ABSTRACT-

Today Mobile phones are becoming more technologically advanced and offer more features. Specially, Smart phones are having more advanced computing capability than a feature phone. In existing system there is no such facility for switching the android mobile phone in silent mode automatically. So we are going to design such a system which will switch smart phone in silent mode. Basically we are using the Wi-Fi module to send the message to the user so that user can accept the request and put the smart phone in silent mode by using the application. The Wi-Fi module provides cost and time-to-market savings as a self-contained internet enabling solution. The said system require Wi-Fi module to be integrated on controller which can send data to smart phone provided the Wi-Fi of smart phone is ON. An Android application for automatic profile switching will provide near about complete automated profile switching. This application will enable the device to switch to the Silent Mode.

CIPCIS 2019 : P-261

Method And System For Video Error Concealment

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ABSTRACT-

Disclosed is a method and system for video error concealment using Raspberry Pi 2 Kit. The method and system is able to conceal the errors in a video by temporal error concealment technique and find the errors in a particular frame by using spatial error concealment technique. The method and system is used to conceal the errors in different formats of video like mp4 and avi. Specifically, Raspberry pi 2 Processor kit is used which is equipped with Quadcore ARM Cortex A7 processor is used for implementing Spatio-Temporal video Error Concealment.



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-262

Diesel-Ethanol-Soya Oil Blend As An Alternative Fuel

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ABSTRACT-

The present invention relates to a process and apparatus for the production of improved biodiesel blend fuel from feedstock's containing diesel, ethanol and soya oil with the help of suitable surfactant by proper mixing. By using this blend Diesel can be saved up to 25% of pure Diesel also it reduces the total exhaust emission compare with pure diesel.

CIPICIS 2019 : P-263

Advanced System To Locate Automobile Accident Prone Zones And Show It On Software Application Or Map

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ABSTRACT-

A system for knowing the spots or locations on the road where accidents of automobiles have happened in the past, the said system uses a combination of GPS/Mobile device/ electronic device, camera, data storage system and application software to show accident prone spots or locations on software application or map. The user can also contribute the data if he comes across any accident on the road. The said system's GPS device will be used to get the exact position of accident spot or location, The said electronic device or camera will capture the image or video of vehicle, injured people and location, The said mobile device and said software application will be used to send image or video, location details and other information like no. of people died/injured, vehicle damaged in the accident etc. to send it to remote data storage or server, The said data storage device can also use the data about accidents happened in the past on various locations, The said mobile device/electronic device and application software will be used to show the accident prone zone or location and other information like no. of people died/injured on that location, images or videos of accident location, vehicles, people injured etc. on map as per the data on the said storage device or server.



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-264

Spiral Bevel Gear Pump

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ABSTRACT-

A system which is a modified version of the conventional hydraulic pump, specifically external gear pump. The conventional external gear pump comprises of spur gears which are changed to a set of bevel helical gears (3 gears). The driving gears (pinion) is mounted on the shaft which is coupled to an electric motor of 45HP (33kW). The working fluid is introduced in the system from the inlet port which is sucked in by the rotating gears. The fluid is then pressurized by the compression between the gear tooth and the casing. Then this pressurized fluid is transferred to another gear with the help of a transfer port. In this gear the pressure of the fluid is increased by the same compression action between gear tooth and casing. Then finally after pressurizing from this gear the fluid is discharged out through the discharge port. The entire assembly would be of 140-150mm in length, 35-50mm in width and 140-150mm in height. The main objective of this invention is to improve the overall efficiency of an external gear pump by reducing the vibration loss, friction loss, heat loss and other losses. The system can be used anywhere where there is requirement of highly pressurized fluid. This system works same as that of the conventional external gear pump, but is compact in size and of higher efficiency than that of the conventional system.

CIPCIS 2019 : P-265

A System For Showing Time Required For Journey Of Your Travelling Vehicle Who's Speed Is Varying With Time

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ABSTRACT-

A system for showing time required for journey of your traveling vehicle or car given speed is varying with respect to time. This system is very useful to any vehicle or car because it is showing very accurate time on display. Time is money and sum times a life in cases of the fire brigade and ambulances. This system comprises of the electronic devices which does the calculations and shows the time required for the given journey at a given speed at that instant using the combination of mechanical and electronics techniques. The said system receives the input from the speedometer and odometer about the distance covered and speed at that instant and manipulate it with electronic devices and gives time of journey. By knowing the time the driver knows the time in which he completes the journey. As he knows the time, time is managed very easily.



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-266

System For Monitoring And Identifying The Working Status Of Appliances In A Network

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ABSTRACT-

The present invention relates to a System for monitoring and identifying the working status of appliances in a network using Android mobile or display device. The device will monitor all the appliances like array of light bulb, array of Fans, array of speakers, array of water coolers or other appliances using an android application. In the present invention there is feedback unit which will be indicated on mobile application at the same time it will be displayed on controller using LEDs. There are many systems present but no one is telling about working status of appliances automatically. The present invention not only controls the switching of appliances but also the working status of appliances which can be seen on application. The microcontroller is used here to do controlling and as well monitoring according to feedback generated by sensors present near the appliances in realtime.

CIPCIS 2019 : P-267

Configurable Multi-Core Electrical Motor And Generator

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ABSTRACT-

Configurable multi-core electrical motor and generator is proposed in the present invention. Rotary electric machine like motor, generator in general comprises of stator, rotor and commutator where field excitation is obtained by suitably mounting permanent magnets on the stator. These machines are desirably reliable, efficient and compact so these are well used in applications like fan, robots, wheel chairs, automobile, aircraft, and portable electronics, in speed control, etc. In proposed system, a method of mounting multiple cores of stator and rotor in an electric machine is provided. Multiple stators (300) are mounted on the machine chassis and multiple rotors are connected to the central rotating shaft. The proposed system results in multiple benefits in terms of torque and energy outputs. The modified structure (100) can be used in conventional motors, generators and alternators to reduce their elongated lengths of axis of rotation. Such disc shaped electric machines (100, 400) can be hung on the wall, fitted on flywheel for their regular operation and also reduce the chances of failure of operation upon damage to any particular core of armature.



CIPCIS 2019 : P-268

A System For Controlling The Music System On Basis Of Voice Commands From Remote Location

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ABSTRACT-

A system for controlling a music system on the basis of user's voice commands from a remote transreciever. This system can search the music track from the music system's directory just by saying a command and the name of the song. It can also perform the operations such as track forward, rewind, pause, etc. and volume control as well. All these functioning can be handled from a remote location. This system consists of a remote transreciever device and a receiver module. The remote transreciever is a small device that can accept the voice command from the user from a remote location. It modulates/encodes the signal and transmits it to the receiver module. Receiver module is a device that processes this command and performs the corresponding action on the music system. This system overall makes the music system user friendly. It also increases the accessibility of the music system as well.

CIPCIS 2019 : P-269

Overtake Indicator

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ABSTRACT-

The utility model provide an Overtake indicator by which we can blink LED H and indicate the desired signal of overtaking or not to the driver(s) of vehicle(s) behind the vehicle of user driver. The invention is used to pass the message of overtaking or not to the driver(s) of vehicle(s) behind the vehicle of user driver to avoid the road accidents and hence not only the protection from any damage to vehicle but also the most important human life which is the most valuable. The IC NE 555 is biased with the help of suitable resistors and capacitors which will generate astable multivibrator circuit. A switch is kept between the battery and astable multivibrator circuits which will connect or disconnect supply voltage to the astable multivibrator circuit as per the requirement of user.



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-270

Composed Turn Signal Indicator

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ABSTRACT-

The utility model provide an composed turn signal indicator for two wheeler vehicles by which we can blink LED and indicate the desired signal of turning left or right to the driver(s) of vehicle(s) around the vehicle of user driver. The invention for two wheeler vehicles which is used to pass the message of turning left or right to the driver(s) of vehicle(s) around the vehicle of user driver to avoid the road accidents and hence not only the protection from any damage to vehicle but also the most important human life which is the most valuable. The IC NE 555 is biased with the help of suitable resistors and capacitors which will generate astable multivibrator circuit. A switch is kept between the battery and astable multivibrator circuits which will connect or disconnect supply voltage to the astable multivibrator circuit as per the requirement of user. i The combination of LEDs and buzzer will operate as per the operation of switch done by user to pass the message turning left or right to the driver(s) of vehicle(s) around the vehicle of user driver. Thus the indicator will indicate the driver of vehicle (s) around the vehicle of user that user is turning left or right which may avoid the accidents and will protect P496 U T om 27-Oct-2015I22799III050-MUM-2015IForm 2(Title Page) I°:-I "K7 12:3: from damage- of vehicles or / and human life. The important advantage of the utility model is that, as per the existing systems the blinking blocks will not get damaged and it is available in chipper cost and the time period for blinking of LEDs is adjustable by changing the values of resistors and capacitors.

CIPCIS 2019 : P-271

Smart Boxes Notifying Unavailability Of Grocery

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ABSTRACT-

According to this invention, there is provided a system for easy checking of availability of substances remaining in the smart boxes, if the substance quantity is less then we get notification. The said system uses weight sensor to calculate amount of substance quantity remaining in the smart box, the said system consisting of weight/load sensor is connected to controller to convert the data into specific format, the said system require Bluetooth module to be integrated on controller which can send data to mobile/tablet provided the bluetooth of mobile/tablet is ON.



CIPICIS 2019 : P-272

Wallet Protection And Monitoring Using Smartphone

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ABSTRACT-

A system is for the monitoring a men's wallet. Said system contains controller to monitor the valuables contain in the wallet. Valuables may be credit card, debit card, cash, other important document. These valuable are very important. Every time when we are leaving house, need to remember and check whether. wallet is in your pocket or not and also valuables are in wallet or not. Said system provides a remainder for valuables. Said system also provided with anti-theft features..The said system has touch sensor mounted on outer body of wallet. The system will immediately notify 'to user when other human touches to wallet. The notification through sound in wallet and also on 'mobile. Said system can easily synch with mobile. Trough smart phones user can monitor wallet and elements containing in wallet. Said system uses Bluetooth and Wi-Fi modules -to link'with smart 'phones. Also said system help to search misplaced wallet through mobile.

CIPICIS 2019 : P-273

Programmable Meal Feeding Robotic Arm For Handicapped

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ABSTRACT-

The system has been proposed such that it could benefit the society, specially to the people who are physically handicapped. Often we come across situation where people are not able to perform their day-to-day activities such as picking things up, placing or other activities including having. their own meal. The system is proposed in consideration with such specially challenged people. The system comprises of microcontrollers, gesture controlled sensors and a robotic arm which is the main building block of the overall system. The arm could be such that it can be controlled using our foot movements in turn making the robotic arm perform its function of feeding the meal. Other way of controlling the system is through voice control which will enable the robotic arm to understand that the person is ready to take another bite. It can also be programmed by a normal human being as per the requirements of the situation using gestures movements which makes it possible to change the functioning of the arm.



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-274

Brainy Traffic Control System

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ABSTRACT-

The traffic signals used today works on counters and accordingly controls the traffic. The system used goes red or green for a fixed time irrespective of the traffic density on any particular road. This leads to traffic chaos on a very busy road. Our signal works exactly the same but is smart enough to judge which signal to go green and how long to remain green. As per our proposed idea:- We will use sensors which will check if any road has high traffic. Now we have two possibilities 1) If the sensors do not detect heavy traffic then it will force the controller to act as the conventional signal. 2) If the sensors detect heavy traffic then it will give an additional delay to that road when its turn comes. This can help reduce traffic on a densely populated road. And it will take care of all the disadvantages of the system being used today.

CIPICIS 2019 : P-275

AUTOMATIC WASTE SEGREGATOR

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ABSTRACT-

The problem of waste management has become a major concern in India. A study says 1,60,000 metric tonnes is the amount of garbage India generates every day! Most of this is wet waste, which can be used to produce fertilizer and generate electricity. Studies say that waste which is segregated is very valuable which can be then used to produce fertilizers, generate biogas and electricity. Whereas, waste dumped unsorted in open, like it is done presently in India, produces harmful liquids and gases that spread diseases and also make that land barren on which it is dumped. So, effective and reliable waste management has become a need of the hour. The objective of this proposed project is to design a system to segregate the household waste into dry, wet and metallic waste. Waste is pushed through a flap into the proposed system. An IR proximity sensor detects this and starts the entire system. Waste then passes the metal detection system. This system is used to detect metallic waste. After this the object falls on the circular rotating disc. The waste is sensed by capacitive sensing module which determines the dry or waste wet based on its dielectric value. The circular disc then stops rotating and the waste is made to fall in the container of the corresponding garbage type.



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-276

Robot Based Smart Irrigation System

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ABSTRACT-

The continuous increasing demand of the food requires the rapid improvement in crop production strategies such as providing necessary things like water, fertilizers and removal of unwanted plants in the crop area. Out of this, with the careless utilization of water, providing sufficient amount of water at the specific instant of time is needed. In a country like India, where the economy is mainly based on agriculture and the climatic conditions are isotropic, still we are not able to make full use of water resources. The main reason is the lack of rains & scarcity of land reservoir water. The modern techniques included the use of water pipelining system for irrigation which leads to the wastage of water. In existing irrigation systems, though involvement of man power is needed, it also suffers from the wastage of water: rather more specifically, effective utilization of water wherever needed cannot be ensured. Since it requires lot of human efforts and consumes more water an alternative autonomous sprinkler system can be developed which would help in watering the field easily, consume less water and reduce human efforts. Autonomous sprinkler system can be divided into two parts: 1. ON THE ROBOT 2. ON FIELD SYSTEM. In on field system, there are moisture sensors and temperature sensors to sense moisture and soil temperature of the soil respectively. Controller IC senses the parameters from sensor and transmits it using RF transceiver to the on robot system. Then depending on the extracted information, the robot will move to the specified area, where there is scarcity of water. The robot will sprinkle water in the specified area of interest only. There will be sensors present in the field side for sensing moisture and temperature of the soil. These parameters will be transferred to the robot through wireless communication. In the proposed system robot's travelling speed will also be controlled depending on temperature/moisture level. If the soil is dry then the robot's speed will be increased so as to fulfill the adequate need of the water that has to be sprinkled in the field. Also requirement of water for various crops (such as rice, wheat, tobacco etc) can be fulfilled using this system. There will be a water tank attached with the robot to sprinkle the water as per the requirement. Robot can move in all directions and designed for obstacle detection as well. This will provide an ease of sprinkling process with less practical efforts.

1,....» gr. ∴ I l 11-Feb-2016 I3511 I201621004819 I Form 2 (Title Page) I-v—1' "T13 On robot system receives data that was transmitted by the on field system through RF. Using this parameter; controller IC decides the speed of robot. LCD is interfaced to controller to display the parameter sensed by on field system. DC motor driver is used to drive DC motor for motion of the robot. Another driver circuitry is used to drive water pump. Also we are using the GSM technology so that the user get the message from the robot that requirement of water has been fulfilled.



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-277

Alarm to handle lock and remove key of motorcycle

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ABSTRACT-

Most of the people forget to remove key and to handle lock the motorcycle in hurry. It requires the attention to handle lock and to remove key. The "ALARM TO HANDLE LOCK AND REMOVE KEY OF MOTORCYCLE" can be developed which would help in saving time and be such that the person can understand the motorcycle isn't handle locked and key is remain with the "This circuit will produce visa., well as audible alert whenever key is handle remain unlocked and key with the motorcycle. Whatever may be the condition when key is present of motorcycle, the circuit will give you the buzzer.

IPR APPLICATION / PATENT NO. -201621023596

CIPICIS 2019 : P-278

Antithesis of Hydrogen-Hydroxyl Using Electro-Polarization Technique

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ABSTRACT-

Impure water contains various chemical and biological compounds. The intake of this compound can result in various physiological and psychological disorders. Water purification is an important action point in developing countries as it is a hindrance to improvement in healthcare services. Currently the purification method used adopts polymer membrane with reverse osmosis (RO) method. This requires replacement of membrane based on usage of water. As the membrane is made of polymer it is not biodegradable and affects environment. To avoid this we have developed a method by which membrane is not required. The same effect is achieved by electro-polarization which also improves the quality of water. This method is environmentally friendly.

IPR APPLICATION / PATENT NO. -201921016201



CIPCIS 2019 : P-279

Charger Buzzer With Led When No Connectivity

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ABSTRACT-

Continuous increasing usage of mobile phones requires rapid improvement in mobile phones as well as in its accessories. In the country like India, where almost every family has at least two mobile phones, it requires a daily charging by its charger. But whenever after charging our mobile phone we plug out the charging pin and we keep it switched ON even though there is no mobile phone connected to the charger, which causes overheating of the charger and sometimes it may also damage our charger. The main problem is that most of the people forget to switch OFF their charger in a hurry. It requires attention to the switch board where the charger is connected. The "CHARGER BUZZER WITH LED WHEN NO CONNECTIVE," can be developed which would help in giving a beep with glowing LED when the charger remains ON so that the person can understand that the switch is ON. This circuit will produce visual as well as audible alert whenever there is a breaking of circuit between the charger circuit and the battery being charged. Whatever may be the condition when there is a breakage the circuit will give you the buzzer.

IPR APPLICATION / PATENT NO. –201621010664

CIPCIS 2019 : P-280

Internet of Things based Smart Farm Mobile Application

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ABSTRACT-

Agriculture plays a vital role in the Indian economy. There is a need to provide the newest and better technologies to the farmers for the precision agriculture. The proposed system is based on the application of Internet of Things (IoT) in precision agriculture. It has the user-friendly mobile app for the farmer to control an automated irrigation system, Farm Security system and Farm Expense Records. In addition, a gateway unit processes the sensor information and transmits data to the mobile phone through the server and triggers actuators accordingly. The controlling action has to be taken with the authentication of the farmer; also the farmer can control the water outlet irrespective of the soil conditions. Farm security is provided using a wireless sensor network of PIR sensors that are deployed at the boundaries of the field. When an animal crosses the boundary, the buzzer in the field is activated through the gateway to frighten the animals and notification is sent to the smartphone.

IPR APPLICATION / PATENT NO. – 201621019775



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CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-281

Improved Charger

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ABSTRACT-

An improved charger comprises: Transformer used to convert the high volt ac to low volt ac voltage or desired voltage, rectifier for converting bi-directional ac to uni-directional dc, filter to filter out or remove ac component which is present in the output of the rectifier, voltage regulator to main the required dc voltage even change in input, then microcontroller which is the backbone of said improved charger . It gives a continuous monitoring on the battery level whether battery is fully charged or not and whether call is received during the charging, if both conditions are true, the charging turns off by grounding all the current by microcontroller. There is a voltage and current amplifier to make microcontroller output desired as microcontroller output is very small. The charging is continued till battery is fully charged. Once battery is fully charged, the charging is turned off by grounding the current which is done by microcontroller on getting feedback. If charger is still plugged in, as soon as battery level falls down it will again fully charge the battery and on full charging, charging is turned off. This cycle continues till charger is not plug out from mains or till mobile is not detached from charger.

IPR APPLICATION / PATENT NO. – 2700/MUM/2015



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CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-282

Design and Development of Membrane Electrode Assembly (MEA) For High Peak Power Fast Responding PEM FUEL CELL

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ABSTRACT-

For effective working of any system, the power source should supply power according to load demand. Fuel cell can be used as power source if the load demands constant power. Response of fuel cell to the instantaneously changing load is very less due to slow reaction kinetics of the fuel at electrodes. Supercapacitor can be used as power source if load demands large power for short duration. Continuous power for longer durations using Supercapacitor is not possible. For the load like motorload or electrical vehicle load, the load requires large power at start, during acceleration and for uphill, while nearly constant power for continuous operation. Such type of load characteristics cannot be supplied by only fuel cell or only Supercapacitor. In practical cases, to supply such loads, a parallel combination of fuel cell and Supercapacitor or parallel combination of battery and Supercapacitor is used called as Hybrid System. The space required and cost of hybrid system is always more. The present invention proposes design and development of membrane electrode assembly (MEA) for a power source which includes features of both Supercapacitor and PEM fuel as a single power source and therefore it is novel and highly useful for electrification and transportation (Electric Vehicle).

IPR APPLICATION / PATENT NO. – 201621007958



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Laxminagar, Ravet, Pune-412101 (Maharashtra)



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-283

System And Method For Reognizing Musical Instrument Sound Using FRFT Based MFCC Features

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ABSTRACT-

The automatic classification of musical instrument has been built using novel Fractional Fourier transform (FrFT) based MFCC feature. The discriminating capability of the proposed features have been maximized for between-class instruments and minimized for within-class instruments compared to other conventional features. Also, the proposed features show significant improvement in classification accuracy compared to other conventional features. McGill University Master Sample (MUMS) sound database has been used to test the performance of the system.

IPR APPLICATION / PATENT NO. – 201621012767

CIPICIS 2019 : P-284

An Automated System of Vehicle Detection on Zebra Crossing.

**Dr. Shirbahadurkar Suresh Damodar¹, Mr. Ghatte Pravin Marotrao², Dr. Jadhav Bhagavat³, Mr.
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ABSTRACT-

Now days, traffic on road in the metro as well as small cities are the major problem. It develops a tendency of breaking the traffic rules that creates accidents on the road which is dangerous to human life. Zebra crossing traffic rule is normally violated by many drivers. Therefore, it is essential to design and develop a new system with low cost and continues operative to detect the vehicles those are violating such traffic rule. The system comprises; red laser transceiver pair, microcontroller with low power consumption.

IPR APPLICATION / PATENT NO. –201721029836



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-285

A Proficient Speech Processing Method to Recognize Sound in a Noisy Environment to Identify Hindi Language

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ABSTRACT-

This invention is built to bring a speech recognition technique • of Hindi dialect. Hindi Language is spoken with varied accent in India and the acoustic and language model for the system are available but mostly in English language. Even the accuracy of the speech received is quite discrete. In this innovation the pure speech is recognized from the noise by isolating Hindi Language or using the English language to convert it into pure Hindi language which can be recognized by all. The noise is initially removed and then processed for the speech recognition of Hindi Language.

IPR APPLICATION / PATENT NO. –201721020486

CIPCIS 2019 : P-286

Design and Implementation of Nanoscale Dual Gate Stack Silicon on Nothing Junction less Transistor for Improving Short Channel Effect and Performance

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ABSTRACT-

A junction less transistor includes semiconductor layer on silicon on nothing and dielectric material, and two layer gate dielectric is formed on the semiconductor layer; one layer is high-k dielectric and another layer is low-k dielectric. A gate conductor is split in three different regions, first and third having same polarity. The gate conductor is formed on the gate dielectric and an active area is located in the semiconductor layer under the gate dielectric. The source and drain regions and active area have the same conductivity type.

IPR APPLICATION / PATENT NO. – 201721026855



The Implementation of Text To Speech Processing Using Syllable for Marathi Language Using Raspberry Pi (Processor).

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ABSTRACT-

Text or speech plays vital role in communication amongst the people. There are two ways of the communication, first one is imaginary application like E-mail, Text chatting and another one is physical equipment such as the mobile phone and many other devices. The present work is concentrated on Text-to-Speech synthesis system which is an application domain of speech processing. In last decade, a great deal of TTS-Synthesis system has been done much work in various languages as well as different synthesis techniques such as Unit-selection, Formant, Text-To-Speech (TTS) has produced synthesizers with very high intelligibility.

Text-To-Speech synthesis system is playing a vital role of information technology for 6-standard Indian languages. Marathi is one of 22-constitutional languages of India and local language for state of Maharashtra India. While writing, Marathi language is written by Devnagari script and its writing style is from left to right. It includes vowels, consonants and numbers. Mainly, these work focuses on Text-To-Speech synthesis system for Marathi language. TTS-system requires prosody for designing and implementation approach of TTS-system which is to generate waveform signals and convert Marathi text written into spoken form. There are two main aspects of speech synthesizer; first one is Text normalization of Marathi Number which is process of transforming Marathi text into a single numeric form and another' one is speech generation. The output range of few phones or speech samples is stored in keyboard.

A concatenate speech synthesizer for natural-sounding has been revolutionized based on a huge corpus of recorded sound samples which have been collected from various persons. For online applications, the model of speech synthesizer can be utilized such as websites and emails aloud. In the modern age, many reputed government and private organizations in India and out of India such as Google, TDIL, C-DAC and so on are working in this research domain of speech synthesis system in various languages which already exists in'all over world.

IPR APPLICATION / PATENT NO. –201721018913



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-288

System for Automated monitoring and controlling of unauthorized settlement in urban areas using remote sensing

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ABSTRACT-

A system and method of automated monitoring and controlling of unauthorized settlement in urban areas using remote sensing is presented. The system comprises; input as satellite or Aerial images of targeted urban areas over a time interval; Geographical Information System (GIS) of selected area; the processor such as GPU for image analysis and validation with town planning sanctioned data; the automated hardware system to communicate the municipal commissioner and respective authorities of selected area for further action and controlling.

IPR APPLICATION / PATENT NO. – 3171/MUM/2015

CIPICIS 2019 : P-289

Performance Improvement Of Reconfigurable Microstrip Antenna With Polarization Diversity And Radiations

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ABSTRACT-

A novel single feed reconfigurable circular micro strip patch antenna with polarization and pattern diversity at 2.4 GHz using PIN diodes is proposed. In the present innovative work, reconfiguration is achieved by exciting the antenna in T₁₁, T₂₁ modes using six PIN diodes. Using the different configurations of diodes, polarization diversity with linear polarization and circular polarization and pattern diversity with conical pattern and Omni directional pattern is obtained. When all diodes are in OFF state, antenna excites two orthogonal modes simultaneously with equal and 90° out of phase, giving circular polarization with broadside radiation pattern. When only one diode at the centre of the circular patch is ON, it gives linear polarization. Whereas when 5 diodes are in ON state antenna radiates Omni directional pattern with linear polarization. It excites T₂₁ mode giving conical pattern when 6 diodes are ON. The effect of capacitance of the PIN diodes in the off state on the resonating frequency is discussed.

IPR APPLICATION / PATENT NO. –201721014750



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-290

Biometrics Based Dynamic Password Allocator

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ABSTRACT-

The Biometrics Based Dynamic Password Allocator software addresses the major issue of hacking online accounts as well as devices (PDA's). This algorithm relates to a multi level cyber protection where biometric verification and device Id mapping is added to password authentication and which changes per unit time, making it extremely difficult to be hacked. The continuous updating of password along with the added biometric verification provides a high end security for personal accounts. This considerably reduces the risk of cyber hacking.

IPR APPLICATION / PATENT NO. – 201621024049

CIPICIS 2019 : P-291

Water Wastage Prevention and Usage Monitoring System

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ABSTRACT-

The Water Wastage Prevention and Usage Monitoring System addresses the issue of water wastage which occurs due to unintentionally left open water taps in the residential apartments and bungalows. This system incorporates a valve which prevents water from being wasted and a flow meter to monitor the usage of water of each individual flat in a society or an individual bungalow on daily basis. The continuous monitoring and displaying of water usage directly results into the reduction of water usage. The water usage data can also be logged into a server which will help the desired authorities to keep track of usage by each individual entity and according to this data, further plan of action as well as more analysis and estimates can be made which indirectly reduces the water usage.

IPR APPLICATION / PATENT NO. –201621021915



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-292

Motion Detection Alarm System

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ABSTRACT-

Continuous increasing incidents of breaching the boundaries of the individual's residential premises or any public treasure may lead to some serious damage to them. The instances of the incidents may vary to a large extent. Some of them may cause minor issues but some may cause major problems. The fatal incidents like theft or robbery in one's private premises. In farms at the night time if any animal is entered in the farm then that animal can destroy the crops. All of these stated issues can be overcome by the proposed system. This can be applied to the domestics and even in the national security incidents. The restricted areas prevent the trespassers to enter. The national borders can be equipped with this system to prevent the cross borders incidents. The "MOTION DETECTION ALARM SYSTEM" can be developed which would help in giving a ALARM RING with glowing BULB when any type of infiltration in our surroundings and helping us to get aware of such things. This system will produce visual-2.15 well as audible alert whenever there is human motion detected in the range of sensor. Whatever may be the condition once human motion detected the alarm system gives audible as well as visual sound until we switch off the power supply.

IPR APPLICATION / PATENT NO. -201621041199

CIPCIS 2019 : P-293

Context Dependent Human like Emotional Speech Synthesis in Your Voice with Prosody

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ABSTRACT-

The invention relates to an innovative technique for synthesizing human like emotional speech in any person's voice with added prosody effects by just recording some 900 spoken words in person's voice considering the context for the phonemes. An object of the invention is to provide a way to synthesize human like speech in the voice of any person who does the voice recording required. A further object of the invention is to improve the quality of synthesized speech so that emotions like anger, happiness, sadness, fear and surprise are felt in the synthesized voice. A still further object of the invention is to provide a facility for time gap adjustments, pitch contour and energy contour adjustments for improving the naturalness in the synthesized speech. The different prosodic features namely the effect of question mark, exclamatory mark and all punctuation marks can be added in the synthesized speech generated using pitch contour adjustments and time gap adjustments

IPR APPLICATION / PATENT NO. -201721014362



CIPICIS 2019 : P-294

Emotion Detection System for Happy, Angry, Neutral, Fear, Surprise and Sad Emotion Using Pitch, Voiced/Unvoiced Energy Ratio, Jitter and Deviation of Pitch

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ABSTRACT-

The system is designed for detecting the emotions like happy, angry, sad, neutral, surprise and fear from the speech signal. The system operates in two modes, training and detection mode. It is a multistage multiclass system. The system uses emotion specific parameters. A single parameter is in a position to classify the 6 motions in 2 categories. Happy, angry and surprise on one side and neutral, sad and fear on the other side. The classification of the three emotions in each class is carried out using again a single parameter. The system is computationally effective and gives more than 90% accuracy for all emotions

IPR APPLICATION / PATENT NO. -201721014357

CIPICIS 2019 : P-295

System for Conversion of Murmured or Whispered or Breathy Speech to Neutral Speech and Then to Normal/Natural Speech

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ABSTRACT-

The system is designed for converting a murmured /whispered/ breathy speech to a normal speech so that it is clearly heard. The system uses murmured speech as input. The system consists of number of blocks namely removing the spikes, isolation of unvoiced segments from voiced and silence, isolation of voiced vowels and low amplitude voiced consonants from silence, removing the clicks at the start of the voiced part and giving artificial voicing to the voiced sections. This excitation is used with modified Linear Predictor Coefficients (LPCs) and modified gain contour to synthesize voiced sections. This generates the neutral speech. It can be further converted to normal by changing the pitch contours of the start and end words and the in between words to give normal speech effect. The system generates a speech closer to the original normal speech if the properties of the converted vowels and the unvoiced sections are changed further. The system can be further tuned as per the gender of the speaker.

IPR APPLICATION / PATENT NO. -201721022337



CIPCIS 2019 : P-296

A novel multiclass multistage writer verification using hybrid approach in spatial and transform domain

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ABSTRACT-

Writer verification system compares the two test samples and gives the decision about whether the two samples are written by the same or a different person. The decision is based on the threshold value of the claimed writer. It is observed that the style of a writer and the type of writing instrument used, greatly affects the handwriting. The ink width variation in the handwritten document image depends on the writing instrument, pen pressure and pen control. It also decides the ink distribution in the handwritten document image. Ink distribution causes variation in handwriting and it results into high error rates. It is difficult to get high accuracy of writer identification and verification under different ink width conditions.

IPR APPLICATION / PATENT NO. – 201721016687

CIPCIS 2019 : P-297

Design of Automatic ironing & folding machine

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ABSTRACT-

The idea of an automatic ironing machine was conceived with the base that the mundane daily work or ironing could be automated with the help of innovative idea. The ironing needs of a daily household are limited and building an automatic machine for those purposes was a bit difficult taking into consideration the size constraints. Hence we decided to shift onto commercial ironing machine. We studied various such automatic ironing machines currently being used in the commercial industries. The constraints which we decided to overcome in our machine were those of cost and time. The initial idea was based on a series of conveyors arranged linearly with an ironing component with heating plates inbuilt. It was followed by folding elements with flaps aiding in the folding process. The limitation of this idea was the large length.

IPR APPLICATION / PATENT NO: 201721003012



CIPCIS 2019 : P-298

SMART PROJECTOR ADJUSTMENT SYSTEM USING MOBILE APP

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ABSTRACT-

We have an existing system where we mount projector to roof through adjustable non automated rod. Disadvantages of existing system is, it requires a manual setting after some period because direction of projection may get changed slightly or majorly due to wind flow, cleaning presentation room or lose couplings of screws used or due to change in projector etc. thus projection may get disturbed. To overcome this problem we design a mechanism and system which reset position of projector as per user requirement, using mobile app or IR remote. A major advantage of our system is we reduced human efforts and time as anyone can adjust projection using mobile application or by using IR remote. Mobile app wirelessly connected to arduino with Bluetooth or Wi-Fi.

IPR APPLICATION / PATENT NO. – 201721034836

CIPCIS 2019 : P-299

Automatic Chain Lubrication System for Motorcycle Comprising Analogue Speedometer

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³A-301, Ishan Srushti, Warje, Pune-411058, Maharashtra, India

ABSTRACT-

Basically, it is a new system which can be applied for modern motorcycles to minimize effort required for maintenance. The conventional method of lubrication shows simple but time consuming method to lubricate chain drive of motorcycle. Proposed system will provide simpler and less time consuming method than conventional method. Conventional method of lubrication requires human effort, but this system will lubricate chain drive at single press of a momentary switch. In conventional method motorcycle requires to be at steady state on the stand position to do lubrication, but this system provides a way in which motorcycle need not to be at steady state, lubrication can be done when motorcycle is moving. Due to laxity of person in conventional method of lubrication can cause faster wear and tear of elements of chain drive system of motorcycle. But this system provides a way in which one single press can cause lubrication of chain drive. It will reduce rate of wear and tear of elements of chain drive system and also make it reliable by increasing its service time. It will also keep efficiency of chain drive system constant.

IPR APPLICATION / PATENT NO: 201721003008



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-300

A Key With Pasting Functionality From Multiple Strings

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ABSTRACT-

This invention relates, in general to the field of computers and in particular, to method of cut/copy/paste of all types of statements, paragraphs, files, etc. from and to different locations. To be exact, an invention is a mechanism in which inbuilt extension holds the purpose of option to paste from the list of recently cut/copy text/file using a key. Also, a software key can perform the purpose of option to paste from the list of recently cut/copy text/file.

IPR APPLICATION / PATENT NO. – 201921006657

CIPICIS 2019 : P-301

A Key With Pasting Functionality From Multiple Strings

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¹Asst. Prof. Department of IT, Rajarshi Shahu College of Engineering, Tathawade, Pune. (MS) India, harshit67@gmail.com, 9168977415

ABSTRACT-

This invention relates, in general to the field of computers and in particular, to method of cut/copy/paste of all types of statements, paragraphs, files, etc. from and to different locations. To be exact, an invention is a mechanism in which inbuilt extension holds the purpose of option to paste from the list of recently cut/copy text/file using a key. Also, a software key can perform the purpose of option to paste from the list of recently cut/copy text/file.

IPR APPLICATION / PATENT NO. – 201921006657



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-302

IoT Based Med-Box with Home Delivery Of Medicines

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Shraddha Subhash Pawar³, Prof.Mehzabin Shaikh³**

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ABSTRACT-

In today's busy schedule most of the senior citizens who are suffering from some diseases, forget to take medicines on time. The objective of proposed system is to make an Intelligent Medicine Box for the user who needs to regularly take medicines on a proper time. Senior citizens because of age problems forget to take pills on proper time which causes certain health issues for patients having diseases like Fits, Breathing Problem, various type of Heart Problems, Cancer Diseases, etc. At the time of taking medicine, system generate notification via alarm and display the bright light on each particular compartment as well as the system will send the notification to the caretaker. It is based on alarm that helps in reminding patients about their medication. The use of Internet of Things (IoT) concepts and health sensing technologies make diagnosis easier and convenient for the patients. Specially for those people whose relatives are not there to take care of them. Our proposed system which is wirelessly connected to the software application is helpful to caretaker to check the medicine stock and pharmacist to delivering medicines at patient's door steps. When patient take correct medicine on proper time, notification will send to that particular relative with the help of our software application.

IPR APPLICATION / PATENT NO. – 201921005592

CIPICIS 2019 : P-303

An Apparatus and A Method For Evaluation Of Bones

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ABSTRACT-

An apparatus for testing bones comprises of a frame for mounting the apparatus, a fluid reservoir unit to store and supply at least one fluid, a fluid regulation unit to regulate a flow of the at least one fluid, a hydraulic cylinder along with a movable piston and bone mounts. A method for testing bones comprises of mounting a bone between the bone mounts, initiating a flow of the at least one fluid from the fluid reservoir unit towards the hydraulic cylinder to drive the movable piston creating a relative motion between the bone mounts. A loading speed of the movable piston being regulated by the fluid regulating unit, A pressure gauge mounted on the fluid regulating unit measures pressure applied on the bone which is further used to measure bone properties

IPR APPLICATION / PATENT NO: 951/MUM/2015



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-304

Key Tracker Using GPS

Archana Jadhav¹, Prajakta Waghere², Prajakta Kolbhor³

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ABSTRACT-

We have an existing system where we have a keychain which can be attached to keys. Many such devices can be connected to the mobile app simultaneously. But the major disadvantage of existing system is, it uses the replaceable battery after some time these batteries are to be replaced. And the keychain can also be detached or damaged so avoid this we are embedding this system into key itself with few differences the major advantage of our invention is we are using the solar energy for operating the WSN node and the buzzer. As the device is fully integrated there are less chances of damage. In this particular invention we can track the key using the GPS location; the key is connected with the mobile application wherein if the key is lost then the mobile shows the location and also provide a button which rings the key.

IPR APPLICATION / PATENT NO. – 201621001943

CIPICIS 2019 : P-305

Automatic water tank cleaner and purifier

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ABSTRACT-

There are water tanks in each and every house in the world. Water tank is an necessary for storing the water and using it when it is needed. As we are using the water for our daily needs its necessary to keep the water tank clean. But for cleaning the tank we need more efforts and due which people are not cleaning the water tanks for sometimes more than 6months or a year, due to which at the base of tank the small particles of sand gets collected due to which the water in tank becomes impure and its difficult and costly to clean it. For making it easier and cheaper we have invented our method/mechanism which is cheaper and more effective and water is Purified also.

In this project we are making an water tank mechanism which will help to clean the water as well as to purify the water which is in the water tanks of different capacity and different shapes.

WORKING PRINCIPLE: The working principle of our Invention is, we are making the layer which is made up of cloth, purifying element and net(We can use both metallic and non metallic material for net). With the help of this layer we clean the water tank and purify the water inside the tank.

IPR APPLICATION / PATENT NO: 201821024251



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-306

Water Resistant, Magnetic Resistance, Shock Resistance, Dustproof and Temperature Resistant Universal USB Pendrive Protective Case With NFC Technology and With Advanced Near –Long Distance Tracking System

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¹ Asst. Prof. Department of IT, Rajarshi Shahu College of Engineering, Tathawade, Pune. (MS) India, akshaymhaske8446@gmail.com, :8446213443

ABSTRACT-

We have existing USB pen drive which is used to save/stored data. Disadvantages of existing pen drive is , it is not capable of carrying damage due to water, damage due to temperature, damage due to magnetic field, damage due to dust and shock etc. To overcome this problem I designed UNIVERSAL USB PEN DRIVE CASE which gives protection against damage due to water, damage due to temperature, damage due to magnetic field, damage due to dust and shock etc. any type of USB PEN DRIVE can be inserted into case. It is also useful to memory cards like Secure Digital (SD), mini SD, Portable Hard Disk Drive, mobile phone as protective case. Also I provide pen drive case tracking system which gives location information on mobile app/software of lost USB PEN DRIVE when it is lost. Many times we lost pen drive in home, collage, office, garden or anywhere at near location to find it., its becomes headache able to overcome this problem, on protective case I provide small LED bulb to blink and Piezo buzzer to produce sound when user touch on special instruction/command button in mobile app which is developed by me. due to blinking of LED light and sounding of Piezo Buzzer. It becomes easy to find lost USB PEN DRIVE with case. Mobile app and case are wirelessly connected through BLUETOOTH, WI-FI. Also I provide tracking system software when user connects USB PEN DRIVE with case through USB connector to computer or smart phone, it display Log in page and ask user id, password and case number. If user fails to log in many times into software .tracking software automatically detect it is not valid user and software does not allow it to access data. Software system send location information like location address with map, IP address of computer/mobile, MAC address of computer/mobile, IMEI number and other parameters of computer/mobile where log-in into pen drive is failed. Software sends all information through email/message to real owners email id which is already registered in software system. Software also provides data encryption and decryption facility. A major advantage of case and tracking system is, it provides protection from various damages and gives security protection to data which is saved/stored in USB PEN DRIVE.

IPR APPLICATION / PATENT NO. – 201721040907



CIPCIS 2019 : P-307

Manualy Operated Onion Harvesting Machine

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ABSTRACT-

Onion harvesting machine is based on reduction in effort required for harvesting of onion as well as for saving cost required in harvesting, specially for small scale farming. There purpose of designing and fabrication of such small equipment is that it fulfill requirements of harvesting and reduce the cost of it. Onion harvesting machine contains simple mechanisms with effective manually handling system that need only human efforts for operations. The purpose behind this is to just reduce production cost of onion manufacturing . By that farmer can get more output & income specially considering small scale farming

IPR APPLICATION / PATENT NO: 201821022940

CIPCIS 2019 : P-308

Key Tracker Using Gps

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ABSTRACT-

We have an existing system where we have a keychain which can be attached to keys. Many such devices can be connected to the mobile app simultaneously. But the major disadvantage of existing system is, it uses the replaceable battery after some time ~these batteries are to be A replaced. And the keychain can also be detached or damaged so avoid this we are embedding this system into key itself with few differences the major advantage of our invention is we are using the solar energy for operating the WSN node and the buzzer. As the device is fully integrated there are less chances of damage. In this particular invention we can track the key using the GPS location; the key is connected with the mobile application wherein if the key is lost then the mobile shows the location and also provide a button which rings the key.

IPR APPLICATION / PATENT NO. – 201621001943



CIPCIS 2019 : P-309

Flexible Roll Forming Machine For Manufacturing Variable Cross-Section Profile

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ABSTRACT-

Basically, it is a new system which can be used in sheet metal industries and finds its applications in auto mobile parts, air-conditioning ducts etc. The conventional method of roll forming gives the sheet metal profiles of uniform cross-sections and manufacturing of different dimensions profiles need to use separate machine or die. However, in several cases, it is desired to get flexible cross-sections contiguous to the length. The flexible roll forming profile machine is as an ideal solution to the above problem where the width adjustment and pressure adjustment roller enables to make non-uniform sections.

IPR APPLICATION / PATENT NO: 201721028125

CIPCIS 2019 : P-310

Multi Purpose Smart Pen

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ABSTRACT-

The invention provides a multipurpose stationary smart pen. The said multipurpose pen modules provided for holding different elements. The elements include stationary usable like eraser, pen, glue stapler etc. The elements are mounted on the said modules and can be attached or detached as per usage. The stationary elements can be used easily and carried easily. The said multipurpose pen also contains a LED pointer and a digital watch which increases its utility.

IPR APPLICATION / PATENT NO. – 3425/MUM/2015



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-311

Design and Development of single stage Coarse-Fine Mechanism for precision application.

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ABSTRACT-

Flexure based mechanisms also referred as flexures have immense scope in their use for applications involving high precision motion. Their superior architecture provides better load capacity and positioning accuracy. The Flexible joints would give better results than universal and spherical joints because they eliminate friction and backlash. Flexures can be designed to provide linear elastic motion with a high resolution (on the order of nanometers) over small ranges of motion (on order of micrometers). They are widely being used as motion- guidance or bearing elements in applications requiring multi-degree-of-freedom positioning and alignment. Example applications include positioning a probe or sample in atomic force microscopy, alignment of tool and sample in stamping processes, and fine-positioning of wafer steppers in semiconductor manufacturing.

IPR APPLICATION / PATENT NO: 201721027728

CIPCIS 2019 : P-312

Improved Matchsticks

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ABSTRACT-

According to this invention, there is provide improved matchsticks which deals with 1) Use of one matchstick twice. Due to double use of one stick we can reduce cost of matchstick box. 2) Increasing the thickness of the matchstick for safety purpose. In this invention, there is provided improved matchsticks in which we are increasing the thickness in the central part of the matchstick. The part where we have increased the thickness is coated with nonflammable material so that when one end of the stick catches fire and when it will reach to the centre near the non-flammable material the fire will extinguish and then we can use the matchstick from the other side also as the phosphorus material is coated at both the ends of the matchsticks.

IPR APPLICATION / PATENT NO. – 3040/MUM/2015



CIPCIS 2019 : P-313

Design and Development of single stage Coarse-Fine Mechanism for precision application.

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ABSTRACT-

Disclosed is energy efficient water heating system. The system comprises a water heater unit capable of receiving hot water from a solar water heating system and cold water from an overhead tank. The water heating unit includes at least first valve configured at inlet of the cold water to the water heater unit, at least one second valve configured downstream, a heating coil and a microcontroller configured within the water heater unit. Specifically, the microcontroller regulates ON and OFF operation for the heating coil. The system further comprises at least one first sensor for sensing the temperature of the water received from the solar water heating system, at least one second sensor (TS2) for sensing a water heater unit outlet water temperature.

IPR APPLICATION / PATENT NO: 201821010942

CIPCIS 2019 : P-314

Improvement In Cricket Technology

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ABSTRACT-

The present invention provides an advanced cricket technology monitoring system. This system includes sensors at boundary line and crease line which configured automatic sensing. Another feature in this system is it gives alertness with the help of sensors when fielder or ball touches the crease line and boundary line then LEDs light will glow. So that activation of the alerting indicates that this recorded live action on ground is broadcasted on television coverage of a cricket ground and used by a television third umpire or the umpire who is present on ground for adjusting catch's and runs.

IPR APPLICATION / PATENT NO. – 3007/MUM/2015



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-315

Design And Development Of Mea For High Peak Power Fast Responding Pem Fuel Cell.

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ABSTRACT-

For effective working of any system, the power source should supply power according to load demand. Fuel cell can be used as power source if the load demands constant power. Response of fuel cell to the instantaneously changing load is very less due slow reaction kinetics of the fuel at electrodes. Super capacitor can be used as power source if load demands large power for short duration. Continuous power for longer duration using super capacitor is not possible. For the load like

motor load or electrical vehicle load, the load require large power at start, during acceleration and for up hilling, while nearly constant power for continuous operation. Such type of load characteristics cannot be supplied by only fuel cell or only super capacitor. In practical cases, to supply such loads, a parallel combination of fuel cell and super capacitor or parallel combination of battery and super capacitor is used called as

Hybrid System. The space required and cost of hybrid system is always more. The present invention proposes design and development of membrane electrode assembly (MEA) for a power source which includes features of both super capacitor and PEM fuel as a single power source and therefore it is naval and highly useful for electrification and transportation (Electric Vehicle).

IPR APPLICATION / PATENT NO: 201621007958



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-316

Innovative Cash Indicator Technology For Atm Machine

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ABSTRACT-

Innovative Cash indicator technology for Automated teller machine (ATM), Present invention is provide sensor for senses the cash are available in ATM machine or not and provides indicator for indicating cash is available or not in ATM machine. And circuit is used for getting data input from sensors and process that data and give output to indicator for cash is available or not in ATM machine. Using this present invention customer can save their lot of time. The customer can come to know the availability of the cash without doing the whole procedure. Customer even need not get out of his vehicle. The availability of the cash can be indicated outside the ATM box. Not only customer but the banks time is also saved. This present invention can informs the respective bank as soon as the money gets over, so that the bank can transfer the money to the ATM machine. The bank duty is to do the transaction of the money as quickly as possible. This invention helps them in doing so. In this way the bank and even the customer is satisfied. This present invention can be proved as a helping hand in saving the customer's time as well as respective Bank also.

IPR APPLICATION / PATENT NO. – 2803/MUM/2015



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-317

Development And Characterization Of Supercapacitive Pem Fuel Cell.

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ABSTRACT-

Fuel cell is electrochemical device which converts chemical energy into electrical energy. there are various type of fuel cells operating at different temperatures amongst: PEM (Polymer Electrolyte Membrane) fuel cell is very popular due to its light weight, low operating temperature, fast starting, large energy density and negligible green house gases emission. however ,direct use of PEM fuel cell for most of the applications is restricted due to its low dynamics and less peak power supplying capability. for the load like motor load or electrical vehicle load, the load require large power at start, during acceleration and for up hilling, while nearly constant power for continues operation. such type of load characteristics cannot be supplied by fuel cell only. in practical cases, to supply such loads, a parallel combination of fuel cell and super capacitor or parallel combination of battery and suocer capacitor is used called as hybrid system. the space required and cost of hybrid system is always more. the present invention proposes nano material technology for development of PEM fuel cell increases its internal capacitance (super capacitance) and hence improves its slow dynamics and peak power supplying capability. polarization characteristic and electrochemical impedance spectroscopy (EIS) of developed PEM is compared with conventional PEM fuel cell to verify its improved performance. The proposed PEM fuel cell includes features of both super capacitor and conventional PEM fuel in a single power source and therefore it is naval and highly useful for electrification and transportation (Electric Vehicle).

IPR APPLICATION / PATENT NO: 201821008313A

CIPCIS 2019 : P-318

System And Method For Predicting Heart Disease Risk Factors

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ABSTRACT-

System and method for predicting heart disease risk factors based on handwriting analysis is disclosed. The writing features such as horizontal lines, vertical lines, left slant, right slant, total length of horizontal baselines, total length of vertical baselines, total number of left slant lines, total number of right slant lines, size, pen pressure etc are used to predict the presence of heart disease risk factors and the type of the heart disease risk factors. The system is easy to use, cost effective and user friendly. The recognition rate is also good.

IPR APPLICATION / PATENT NO. – 2913/MUM/2015



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-319

Design and development of smart electricity measurement system

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ABSTRACT-

Electricity is one of the fundamental necessities of human beings, which is commonly used for domestic, industrial and agricultural purposes. With the rapid developments in the Wireless communication technology by the use of advanced microcontrollers, there are many improvements in electrical energy measurement and billing system which reduces manual reading errors and also reducing manual efforts. The traditional manual meter reading was not suitable for longer operating purposes as it spends much human and material resource. It brings additional problems in calculation of readings and billing manually. In country like India, there are different tariff rates for different unit consumption in a particular time period, therefore timely and accurate energy consumption reading is most important to avoid unnecessary burden on consumers of electricity. Now-a-days the number of electricity consumers is increasing in great extent. It became a hard task in handling and maintaining the power as per the growing requirements. Presently maintenance of the power is also an important task as the human operator goes to the consumer's house and produces the bill as per the meter reading. If the consumer is not available, the billing process will be pending and human operator again needs to revisit. Going to each and every consumer's house and generating the bill is a laborious task and requires lot of time. It becomes very difficult especially in rainy season. If any consumer did not pay the bill, the operator needs to go to their houses to disconnect the power supply. These processes are time consuming and difficult to handle. Moreover, the manual operator cannot find the unauthorized connections or malpractices carried out by the consumer to reduce or stop the meter reading/power supply. The human error can open an opportunity for corruption done by the human meter reader. So the problem which arises in the billing system can become inaccurate and inefficient. . I present invention a microcontroller based accurate and timely energy meter reading and billing system is presented which reads energy meters of consumers at a fixed time of fixed day of every month and calculate bill of energy consumed depending on energy consumed and tariff rate. The proposed system replaces traditional meter reading methods and enables remote access of existing energy meter by the energy provider. Also they can monitor the meter readings regularly without the person visiting each house.

IPR APPLICATION / PATENT NO: 201821014826



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-320

Improved Keyboard With Visible Operating Shortcut Keys For Laptop Keyboard & Desktop Computer Keyboard

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ABSTRACT-

Improved keyboard with visible operating shortcut keys for laptop keyboard and the desktop computer keyboard and all computer device. Providing keys such as copy, paste, cut, undo, properties, minimize, maximize, select all, new documents, open documents, save documents, save as documents, tab documents, file browser and task manager in one single click or touch. These shortcut buttons save fraction of seconds, an improved new advanced laptop keyboard and desktop computer keyboard advanced visible shortcuts in one click on laptop keyboard, the improvement is for perform mostly use command on only single click on laptop keyboard, said for perform one click operation or command which was performed by two, three, one button click, said arranging the button on frequently and easy to use specific button structure, said the some buttons are arranged on nearest space and on top of mouse touch pad, said some specific buttons are arranged on nearest left hand side of mouse touch pad which so easy to perform some operation or commands, said some specific buttons are arranged on nearest right hand side of mouse touch pad which so easy to perform some operation or commands, said one scroll wheel is arranged on nearby mouse touch pad after right side arranged buttons, said some most use full program's shortcut keys are arranged on below the laptop keyboard on left hand side. Some buttons are operates on exists principle. Some buttons are only arranged and placed very frequently and systematic manner. By using these keys user can operates various commands and operation very quickly and easily. Main aim of these improved keys are to save fraction of seconds of user without confusion.

IPR APPLICATION / PATENT NO. – 784/MUM/2015



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PIMPRI CHINCHWAD COLLEGE OF ENGINEERING AND RESEARCH
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CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-321

Design And Implementation Of Shielded Channel Double Gate Junctionless Metal Oxide Semiconductor Transistor For Low Power And High Performance

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ABSTRACT-

A Shielded channel double gate junctionless metal oxide semiconductor transistor is described. In one aspect, a transistor device comprises a semiconductor material. The semiconductor material comprises first, second and third portions. The first, second and third portions are doped with dopants of the same polarity and the same concentrations. The transistor device further comprises an electrode connected to the second portion. A current flows between the first and third portions when a voltage is applied to the electrode.

IPR APPLICATION / PATENT NO. – 4726/MUM/2015



CIPCIS 2019 : P-322

Design And Development Of Mea For High Peak Power Fast Responding Pem Fuel Cell

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ABSTRACT-

For effective working of any system, the power source should supply power according to load demand. Fuel cell can be used as power source if the load demands constant power. Response of fuel cell to the instantaneously changing load is very less due to slow reaction kinetics of the fuel at electrodes. Supercapacitor can be used as power source if load demands large power for short duration. Continuous power for longer durations using Supercapacitor is not possible. For the load like motor load or electrical vehicle load, the load requires large power at start, during acceleration and for uphill, while nearly constant power for continuous operation. Such type of load characteristics cannot be supplied by only fuel cell or only Supercapacitor. In practical cases, to supply such loads, a parallel combination of fuel cell and Supercapacitor or parallel combination of battery and Supercapacitor is used called as Hybrid System. The space required and cost of hybrid system is always more. The present invention proposes design and development of membrane electrode assembly (MEA) for a power source which includes features of both Supercapacitor and PEM fuel as a single power source and therefore it is novel and highly useful for electrification and transportation (Electric Vehicle).

IPR APPLICATION / PATENT NO. – 201621007958

CIPCIS 2019 : P-323

System And Method For Recognition Of Human Emotions

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ABSTRACT-

System and method for recognition of human emotions using Electrocardiogram (ECG) signals are disclosed. Hilbert Huang transform is used to analyze ECG signals to detect emotions. Less number of physiological signals are used to serve the purpose and the recognition rate is also good.

IPR APPLICATION / PATENT NO. – 54/MUM/2015



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-324

Pre And Post Accident Reventing Device

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ABSTRACT-

With this invention we are focusing on the human safety and safe driving through various sensors vehicle could not start if driver consumes alcohol also if any emergency situation it sends vehicles location to nearby hospitals, police station and relatives if accident occurs

IPR APPLICATION / PATENT NO. – 201821003798

CIPICIS 2019 : P-325

Car Alert System

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ABSTRACT-

An intelligent vehicle offers the potential to boost safety and convenience considerably for each drivers and passengers. As a district of the intelligent installation (ITS), the intelligent vehicle uses varied intelligent sensing and management algorithms to assess the vehicles. Distance sensor will help to detect the vehicle which is very close to backside of car, if driver is drunk then our system won't allow him/her to start vehicle. Wiper/rain detection if rain starts out system automatically start wiper. Day night sensor system is much smart to detect intensity of light. These all sensors are used here each and every sensor having different functionality. The system in a very position is ready to find alcohol concentration in a person's breath sample for detecting alcohol user

IPR APPLICATION / PATENT NO. – 201821004209



CIPCIS 2019 : P-326

Design and Implementation of Nanoscale Dual Gate Stack Silicon on Nothing Junctionless Transistor for Improving Short Channel Effect and Performance

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ABSTRACT-

A junction less transistor includes semiconductor layer on silicon on nothing and dielectric material, and two layer gate dielectric gate is formed on the semiconductor layer one layer is high-k dielectric and another layer is low k-electric. A gate conductor is split in three different regions, first and third having same polarity. The gate conductor is formed on the gate dielectric and an active area is located in the semiconductor layer under the gate dielectric. The source and drain regions and active area have the same conductivity type.

IPR APPLICATION / PATENT NO. – 201721026855

CIPCIS 2019 : P-327

Design and Implementation of Position Aware Congestion Control System in Wireless Sensor Networks

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ABSTRACT-

Present invention discloses aware (Traffic minimizes) and congestion reducing scheme using position aware congestion (PACC) scheme in wireless sensor networks. Congestion control scheme indirectly saves more energy by the nodes during source to sink communication. Maintain the better network performance and quality of service parameters using PACC system. The given invention shows the reduce buffer and channel occupancy scheme for reduce network congestion and traffic. Reporting rate is a parameter which controls the rate of packets transmission in the network. Using PACC system assign the threshold value of buffer or channel occupancy to the nodes. Threshold value for buffer indicates the congestion notification bit. Buffer occupancy is greater than threshold value of buffer occupancy then adjusting the reporting rate for particular nodes. This scenario or strategy adjust the data transmission rate and reduce the traffic in the network will be improved like delay, energy, throughput, packet delivery etc. using PACC scheme achieves QoS parameters like average throughput, increase packet delivery ratio, achieve energy efficiency and parameters like delay. Proper congestion control is a notification or indication of the network.

IPR APPLICATION / PATENT NO. – 201721026855



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-328

Chain link

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ABSTRACT-

This present invention work provides modification in conventional method of making chain link. It is made by rounding/ turning the end portions of straight bar into circular open loop. In conventional open loop chain system, loop is kept wide open. The width of opening is greater than the diameter of chain link strand/bar. This gap/opening enables to insert/remove another chain link for increasing /decreasing the chain length (variable length). For closed loop chain link; to change the length of chain (increase or reduce); one need to first open the circular loop.

IPR APPLICATION / PATENT NO. – 20180312408

CIPICIS 2019 : P-329

Design and Implementation Of Nanoscale Dual Gate Stack Silicon On Nothing Junctionless Transistor For Improving Short Channel Effect And Performance

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ABSTRACT-

A junctionless transistor includes, semiconductor layer on silicon on nothing and dielectric material, and two layer gate dielectric is formed on the semiconductor layer, one layer is high-k dielectric and another layer is low-k dielectric. A gate conductor is split three different regions. first and third having same polarity. The gate conductor is formed on the gate dielectric and an active area is located in the semiconductor layer under the gate (Inlet-inc. The source and drain region: and active area have the same conductivity.

IPR APPLICATION / PATENT NO. – 201721026855



CIPICIS 2019 : P-330

Solar Water Temperature Control Unit With Embedded Thermal Electricity Generators

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ABSTRACT-

This invention deals with providing convenience to household application for controlling the temp. of the solar water coming straight from the solar tank situated on the terrace. In general, the user gets the same high temp. solar water directly from the upper tank connected to solar panels which is around 70-80 degrees centigrade or even may get into 90s of degree centigrade, so we cannot use the same hot water for all the basic purposes. A problem always arises when we use shower for bathing or at the time of using warm water for washing face or even basic things like washing clothes we get the same constant high temp. of water for use and there is no way to minimize this hot water temp from solar according to our need and comfort. Thus this is the device or the unit that can be attached at the place where we need the water particularly into the bathroom or even in the kitchen or even anywhere in the house where we find there is a need to control the water temp.

IPR APPLICATION / PATENT NO. – 201621019881

CIPICIS 2019 : P-331

An Innovative Earthen Pot Evaporating Cooling To Obtain Cooled Water & Enable Space Cooling

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ABSTRACT-

A normal water cooler used for cooling the water is VCR based system, however these systems have drawbacks like the system works on electricity which is a high grade of energy: the system works on VCR cycle which uses harmful refrigerants which contains CFC's & HCFC's which lead to global warming & ozone layer depletion: moreover VCR based system used for cooling water is costly: hence there is a need to develop a compact system which does not consume more power & works on natural cooling; a compact earthen pot type water cooling system is developed in the present work; the said earthen pot based system has two earthen pot placed one above another with earthen tubes in between them; a small fan which consumes very less power is placed behind the earthen tubes for cooling the tubes; the earthen pot are placed over a stand & a small tap is attached to the lower pot for pouring the cold water in the glass for drinking; the water obtained from the tap is chilled water and is entirely potable & contains necessary ingredients needed for drinking; also chilled air is obtained from the system due to the fan blowing air over the earthen tubes and hence this chilled air can be used for space cooling.

IPR APPLICATION / PATENT NO. – 201621024229



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIIS 2019)

CIPCIIS 2019 : P-332

Design And Development Of Agricultural Robot

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ABSTRACT-

An agriculture robot or agro-bot is a robot deployed for agricultural purposes. The main area of application of robots in agriculture is at the harvesting stage, fruit picking robots and digging, ploughing and seeding robots are designed to replace human labor. But there is not any invention made to automate pesticide spraying. Pesticide spraying is done manually which is not accurate but it is approximate. Manually spraying of pesticides causes harm to human health as pesticides is hazardous to human health. As well as the monitoring of pesticides is not controlled so that leads to increase in quantity of pesticide requirement.

IPR APPLICATION / PATENT NO. – 201721020107

CIPCIIS 2019 : P-333

Hearing Aid For Hearing Impaired With Minimum Latency For Better Perception Of The Speech Signal

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ABSTRACT –

A device of adjusting a perception of a speech signal to process at least one spectral band of the speech signal to determine better perception of the speech signal. This processing may include processing the spectral bands with plurality of approximation filters that can approximate plurality of auditory filters which are based on optimized wavelet packet tree with eight spectral bands. The present invention is particularly applicable to hearing aid for hearing impaired with minimum delay/latency.



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-334

External Processor Based Delta Robot System

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ABSTRACT-

In this invention we are developing a delta robot without propriety robot controller by integrating standard factory automation products. We have eliminated the need of a complete robot controller by using PLC(49), Motion module(48), Servo Motor with gearbox (41), Servo Drive(47)and an ARM based External Processor(52). This facilitates in reducing the overall cost of the system and better scope for developing customized solutions. We have used ARM based External Processor (52) to compute the kinematics and send corresponding data to PLC (49)for implementing the required motion. Using a PLC (49) in the system offers us a versatile option of on field connectivity and integrating field input and outputs with the system to minimize the system delays. The input co-ordinates are stored in the memory of PLC, this data is read by the processor. The External Processor (52) then computes the angles and writes the angle to the memory of PLC (49). Then the PLC (49) and the motion module(48)does the interpolation and gives the final commands to servo amplifier and finally servo motors with gearbox (41)are driven and motion is implemented. The External Processor (52) is programmed to compute forward and inverse kinematics. The External Processor (52) can also trace profiles and loci of a few common shapes without the need of additional hardware and software. The system makes use of Ethernet based communication protocols to exchange data in network. The used low power motors i.e. 400W servo motors for each axis along with a precision gearbox of reduction ratio 1:10. The servo motors have electromagnetic brakes to avoid accident in case of power failure and have absolute encoder system to store encoder pulses.



CIPCIS 2019 : P-335

Automatic Bus Transport System With Bus Location, Identification And passenger Counting

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SWATI PRAKASH JAGTAP**

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ABSTRACT-

Passengers face challenges as far as accessing the public transportation buses as they needed. As far as the static scheduling of buses is considered, there is problem of late arrival of buses. Also, passengers have to wait for the Bus which they want, without any prior information of late arrival of bus. Passenger counting is required for the passengers' safety and comfort. This problem can be overcome by using dynamic scheduling of buses with the help of GPS and GSM. Along with these the bus identification is also required so that passenger will come to know about the exact bus they require. This project relates the identification of a particular bus using RFID technology and also the counting of passengers inside the bus using image processing. The system adopts the technical scheme that the passenger number information acquisition device that is camera over here, which is situated behind the driver's seat and that camera, will capture video of the passengers in bus. And that video is given to controller which gives output as number of passengers in bus. Also as the bus reaches at any bus stop, certain numbers of passengers onboard the bus and to update that count, comparison is done between two frames of a video after boarding and before boarding and will generate a final count. This final count is send over GSM to next Bus stop so that passenger will come to know that the bus which they want is arriving within how many minutes and it is overcrowded or not.

CIPCIS 2019 : P-336

Biooil Extraction From Fruit The Kagelia Africana

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ABSTRACT-

In this invention the extraction of biomass from the fruit Kagelia Africana which is a renewable source and which has received attention due to various characteristics, particularly its low cost and wide availability. The produced biomass can be converted into bio-oil by means of different processes, for example reductive combustion, liquefaction, pyrolysis and gasification. The use of biomass is particularly interesting when it involves waste products like Kagelia Africana which is in abundance available and has potentials for the energy sources.



CIPICIS 2019 : P-337

Improved Multiple Sign Indicator System For Motorcycles

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ABSTRACT-

Conventionally motorcycles accommodate more than one signal indicator lighting devices in the front and back side of the vehicle. Proposed system provides a universal means for turn signaling as well as warning sign indication for conventional vehicles including two wheelers, four wheelers and transportation vehicles. This indicator system (fig. 3) can be integrated or attached to the front (fig. 5) and back side (fig. 6) of the vehicle. It indicates the driver's intention in terms of standard meaningful signs (13), while the vehicle is running on the road or is reversed through the parking areas, so that following vehicle drivers or pedestrians can understand the vehicle proceeding thereof; and the chances of misunderstandings and wrong depicting of driver's intention are reduced. The proposed assembly either replaces or adds to the conventional indicator system, and different signs (fig. 4) are displayed onto the common lighting device.

CIPICIS 2019 : P-338

Multi Purpose Weight Carrying Mechanism

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ABSTRACT-

Present invention relates to rain water harvesting through street light poles. The object of the proposed rainwater harvesting is to focus on rain falling on roofs of houses or buildings, but not on roads. The rainwater falls on four sides of the setup are gets collected at the meeting point of four sides and through pipe rain water goes down in harvesting pit due to gravity and gets absorbed in ground resulting in increase of ground water level. The proposed invention can be implemented anywhere like roads, gardens, industries, schools, etc. and its pit by some enlargement can be used for harvesting of rainwater from roofs also. And also the setup generates electricity, simultaneously.



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CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-339

Rain Water Harvesting System Through Street Light Poles

Pankaj Sahadeorao Ardak¹, Yamin Anwar Siddiqui², Akash Jagannath Chavan³,

¹Asso. Prof. Department of Mechanical Engg, P.R.Pote CoE and M, Amravati (MS) India, pankajardak@gmail.com, 8830384560

ABSTRACT- Present invention relates to rain water harvesting through street light poles. The object of the proposed rainwater harvesting is to focus on rain falling on roofs of houses or buildings, but not on roads. The rainwater falls on four sides of the setup and gets collected at the meeting point of four sides and through pipe rain water goes down in harvesting pit due to gravity and gets absorbed in ground resulting in increase of ground water level. The proposed invention can be implemented anywhere like roads, gardens, industries, schools, etc. and its pit by some enlargement can be used for harvesting of rainwater from roofs also. And also the setup generates electricity, simultaneously.

IPR APPLICATION / PATENT NO. – 2019210313450



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-340

Patho-Urinal To Detect And Display Urine Test

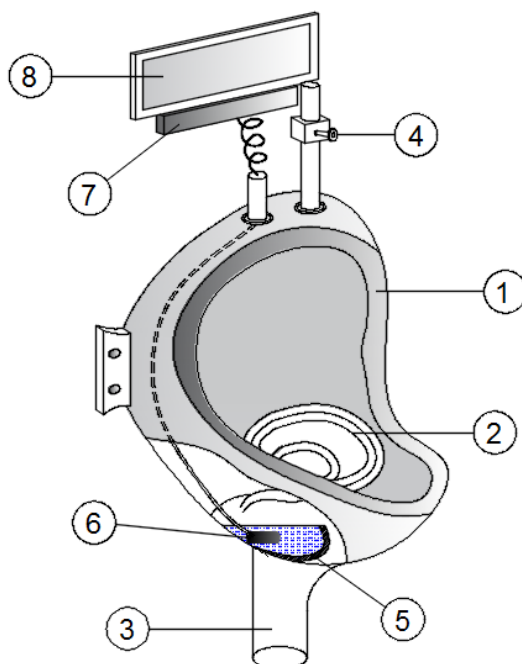
Parag Laxman Gore

182, Dada SmrutiSavata Nagar, Opposite to akashwani Kendra Devopur, Dhule – 424005, Maharashtra, India.

ABSTRACT-

This innovation is an improved urinal pot with using the machine learning algorithm, the data from the hospital and pathology lab report of a normal healthy person will be used as standard data for comparing urine sample test report parameter, the said system having uses machine learning and artificial intelligence to test and analyze the urine sample during the urine discharge process and towards the end of this process, the urine test report will be shown on display with parameter values and recommendation of the possible diseases if any, the said system may use in common public toilet or at home so that early diagnose of diseases which found by urine test is carried out.

DIAGRAM / SCHEMATIC –





CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-341

Foldable Safety Helmet

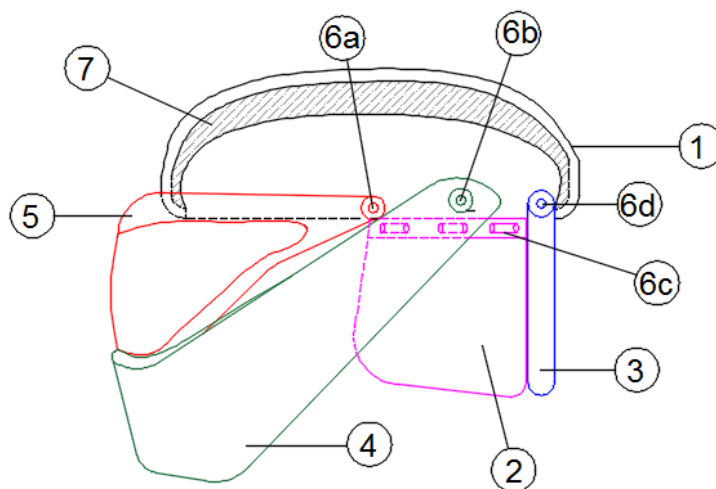
Sanket Sadashiv Kumbhar

Swamidas Appartment, Block No. 14, Dhangar Aali, Roha, Raigad, Maharashtra, India.

ABSTRACT-

This innovation is an improved foldable safety helmet, wherein, all possible parts like helmet back (3), side covers (2), face shield (5), chin guard (4) can be kept in operating position to make and use it as normal helmet, but when all these parts are folded at respective pivoted joints (6), it become compact to carry in bag or storing in less space, even though it is foldable but arrangement is made such a way that when it is in operating condition it will become normal rigid helmet of the equal strength and act a single unit.

DIAGRAM / SCHEMATIC –





CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-342

Chopping Guard To Avoid Injury Of Human Fingers

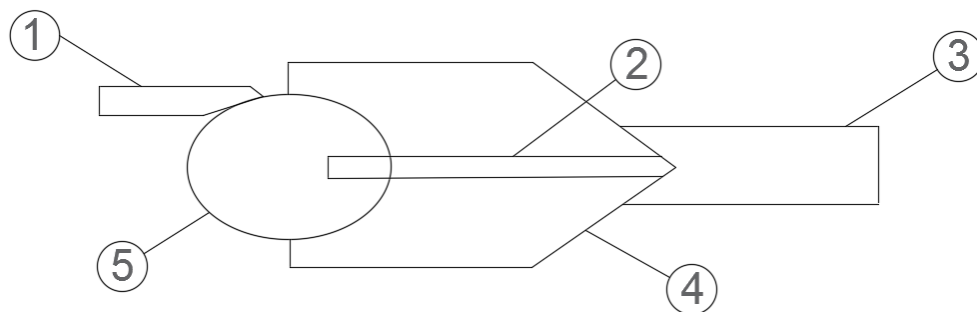
Jayashri V. Chopade, Sneha Pawade, Rupali Patil, Tejal Patil, Priyanka Chavan

Asst. Prof. Department of Mechanical Engg., PCCOER, Ravet, (MS) India, jayashri.chopade@pccoer.in, 9545452766

ABSTRACT-

According to this invention the fruit or vegetable are cut by knife (1). The vegetables or fruits are properly hold by holder (4). The pusher (2) is attached to the holder (4). There is guard holder (3) which is attached to the guard. When the vegetables or fruits are cut by knife (1), it is hold properly with the help of holder (4). When knife reaches upto the end of fruit, the pusher (2) will push the fruit in forward direction and whole fruit will cut by knife (1). Here human fingers can be saved at the time of cutting. Thus, this invention use to protect the human fingers from injury due to knife (1) and whole fruit will cut without injury.

DIAGRAM / SCHEMATIC –



1 : Knife 2 : Pusher, 3 : Guard holder, 4 : Holder 5 : Fruit



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-343

Safety Status For A Highway Project

Ravindra Krishnarao Lad

ABSTRACT-

An invention deals with safety management in highway construction projects. The calculation of status of safety has a major bearing on the human decisions regarding an importance of the construction activities. The decision process is complex with higher degree of subjectivity involved and therefore calls for the analytical tools which can imitate this behavior and bring the results close to the reality. In the present invention the fuzzy decision model has been developed to calculate status of safety before commencement of highway project. An invention will fulfill the safety requirements that should be considered before starting highway project and also it will be very helpful to minimize accidents during highway construction.

IPR APPLICATION / PATENT NO. – 201621017429

CIPCIS 2019 : P-344

Appropriate Flat Potential Index (AFPI) For A Residential Flat

Ravindra Krishnarao Lad

ABSTRACT-

Selecting the appropriate flat has a major bearing on the human decisions regarding an importance of flat selection parameters. The decision process is complex with higher degree of subjectivity involved and therefore calls for the analytical tools which can imitate this behavior and bring the results close to the reality. The present research examines the efficacy of soft computing techniques of Fuzzy Multiple Criteria Decision Making to quantify the potential of appropriate flat. In this study presents various criteria which are required to think at the time of purchasing flat. By considering multi criteria, it is very difficult to take a decision as whether flat is appropriate or not? Therefore, an attempt has been made to formulate a fuzzy model to determine acceptability level of appropriate flat. The study highlights potential of appropriate flat on the basis of fulfillment of client.

IPR APPLICATION / PATENT NO. – 201621017427



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-345

Real Estate Project Success Potential Index (REPSPI)

Ravindra Krishnarao Lad

ABSTRACT-

The major objective of this study is to propose a comprehensive model for real estate projects to highlight success of the project considering both external and internal factors. In this respect, a wide range of success criteria are identified based on an extensive literature survey and these criteria are classified into their respective sub criteria. In this context, a questionnaire survey was taken in city. In this survey, experts' opinion from professionals and academicians from civil engineering field is taken through questionnaire. Top level managers, Senior civil engineer and Professors were interviewed to investigate a set of eleven major Criteria and sub Criteria of the same of project success. Further attempt has been made to formulate a fuzzy set numbers and employing Fuzzy Multiple Criteria Decision Making technique with a view to determine success potential of real estate project. Real estate companies may benefit from the findings of the proposed model in assessing the performance of their projects and may take the necessary actions to achieve better success in their projects to make reputation in market.

IPR APPLICATION / PATENT NO. – 201621017428



CIPCIS 2019 : P-346

A Program Based Starting System For Two Wheeler's

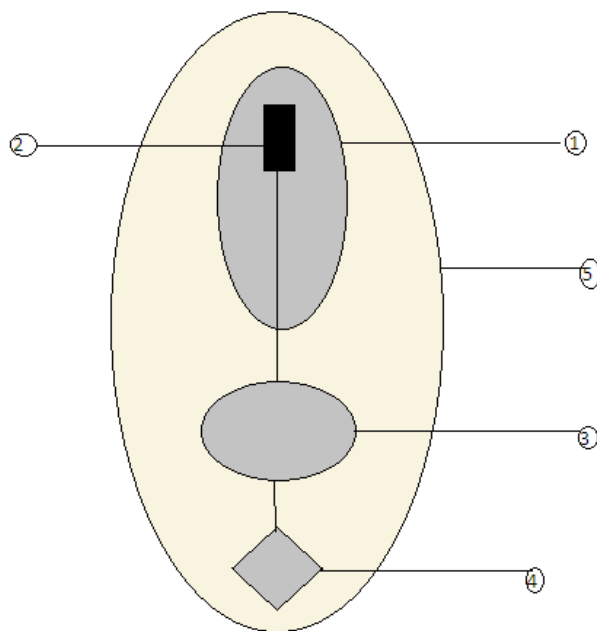
Nangare Ganesh Raman, Mane Amol Balbhim, Bhosale Sachin Bajirao

A/P:Ghodagaon Tal Ambegaon ,Bhimashankar Manchar Road Dist Pune 412408

ABSTRACT-

As per our mentioned field of invention /objectives of the invention here we provide /design a system when driver took position of his/her seat of the vehicle, the weight/load act on the sensor/switch can measure the weight of the driver. When measured weight of his/her is as per the program /design set by specific reference values .The measured values started the vehicle (set values and measured values matched) else vehicle is not started.

DIAGRAM / SCHEMATIC –





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CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-347

Combined Novel Honeycomb Heat Exchanger and Latent Thermal Energy Storage System Integrated with Flat Plate Solar Air Collector

**Deshpande Piyush, Jabade Shidagonda , Deshpande Piyush, Choudhari Ramesh , Gaikwad
Shubham Bhele Sarvesh**

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ABSTRACT-

This invention is related to Combined Novel Honeycomb Heat Exchanger and Latent Thermal Energy Storage System integrated with Flat Plate Solar Collector. Solar drying systems demands simultaneous use of solar energy and thermal storage during sunshine hours and same thermal energy can be retrieved after sunshine hours efficiently. Efficient heat exchange between latent thermal energy storage medium and fluid is possible with this invention. The device invented can be integrated with solar collector which gives effective and efficient heat transfer from latent thermal energy storage medium to fluid after sunshine hours in solar drying systems. Commercial drying systems can be coupled with this invention to reduce the drying time. Combined Honeycomb heat exchanger and thermal energy storage system gives efficient retrieval of the storage energy.

IPR APPLICATION / PATENT NO. – 201921011073



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CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-348

Cascade Thermoelectric Model Operated Passive Device for Car Windshield Defogging

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ABSTRACT-

This application relates to the use of Cascade Thermoelectric Model Operated Passive Device for Car Windshield Defogging. This invention is related to the use of a thermoelectric generator and cooler arrangement for providing defogging or defrosting of cold Surfaces associated with a climate-controlled space, while not appreciably affecting conditions in the climate-controlled Space. The device invented can be used in car where defogging is necessary during heavy rain. In spite of having the Air Conditioning System in the Car, people are not using the same from energy consumed by the Air Conditioner. To such personate this device can be one of the options for eliminating the fogging inside wind shield of the car and at the same time reduction in excess use of fuel for Air Conditioning System of Car. The device preferably used in the cars operated on either petrol/diesel/CNG as a fuel The existing car manufacturers can incorporate this system in their cars in addition to Air Conditioner. This can solve the defogging of the car windshields during heavy rain with no extra fuel consumption which is a major concern for the people which does not use air conditioners.

IPR APPLICATION / PATENT NO. – 201921011083



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-349

Dual Mode Seasonal Helmet

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Mankar Nikhil, Mahajan Suyog**

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ABSTRACT-

This invention relates to improvement in half & full type of helmet. Dual Mode Seasonal Helmet is comfortable in summer as well as in winter season. The most ventilated full face helmets fail to maintain the coolness of the head while riding in the heat. We have all been there that feeling of suffocation when the ride is long in the hot summer, making it almost impossible to bear that unnecessary weight. The major problem with these half helmets is safety. As it leaves most of the face open, you might face some serious injuries should you land face first in an accident. As your face is left open, you will have a hard time on dusty roads. Dust and smoke will cover your face instantly, and you will need to watch out for any flying objects like gravel and pebbles coming at you while off-roading. Half helmets are not weather friendly. Rainy seasons will come off harsh and the winter will be worse, with your neck and face exposed to the numbing cold breeze. So the above problem can be solved by using Dual Mode Seasonal Helmet.

IPR APPLICATION / PATENT NO. – 201921011085

CIPICIS 2019 : P-350

Modified Gas Burner Design for Flat Base Cooking Pots

**Mali Lakhan Balasaheb, Godase Sachin Mohanrao, Teli Sourabh Shivshankar,
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ABSTRACT-

The present disclosure generally relates to a gas range system, and more particularly to enhancement of burner performance of a gas range system for a cooking appliance with flat base. The invented burner design evenly distributes the heat all over the pots of flat base and gives better performance in terms of the area covered by the flame, burner efficiency, slow cooking and maximum utilization of the gas. The invented modified gas burner design can be used in the domestic and commercial application. The modified burner design consists of triangular shape diagonal array to carry the gas. The upper edge of the triangular shape diagonal array assist to rest the flat base cooking utensils directly on the burner. The special class of food items demands pots with flat base and uniform heating all over the base. The industries involved in the gas burner manufacturing can be benefited with this improved and efficient gas burner design.

IPR APPLICATION / PATENT NO. – 201921011082



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-351

Smart Chair: Round the Year Thermal Comfort Enhancement of Chair Occupants using Thermoelectric Cascade Model and Phase Change Material

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ABSTRACT-

This invention pertains generally to seating assemblies and more particularly to chairs with devices for round the year Thermal Comfort Enhancement of chair occupant using Thermoelectric Cascade Model and Phase Change Material (Smart Chair). The present invention replaces conventional cooling method to achieve thermal comfort of the chair occupants. Which ultimately minimizes the power consumption and achieves person based comfort. The seat is capable of individual environmental control that may be coordinated with air temperature control that can satisfy the temperature requirements of multiple occupants whose interpersonal temperature requirements naturally differ. The cascade thermoelectric model simultaneously gives round the year thermal comfort in addition to conversion of waste heat in to usable form of energy. The usable form of the energy can be further utilized for enlightening the LED, which can be further used in the different applications. The device invented can be coupled to office/seminar /conference chairs to achieve individual persons round the year thermal comfort in addition to conversion of waste heat in to the electricity. The incorporation of PCM leads to reduction in the initial cooling load and long term cooling effect in absence of the thermoelectric cascade model.

IPR APPLICATION / PATENT NO. – 201921011076

CIPCIS 2019 : P-352

Seat Belt- A Life Savior

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ABSTRACT-

In developing countries people don't really follow traffic rules strictly and as a result lakhs of people die in road accident, every year. According to Govt. of India about 50% of accidental death could be reduced if people started wearing seat belts. This invention deals with enhancing safety and reducing accidental deaths. This particular invention boosts the safety of the driver by ensuring that he/ she has worn the seat belts compulsarily all the time. This can be done by using various sensors placed in the seat belt assembly. These sensors will communicate the position of the seat belt to the ECU. Comparing these data and gear position, the ECU would decide whether to stall or let the engine run. Basically it will ensure that the car wouldn't get into motion unless the driver has worn the seat belt properly. By doing this so, the vehicle will force the driver wear seatbelts, thereby saving his/her life even in case of crash.



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-353

A Microcontroller Integrater Weight Sensor Installed On Medicine Bottles To Detect The Exact Refill Time With Unit Metering System

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¹Department of Mechanical Engg., PCCOE, Akurdi, Pune (MS) India.

²Department of Electronics and Telecommunication Engg., PCCOE, Akurdi, Pune (MS) India.

ABSTRACT-

The system comprise of an electronically controlled micro weight sensor with a sensing capacity up to 500gm. A switch connected to the time defined alerting system in order to punctually activate the conformation and delivery of the medicine. The sensor would be connected to an LED which will blink whenever the weight of the medicine inside the container reduced below a critical level. The alerting utility would send a confirmation alert to the consumer as well as the nearby medical stores. The integration of the weight measuring sensor with the alerting system would save time, increase technological nucleation and provide a punctual and efficient user experience.

CIPCIS 2019 : P-354

A Digital Platform For 360o Orientation Through Verticle And Horizontal Axis Integrated With A Take Along Charging Utility For Modern Smartpones

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¹T.E. student, Department of Mechanical Engg., PCCOE, Akurdi, Pune (MS) India.

²T.E. student, Department of Electronics and Telecommunication Engg., PCCOE, Akurdi, Pune (MS) India.

ABSTRACT- This invention basically relates to a system for an integrated 360o orientation platform as well as the portable internally extendend battery charging utility. This system provides proper orientation so that the user can enjoy the media files at a convenient angle with out holding the smartphone in his/ her hand without bothring much about the battery of the mobile. An objective of this invention is to provide a system which gives its user with a proper orientation utility includes experience along with its inbuilt charging utility which add real value to their digial dimension.



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-355

Aquatic Wall Garden

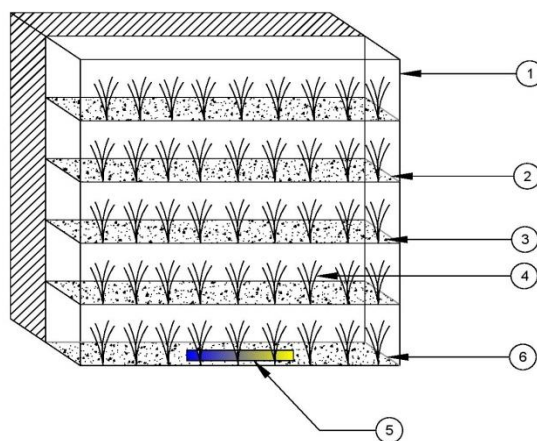
Ashwini Rakesh Jagnade¹

¹Department of E & TC Engg., PCCOER, Ravet, (MS) India, ashwini.jagnade@pccoer.in, 8554987765

ABSTRACT-

The invention will now be described in relation to the accompanying drawings, in which: To form an Aquatic wall Garden, we are going to take fiber glass (1) of 4 -6 inches to create box type framework for the supporting to inside places fiber glass slot (2) keeping same distance between each. Now on the fiber glass slot (2) we are going to spread mud or sand (3) on which the sand or mud for growing area for plants roots. In the sand or mud we are going to plant colorful living watery plants (4) which will give beautiful & attractive look. In this set up, we are going to placed vibrators having 6v to 10v dc battery (5); to generate wave form for aquatic look. We have also added light shades (6) to create delightful atmosphere at night also.

DIAGRAM / SCHEMATIC –



1 Fiber Glass box. 2 slot for mud. 3 sand or mud. 4 colorful plants with different shape & design. 5 vibrators having 6v to 10v dc battery. 6. light shades



CIPCIS 2019 : P-356

An Alarming System For Mishandling Of Equipments

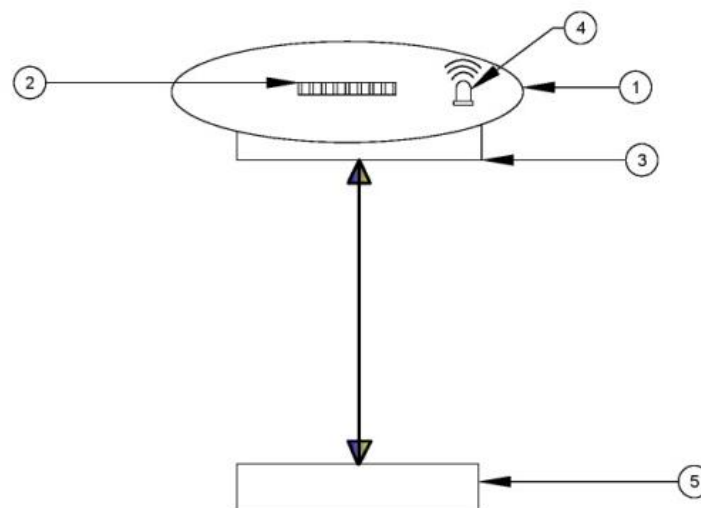
Bhagyashree Appasaheb Bhosale¹

¹Department of Mechanical Engg., PCCOER, Ravet, (MS) India, bhagyashree.bhosale@pccoer.in, 8805907015

ABSTRACT-

The invention will now be described in relation to the accompanying drawings, in which: Figure 1 illustrates the block diagram indicating all the construction and working of the said system. The barcode (2) is provided for identification of the object (1) which can be stolen. The motion sensors (3) for indication mishandling of the object. Alarm (4) buzzes when mishandling of the object is going on. Monitoring server (5) is to record the condition at every time for all the equipments.

DIAGRAM / SCHEMATIC –



1 object .2 barcode.3 motion sensor.4 alarm.5 monitoring server.



CIPCIS 2019 : P-357

Pouched Thermostatic Apparatus To Store Packets Of Beverages In Its Folds

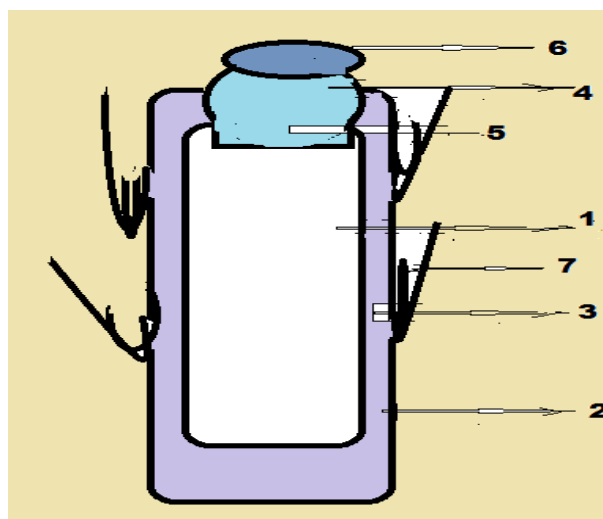
Dr Jyothi Ramesh Pai

¹Asst. Prof. Department of Humanities and Professional Development, PCCOER, Ravet, (MS) India, jyoti.pai@pccoer.in, 9403356299

ABSTRACT -

The figure shows a thermostatic device that has an inner glass shell (1) and an outer steel or any metallic shell covering thrown into folds(2), there is central vacuum coupled between the glass shell and outer steel covering (3). The Figure shows the thermostatic apparatus that has pouches on its outer metallic shell comprising of silicon pockets which is used to store tiny packets of milk, beverages and sugar. It requires no additional cover on it. The apparatus has a mouth screwed with a lid(4) and can be used to pour the hot fluid out into a cup(5) A lid covers the mouth(6) making it safe for transport.. The outer metallic shell with folds(2) has silicon lined pouches in the folds(7)that can be washed periodically to keep the folds(2) germ free.

DIAGRAM / SCHEMATIC –



1 Inner Glass shell 2 outer metallic covering 3 central vacuum coupled with the glass shell and outer metallic shell 4 mouth 5 cup 6 lid screwed on the mouth 7 Silicon or any other easily washable material



CIPCIS 2019 : P-358

An Alteration in toothbrush to detect germs

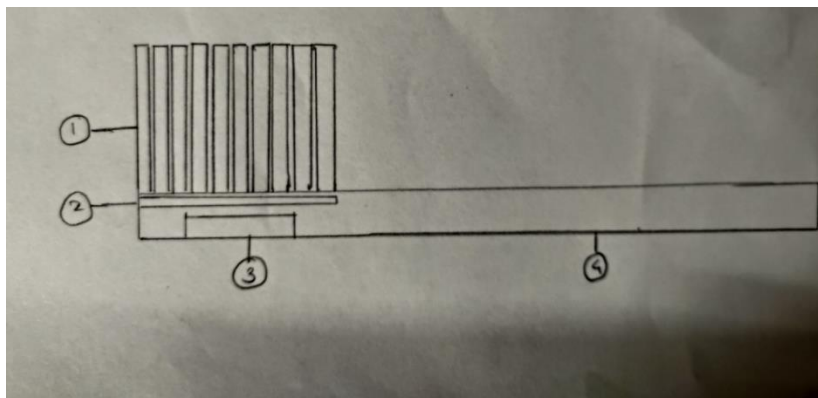
Shweta Koparde¹, Sonali Lunawat², Madhuri Badole³, Anuja Bhondve⁴, Shilpa Kale⁵

Asst. Prof. Department of Computer Engg., PCCOER, Ravet, (ME) India, shweta.koparde@pccoer.in, 9960614717

ABSTRACT-

The invention will now be described in relation to the accompanying drawing, in which Figure I illustrate brush to detect germs, (1) consist of toothbrush bristles (2) a sensing material to detect germs (3) beep sensor at the lower part of brush to beep if sensing material detects germs (4) Holder to hold the brush. When Toothbrush is hold by holder (4) and brush with bristles (1), sensing material (2) detect germs and (3) beep sensor will beep and make sound. A mechanism to detect germs while brushing teeth is achieved.

DIAGRAM / SCHEMATIC –



1: Toothbrush Bristles 2: Sensing material 3: Beep sensor 4: Holder



CIPCIS 2019 : P-359

Obstacle Detection With Movable Mounted Camera For Mobile Phone

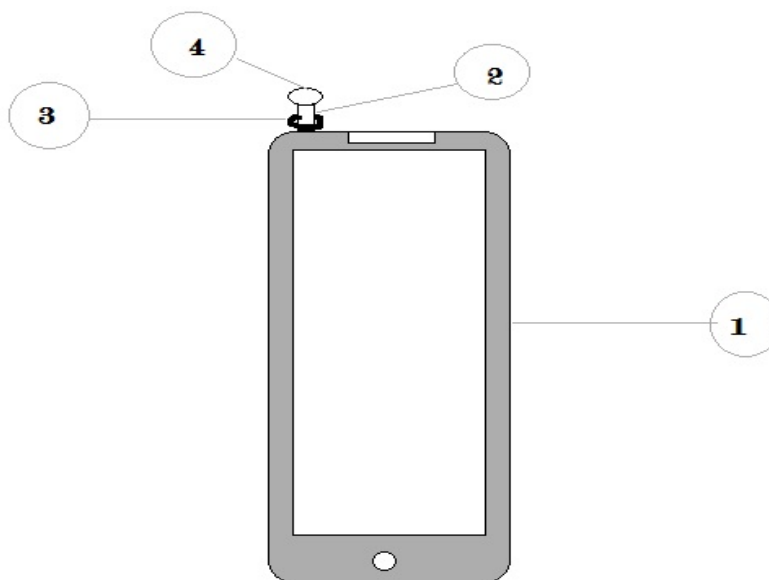
SonaliLunawat, MadhuriBadole, AnujaBhondve , ShwetaKoparde, Shilpa Kale, Ompriya Kale

Asst. Prof. Department of Computer Engg.,PCCOER, Ravet, (MS) India, sonali.lunawat@pccoer.in, 8087472177

ABSTRACT-

The implementation of mobile phones deploy camera's position limits the other usages of the camera and restricts it to be used as a tool to capture images and videos only. Whereas, the camera is more useful than the purpose it is solving at the moment. Like there are many users who walk while typing a text or playing video games. This has caused a lot of accidents. The invention helps to handled very easily if we start using the camera efficiently. If the position of the mobile camera is configurable or changeable, then one use it as a sensor for detecting obstacles in the route. Say a user is playing a video game on the mobile and walking. While this, the mobile phone cognitively changes its position to the front side and starts detecting obstacles. This make it more useful and the user get notifications if there are any obstacles and hence this prevents accidents of the users. This is used by the mobile device makers as security enhancement and user friendliness feature.

DIAGRAM/SCHEMATIC –



1: Mobile 2: Mount, 3: Automatic Rotation, 4:Camera



CIPICIS 2019 : P-360

Automated Decision Support System (DSS) for Thyroid Malignancy Detection through USG

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²Associate Professor, PICT, Pune, Maharashtra, India, munot.mousami@gmail.com,

³Associate Professor, SGB Amravati University, Maharashtra, dr.rautrd@gmail.com

ABSTRACT-

Present invention provides specially design and development of techniques for Thyroid Disorders/Diseases (Decision Support Systems [DSS] for malignancy detection of thyroid nodule using Ultrasonography image and thyroid function test. DSS for Thyroid Disorder is an attempt to introduce a new methodology for thyroid disorder decision making task. The system must therefore incorporate the intelligence to design an optimum intelligent clinical DSS for thyroid disorders using ultrasonography images as well as using Thyroid Function Test [TFT]. This makes the development of an intelligent DSS difficult and challenging. Following invention is described in detail with the help of Figure 1 showing concept of DSS for Diagnosis of Thyroid Disorder: (a) Through TFT, Phase-I (b) Through USG image, Phase-II and Figure 2 of showing the flow diagram.



CIPCIS 2019 : P-361

A SENSING DEVICE TO AUTO SWITCH-OFF THE POWERED DOMESTIC WATER PURIFIER

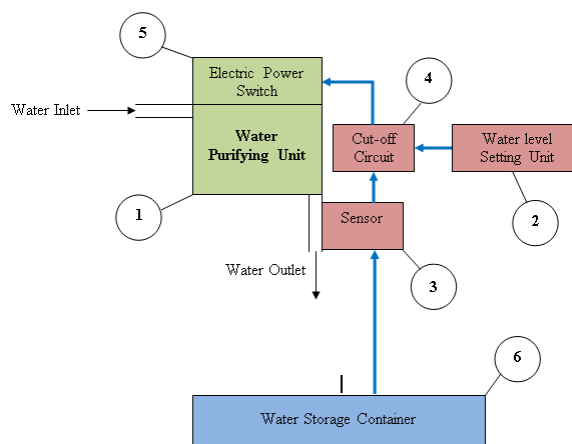
Vaishali Latke¹

¹Assistant Professor, PCCOER, Pune, Maharashtra, India

ABSTRACT-

Powered water purifier is an every household commodity today. However the switching on and off of the unit is entirely a manual operation. Particularly, the switching off requires supervision and timely action, otherwise it may lead to overflowing of water container, loss of valuable purified water and electricity, not to mention, wetting and spoiling of objects around the container. The idea proposed herein is to stop the loss of water and power, to avoid the anxiety and time-loss in supervision, while the container is being filled with water coming out of the outlet of domestic water purifier. It is possible to develop a simple auto switch-off mechanism, which will sense the water level in the container and once the pre-set level in the container is reached, will cut off the electric current, thereby automatically stopping the flow of water through purifier's outlet, at the same time, sounding an alarm to warn the user that the process is over. The mechanism will require assembly of an appropriate sensing device, a pre-set unit to specify desired highest water level in the container, connectivity to the power switch on the purifier unit and to an alarm and the necessary electronic circuit to control the auto switch-off operation, on receiving the signal from sensor. The number of equipment involved is small, inexpensive, harmless, easily available in present scenario of advanced electronics and simple to assemble. The idea of auto switching off of the domestic water purifier at the desired level of water in storage container, thereby avoiding loss of water and electricity shall be welcomed by every user, particularly the conscientious housewives of our nation.

DIAGRAM / SCHEMATIC –





CIPCIS 2019 : P-362

UNDERWATER IMAGE AND SIGNAL PROCESSING

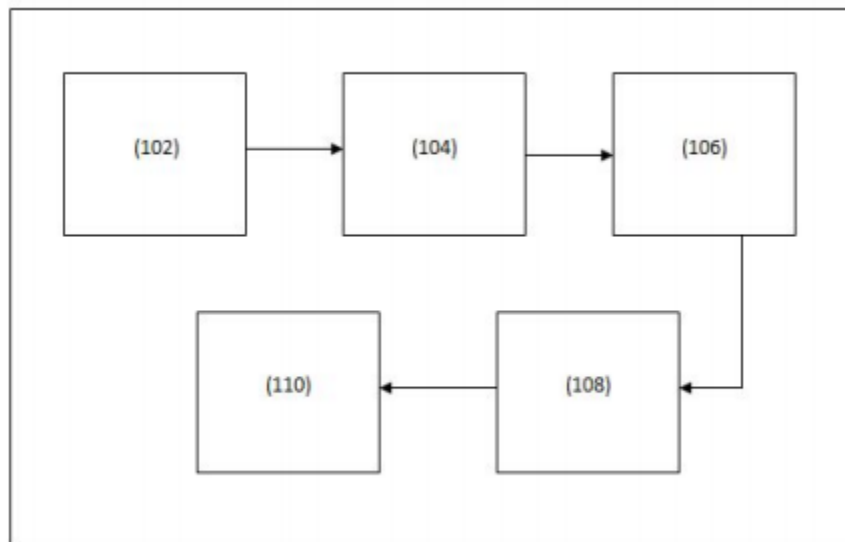
Rupali Kawade, Triveni Dhamale, Neha Chavan, Chinmayee Chitnis

Asst. Prof. Department of E&TC Engg., PCCOER, Ravet, (MS) India, rupali.kawade@pccoer.in, 8805011639

ABSTRACT-

This innovation is based on providing an entire system to perform various tasks like underwater image capturing image processing, underwater signal transmission, signal processing and developing GUI for easily performing all above mentioned tasks. A camera is provided to capture underwater images, then there are image enhancement and image restoration algorithms developed in MATLAB, to process the image. Hydrophone transmitter and receiver pair is used for signal transmission and again MATLAB codes are used to process the received signal.

DIAGRAM / SCHEMATIC –



102 : Capturing underwater image by endoscopic camera, 104 : Creating MATLAB functions for image enhancement and restoration, 106 : Implementing and testing under various conditions , 108 : Compiling MATLAB functions for image processing 110 :Creating Graphical user interface



CIPCIS 2019 : P-363

BS-VI DIESEL PARTICULATE FILTERS(DPF) CLEANING WITH THE HELP OF ACOUSTIC SONIC SOOT BLOWER EQUIPMENT

Munot Divya

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ABSTRACT-

A device for cleaning and regenerating the diesel particulate filters with the help of an acoustic sonic soot blower attached to a sound proof chamber. A device which will make the diesel particulate filters reusable with the almost same efficiency as before. A device made of sound proof chamber in which the diesel particulate filter to be clean will be placed. A device consisting of a vacuum pump to absorb the ash or soot coming out from the diesel particulate filters.

IPR APPLICATION / PATENT NO. – 201921029470

CIPCIS 2019 : P-364

IOT BASED REAL-TIME REMOTE PATIENT MONITORING SYSTEM

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 Mr.Sagar bachhav**

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ABSTRACT-

In the recent development of technology....& %. (IT) all objects inter-connected and it has been recognized as the next technical revolution. Some of the applications of Internet of -things we smart parking. smart horns, smart city. smart environment, industrial places. agriculture fields and health monitoring process. One such application in healthcare to monitor the patients health status; Internet of Things makes equipment more efficient by allowing real time monitoring of patient health. In which sensor attached to the patient end reduces human error. In Internet of Things patient's health parameters get transmitted from medical OIOMMS via a gateway, where it is stored and analyzed. The significant challenges in implementation of Internet of Things for healthcare applications are monitoring data of all patients from various places. Thus Internet of Things in medical field brings out solution for effective patient monitoring at reduced cost and also reduces the trade-off between patient outcome and disease management

IPR APPLICATION / PATENT NO. – 201821036724



Pimpri Chinchwad Education Trust's
PIMPRI CHINCHWAD COLLEGE OF ENGINEERING AND RESEARCH
Laxminagar, Ravet, Pune-412101 (Maharashtra)

CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)



CIPCIS 2019 : P-365

DESIGN OF A ROBUST 2X2 MULTI INPUT MULTI OUTPUT ANTENNA BASED ON COOPERATIVE DIVERSITY

Dr. N.B.Chopde

Pimpri Chinchwad College of Engineering, Pradhikaran Nigdi, Pune-411044, Maharashtra State.

ABSTRACT-

The rapid growth of wireless communication has created a strong demand for high data rates and reduced antenna size. Multi input multi output systems play an important role towards this approach. It is possible to achieve high data rates, enhanced bandwidth and increased capacity using multi input multi output system. Use of diversity in multi input multi output systems is effective in reducing multipath fading. A MEMO antenna is used in both transmit and receive operations. A Multiple Input Multiple Output (MIMO) Microstrip Antenna (MSA) with high isolation using polarization diversity is invented in this invention. A low cost, compact and efficient MIMO antenna is designed.

IPR APPLICATION / PATENT NO. – 201821035593



HIGH GAIN ROBUST OPERATIONAL AMPLIFIER USING CARBON NANOTUBE FIELD EFFECT TRANSISTOR

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ABSTRACT-

There is exemplary need of analog front end since all the real time signals are analog in nature and hence researchers are probing in finding ways to develop high performance portable devices with compact size and capable of operating at low power. The Operational Amplifier (op amp) is the most versatile block used in analog and mixed signal integrated circuits applications. High throughput in terms of gain and stability is a major challenge in the very deep submicron technology and is also becoming more important in portable applications to improve battery life span by using limited power budget. Another major concern is the variability issues in the design of op amp. At the same time, it is also a challenge to maintain the speed and other requirements. So it is a challenge to design high gain, robust op amps with significant speed and other performance parameters like high output swing, limited power budget and sufficient gain bandwidth product. The present invention focus on new configuration for the design of high gain, robust operational amplifier in nanometer regime. The rapid scaling of CMOS processes in nanometer demand low supply which helped digital circuit realization at very low power budget but it is not true for analog circuit realization. Some of these limitations involve electron tunneling through short channels and thin insulator films, the associated leakage currents, passive power dissipation, mismatching in device structure, mobility degradation and random doping fluctuations. To overcome these limitations and sustain the continuity of the nanoelectronics with further possible device scaling down of the transistors and to direct the technology to new dimensions to meet challenges like cost, consistency and performance, the proposed topology is implemented using Carbon Nanotube Field Effect Transistors. Carbon Nanotube-based devices show the potential to sustain the requirements nano-dimensional device in the nearby future because of the similarity with CMOS (Complementary Metal Oxide Semiconductor) device operations and the capability to reduce the power with continued scaling. Hence the present inventions propose different variants in the configuration using hybrid approach.



CIPCIS 2019 : P-367

METHOD FOR ELECTRICITY GENERATION USING WATER AND DEVICE THEREOF

Mr. Shinde Sangharsh Ravindra

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ABSTRACT-

This invention deals with a new technology by which water can be used as a fuel. Water can be used as a fuel in the form of Brown's Gas, so we have a plan to produce a Generator which works on Brown's Gas which is obtained by the electrolysis of water. This method increases the oxygen content in the atmosphere, which helps to solve environment degradation.

IPR APPLICATION / PATENT NO. – 201621004962

CIPCIS 2019 : P-368

IMPROVED FRONT AND REAR VIEW TELESCOPIC CAMERA SYSTEM

**MANISH KALYAN GHOLVE, NARENDRA BHIMRAO KULKARNI
TUSHAR KALYAN GHOLVE , PRASAD PRABHAKAR NAKADI**

Pimpri Chinchwad College of Engineering, Pradhikaran Nigdi, Pune-411044, Maharashtra State.

ABSTRACT-

The present invention provides an automatic sugarcane plantation machine, which is capable of performing efficient sugarcane plantation by ploughing, digging furrows, discharging cut sugarcane pieces in furrows, soil covering, laying drip pipe and fertilizer distribution concurrently. The machine is capable of being customized to suit different sugarcane varieties by adjustment of the distance between furrows. The machine not only saves effort and time, but is also easy to operate. It helps in increasing overall productivity of sugarcane cultivation.

IPR APPLICATION / PATENT NO. – 201721023434



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Laxminagar, Ravet, Pune-412101 (Maharashtra)



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-369

ECONOMIC, EFFICIENT & EFFECTIVE SYSTEM FOR PRODUCTION OF BIO- DEGRADABLE PRODUCTS FROM AGRICULTURAL WASTE

**MR. RAHUL RAGHUNATH MANE, MS. SHUBHADA SANTOSH PADWAL
MR. PRANAV UDAY MULAY, MS. SHRUTI SHIVAJI PADALKAR
MRS. VARSHARANI YOGESH GAIKHE**

Pimpri Chinchwad College of Engineering, Pradhikaran Nigdi, Pune-411044, Maharashtra State.

ABSTRACT-

Thus a large population of the nation is indulged in agriculture. The heavy production also sees a large amount of waste generation, of around 350 million tonnes annually. This is traditionally burnt and only a fraction of this is used as fodder for the farm animals. Keenly observing the ill effects of burning agricultural residue (biomass) which causes increased air and land pollution and destruction of potential energy sources, converting biomass to useful products, becomes the need of the hour. Also recently, the government has issued a notification banning the manufacturing, usage, transportation distribution, wholesale and retail sale, storage and import of plastic. The ban also covers disposable products, made from plastic and thermocol (polystyrene), such as single-use disposable dishes, cups, plates, glasses, fork, bowl and container. Increase in suicide rate of farmers due to poor economic condition is another challenge India is facing. Seeing these issues, a solution has been found where a machinery is being developed to provide farmers with a low-cost machine to generate eco-friendly products instead of merely burning them. Encouraging them to adopt these, will also increase employment and revenues, thus promoting a sustainable growth- socially and financially.



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Laxminagar, Ravet, Pune-412101 (Maharashtra)



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-370

SMART FUEL THEFT PREVENTION DEVICE

**SHUBHAM RAMESH MOHITE ,PRATHAMESH PRASAD KULKARNI,KUNAL ANIL PATIL, NIKHIL
ATUL MOHKHEDKAR, SHUBHAM RAJENDRA PATIL, GAFFAR GULAB MOMIN**

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ABSTRACT-

This invention deals with providing convenience to all kinds of four wheeler users by terminating misleading while refueling the vehicle by displaying the exact amount of fuel entering into fuel tank while refueling. More importantly this system is simple in construction and solves the problem of misleading in effective manner. In conventional system exact amount of fuel entering in the fuel tank cannot be calculated and displayed.

In conventional system analog meter shows the level of fuel present in the tank, but there is no such system to show exact amount of fuel entering into the tank while refueling. This invention solves this problem efficiently by using combination of incremental encoder and Analog dial already present in the vehicle. The output of incremental encoder is given to Arduino/Microcontroller and with the help of Anduino/Microconttnner and incremental encoder the exact amount of fuel entering in the fuel tank is calculated and displayed on LCD screen of vehicle using Arduino/Microcontroller.

IPR APPLICATION / PATENT NO. – 201721032402



Pimpri Chinchwad Education Trust's
PIMPRI CHINCHWAD COLLEGE OF ENGINEERING AND RESEARCH
Laxminagar, Ravet, Pune-412101 (Maharashtra)



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-371

TO DESIGN AND MANUFACTURE AN ALTERNATIVE ARRANGEMENT TO THE BED OF CNC GAS PROFILE CUTTING MACHINE

**MR.CHANDRAKISHOR LAXMAN LADEKAR,MR. SUYOG RAJABHAU KADAM,MR. YOGESH,
ANDHARINATH MAHAJAN,MR. AMEYA SUMANT PARKHI, MR. SACHIN BASAVRAJ DUDHAGI**

Pimpri Chinchwad College of Engineering, Pradhikaran Nigdi, Pune-411044, Maharashtra State.

ABSTRACT-

Aim is to design and manufacture an alternative arrangement to the bed of CNC profile gas cutting machine, which is used to cut the profiles of plates. said Machine is facing problems like at high temperature material of plates on which profiles are placed are getting weird out, small as well as circular components are being unable to place on plates. residue of the material which are being cut resides at the bottom and creates problems during cleaning, consulting the best and optimum solution, to get rid off from problem of wearing, coating of high temperature wear resistance material is suggested, for placing of small as well as circular components over plate, distance between plates is reduced at the middle portion of bed. said problem of reducing residue of material residing at the bottom of plates. usage of Wiley with openings is preferred. said solutions over problems are taken in consideration while modification in the bed of machine is done.

IPR APPLICATION / PATENT NO. – 201721009032



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-372

AUTOMATED PANIPURI SERVING MACHINE

**DR. LAKADE SANJAY SHRIDHAR , MR. SHEVKAR PRANAV DILIP,
MR. DESHMUKH PARAG RAJIV MR. GADEWAR SARANG NITIN , MR. PATHAN WAJID RAJJAK**
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ABSTRACT-

Pani-puri is a common street snack in several regions of the Indian Subcontinent. In East India, it is known as Phuchhka while in North India, it is called Golgappa. It consists of a round, hollow puri, fried crisp and filled with a mixture of flavored liquid (pani), tamarind chutney, chaat masala, potato, onion and chickpeas. The traditional method of serving Pani-puris involves dipping the puris into the solution manually. This is time consuming and at the same time it is very unhygienic. Hence the purpose of this project is to automate the traditional process of serving Pani-puris in a hygienic, faster, effortless and cost effective way. This project of making Automated Pani-puri serving overcomes all above mentioned drawbacks. This project provides hygiene as it has no human interference. The project also supports "Swacha Bharat Abhiyan". As this project is automated, indirectly it supports "Smart City" concept, initiative taken by our Prime Minister.

IPR APPLICATION / PATENT NO. - 201721012744

CIPCIS 2019 : P-373

Library Automation using Computer Vision

Siddhi Sawant¹, Shweta Jagtap²
Pimpri Chinchwad College of Engineering, and Research, 411044, Maharashtra State.

ABSTRACT-

Efficient and accurate object detection has been an important topic in the advancement of computer vision systems. With the advent of deep learning techniques, the accuracy for object detection has increased drastically. The project aims to incorporate state-of-the-art technique for object detection with the goal of achieving library automation with high accuracy with a real-time performance. A major challenge in many of the object detection systems is the dependency on other computer vision techniques for helping the deep learning based approach, which leads to slow and non-optimal performance. In this project, we use a completely deep learning based approach to solve the problem of object detection in an end-to-end fashion and as a result we are able to automate the library using the following technique with the help of solid state relay. The network is trained on the most challenging publicly available dataset (COCO) which is been pre trained by Microsoft, on which a object detection challenge is conducted annually. The resulting system is fast and accurate, thus aiding those applications which require object detection.



CIPICIS 2019 : P-374

A RASPBERRY PI BASED SMART GADGET FOR WOMEN SAFETY USING IOT

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²students Department of E&TC Engg.,PCCOER, Ravet, India

ABSTRACT-

Every day, every woman, young girls, mothers and women from all walks of life are struggling to be safe and protect themselves from the roving gaze of the horribly insensitive men who molest, assault and violate the dignity of women on a daily basis. The streets, public transport, public places in particular have become the dominion of the hunters. Due to these atrocities that women are subjected to in the present scenario, a smart security wearable device for women based on Internet of Things is proposed. It is implemented in the form of a smart device and comprises of Raspberry Pi Zero, Raspberry Pi camera, buzzer and button to activate the services. This device is extremely portable and can be activated by the victim on being assaulted just by the click of a button that will fetch her current location and also capture the image of the attacker via Raspberry Pi camera.

CIPICIS 2019 : P-375

ATM SECURITY SYSTEM USING IRIS RECOGNITION BY IMAGE PROCESSING

Dipali Dhake¹,Pratiksha Shetiya²,Meryl Mascarenhas³,Mrunal Deshmukh⁴

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²students Department of E&TC Engg.,PCCOER, Ravet, India

ABSTRACT-

Iris recognition system has proven its capability in implementing reliable biometric security protocols in various high risk sectors like aviation, border, patrol and defence. The banking and financial sector has to adopt this system because of its robustness and the advantages it provides in cutting costs and making processes more streamlined. A complete iris recognition system can be split into four stages: Image acquisition and image pre-processing, segmentation, normalization, feature extraction and matching and if the iris is matched with the database then the user has access to the account or else user request is denied.



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-376

Automatic Waste Segregator and Monitoring System

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ABSTRACT-

When trash is thrown onto the surface of the waste segregator and monitoring system, it gets detected and differentiated according to the categories which are set in these system. If the waste contains moisture content, the moisture sensor will sense it and the stepper motor rotates either at 0° or 360° which rotates the bin. Another stepper motor opens the flap of the bin by rotating the stepper motor by 180° . After a delay of 5 seconds, the flap will shut automatically. If the waste contains metallic content, the inductive proximity sensor will sense it and the stepper motor rotates either at 90° which rotates the bin. The flap will open and close as mentioned above. The waste is sensed by the capacitive proximity sensor. It will send a command to the Raspberry Pi and the camera will click a picture. If the picture detects a bottle, the stepper motor is rotated at 180° , and the bottle is thrown into the bin. If the bottle is not detected, any other waste detected by the sensor will get thrown into a bin which is opened by rotating the stepper motor at an angle of 270° . When the bins are full, the message will be sent to the registered phone number and e-mail ID on the Think Speak platform. This platform is used for the monitoring the waste segregator bins so that human intervention is minimized.



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-377

SMART TRAFFIC CONTROL USING DIGITAL IMAGE PROCESSING

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ABSTRACT-

Initially, we turn on the power supply to turn on ATMEGA32 (102). ATMEGA32 is used to control the further operations (104). Upon receiving the signal from ATMEGA32, the relay driver will turn on the camera driver motor and the camera (106). Camera driver motor is used to move the camera to the proper position (108). The camera will capture an image and send it to the computer (110). Computer then processes the captured image using MATLAB and displays the processed results with its analysis on the console (112). To transmit processed signal to the controller we use MAX232 (114). ATMEGA32 finds the correct output i.e. time for which traffic signals will turn on using this output from computer. Again, relay driver circuit is used to send a signal from ATMEGA32 to LEDs (116). LEDs turn on for specified amount of time given by ATMEGA32 (118). LCD is used to display time for which traffic signal will on (120).



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

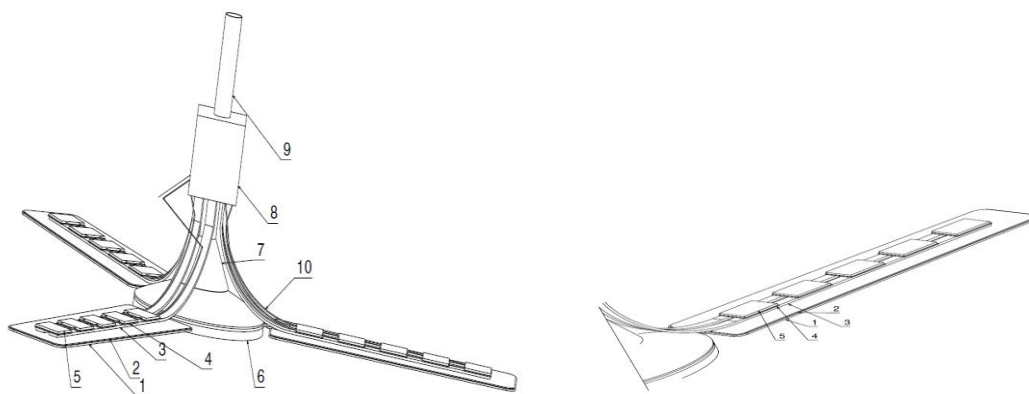
CIPCIS 2019 : P-378

Thermal Comfort Enhancement of Ceiling Fan (Cooling Mode) integrated with Peltier Cooler, Heat Pipe, Phase Change Material and Adsorbent (Air conditioned Ceiling Fan)

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ABSTRACT-

This invention relates to the thermal comfort enhancement of ceiling fan (cooling mode) integrated with Peltier Cooler, Heat Pipe and Phase Change Material. Assembly of the peltier cooler and heat pipe is mounted on the ceiling fan blades and supplied with the electrical energy. Cooling effect produced by peltier cooler is imparted to the air coming in contact with the ceiling fan blades and heat dissipated by peltier cooler is transferred to the phase change material stored in the roof mounted energy storage container via heat pipe. The device invented can be incorporated in the household and industrial ceiling fans to enhance the thermal comfort obtained. Device is cost effective and gives instant cooling effect. All industries which are involved in manufacturing of the household and industrial ceiling fans can use this assembly without any modifications in their designs to enhance the thermal comfort.



1.Ceiling fan blades,2.Thermal Insulation ,3.Flat Heat pipe,4.Copper plate,5.Thermoelectric Cooler (Peltier Cooler),6.Ceiling Fan Hub ,7.Ceiling Fan Motor,8.Phase Change Material Container ,9.Hanging Rod ,10.Electric Supply Wires

IPR APPLICATION / PATENT NO. – 201821039146



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-379

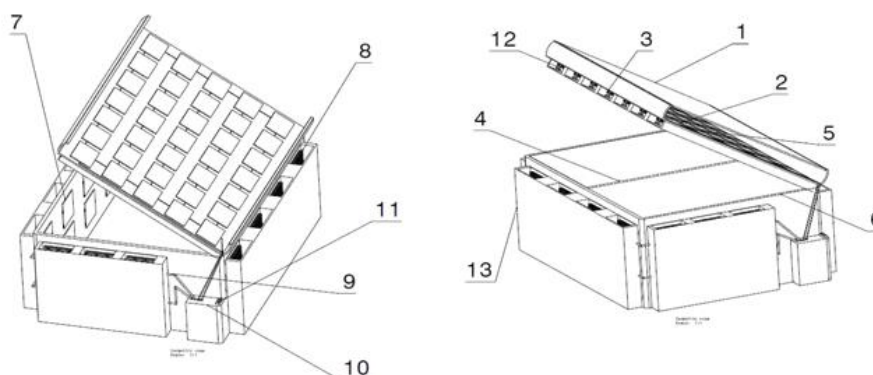
Burning Feet Sole Cooler

Tamboli Ayub Alamso, Shaikh Tausif Mohmesdharif, Kamble Dnyaneshwar Parasappa, Joshi Sanket Shripad, Kule Ajinkya Rajaram, Shaikh Siddik Mahmdsalim

Zeal College of Engineering & Research, Sr.No.39, Narhe, Pune -411041

ABSTRACT-

The present invention relates to solar powered ice box integrated with thermoelectric generator and cooler. The invented device works on solar energy and does not require any additional power source in any form. The device generates the electric power by using solar energy as heat source through thermoelectric generator. The electric energy stored can be further supplied to the thermoelectric cooler and cooling effect can be generated. The device is portable in nature and can be mounted directly on the bicycle, tricycle, trolley and cart. The invented solar powered ice box can be used for the ice box cargo bicycles or tricycles, ice cream trucks, refrigerated cargo tricycle, ice cream cart, Ice Cream Rickshaw. The invented system can be used in ice cream cart manufacturing industry.



IPR APPLICATION / PATENT NO. – 201821035732



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-380

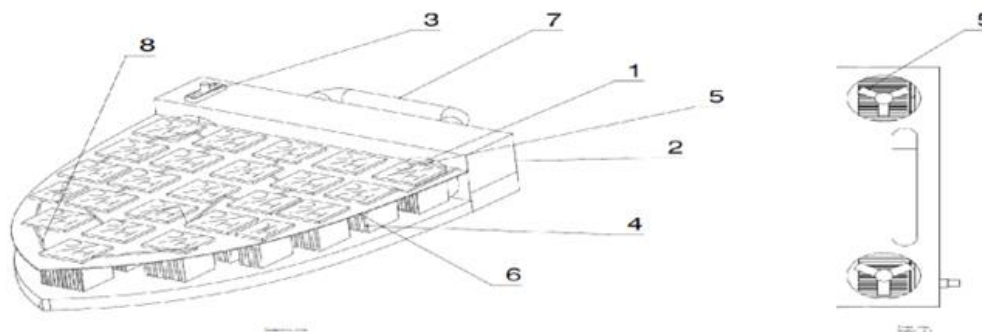
Clothing Iron Sole Cooler Cum Safety Kit

Tamboli Ayub Alamso, Shaikh Tausif Mohmesdharif, Kamble Dnyaneshwar Parasappa, 4Joshi Sanket Shripad, Kule Ajinkya Rajaram, Fartode LalitRamesh, Contractor Mustanseeer Shabbir

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ABSTRACT-

The present invention relates to self-powered safety kit for clothing iron which gives fast cooling of iron sole and reduces accidental injury with effective utilization of unused heat. Temperature difference between sole of the clothing iron and is in the horizontal position and after a longer period if the iron is vertical. A variety of arrangements are proposed, including some that sense movement of the iron and others that respond to a user's grasp. The invented clothing iron sole cooler cum safety kit overcomes the limitations of the existing technologies/methods and devices developed by previous inventors. The safety kit consists of the thermoelectric generators and peltier coolers which simultaneously gives power generation and cooling effect. Developed safety kit cools the sole of clothing iron in short time irrespective of the positions of the sole of clothing iron. Safety kit makes use of unutilized accumulated heat for the purpose of fast cooling of sole. Excess power generated can be further utilized for day to day applications.



IPR APPLICATION / PATENT NO. – 201821036606



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-381

CFM -CONSTRUCTION INDUSTRY: MANAGERIAL COMPETENCIES OF FEMALE AND MALE MANAGERS IN CONSTRUCTION INDUSTRY

Smita Pataskar, Deepika Wagh, Avadhut Kullarni, Ahinsak Taksande, Sudhanshu Pathak

ABSTRACT-

In This invention “CFM -Construction Industry “is to totally depend of the construction industry is one of the most male dominated industries around the world, not only when it comes to workers, but also as regards managers. Only 15% of the managers in the India construction industry are women. The managerial competencies of individuals working as managers in the India construction industry are researched to get a clearer understanding of the situation, and to investigate if this Lack of balance between male and female managers has to do with differences in managerial competence. The management development questionnaire provided by Human Resource Development Press was sent to 145 managers in the India construction industry and 112 respondents (45 women and 61 men) assessed themselves in 21 competencies, resulting in a response rate of 79%. The Mann-Whitney U test showed that female and male managers possess equal managerial competencies in 17 of the 21 competencies. Male managers rated themselves as having better managerial competency than females in two of the 21 competencies, namely ‘resilience’ and ‘decision making’. The Invention “CFM -Construction Industry “ Female managers rated themselves as having better managerial competency than males in ‘sensitivity’, which follows the social norm of what is expected of a woman. It was also found that both groups scored high in decision making, reflecting traditional virtues of construction managers as decisive and active. The most important result is not the differences but the many Similarities between women and men working as managers in the construction industry. Thus, it is concluded that female managers are as competent as male managers in the India construction industry.

IPR APPLICATION / PATENT NO. – 201921028800



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-382

P-PARKING SPACE: PREDICTION OF PARKING SPACE NEAR BY YOUR VEHICLE

Smita Pataskar, Sayali Dharne, Akash Charbhe, Ashwini Nangre, Ashwini Patil

ABSTRACT-

This invention “P-Parking Space” is method logical framework for multiple steps ahead parking availability prediction is presented Two different types of predictions are provided:1.The probability a free space to continue being free in subsequent time intervals.2.The instant parking occupancy prediction in selected regions of an urban road network. The available data come from a global network of on-street parking sensors in the “Intelligent” Pune, India. The sensor network is segmented in four different regions and, then, survival and neural network models are developed for each region separately. Findings show that the Way bill parametric models best describe the probability of a parking space to continue to be free in the forthcoming time intervals. Moreover, simple genetically optimized Multilayer Perceptions’ accurately predict region parking occupancy rates up to 25minutes in the future by exploiting 50 Second data. Finally, the real time, web based, implementation of the proposed parking prediction availability system is pres.Also asystem includes a model generating component to generate a prediction tree model based on training data and an input component to receive input data including a destination in a geographical area. A computation component identifies at least one parking venue or at least one parking space near the destination in the geographical area and to generate at least one parking prediction corresponding to the at least one parking venue or the at least one parking space based at least in part on applying the input data to the prediction tree model. A presentation component presents the at least one parking venue or the at least one parking space and to present the at least one parking prediction to a user.

IPR APPLICATION / PATENT NO. – 201921030922



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

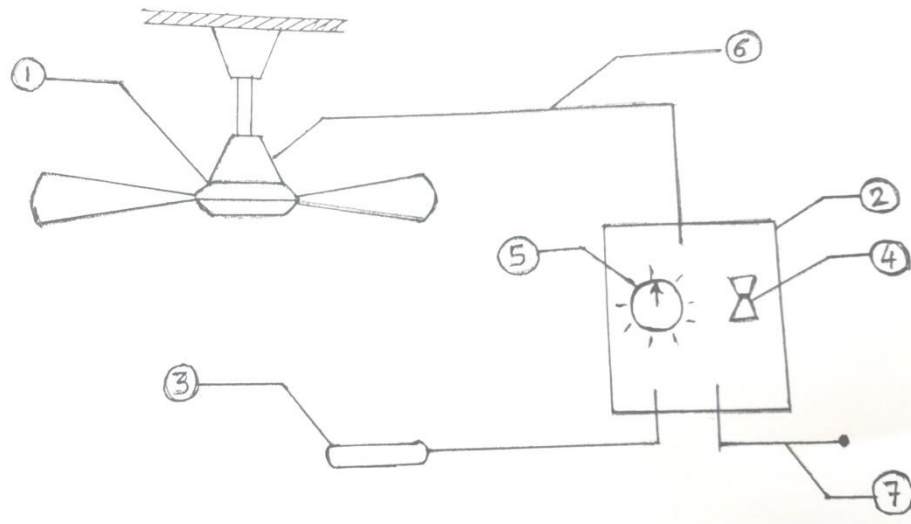
CIPCIS 2019 : P-383

A SYSTEM FOR AUTOMATIC FAN SPEED CONTROL IN ACCORDANCE WITH ROOM TEMPERATURE

Rajashree Nilesh Darwatkar
Head Clerk, PCCOER, Ravet

ABSTRACT-

A system for automatic fan speed control in accordance with room temperature is inventing to provide the comfortable or required Fan speed in room automatically. The system will help to avoid human interference to control Fan speed. This invention is especially helpful while sleeping time, because it will avoid unnecessary disturbance in sleep due to Fan speed.





CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-384

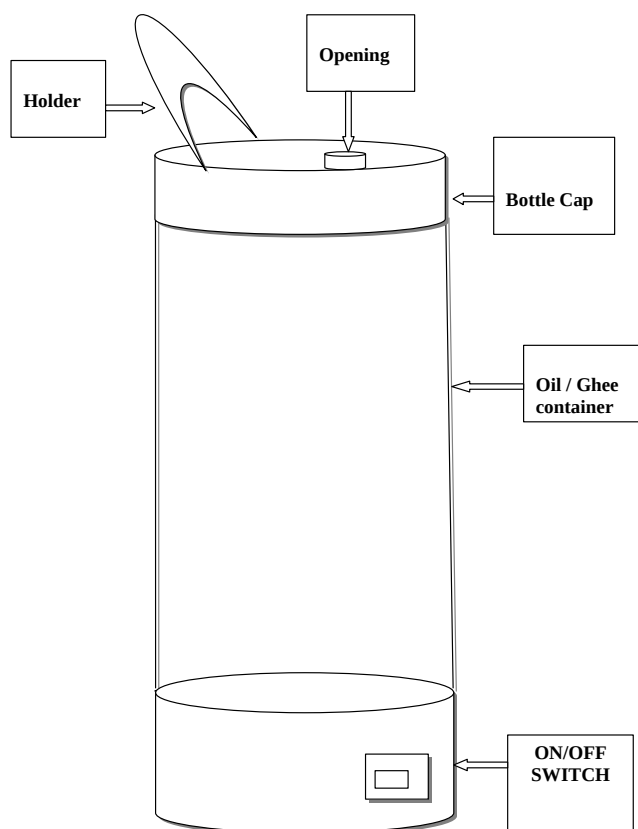
PURE COCONUT OIL PRESERVATION IN WINTER SEASON

Bhagyashree Gawali

Lab Assistant, E&TC Dept., PCCOER, Ravet

ABSTRACT-

There are various options to preserve the coconut oil but it's pure form changes to solid state in winter season usually at present to convert it into liquid state either it is kept in hot water or heat is provided for the same. Instead of going for these options a provision is made in the bottle itself so that the oil liquid state.





CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-385

Secured ATM System

Prof.Arti Tekade, Swamini Lohkare, Rupali Patil, Prajakta Patil
Assistant Proessor, E&TC Dept., PCCOER, Ravet

ABSTRACT-

This project is concerned with Security of ATM for theft Control. Automated Teller Machines (ATMs) security is the field of study that aims at solutions that provide multiple points of protection against physical and electronic theft from ATMs and protecting their installations. Surveillance system which is a smart system based on embedded technology and image Processing that incorporates various sensors and algorithms to continuously monitor its surroundings for suspicious activities like physical attack, fraud and theft that might jeopardize the ATM and people nearby. Also discussed is the security and safety measures that can be implemented to prevent such raids by proper surveillance. Also, at the entry system by image processing algorithm is proposed to enhance the security of the System.

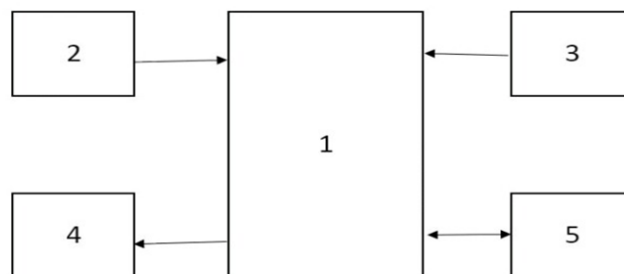


Figure 100

1 : Raspberry Pi, 2 :Pi Camera , 3 : Sensors , 4 : Servo Motor,5:GSM SIM 900



CIPCIS 2019 : P-386

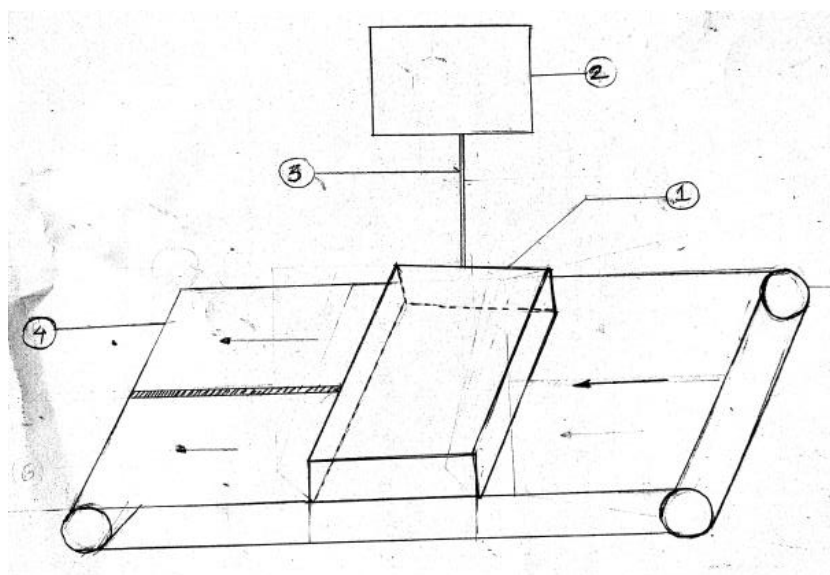
Fault Detection of Industrial Pipes using image processing

Snehal Atul Aher-Gholap, Asmita Desai

Lab Assistant, E&TC Dept., PCCOER, Ravet

ABSTRACT-

This innovation is based on automation in quality check procedure in industrial pipe manufacturing unit. It aims to reduce the duration required to evaluate the final product for any defects/faults and separate it from the finished and finalized product. It has multifold benefit to the manufacturing unit that includes reduction in the duration of quality check of the final product, increased accuracy and reduction of human intervention and resources in quality check process thus increasing the overall productivity of the manufacturing unit.





CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-387

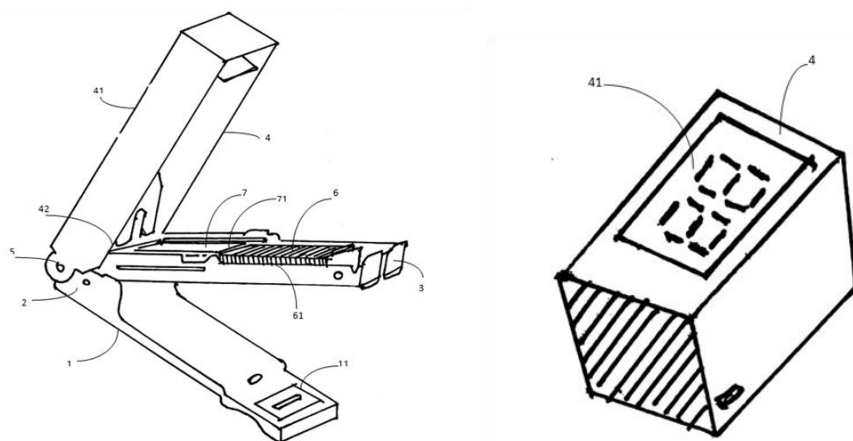
A SMART DIGITAL STAPLER

Madhav Tukaram Sarode, Rahul Ganpat Mapari

Bhondawe Orchid, Flat No. 501, B - Wing, Near Ravet Chawk BRT Stop, Ravet, Pune – 412101, Maharashtra, India

ABSTRACT-

A cover case includes digital display to show the count of staple pins left over inside the stapler without opening it. The controller is used to take the sensor signal as an input and take the action to display the pin count on digital display. The sensor is placed closed to the staples to sense the displacement of staple pins in a margin.



IPR APPLICATION / PATENT NO. – 201821002806



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-388

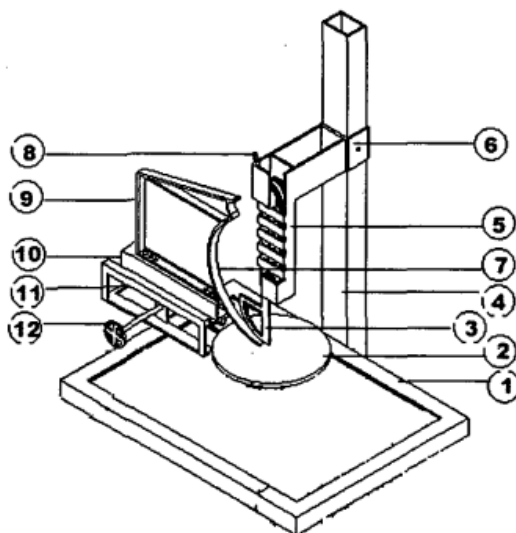
PROFILE AND TOOLS USE FOR THE POTTERY PRODUCTION

**NANDKISHOR MAROTRAO SAWAI ,HARISH UMASHANKAR TIWARI, VITTHAL
GULBRAO ARAJPURE, CHANDRAHAS CHANDRASHEKHAR HANDA**

Bajaj Nagar, Nagpur – 440010, Maharashtra, India

ABSTRACT-

Pottery is our earliest handicraft in prehistoric times; most of the clay was shaped on the wheel. In this paper, review existing throwing profile on the potter's wheel which is technological innovation, in this technological innovation, by the new idea, modification for throwing profile process gauges or tool used on the potter's wheel for the shaping of clay, the throwing profile process gauges or tools used on the potter's wheel for the shaping of clay or earthen ware, push clay down, with the heel of your left hand, push the left side of clay and with side of your right hand press down on the top of it, pull fingers of right hand outward, for cylinder; keep floor flat, for bowl; let fingers curve up wall to establish curve, during throwing profile, the surface of the clay body becomes smeared so that agate patterning is obscured, the prepared clay ball is then centred on the wheel, once centred, the clay ball is opened and pulled quickly into a cylinder, during throwing, and the surface of the clay body becomes smeared so that agate patterning is obscured, this throwing process used hands, left and right, the study specifies factors influencing the throwing process and recommends of tool replace by hands, these are based on a systematic analysis of the throwing process and testing of a prototype throwing process consisting of standard tools, for which we consider literatures reviews & some of them are explained.



IPR APPLICATION / PATENT NO. – 201821012915



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

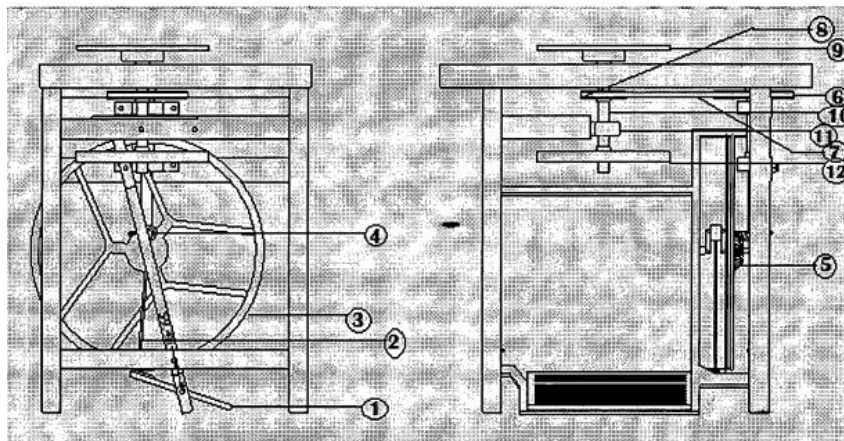
CIPCIS 2019 : P-389

HUMAN POWERED PEDAL MECHANISM FOR POTTER'S WHEEL

**NANDKISHOR MAROTRAO SAWAI ,HARISH UMASHANKAR TIWARI, VITTHAL
GULBRAO ARAJPURE, CHANDRAHAS CHANDRASHEKHAR HANDA**
Bajaj Nagar, Nagpur – 440010, Maharashtra, India

ABSTRACT-

The conventional potter's wheel mechanism is totally manual and ergonomically poor in design and efficiency. Conventional method creates lot of medical issues, so this design provides comfortable sitting arrangement for potter at the time of work, human powered pedal mechanism for potter wheel, the proposed mechanism is not only ergonomically better but also potter wheel mechanism in chair sitting posture and has a flywheel mechanism for rotating the potter's wheel, the pedal mechanism is used for giving the input motion which is converted into rotary motion of the potter's wheel using bevel gears, freewheel mechanism is also used, pedal power transfers the energy from human source through the use of a foot pedal and crank system, the machine consists of a human powered flywheel using a chain-drive mechanism, a pedal operating drive converts vertical rotation into horizontal rotation by using bevel gear, in this machine gearing is used to maintain the speed of potter wheel at the time of making of an earthen pot.



IPR APPLICATION / PATENT NO. – 201821012923



CIPCIS 2019 : P-390

A Program Based Starting System For Two Wheeler's

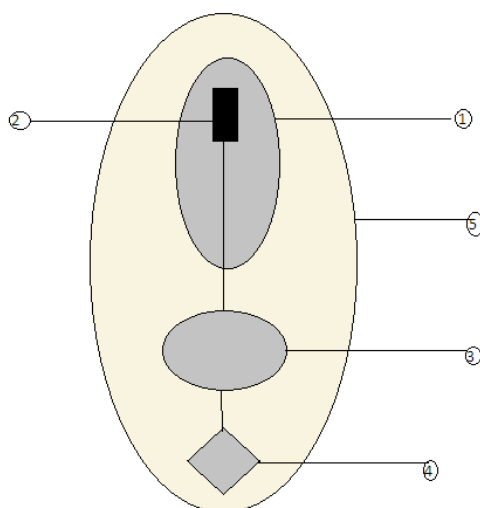
Nangare Ganesh Raman, Mane Amol Balbhim, Bhosale Sachin Bajirao

A/P: Ghodagaon, Tal.- Ambegaon, Bhimashankar - Manchar Road, Pune – 412408, Maharashtra, India.

ABSTRACT-

As per our mentioned field of invention /objectives of the invention here we provide /design a system when driver took position of his/her seat of the vehicle, the weight/load act on the sensor/s/switch can measure the weight of the driver. When measured weight of his/her is as per the program /design set by specific reference values .The measured values started the vehicle (set values and measured values matched) else vehicle is not started.

DIAGRAM / SCHEMATIC –



1 : Bike Seat, 2 : Load Sensor, 3 : programmable system / data interfacing system/Data mining process,
4 : starting system of two wheeler's, 5 : Bike Body

IPR Application / Patent No. –



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-391

Customer Side Fuel Dispensed Measurement and Display System on Vehicle

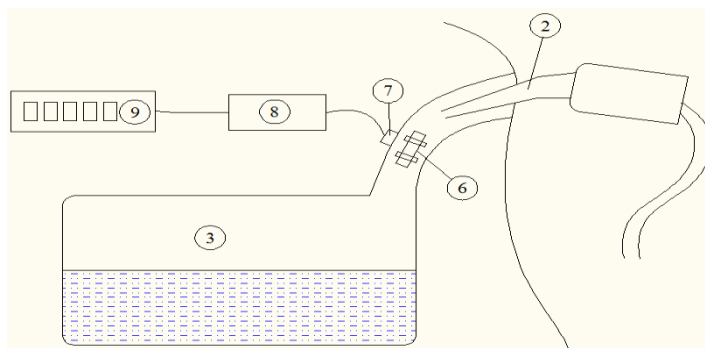
Rahul Krishnaji Bawane, Nandkumar S. Vele, Ganesh M. Fodase

Asst. Professor, Department of Mechanical Engg., PCCOER, Pune – 412101, Maharashtra, India. (8806668536)

ABSTRACT-

A fluid flow System and method according to which fluid is pumped from a source through a conduit and a sensor senses and system calculate the amount of fuel dispensed and corresponding cost for payment, the customer relies on the fuel dispenser to measure the amount of fuel dispensed accurately and charge the customer accordingly, to measure any short filling of fuel dispense, in present invention a separate fuel flow measurement system is incorporated in fuel tank which measures and display the quantity of fuel entered into the tank, so that customer can cross verify for the amount of fuel shown on fuel pump and actual amount fuel filled into the fuel tank.

DIAGRAM / SCHEMATIC –



1 : Display On Pump, 2 : Dispenser Nozzle, 3 : Fuel Tank, 4 : Vehicle, 5 : Fuel Pump,
6 : Turbine Flow Meter, 7 : Counter, 8 : ECU, 9 : Display On Dashboard

IPR Application / Patent No. – 201721026859



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-392

An Anti-Water Splashes System For Bike And The Like

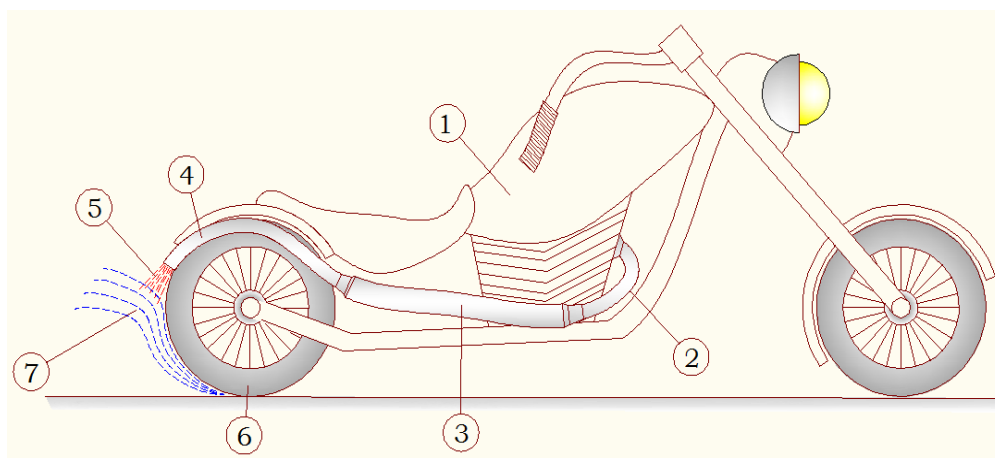
Yash Chandrakant Bari

Flat No. 302, Shivmugdha Society, Vinayaknagar, Borhadewadi, Moshi, Pune – 412105, Maharashtra, India

ABSTRACT-

This invention, an anti-water splashes system for bike and the like, the waste exhaust coming out from vehicle engine are utilized to divert water splashes striking on riders back which will eliminated drivers back getting dirty, also the water splashes mixing with exhaust gas reduces its temperature so that thermal emission to atmosphere will be reduced as well as solid carbon particles get wetted and these heavy partials drop down rather than contaminating air by entering into atmosphere.

DIAGRAM / SCHEMATIC –



1 : Bike, 2 : Exhaust Pipe, 3 : Silencer, 4 : Tail Pipe, 5 : Exhaust Gases,
6 : Wheel, 7 : Water Splashes.



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-393

Dust Collector for Hand and Bench Grinder

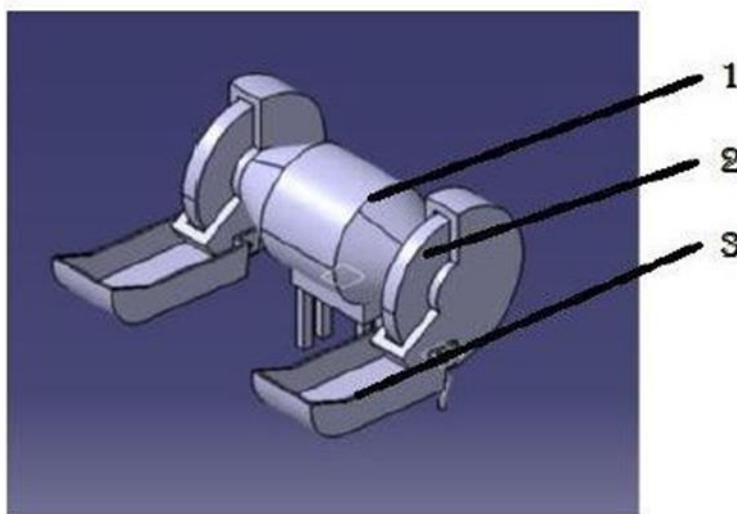
**Mr. Rohan Petkar, Mr. Sanjivan Bhoite, Mr. Aditya Belekar, Mr. Balaji Karanjkar
Mr. Onkar Patmas**

Inventor, Maharashtra, India, rohanupetkar@gmail.com, +91 94212 99000

ABSTRACT-

Grinding is one of the widely used finishing processes in the industry. Usually the grinded particles are small in size and thus are not collected. After a considerable amount of time these particles saturate on the ground hampering the cleanliness of the shop -floor. Moreover, as these particles are very small, these can get suspended in the air and if inhaled lead to respiratory diseases for those who are working. Along with this the dust particles can get embedded into body of the worker leading to skin diseases. Hence a proper dust collection needs to be designed and manufactured. With this intention an effort has been made to come up with dust collection system for portable hand grinder and bench grinder. Main aim of the project is to produce a system which can collect dust produced during grinding and separation of different materials dust. Also, abrasive particles those are trapped during dust collection can be recycled and reused.

DIAGRAM / SCHEMATIC –



1 : Bench Grinder, 2 : Grinding wheel, 3 : Dust collector mounted on bench grinder.

IPR Application / CBR No. – 12301



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-394

Fuel Economy Prediction of Auto Mobiles

Mr. Rohan Petkar, Mr. Ganesh Lohar, Mr. Swapnil More, Mr. Onkar Patmas

Inventor, Maharashtra, India, rohanupetkar@gmail.com, +91 94212 99000

ABSTRACT-

Saving fuel is the need of the hour. With this motto we have come up with a display device which will show the rpm at which the vehicle should be driven so that we will get maximum fuel economy (kmpl). The device uses strain gauges from where input is passed on to the microcontroller. The input is processed and the output is passed to the display. Load is the main factor in this issue. As the load increases it reduces the maximum possible economy and also the rpm at which we are able to achieve this economy. The other factors which have a minor effect on the fuel economy are engine condition, effect of air conditioners and electrical appliances, Condition of air filters, quality of fuel and the air pressure inside the tyres. These have a cumulative effect of reduction in economy by 10-25%. We perform an experiment prior to the programming of the microcontroller. In this test we find the maximum economy that can be achieved and the rpm at which it is achieved for a constant load. The test is repeated for different loads. The accuracy is dependent on the difference in the two loads that are taken. After finishing the test, the result table is drawn in which we substitute the values of loads and their corresponding values of maximum economy and the rpm at which we get it. This table is then programmed in the microcontroller with the help of if-else loop. When the load input is received the microcontroller compares it and gives the output of the two loads that are very close to the input value (the one which is higher and other that is smaller). Example: if the reference loads from the test are 1 and 2 kg and the input load is 1.5 kg, the microcontroller will display the readings of both 1 and 2 kg. This output is then given to the LCD display i.e. output. The LCD display shows the load that is acting on the vehicle, the two reference loads that closest to the input load and their respective maximum possible economy and the rpm at which it should be driven in order to get the maximum economy.



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-395

Hand Orthosis for finger movement improvement

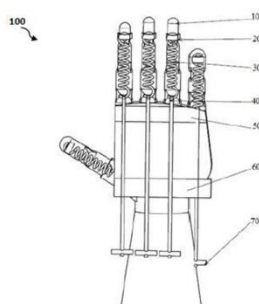
Mr. Rohan Petkar, Mrs. Snehal Joshi, Ms. Anagha Chandrashekhar, Mr. Onkar Patmas

Inventor, Maharashtra, India, rohanupetkar@gmail.com, +91 94212 99000

ABSTRACT-

The present invention generally relates to a wearable hand orthosis, more particularly it relates to the orthosis for improving hand function in an unilateral spastic hand. Spasticity is a motor disorder characterized by muscle hyperactivity, which produces involuntary contraction of the involved muscles. People suffering from 10 neurological injuries experience spasticity and unusual tightening of the muscles in and around the hand, usually on the weaker side of the body. Left untreated, spasticity can cause a patient's joints and muscles to become so tight that it is impossible to move them, which leads to contracture. But by employing the correct medical treatments, therapists can help prevent contracture in their 15 patients. US patent US20030162634A1 describes a dynamic resting hand splint for the positioning and functional exercise of a neurologically impaired upper extremity, including the wrist, hand and fingers, made up of a forearm support and hand support linked by a first connector. The invention is especially useful for 20 returning the fingers and thumb to an open or extended position after a grasping motion. The hand orthosis available in the market are too expensive and not easily operable by a person with spastic hand. An adjustable orthotic device is disclosed in US5472410A for promoting joint mobility. The device is adjustable both in terms of the force applied to the joint and terms of the direction that the force is 25 applied to the joint. Another US patent US4765320 discloses a low profile splint to support an injured hand and allow movement of the fingers and assist extension of the fingers to overcome stiffness and immobility in the hand. None of the prior art document provides an economic, easy to operate and effective hand orthosis for enhancing pincer grips by allowing controlled movement of individual fingers. Hence, there is a need to provide a device / orthosis that will enhance the hand 5 functioning using simple and cost effective materials.

DIAGRAM / SCHEMATIC –



IPR Application / Patent No. – 201921000506



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-396

MULTIPLE BOLT DRIVER MACHINE FOR DIFFERENT TYPES OF WHEELS HAVING DIFFERENT BOLTS/LUGS ARRANGEMENT

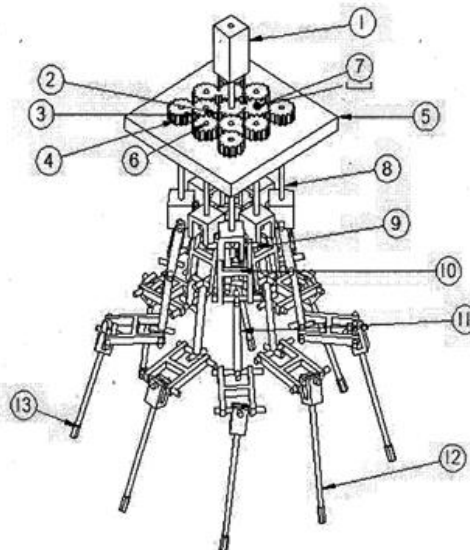
Sandesh Dnyaneshwar Kshirsagar

Mechanical design engineer (TATA TECHNOLOGIES LTD), sandeshkshirsagar1997@gmail.com (+91-7741004179)

ABSTRACT-

This invention is used for assembling and dismantling of different types of nuts/bolts/lugs of different wheel arrangements having different pitch circle diameters. This invention is useful for wheels having bolts arrangement of (3bolts, 4bolts, 6bolts and 8bolts). This invention uses a gear train which is drive by a bidirectional motor (1) as shown. A gear (2) rotates the gear train due to which output shaft attached to the output gear rotates by means of an idle gear (3) as same direction of bidirectional motor (1) output shaft carries distance adjusting mechanism which can be adjustable in required dimensions. At end adjustable bolt wrench socket (13) removes the wheel bolt/nut/lugs.

DIAGRAM / SCHEMATIC –



IPR Application / Patent No. – 201721040737



Pimpri Chinchwad Education Trust's
PIMPRI CHINCHWAD COLLEGE OF ENGINEERING AND RESEARCH
Laxminagar, Ravet, Pune-412101 (Maharashtra)



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-397

Synchronization of Auto Air-Conditioner with Power Windows of Auto Mobiles

Mr. Rohan Petkar, Mr. Ganesh Lohar , Mr. Swapnil More, Mr. Vaibhav Warule

Inventor, Maharashtra, India, rohanupetkar@gmail.com, +91 94212 99000

ABSTRACT-

We have made an attempt to connect the input of Auto Air Conditioner to the power window of the Automobile. This will ensure that when we press the AC button on the Dashboard the windows will get closed automatically as the air conditioner starts to operate. This will help us to save the power that is wasted because of negligence that is offered by the passengers and it also reduces efforts required to close the window while driving. Keeping the windows open during the use of AC will result in more consumption of power as we increase the volume of the region that is to be cooled. This will also reduce human effort which is required to close power window before starting Auto air conditioner. Whereas in existing system control of window and air conditioner switch work separately. So driver requires controlling both, separately and some time and energy is lost in the same.



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-398

DYNAMIC SCALE

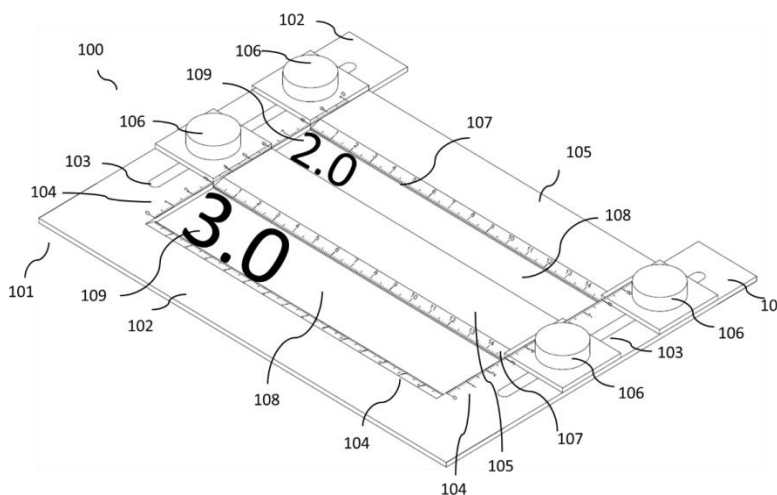
Yash Agarwal¹, Prem Upadhyay²

^{1,2}Students, Department of Civil Engg., Indira College of Engineering & Management, Pune, India

ABSTRACT-

In accordance with an embodiment of the present disclosure, an equipment (100) is configured to draw an at least one shape (109). The equipment (100) comprises of a frame (101) configured to provide a structure to the equipment (100). The equipment (100) has an at least one rib (105), placed within the frame (101). The at least one rib (105) is configured to provide an at least one space (108) of an at least one dimension. The at least one space (108) of different dimension is provided by adjusting the at least one rib (105) by moving the at least one rib (105) along an at least one slot (103) on the frame (101) to configure the at least one space (108).

DIAGRAM / SCHEMATIC –





CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019 : P-399

STATIC SCALE

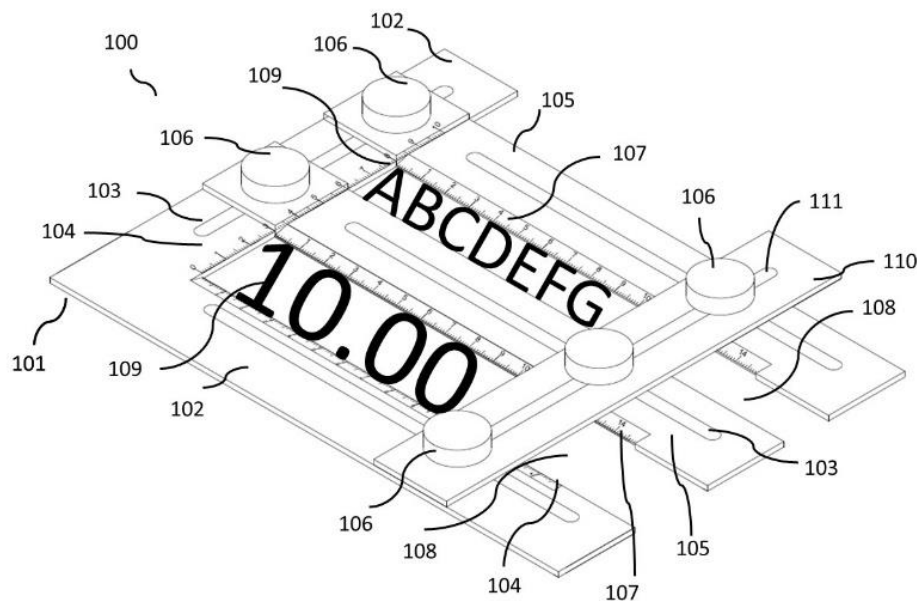
Yash Agarwal¹, Prem Upadhyay²

^{1,2}Students, Department of Civil Engg., Indra College of Engineering & Management, Pune, India

ABSTRACT-

In accordance with an embodiment of the present disclosure, an equipment (100) is configured to draw an at least one shape (109). The equipment comprises of a frame (101) which is configured to provide a structure to the equipment. The equipment further comprises at least one rib (105), placed within the frame and is configured to provide an at least one space (108) of an at least one dimension. The equipment further comprises, of at least one another rib (110), movably mounted on the at least one rib (105). The at least one rib is adjusted by moving the at least one rib, along any one of an at least one slot (103) on the fixed frame, an at least one another slot on the at least one another rib and a combination thereof to configure the at least one space. The at least one another rib is adjusted by moving the at least one another rib along an at least one another slot on the at least one rib.

DIAGRAM / SCHEMATIC –





CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-400

STATIC SCALE

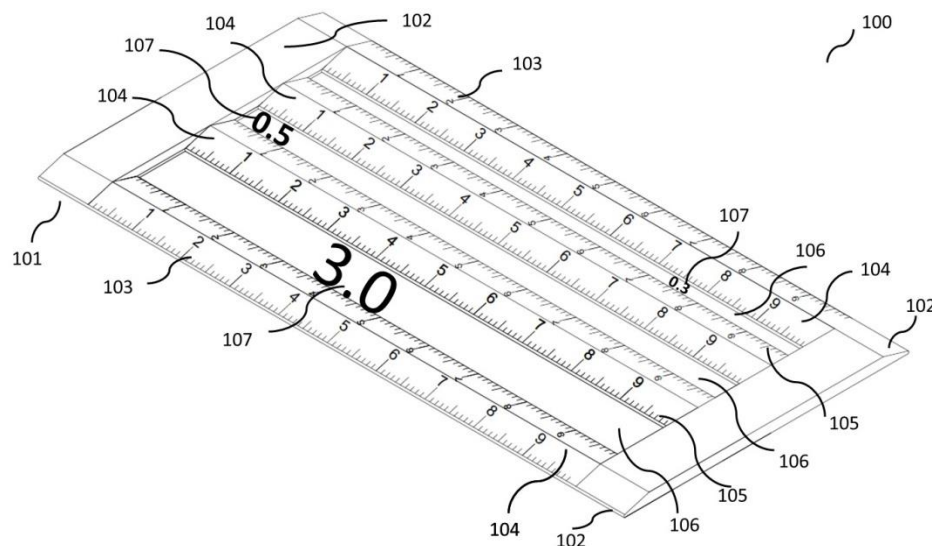
Yash Agarwal¹, Prem Upadhyay²

^{1,2}Students, Department of Civil Engg., Indra College of Engineering & Management, Pune, India

ABSTRACT-

In accordance with an embodiment of the present disclosure, an equipment (100) is configured to draw an at least one shape (107). The equipment (100) comprises of a frame (101) configured to provide a structure to the equipment (100). The equipment (100) has a plurality of ribs (104), placed within the frame (101). The plurality of ribs (104) is configured to provide an at least one space (106) of at least one dimension and more preferably a standard dimension. The at least one space (106) of different dimension is provided by having the plurality of ribs (104) and wherein the plurality of ribs (104) may have different dimensions.

DIAGRAM / SCHEMATIC –





CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019: P-401

Non-Invasive KNEE Loading Measurement Using IOT

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²Asst. Prof. Department of Electronic and Tele-Communication Engg., DYPSOE, Lohegaon-Pune, (MS) India, bnishikant@gmail.com, 9689907455

³Students, Department of Electronic and Tele-Communication Engg., DYPSOE, Lohegaon-Pune, (MS) India

ABSTRACT-

As per the World Health Organization (WHO) report 90% of people have a problem of knee pain. This knee pain is a very painful it may leads a disability, so atmostcare will be taken well before the Occurrence of medical problem. Otherwise this may leads to serious knee diseases “Osteoarthritis”. Thus primary care is very much necessary to lead healthy life for people with obesity or old age. Over a last two decade many attempts are been made towards the development of state of art health care techniques to provide primary health care. Our attempt is to design a Non-invasive prototype device (NID), to measure knee loading for human activities viz, standing, walking, climbing, running etc. Furthermore, we will be exploring the measured data to monitor remotely using IOT. The proposed system uses different **flexi-force** sensing electronic devices to measure exact loading on Knee. Different user friendly switches and radio buttons are provided at patient end and remote end to monitor real time data by considering the weight, height and age parameters.

DIAGRAM/SCHEMATIC –

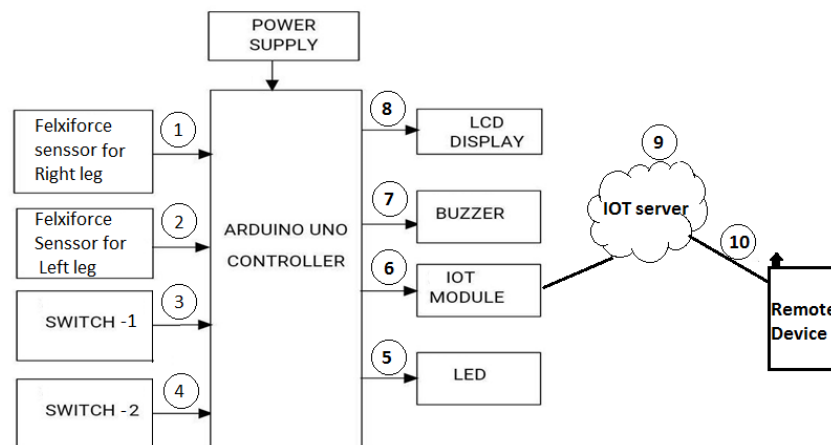


Figure-(a) Proposed Knee loading measurement system using IOT



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-402

Predicting The Risk Of Heart Attack

**Nishikant Surwade¹, Dr.Bahubali Shiragapur², Chintamani Vivek Gite³, Shraddha Sanjay Hekad⁴,
Sayujjata Milind Malavade⁵.**

¹Asst. Prof. Department of E&TC., DYPSOE, Lohegaon Pune, (MS) India, bnishikant@gmail.com, 9689907455

²Asst. Prof. Department of E&TC., DYPSOE, Lohegaon Pune, (MS) India, bahu2001@gmail.com 9890909194

³Students, Department of E&TC Engg., DYPSOE, Lohegaon Pune, (MS) India

ABSTRACT-

Heart disease is one of the most significant causes of mortality in the world today. Prediction of cardiovascular disease is a critical challenge in the area of clinical data analysis. Machine learning (ML) has been shown to be effective in assisting in making decisions and predictions from the large quantity of data produced by the healthcare industry. We have also seen ML techniques being used in recent developments in different areas. Various studies give only a glimpse into predicting heart disease with ML techniques. The health of subject can be monitored over some definite period of time. All the various parameters can be monitored. The proposed system will be used to predict, whether the subject is prone to the risk of Heart attack or not. This will help to take the preventive measures to avoid heart attack. The proposed system aims to find significant features by applying machine learning techniques resulting in improving the accuracy in the prediction of cardiovascular disease. This System predicts the arising possibilities of Heart Disease. The aim of this project is to predict whether the patient will have heart disease or not.

DIAGRAM/SCHEMATIC –

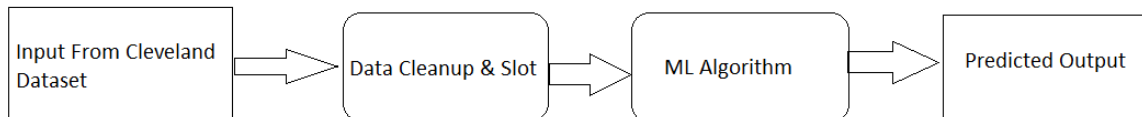


Fig a. Block Diagram of Prediction the Risk of Heart Attack.



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS2019 : P-403

Permanent Solution On Leakage Of Water From Plant Pots

Mayura Milind Yeole, Gajanan Namdeo Supe
Pimpri Chinchwad College of Engineering and Research, Ravet

ABSTRACT-

As the design suggested above, the percolated water from plant pot (1) can be diverted to the water absorbing porous end (2) which is kept at the base. Water absorbing porous material (2) used in the concept will absorb the water. As per shown in the design, three vertical surfaces (4) are kept open for free air circulation. Three vertical surfaces (4) and top inclined surface of water absorbing porous material can be coat with permanent dark black color (3). The dark black color is introduced to increase the rate of heat absorption of water absorbing porous material from the atmosphere. As the vertical surfaces of the water absorbing porous material are exposed to free air circulation, water absorbed by water absorbing porous material will get evaporate within a shorter time. This technique can also be used for existing plant pots of any shape or design.

DIAGRAM/SCHEMATIC –

FRONT VIEW OF PLANT POT

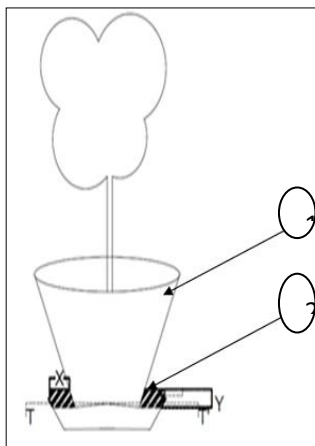


Figure 1

TOP VIEW OF PLANT POT AT SECTION T-T'

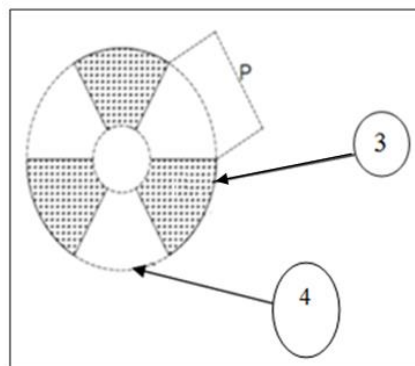


Figure 2

IPR Application / Patent No. -201721041379



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS2019 : P-404

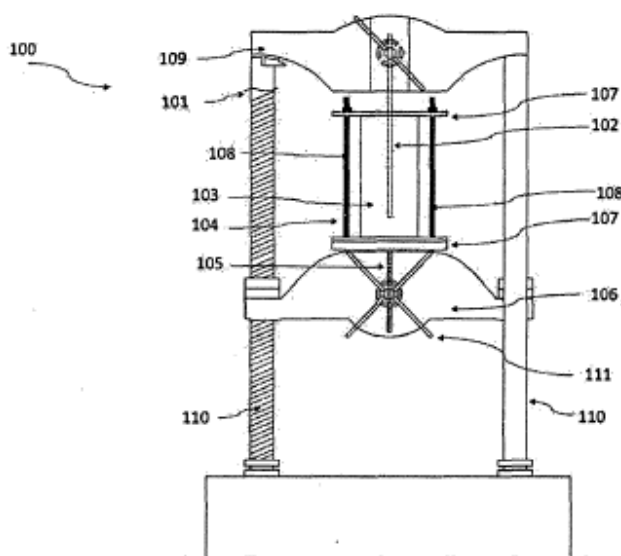
Organic Material Test Machine

Wairagade Vijay Rambhauji
Indira College of Engineering, Civil Dept.

ABSTRACT-

A system (100) for testing a strength of an organic material (102) comprises of a frame (101), wherein the frame (101) may be configured to test the organic material (102) by clamping the organic material (102) and pulling the organic material (102). The system (100) further comprises of a block (103) wherein the organic material (102) is inserted into the block (103). The block (103) is clamped to a clamping equipment (104). The clamping equipment (104) is coupled to a serrated member (105), wherein the serrated member (105) is clamped to a first jaw (106) of the frame (101).

DIAGRAM/SCHEMATIC –



IPR Application / Patent No. - 201821021085



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS2019 : P-405

THE SMART REFUELLING ASSISTING SYSTEM FOR AUTOMOBILE

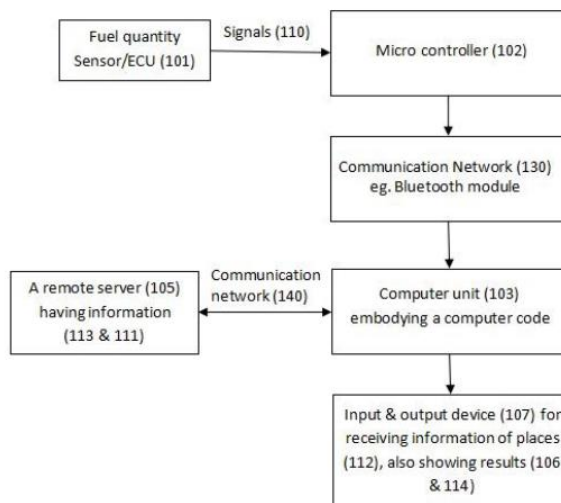
Krishna Kailas Patil

Product Design Engineer, SSAPL

ABSTRACT-

There remains a need to design a system which can directly tell about the right time and right place to refuel the vehicle. Current invention provides system to avoid this confusion and avoid fuel shortage in vehicle during travel. This invention can be used for different types of vehicles such as diesel/petrol cars, electric vehicles etc. This is a one feature of this product. It provides system (100) which continuously or periodically generate and communicate the fuel refilling intimations with the information on the available fuel refilling stations (106) as well as the fuel refilling station located at the longest distance (114) within the travel distance range (105) of vehicle to a user (108). It includes a fuel quantity sensor or an electronic control unit (101), a microcontroller (102), communication networks (130, 140), a computer unit (103) embodying a computer program code, a remote server (105) having informations (113, 111), an input and out device (107) for receiving information of places (112) and also showing results (106, 114).

DIAGRAM/SCHEMATIC –



IPR Application / Patent No. – 201821003562



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS2019 : P-406

INNOVATIVE PIPETTE FOR SUCTION OF LARGE VOLUME OF LIQUID WITHOUT FORMATION OF BUBBLES

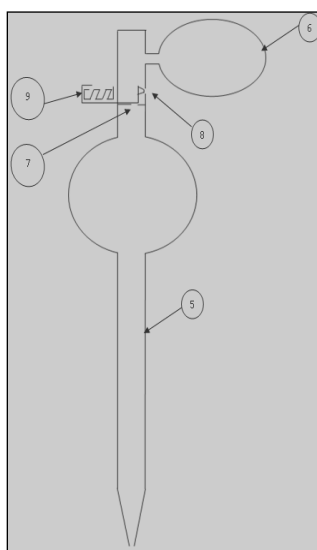
Mayura Milind Yeole

Asst. Prof. Department of Civil Engg., PCCOER, Ravet, (MS) India, mayura.yeole@pccoer.in, 9423933241

ABSTRACT-

The proposed invention is based on suction of fluid by pipette with the help of pushing switch & suction bulb, which can avoid the bubble formation due to air voids. Generally for having particular quantity of liquid any one need to suck the pipette by mouth, maximum time the chemical or liquid sucked to be entered inside the mouth. which is dangerous for human health, to overcome this problem the concept is proposed. The said invention comprises of the design, suggested for the suction of liquid in a pipette without formation of bubbles. The pipette (5) is marked with the various volumes marks on the surface of pipette which is closed at top end. The rubber suction bulb (6) is fixed horizontally at some height below the top end of pipette. The vertical opening (7) is provided to the pipette at some height of rubber suction bulb, the pushing switch (9) is fixed above the vertical opening (7) of pipette. When the pushing force from the pushing switch (9) is removed, it regains its original position, means vertical opening of pipette remain closed. The use of pushing switch (9) is to open/ close the horizontal (7) and vertical opening (8) provided to the pipette

DIAGRAM/SCHEMATIC –





CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIIS 2019)

CIPCIIS-2019 : P-407

Dual-Piston Water/Coolant-Injected Self-Cooled Six-Stroke Internal Combustion Engine with Variable Compression Ratio

Deepak Devidas Biradar¹, Vinaya Deepak Biradar², Godawari Devidas Biradar³

¹Asst. Prof. Department of Mechanical Engg., PCCOER, Ravet, Pune (MS) India, E-mail: deepak.biradar@pccoer.in, 9689901180;

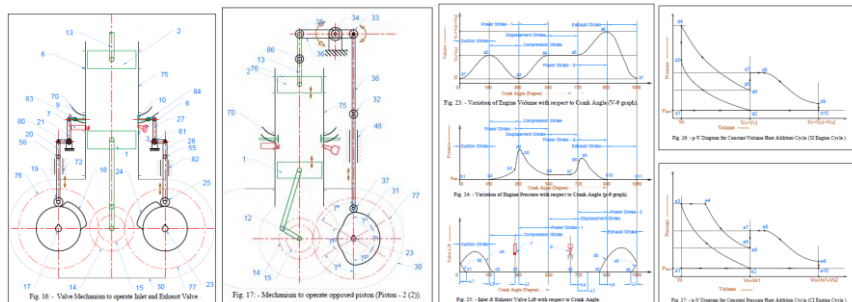
²A-1003, Lotus Laxmi-1, Mukai Chauk, Ravet/Kiwale, Pune (MS) India, E-mail: vvjbiradar@gmail.com, 9881397386;

³A-1003, Lotus Laxmi-1, Mukai Chauk, Ravet/Kiwale, Pune (MS) India, E-mail: ddbiradar@gmail.com, 9552545129.

ABSTRACT-

Conventional four-stroke Internal Combustion (IC) engine completes its cycle in four strokes of the piston; namely suction stroke, compression stroke, power stroke and exhaust stroke; during its fourth stroke the exhaust valve is kept open, piston moves from Outer Dead Center (ODC) to Inner Dead Center (IDC) and burnt gases are pushed out of the cylinder; dual-piston water/coolant-injected six-stroke internal combustion engine with variable compression ratio works in a similar manner as that of conventional four-stroke IC engine for initial three strokes namely suction stroke, compression stroke and power stroke; during the fourth stroke the exhaust valve remains closed and the piston moves from ODC to IDC, the crank rotates by 180°, but the volume of the cylinder is kept constant due the movement of another specially arranged opposed piston; this is the fourth stroke and it is an idle/displacement/movement stroke; during this stroke the hot pressurized burnt gases from the cylinder are simply displaced keeping all of its thermodynamic properties same; when the piston completes its idle/displacement stroke the water/coolant is injected in atomized form inside the cylinder; when the water comes in contact with the hot burnt gases and cylinder wall, it absorbs the sensible heat and latent heat of vaporization and undergoes substantially instantaneous vaporization; when the water changes its phase from liquid to gas (vapour) its volume increases by about 1600 times to that of the volume of water injected in its liquid state; this property/phenomenon leads to the sudden increase in the pressure of the mixture of burnt gases and steam/vapour formed; these pressurized mixture of burnt gases and vapour of water/coolant pushes the piston down which results into the second power stroke which is totally the fifth stroke of the piston; during this stroke both the valves are kept closed; when the piston reaches at the ODC, the exhaust valve is opened and the piston starts to move towards the IDC and pushes the mixture of burnt gases and the vapour of water/coolant out of the cylinder; at the end of this stroke the exhaust valve closes, inlet valve opens and the piston starts to move towards ODC which is the beginning of the suction stroke of the next cycle and in this way the cycle is repeated.

DIAGRAM/SCHEMATIC –





CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS-2019 : P-408

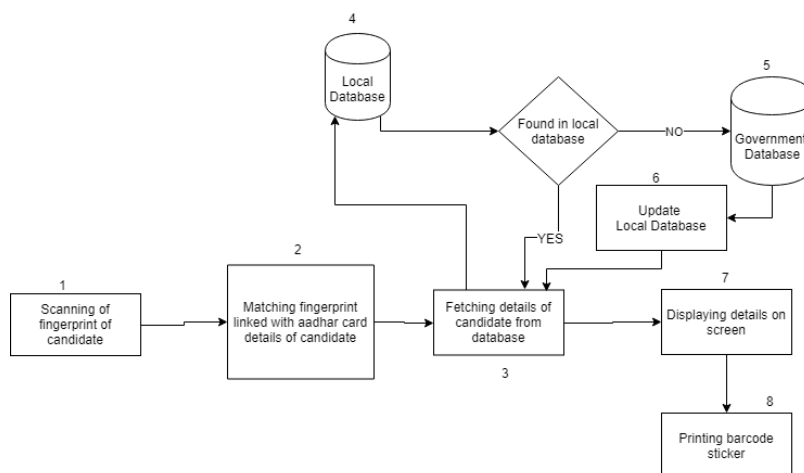
The FinPrint

**Ms Ishika Prasad, Mr Prateek S Thakare, Mr Yash Sharma, Mr Aishwarya S Kendle, Mr. Pramod B
Deshmukh**

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²DYPCOE, Maharashtra, India, harshal14thakare@gmail.com, 8700688572

ABSTRACT-

Dominant idea behind this project is to minimize the use of paper and also reduce human efforts in the most likely way possible. The electronic model does the same. The product basically comprises of IC being held in such a way that it provides a distinct feature of restoring the important information of student inside the device which could be further used for inspection purpose. It predominantly works as a simple finger print storing device that feeds data by the manual human input and hence marks the presence of any candidate pursuing a degree or appearing for an examination. The mechanism will also output a 'bar-code sticker' that has to be used by the student on the answer sheet. The main aim by which this machine is designed is to reduce the wastage of extra sheets that are used for personal detail filling procedure. This will make sure that every single answer sheet, thus now saves two sheets of paper, at last resulting in a big number of resource management by saving paper



IPR Application / Patent No. – 201921037533



CIPCIS-2019 : P-409

Cutting Dies for Kolhapuri Chappal and Automation thereof

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ABSTRACT-

Present invention relates to cutting dies for Kolhapuri Chappal manufacturing, consists two parts one is shoe sole (cutting of base of the Chappal) and heel of the Chappal. Die for shoe and heel will together manufacture Kolhapuri Chappal, die further automate the manufacturing process as against traditional manual manufacturing which involves large no of processes and tools such as sharp edged tool (rappi), current invention helps to make the process automate and improves manufacturing speed as well as accuracy along with reduction in artisans effort.

DIAGRAM / SCHEMATIC –

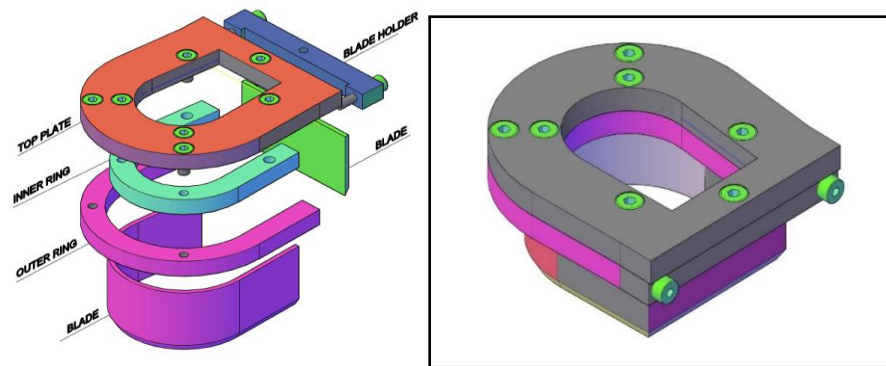


Figure 1: Die heel extruded view and assembly

IPR Application / Patent No. – 201821034508



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS-2019 : P-410

MULTIFUNCTION PEN

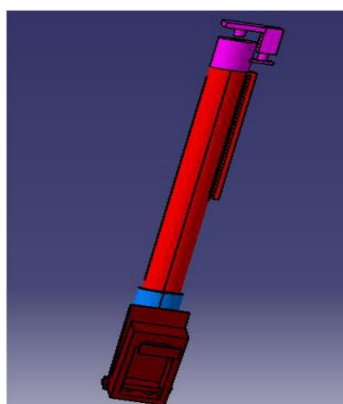
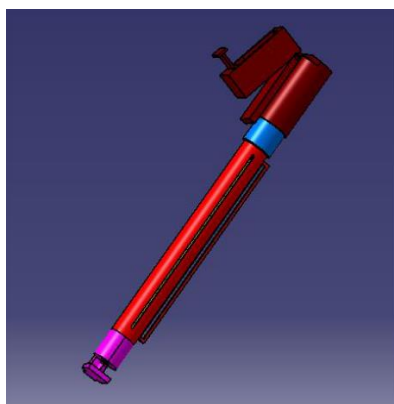
JAIN SHRENIK SANJAY

MAHARASHTRA, INDIA, shrenik123jain@gmail.com, 8975958356

ABSTRACT-

A product, consist of a pen which contains a multi-functioning such as stapler which is mounted on the cap of the body of a pen, the said combination also have a punching system which is mounted on the push button of the pen, the said combination also have paper rill mounted on the refill casing on the upper side while a glue is mounted on the lower part of refill casing, the said combination also have a refill inserted inside the refill mounting, the said combination have rubber bush inserted on the lower outer pen body by which the person is comfortable while using it.

DIAGRAM / SCHEMATIC –





CIPCIS-2019 : P-411

“Multipurpose ,Modular & Smart Agriculture Equipment with attachments”

Prithviraj Vitthal Wable¹, Akshay Vishnu Ugalmogale²

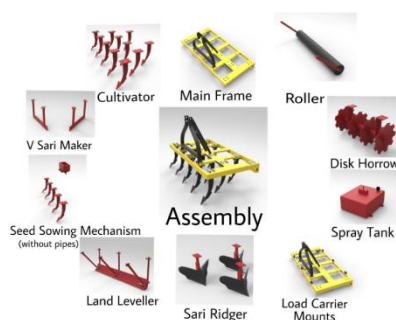
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²COO & Co-FOUNDER Primo Innovations Pune (MS) India, E-mail:akshay7ugalmogale@gmail.com,9762747757;

ABSTRACT-

In order to increase mechanization in the field of agriculture the cost of basic equipment required must be reduced. Currently lots of option available for the farmer but when it comes to the cost factor, he cannot afford the equipment. Our solution provides low cost affordable mechanization solution to the farmer. The unique feature of this agricultural equipment is its multipurpose use with the help of various attachments that can be integrated with the main frame body of the equipment. All equipment works similar to the conventional equipment. But the modular design of the equipment makes it customizable for the farmer. The equipment needed for all basic agricultural operations can be used with the single frame arrangement of the frame. In this equipment various special purpose equipment can also be added as per the need of the farmer. All the attachments of the equipment works independently. More than 8 different attachment can used in the single frame arrangement. This equipment can be used in 3 different sizes. This equipment is used as a tractor attachment , customization possible as per the power of the tractor available with the farmer. This equipment will be a complete customized package of the farmer. With this unique features IOT based devices can also be attached with the equipment to get a real time data like acidity of the soil , temperature variations in the farms , humidity of the soil and after the data analysis the fitness of soil for a particular crop can be compared with ideal soil condition for the proper growth of the crops. Hence by addition of this feature into the equipment farmer can easily pre analyze the fitness of soil for further agricultural activities and can take some preventive actions over it. So by this method we are making a farmer “A smart farmer” who can get guaranteed returns from this kind of agricultural practices. In the further scope of development a self-propelled set of tractor less equipment can be made in the same way but for smaller size and capacity. Small capacity basic agricultural equipment can also be made. By this way we will be able to provide Low cost, Multipurpose , Modular and smart agricultural equipment to the farmer.

DIAGRAM/SCHEMATIC –



IPR APPLICATION / PATENT NO. – 201821045524 (PENDING)



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-412

Biocomposite Material Based Drawer Slide Assembly

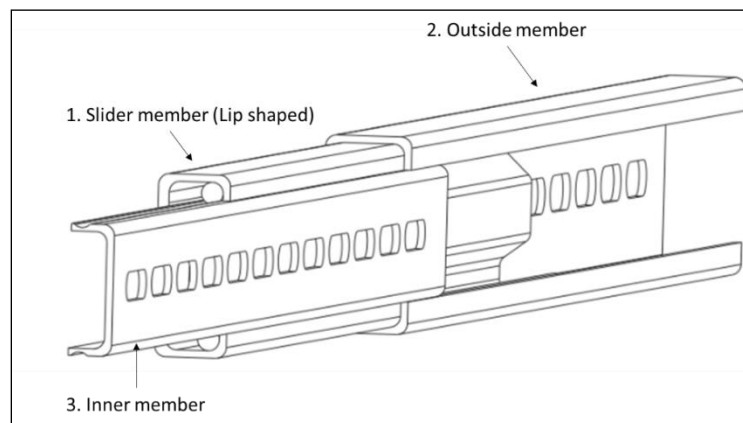
Virendra Bhagwat, Divya Zindani, Nilesh Birajdar

Department of Mechanical Engg., NIT Silchar India, bhagwatvirendra@gmail.com, 9518700071

ABSTRACT-

The present invention relates to the drawer slide assembly for residential and office furniture made from bio-composite material. The bio-composite material comprises of corn husk fibers from agricultural waste and bio-epoxy polymer. The bio-composite is made using vacuum resin transfer molding process. The present invention also provides a design for the drawer slide assembly for residential and office furniture wherein the external member is lip channel shape configuration. [1] The assembly is depicted in the below figure. The drawer slider assembly comprises of (1) slider member (lip shaped), (2) outside member that is attached to the cabinetry and (3) Inner member that is attached to the drawer side.

DIAGRAM / SCHEMATIC –



1: Slider member 2: Outside member, 3: Inner member



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-413

BLIND ASSISTANCE SHOES

Siddharth G. Gupta (Student)¹, Pooja A. Kulkarni (Assistance Professor)²

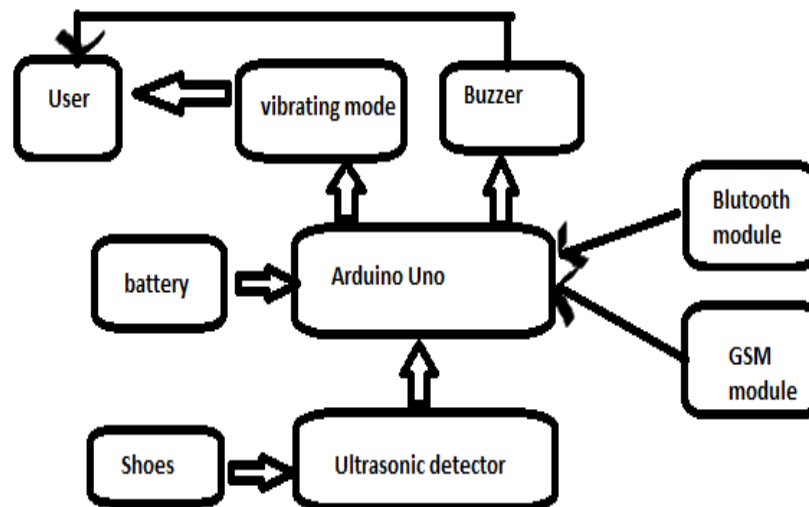
¹ Vishwakarma Institute of Technology, Pune, Maharashtra, India, siddharth.gupta18@vit.edu, +917798073899

² Vishwakarma Institute of Technology, Pune, Maharashtra, India, pooja.kulkarni@vit.edu, +919822093643

ABSTRACT-

The main objective of the product is to provide acoustic assistance to the visually impaired people and to deal with the problems faced by them to walk like normal human beings. Thus, the project aims to develop a paper that would serve as guiding assistance to them. The product focuses on designing a paper for the visually impaired user that would help them to travel independently with more ease. One of the biggest problems of visually impaired people is while walking in the indoors and outdoors, they are not well aware of information about their location and orientation with respect to traffic and obstacles on their way, unlike the normal beings. The technology in the paper serves as a solution for visually impaired people. The project consists of the smart shoes that alert visually impaired people over obstacles coming between their ways and could help them in walking with less collision. The main aim of the product is to address a reliable solution encompassing of shoes that could communicate with the users through vibrator alert.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 201921000903



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : P-414

Agriculture Pooling Using Blockchain

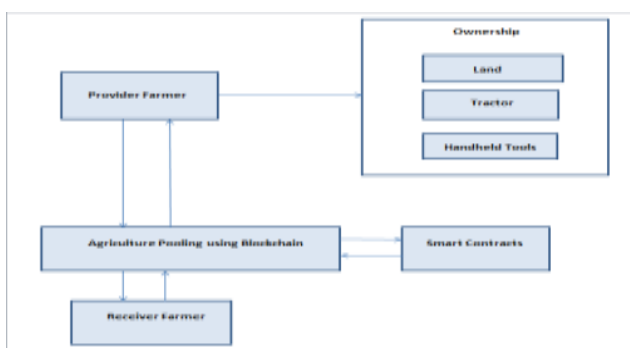
Deepti Gatne¹, Abhishek Medhane², Varad Kale³, Tushar Patil⁴, Prathamesh Gujrathi⁵

¹Maharashtra, India, gatne.deepti@kbtcoe.org, +919890031783
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ABSTRACT-

Blockchain and decentralization are rapidly becoming household words and promises to solve many problems related to the lack of trust. Currently the farmers perform traditional practices of sharing the agricultural resources which are purely based on mutual trust between two parties. There is no governing mechanism to avoid betrayal and the system to be self-sustaining. The inherent properties of this digital technology provide fault-tolerance, immutability, transparency and full traceability of the stored transaction records, as well as coherent digital representations of physical assets and autonomous transaction executions. Using this system, we overcome the drawbacks of the traditional system and provide a new, innovative system. This platform will be easily accessible and user friendly which will solve the current issues of lack of resources in farming. Hence, we propose “Agriculture Pooling using Blockchain”. Agriculture Pooling using Blockchain technology, provides a means to ensure permanence of records regarding shared resources between farmers and potentially facilitate the sharing of data between disparate actors in an agricultural chain. This potential may lead to an exciting paradigm shift facilitating transparency and trust in these chains that ensures integrity of agricultural resources. Resources such as land, tractor, handheld tools can be pooled between users of the system with the help of smart contracts. Implementing blockchain in this system would help in maintaining logs of the contracts between users as well as any actor would not be able to deny any transaction which he has already completed. This will help in establishing transparency within the system. When it comes to blockchain based DApps, there are two main elements involved. While the front end is same as the traditional applications, the backend is formed in the form of a Blockchain. The communication between the frontend application and the backend application happens in the same form as in the traditional application and the end user would not be able to distinguish between both. In the case of using a decentralized application, it is very tough to bring any application down or hack into any system as it requires to take down all the distributed hosting nodes which are practically not possible. In our day to day lives, we put our data as well as trust in hands of centralized applications that function with the help of typical servers, databases or standalone computers. This approach allows one single authority to have control over all of the data and everything we do on these applications thus, putting our privacy at risk. On the other hand, the Blockchain network runs on a community-based model which operates in a distributed model.

DIAGRAM / SCHEMATIC –



CIPCIS2019 : P-415

DOG TYING ROPE WITH ELASTIC SPRING

Sneha V. Pawade, Jayashri V. Chopde, Tejal Patil, Rupali Patil, Priyanka Chavan

Asst. Prof. Department of Mechanical Engg., PCCOER, Ravet, (MS) Indiasnehapawade@pccoer.in, 7972003204

ABSTRACT-

Generally, a leash assembly made according to the invention includes a handle and an elongate strap connected at one end to the handle, the other end being adapted to be connected to a collar worn by an animal, such as a pet dog. An elastic element has a first length when in a relaxed state and is extensible to a second length when substantially fully extended. The elastic spring includes considerable length of leash inside the spring which is attached to the strap with the length of strap between attached ends of the elastic element being substantially equal to the second length. The elastic element significantly provides with simple structure, easy to use, to avoid damage to the dog fur at the neck, easy to tie a rope

DIAGRAM/SCHEMATIC –

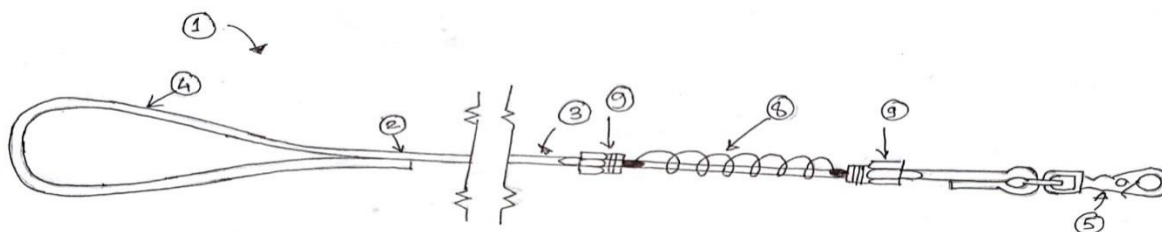


FIGURE-1

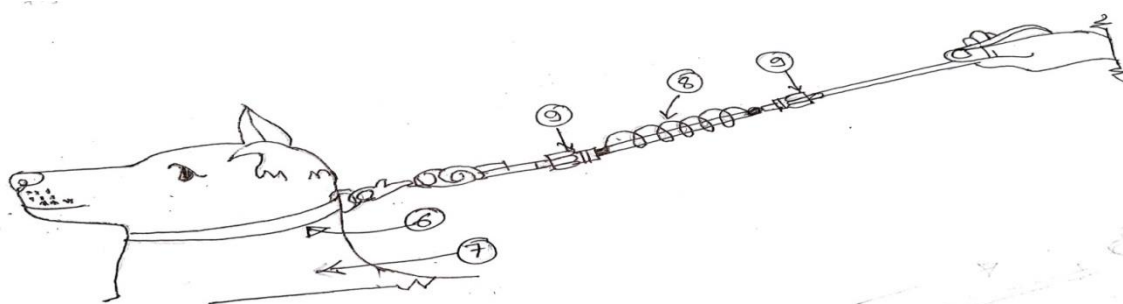


FIGURE-2

1: Leash Assembly, 2: Non elastic Leash, 3: Length of strap (inelastic element), 4: Handle, 5: Snap, 6: Collar, 7: Pet Dog, 8: Elastic Spring, 9: Fasteners



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCI 2019)

CIPCI2019 : P-416

INDIVIDUAL CARBON FOOTPRINT CALCULATION AND TAX CHARGING SYSTEM FOR SUSTAINABLE ENVIRONMENT

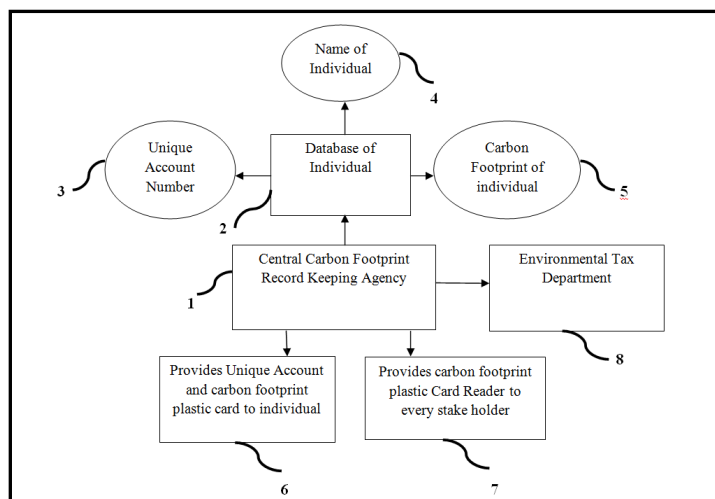
Ompriya Kale, Sanjay Bibrale

Assistant Professor, Maharashtra, India, ompriya.2007@gmail.com, 8451949219
Assistant Engineer, Maharashtra, India, sanjaybecivil84@gmail.com, 9173692446

ABSTRACT-

A system individual carbon footprint calculation and tax charging for sustainable environment is used to audit carbon footprints of individual and charges tax accordingly, said system makes mandatory for manufacturer to label carbon footprint of products caused during its production, said system also provides carbon footprint plastic card to individual and card reader to stake holder to credit carbon footprint in his/her account, said system thus encourages individual to reduce carbon footprint and debit carbon footprint by offering various carbon footprint reduction schemes, said system thus helps to create sustainable environment.

DIAGRAM / SCHEMATIC –



IPR APPLICATION / PATENT NO. – 201721014007



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIIS 2019)

CIPCIIS2019 : P-417

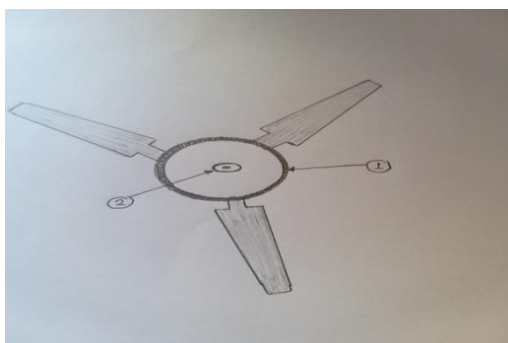
A Thermal Camera Sensor for Fan to Save Electricity

**Mrs.Shilpa Rajesh Kale, Mrs.Shweta Koparde, Mrs.Anuja Bhondave, Mrs.Sonali Lunawat,
Mrs.Madhuri Badole**

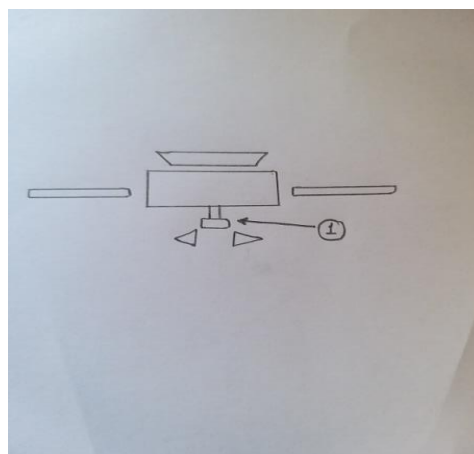
¹Lab Assist. Department of Computer Engg., PCCOER, Ravet, (MS) India, shilpa.kale@pccoer.in, 8888148877

ABSTRACT- This innovation is based on saving electricity. In a classroom if around 50 students can seat and there were 5 fans then if only 20 students were present in the classroom then only 2 or 3 fans are sufficient then no need to turn on the rest fans so if they are still on it is waste of electricity to reduce the waste of electricity we can mount thermal camera on fan and can sense the temperature changes under the area of fan and if non changes appeared it will be on and if person is not there it will sense that the temperature of that person change in that area so it will be get off. This invention will now described in relation to the accompanying drawing in which figure-1 illustrate the (1) ceiling fan with (2) thermal camera at center of the fan to sense the heat or temperature through infrared radiation

DIAGRAM/SCHEMATIC –



1. Fan
2. Thermal Camera



1. Thermal camera



CIPCIS 2019: P-418

PUC EXPIRY INDICATOR

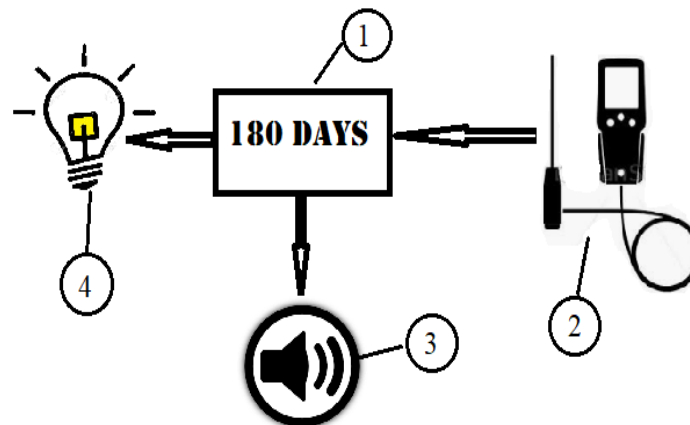
Tejal Patil, Jayashri V. Chopade, Sneha Pawade, Rupali Patil, Priyanka Chavan

Asst. Prof. Department of Mechanical Engg., PCCOER, Ravet, (MS) India, jayashri.chopade@pccoer.in, 9545452763

ABSTRACT-

The emissions of vehicle are harmful to the environment. It has to be checked timely to reduce the pollution. There are different emission norms passed for vehicle. If the emission of the vehicle goes beyond the said limit in norms, vehicle engine has to be maintained. Hence, PUC test has to be done timely. But people in India forget to recheck after expiry. Hence, PUC expiry indicator system is introduced to remind about PUC certification and hence further reduction in pollution. In the present invention, first the gas analyzer (2) has to connect with the digital display timer unit (1) with data cable. Once the gas analyzer (2) will be inserted in exhaust pipe, based on quality of emission the gas analyzer (2) will feed the expiry time in days to the digital display timer unit (1). The timer (1) will show the time left to recheck the PUC. Once the timer come to 1 day left, the beeper (3) will start making beeping sound to indicate that PUC is going to expire. If timer comes to zero days left for recheck, it gives the signal through the blue LED (4), to indicate that PUC certification of vehicle is expired. Once the PUC recertification is done, the beeper (3) and the blue LED (4) will be turned off automatically.

DIAGRAM / SCHEMATIC –



1 : Digital display timer 2 : Gas analyzer, 3: Beeper, 4 : LED



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIIS 2019)

CIPCIIS2019 : P-419

Book Record System in Reference Section of Library

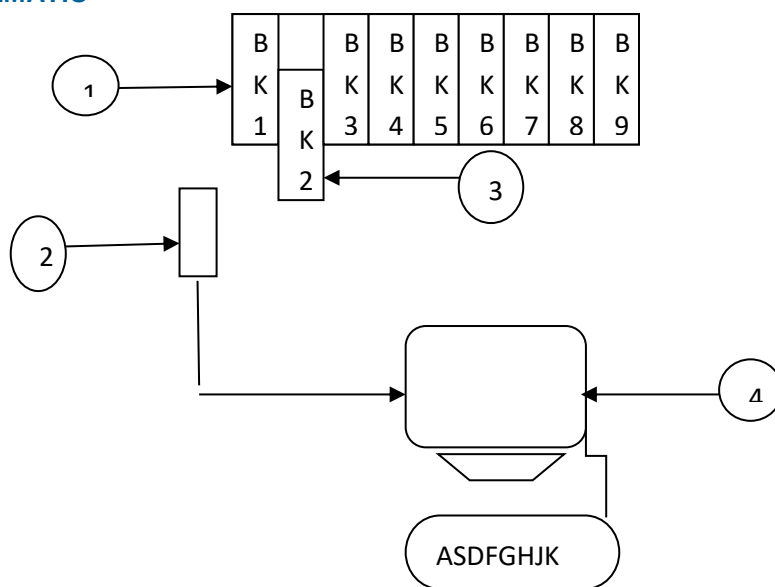
Rupali S. Sonawane

Librarian in ,PCCOER, Ravet, (MS) India, rupali.sonawane@pccoer.in, 9923147404

ABSTRACT-

The system is developed for reference section of library consists of sensor(2), computer system(4). Whenever any user wanted to access any book(3) from reference section from rack(1) he will pick up that book(3) from that row. At that time sensor(2) will immediately sense the book & will send the information to the computer system(4). Computer system will record the data about which book is taken out from user. . The data is recorded for how many times that book(3) is used by users.

DIAGRAM/SCHEMATIC –



1:-Reference Books rack, 2:-Sensor, 3:-Book, 4:-Computer System



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS2019 : P-420

A Smart Tool for Testing Deficient Elements in Soil

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Dhanashree Divekar⁴**

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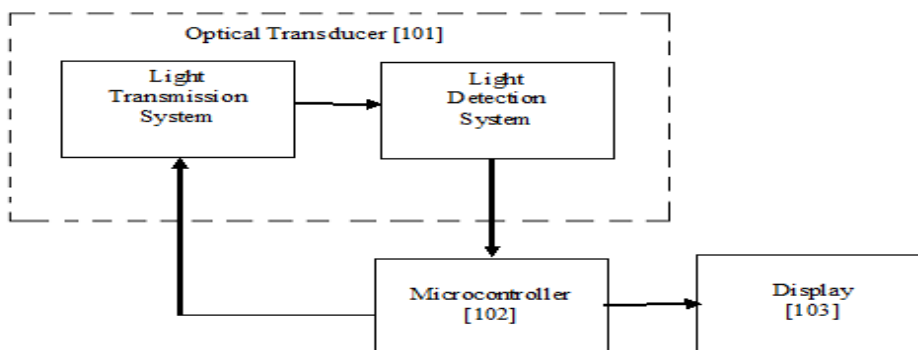
³ Asst. Prof. Department of E&TC Engg. PCCOER, Ravet, (MS) India, maithili.andhare@pccoer.in, 9922435837

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ABSTRACT-

An optical transducer which consists of light detection & light transmission system is developed for measuring and detecting the presence of Nitrogen (N), Phosphorus (P) and Potassium (K) in soil. Such transducer is needed to decide how much extra contents of these nutrients are to be added to the soil to increase soil fertility. The N, P and K value of the sample are determined by absorption of light of each nutrient. The optical transducer which consists of three LEDs as light source and a photodiode as a light detector. The wavelength of LEDs is chosen to fit the absorption band of each nutrient. The nutrient absorbs some of the light from LED and remaining light is reflected by the reflector surface. The photodiode converts the remaining light into voltage. The system uses microcontroller for data acquisition therefore the output from the transducer is converted into a digital display reading. Further these NPK ratios are compared with the data stored in memory and the suitable crops for that soil sample will display.

DIAGRAM/SCHEMATIC –



IPR APPLICATION / PATENT No. – 201921052371



CIPCIS2019 : P-421

Retrofit mechanism for flow control in flush tanks of toilets

Sonali Kedar Kanase

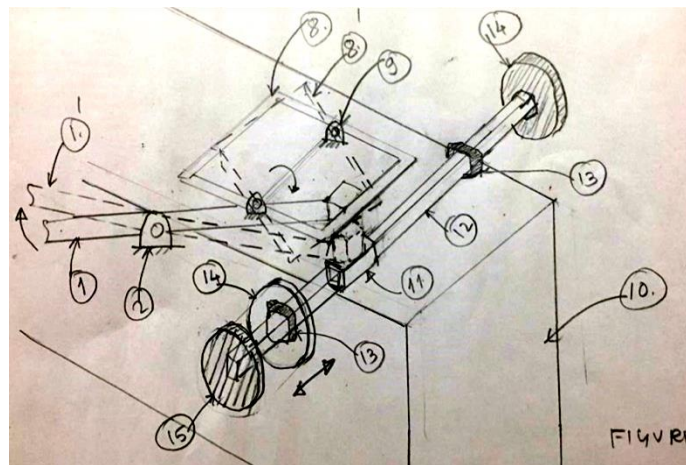
Asst. Prof. in First Year Engineering Department, PCCOER, Ravet, (MS) India, sonali.kanase@pccoer.in, 9850780995

ABSTRACT-

The present innovation relates to saving of water during flushing in toilets with a simple mechanism which is easy to add on to existing toilets as a retrofit. This is achieved by adding a stopper mechanism to limit the stroke of the flush. Height of the stopper can be adjusted to vary water flow.

DIAGRAM/SCHEMATIC –

Existing flush tank cover 3D cut view showing object of the invention with actuation stopper mechanism representation.



- 1: Main Actuation lever, 2: Main fulcrum, 8: Actuation lever in flush tank cover, 9: Fulcrum in flush tank cover,
10: Flush tank cover, 11: Stopper, 12: Stopper rod, 13: Guide bush in Flush tank cover, 14: Limiting washer
15: Stopper knob.



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS2019 : P-422

Fertilizometer

Dr. Archana A. Chaugule¹

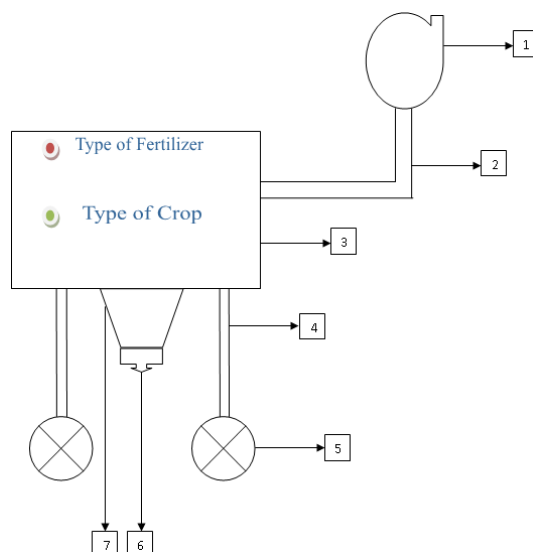
¹ Prof. Department of Computer Engg., PCCOER, Ravet, (MS) India, archana.chaugule@pccoer.in, 8007773086

ABSTRACT-

According to the invention, user of the machine is expected to put the crop details according to crop. The distribution of fertilizers can be made according to the crop which needs to be fertilized. A certain crop needs a certain amount of fertilizer. Any less than that and the crop will decrease in size and won't provide the required nutrients as much. Any more than that and the crop will not be able to take up water. Plants rely on an osmotic pressure gradient in order to collect water. When the concentration of dissolved solids rises continuously from the soil around the roots to the core of the root, this causes water to flow into the plant. When the pressure around the roots gets too high, the flow of water reverses. This is where the term burning your plants comes from. The water flows from the leaves out the roots the leaves burn because they don't have water to cool them.

This is the reason that the distribution of fertilizers has to be made according to the crop which needs to be fertilized. We created a machine which drops a certain fixed amount of fertilizer that a respective crop needs, no amount more or less than that. The machine (which is in the form of a one-wheeled cycle) can be moved throughout the field, and every single crop can be fertilized according to its required amount.

DIAGRAM/SCHEMATIC –



1: Container containing the required fertilizer, 2: Tube, 3: Selection Box, 4: Wheel Supports, 5: Wheels, 6: Container where selected quantity of fertilizer is stored before it is passed on to the distributor knob, 7: Distributor knob



CIPCIS 2019 : P-423

FULFILLMENT OF WATER NEEDS IN THE VEHICLES

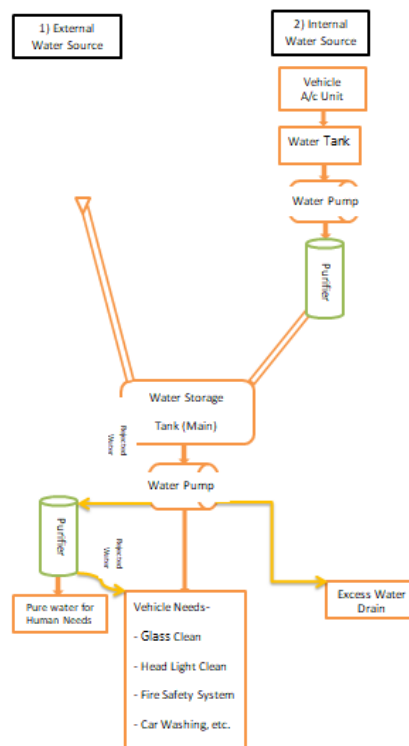
Jadhav Mahadev Rajaram

Navi Mumbai, 400706

ABSTRACT-

Fulfillment of water needs for human being and vehicle by using external and internal source of water in the Vehicle. It includes water storage tank for storing water. Water storage tank can be filled water directly as external water source, and vehicle air conditioner generated water can be used as additional and consistent water source as internal water source.

DIAGRAM/SCHEMATIC –





CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : C-001

LEAF SEVERITY MANAGEMENT USING NEURAL NETWORKS

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ABSTRACT-

Nowadays, different diseases are affecting the crops in which different pesticides are used. The amount of disease affected on the leaf is been seen by the naked eye, so the result is subjective. The amount of use of pesticides is not known, so if more amount of pesticides is been sprayed it will affect the cost as well as the environment. By using the image processing technique we can evaluate the affected area of the leaf. Poisson minimum error thresholding method, as well as simple thresholding method, are adopted to calculate distressed area of leaf as well as segmentation of distressed area of leaf respectively finally we can calculate the severity through taking ration of the distressed leaf area to the entire area.

DIARY NUMBER: 19819/2019-CO/L

CIPCIS 2019 : C-002

ONLINE E-GAS BOOKING SYSTEM USING CLOUD COMPUTING

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ABSTRACT-

Main target of our project is to develop the system in which the registered customer can efficiently placed there order such as new gas cylinder or refill the empty one without any hectic procedures. On the other side gas agencies which provide the this type of fast facility can easily maintain the customer record such as name of customer, address, phone.no, previous pending due of customer etc. Our system also help to maintain the agencies side record such as how many new full cylinder are delivered to which customer ,how many cylineders are refill etc .Our develop structure will provide the effortless user interface, low cost storage system etc for prior arrangement of LPG gas cylinder through online this will conserve their time and revenue.

DIARY NUMBER: 19826/2019-CO/L



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : C-003

SMART MEDICINE BOX USING IOT

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ABSTRACT-

In today's busy world people may not always be in a position to keep them self updated of their medicine timings. The course of the medicine is often forgotten by patients, which affect their sickness and may even lead to conditions such as paralyzation, coma, or even death. A new device named SMART MEDIKIT will help in solving this current issue. This device is an efficient system that replaces the current problem of paralyzed people who are on daily medication. The proposed system helps the aged people to take their medicines on time without the help of another person. It is a box type small system equipped with Internet of Things (IoT) and consists of seven chambers one for each day in a week. Medicines are kept in these chambers and there is a facility to set the time in which the person has to take the medicine. According to the time that is set on the device there will be a buzzer to alert about the medicine. After the buzzer, the chamber will automatically open and the patient can take their medicine. Once the chamber closes an intimation message will be sent to the close relative and family doctor via any social medium. Also an emergency button is present on top of the box to inform the doctor and close relatives about patient and if any.

DIARY NUMBER: 19822/2019-CO/L

CIPCIS 2019 : C-004

INTEGRATED BLUETOOTH AND BAND NOTCHUWB ANTENNA

TruptiPawase

MIT Art, Design and Technology University

ABSTRACT-

The proposed antenna presents a brief idea of single band notched (Wi-MAX) rectangular microstrip patch antenna for ultrawideband application. The stable radiation patterns and constant gain in the UWB band are obtained. Simulated results show that the two inverted L shaped slots are designed and are acting as a band stop filter for WiMAX at 3.5GHz (3.3 to 3.7GHz). To achieve this single band notched proper basic UWB antenna is taken which has the pair of notches on rectangular radiating patch which is now working for entire region of ultrawideband (UWB). Integration of Bluetooth (2.3-2.5 GHz) is obtained by additional use of Stub on patch.

DIARY NUMBER: 18827/2019-CO/L



CIPCIS 2019 : C-005

Building a Privacy Oriented Chrome Extension

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ABSTRACT-

This work examines the project that is being designed with the privacy preferences of the end user in mind, by creating a Google Chrome extension that will carry out predefined tasks. The extension is being built on the core technologies of JavaScript, HTML, Cascading Style Sheets, among others. The ultimate goal of the extension is to help users retain a certain extent of privacy while surfing the internet. In addition to optionally clearing browser cookies and cache, the extension is also being envisioned as one that may display data usage in the current session, so as to help the users maintain control over their bandwidth. The motivation behind the project is to provide a simple tool for everyday users; this tool will help even the layman user to keep tabs on his/her browsing activities.

DIARY NUMBER: L-79973/2019

CIPCIS 2019 : C-006

Instant Measure

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ABSTRACT-

The software to be produced is on Object Measurement System. Here the employees are the users of the software. The employees will click a picture of the required object to be measured. The picture must be clicked such that the object should be on right side and the reference object should be on left side. The size of reference object should already be present in the program. By calculating the pixels of the reference object and actual object the object can be easily measured. Then the image should be processed using OpenCv and the objects are detected. Then with the help of left reference object actual dimensions are calculated and used. The app uses image processing using the OpenCV library. The system is useful to the shipping company employees which manually measure the objects. Using this app they can easily measure the objects to be measured.

DIARY NUMBER: 15202/2019-CO/SW



CIPCIS 2019 : C-007

Algorithm for Randomly Carrier Detection based Data hiding

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ABSTRACT-

Random Pixel Prediction algorithm involves embedding of information into image and steganalysis reveals the presence of data. This is technique for random pixel prediction which is based on randomizing the sequence of cipher bits. First we calculate measure of all possible random sequences of cipher bits and then select one of random sequence which is close to image. Random sequences are generated by computing sequence which is based on seed pixel, and then with the help of this random sequence of cipher bits, information is embedded into cover image. These technique is prioritizing because it does not contain one-to-one mapping between a given cipher text and a Cover image, and for cryptography analysis, even if successful attack on encryption system, attacker need to get information of seed which is help to generate this random sequence.

Firstly,

- Consider amount of data to be encrypt which is labeled as n .
- Select cover image which is having more pixels than n , i.e. $n+p$, where n is length of data to be encrypted and p is initial seed value that is length of data needs to embed information of string.
- Divide the cover image into n blocks.
- Consider initial block as m .

compute Pixel Prediction (PP) bit length (m) such that $2^m > n$. which is twice of bit length greater than length of data to be encrypted

From the above calculation m -bit length is created and it is also represented in binary notation.

For m -bit pp the initial value is set the same will be referred as seed value.

- With the help of PP and seed value random permutations of $f_1, 2, \dots, n$ as $f_{11}, l_2, \dots, l_n$ are generated.
- From the above permutation, calculate the encrypted data for obtaining permutation string.

Match the feasibility of permuted string, and then use that string for hiding data into cover image.

For each bit data is embedded into its least significant bit of cover image the suitability of bit is checked by threshold value if the value is above threshold then bit is considered otherwise step 2 to 6 will be repeated again.

PP will be hidden with the help of seed information which is generated from above permutation and then this will be embedded into last p pixels of the cover image.



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019 : C-008

ZjaidSort

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ABSTRACT-

Every Element in the Set provided have their own unique property or relation between key and other elements from Set of Data , this property defines the unique position in between the Set of Elements provided.

Sorting is based on Questioning the elements on their own properties/characteristic comparative to all the set of elements provided.

Exact and accurate answers to these questions give the unique property to hold its location that where it must be present in provided set of values/elements.

Set of Questions to sort in Ascending fashion are as follows:-

- 1.Given Elements is Big than how many Elements in the sets?
- 2.Given Elements is Equal to how many Elements in the sets?

Answer to above questions gives exact location where it must be present in ascending order.

Set of Questions to sort in Descending fashion are as follows :-

- 1.Given Elements is Small than how many Elements in the sets?
- 2.Given Elements is Equal to how many Elements in the sets?

Answer to above questions gives exact location where it must be present in descending order

DIARY NUMBER: 11908/2019-CO/SW



Pimpri Chinchwad Education Trust's
PIMPRI CHINCHWAD COLLEGE OF ENGINEERING AND RESEARCH
Laxminagar, Ravet, Pune-412101 (Maharashtra)

CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)



CIPCIS 2019 : C-009

D2F Infra: ICT for Sustainable Agricultural Development

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ABSTRACT-

Day-by-day, demand of food is increasing with the increase in the population of the nation and the world. By 2050, the demand for food is expected to increase by 70 percent of the present demand. As Information and Communication Technology (ICT) became an essential part of all the sectors in human life and as food is important for human, agriculture sector cannot keep itself distant from it. ICT plays very important role in the farmer's life since long time where after growing crop or live stock they sought information from one another related to demand of their produce or exchange of one another produce. With the evolution in technology, it become very easy to maintain the information related to agriculture sector and makes it available to the farmers for their benefits. In this paper, we tried to explore the various aspects of ICT for betterment of Indian farmers and other stakeholders of agriculture sector. We have also put focus on the various options for effective utilization of ICT with the help of Indian Government, IT industry and telecom industry, where government can make policies for implementing these solutions, IT industry shall take initiative for development of required software and telecom industry shall provide infrastructural support.

DIARY NUMBER: L-75256/2018

CIPCIS 2019: C-010

LAB MANUAL of Computer Networks with Programs and Output

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Assistant Professor, Maharashtra, India, sonali.lunawat@pccoer.in, 8087472177
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ABSTRACT-

This document contains lab material of Computer Networks Lab of Third Year of Computer Engineering (2015 Course), SPPU. With the help of this material students will be able to demonstrate LAN and WAN protocol behavior using Modern Tools. Students will be able to analyze data flow between peer to peer in an IP network using Application, Transport and Network Layer Protocols. This document contains demonstration of basic configuration of switches and routers also student can develop Client- Server architectures and prototypes by the means of correct standards and technology.



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019: C-011

Assessment of Student Understanding Using Concept Maps

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ABSTRACT-

It present a system based on concept maps to access the level of understanding of a student. The main purpose of this project is to improve the use of artificial intelligence in assessment of student understanding using concept maps of a particular topic. A new system is developed based on Question-Tag in which a student answers questions on a particular topic and according to the answers marked, the concept mapping is done by the system. We calculate the probability distribution of the concepts identified in the concept map. The evaluation of the student understanding is done by analyzing the curve of the graph developed by the system and this is compared against the expert concept map.

DIARY NUMBER: 3969/2016-CO/SW

CIPCIS 2019: C-012

Battery Discharge Prediction Using support vector machine

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ABSTRACT-

Mobile phone is the most widely used communication device in today's world. Mobile phones have come a part of our daily life. Since its invention mobile phones have developed from basic to smart. Today mobilephones are used not only for calling, but also for watching videos, listening to music, playing games ,browsing the web and many more. But with the increase in features in the mobile phones, battery consumption of the phones has also increased. Today most of the mobile phones, especially Android phones faces the problem of battery power consumption. To reduce the power consumption, we are going to predict the battery discharge rate of the phones in order to increase the battery life of phones. Using data mining, we will collect the mobile phonedata, user pattern of mobile usage and predict thedischarge rate of the battery for the mobile phone. This data will help the user to change theirpattern to increasetheir battery life. The mobile discharge rate prediction model makes use of Support Vector Model (SVM) and K-Fold Cross Validation.



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019: C-013

MENTOR APPLICATION

Mr. Aditya Desai

Student, Department of Computer Engg., PCCOER, Ravet, India

ABSTRACT-

This application is based on making communication between the students and teachers through providing contact details in one application. This application has features such as calling, messaging and e-mail to the students by teachers. It also has contact details of parents through which we can contact the parents too. The teachers require to send message about the progress of the students, the one who are absent for lectures and if any emergency they can contact them. Through this application teachers will save a lot of time in searching the contact details about students and parents. It is used only for college.

CIPICIS 2019: C-014

Voice based Product Tracking System in Mall for Customers

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Mrs.SonaliKedar Kanase⁴**

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ABSTRACT-

In Mall various kinds of people visits which have different needs to buy products. Tracking a product with its exact location is tedious task for customers visiting in the Mall. When anyone visits Mall to search a product one has to move here and there to get the product which one need to buy. It makes rush everywhere as people will find the product in incorrect location also it is time consuming process to get what one want. Customers will search for products as per requirement in each section and each rack unnecessary as due to improper guidelines so rush in specific section is more and also product offers of each product has to be searched by reading individual offers on that place. In proposed system we are implementing an Android Application which customer will install on their smart phone. The application will have a map of each and every corner of the mall. Customer will speak as voice input for any of the product which need to be search in mall and the map will show the customer exact location with direction in audio output as well as pointer from his/her current location to the product, offers relevant to product and product prices for different brands. The Android Application will have features to accept multiple request from customer as voice input which will break down in different words each word will be identified as different product. An Application will also give shortest distance to reach the product to customers. Android Application will enable user to use this application only if user in authenticated by admin of the Mall.

DIARY NUMBER: 683-/2018-CO/L



CIPICIS 2019: C015

Data Fusion and delay aware Structure with Multiple Routing in Wireless Sensor Network

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ABSTRACT-

In wireless sensor network (WSN), applications required a high integrity routing mechanism to regulate the large amount of traffic to inject within the network to assurance reliable packet delivery and avoid packet. Different application have different Quality of Services (QoS) requirement when running on the same Wireless Sensor Network. Mainly two basic requirements consider in WSN and they are high data integrity and low delay. Integrity and Delay Differentiation Routing (IDDR) protocol achieves both QoS requirements high data integrity and low delay. In proposed system to improve the performance of the network delay and energy consumption we implement clustering and scheduling algorithm with IDDR. If the hotspot is generated at sensor node while transmitting the data, then node create a cluster and find the Cluster Head (CH) with high energy and minimum depth value. Data in the queue within the hotspot will redirect through different rout using CH. In this paper we also discard the attack detects on node, and replaces that node by another node. This will reduce the packet drop and delay in the network.

DIARY NUMBER: L-73758/2018

CIPICIS 2019: C-016

A Smart Bi-Directional Power Converter For Vehicle To Vehicle, Vehicle To Home And Home To Vehicle Power Transmission

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ABSTRACT-

In conventional vehicles the fuel is transformed from one vehicle to other vehicle easily by using pipe or by using other accessories in emergency situations. But in case of electrical vehicles it is not possible to transfer electricity easily because it requires conversions of electricity from DC to AC and AC to DC. According to prior art it is observed that present converters acts either rectifier or inverter, with no bi-directional energy flow, having more harmonics, low power factor, more voltage regulation time, required transformer, required phase lock loop (PLL), required diode bridge. The present invention addressed these problems and uses Continuous Switching Pulse-Width Modulation (CSPWM) and Sinusoidal Pulse-Width Modulation (SPWM) techniques which makes unity power factor of an active rectifier with low Total Harmonic Distortion (THD) and possible to transmit the power flow bi-directionally.

DIARY NUMBER: 13418/2017-CO/L



CIPCIS 2019: C-017

A Smart Digital Stapler

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ABSTRACT-

This invention relates to the field of Electronics and Mechanical Engineering. This invention is associated with the daily used offices, businesses, individuals in written communications, recordkeeping or bookkeeping. Predominantly, this invention is related to the automation of stapler using digital display to indicate number of stapler pins available as a reminder to refill it before it becomes empty. Staplers have been around for more than a century serving different purposes for different people. Though these are as common as some office supplies, many users still know less of their importance. These things may be tagged as “just a tool” but such tool is essential in the operations in working environments such as an offices, businesses and individuals. Most of the time user forget to refill it and used it blindly, consequently in emergency periods all work gets scuffled. Whether staples remain in the magazine cannot be determined in the conventional stapler without opening it.

DIARY NUMBER: 14361/2017-CO/L

CIPCIS 2019: C018

Firearm Security Using Bio-Metric

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ABSTRACT-

The passing rate because of inadvertent and purposeful utilization of unsecured gun by youngsters, rationally irritate people, crooks has been constantly expanded. The study by international firearm injury prevention and policy demonstrates that in India every year average numbers of gun deaths are 3000, average gun homicides are 4000, average gun suicides are 1500, and unintentional gun deaths are 1700. The said numbers demonstrates the requirement for changes in gun wellbeing. Likewise in close battle mightily pulling of gun by opponent and utilize it is a typical practice, in any case, the right now accessible shields have turned out to be lacking. Many lives could be spared if just the client or other approved individual will have the capacity to utilize the guns.



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019: C-019

ATM SECURITY SYSTEM USING IRIS RECOGNITION BY IMAGE PROCESSING

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ABSTRACT-

Iris recognition system has become very important, especially in the field of security, because it provides high reliability. Many researchers have suggested new methods to iris recognition system in order to increase the efficiency of the system. In this thesis, various methods have been proposed to achieve high performance in iris recognition. In the proposed system, two feature extraction approaches, Gray Level Co-Occurrence Matrix (GLCM) and Local Binary Pattern (LBP) are used to extract the features from iris image. On other hand classifiers; Probabilistic Neural Network (PNN) is used in the classification stage. The iris image passes through several stages before extracting features stage; first, pre-processing stage which includes image resizing that unifies all images' size, second, segmentation stage which determines the iris region in eye image, finally, normalization stage which converts the iris region to suitable shape with specific dimensions.

DIARY NUMBER: 17533/2019-CO/L

CIPICIS 2019: C-020

IMPLEMENTATION OF MEMAC PROTOCOL USING WSN

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ABSTRACT-

It is proposed to introduce An Adaptive Mobility Aware and Energy Efficient MAC Protocol for Wireless Sensor Networks MEMAC which gives improvement on energy consumption, throughput and delay over that MMAC, Using simulation results of MEMAC; we do performance analysis of MEMAC. To implement such a protocol, mobility of the node and energy consumption is an important factor. MEMAC protocol is hybrid based MAC protocol which has the advantages of energy efficiency in mobile environment. MEMAC differentiates between message as data & control. MEMAC uses dynamic frame size to allow protocol to adapt itself to changes in mobility conditions. Also it includes only those nodes in schedule which have data to send. It handles the channel access through the following phases synchronization, request /leave/join, schedule calculation and distribution and data transfer. By simulation experiments of MEMAC protocol, performance analysis is to be done in terms of energy consumption, throughput and average packet delay.

DIARY NUMBER: 726/2018-CO/L



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019: C-021

RF & EMP generation and it's Effects

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ABSTRACT-

Now a day where we survive is completely surrounded by electronic circuits and gadgets. In this era we live are can be called as the era of modern electronics gadget. We want everything to be automated. To connect with world the most important thing is the internet which based on electronic gadgets. The EMP is the pulses which can be responsible for disintegrating this Gadget era. In this paper we depict Electro Magnetic Pulse (EMP) meaning, its sources, Methodology for generation, protection methods and its adverse effects on circuits. We have developed small prototype which illustrate its consequence on electronic gadgets. Many nations are now researching on it that how the EMP can be used as weapons. The North Korea and Russia are much more aggressive to this Research. This EMP is mostly used in Defence and military domain area. The first work on this EMP in Nuclear weapons is in 1945 they had tried to measure the electromagnetic field that would be produced. But the actual effect of EMP is known in the year 1960.

DIARY NUMBER: 756/2018-CO/L

CIPICIS 2019: C-022

IOT Based Real Time System for Industrial Boiler Safety

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ABSTRACT-

This Project provides an option for monitoring of boilers in power plant even in remote location in addition to the control room. The proposed method develops the remote monitoring and control of boiler temperature using wireless communication. This method uses Internet of Things (IoT) as the platform of communication. The proposed method also provides an option for monitoring and control even in remote location in addition to the control room. Internet of Things (IoT) will play a major role in the future concept of power plant integration. The proposed method will suit and provide a start-up initiation for this future concept. Temperature sensor sense the temperature of the boiler which is given to microcontroller. Whenever the temperature value is exceeded to prescribed value it gives the alerts through IOT, Android app.

DIARY NUMBER: 17525/2019-CO/L



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019: C-023

Onion Storage Atomization with Rotte Onion Detection and Retrieval System

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ABSTRACT-

Now a day's Robust and tight control of systems is the growing need of industry to enhance the product quality at reasonable cost. Services like proper onion storage/harvesting temperature in specific range (37 to 45 degree celsius). Because of change in temperature, different losses & diseases can occurs. To avoid these losses we tried to control the temperature and moisture (or say, humidity 50 to 60%) as much as possible. To Control the System controlling section is important in any automation system. We propose a system which proved and secure the onion from internal and external danger. Person those are monitor the storage they can able to see what is going on in their automated area with the help of lcd display and buzzer. Auto controlling is important thing in our day to day life. Post harvest losses of fruits and vegetables vary in extent depending upon the kind of produce and certain biotic and biotic factors. Traditionally, post harvest science is mainly focused on the physiological aspects of produce to increase shelf life and maintain the quality. Post harvest practices for preservation of different fruits and vegetables are known to mankind since ancient times. Though the basic principles of processing of onion have undergone a minor change over the last few years, yet a remarkable improvement has been observed in handling practices, equipment used for processing of huge quantities of produce along with maintaining their desirable qualities techniques like minimal processing adapt an integrated approach to value addition.

DIARY NUMBER: 17599/2019-CO/L

CIPICIS 2019: C-024

Multi pal Recharge on your one Click

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ABSTRACT-

In last few years' online recharge apps have been increased rapidly. These apps are used to pay the bills like mobile/ DTH/ Electricity bill to comfort our daily lives. In this project I have tried to develop a multi recharge app in a single time attempt. This app can recharge / pay our bill of two different operators at a single time. As by this app we will be doing multiple recharge at a single time the user may get higher benefit of cash back on threshold amount in the form of money/ free coupons which we can utilize at next recharge.

DIARY NUMBER: 742/2018-CO/L



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019: C-025

Design of Micro strip Multiband Antenna for Wireless Applications

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ABSTRACT-

Multiband phased array antennas are required for today's multi-function communication applications. Generally, Micro strip antenna arrays like Koch array, Sierpinski array are used, but in some circuits where space is limited, arrays are not used. Therefore, to achieve the multiband operation with limited space, an antenna is designed with E-shaped in combination with split ring resonator to achieve the multiband operation. The simulation and experimental results show that the proposed antenna operates at different frequencies which can be used for different wireless applications like Bluetooth (2.4022.481 GHz), WiMAX (3.4-3.69GHz), WLAN (5.15- 5.82 GHz). A multiband rectangular micro strip antenna is designed and fed by micro strip line, which consists of three radiating elements operating in three frequencies at 2.4 GHz, 3.6GHz and 5.6GHz. This antenna is implemented on a FR4-Epoxy dielectric substrate. Its compact size is with operation in wireless local area network and worldwide interoperability for microwave access communication.

DIARY NUMBER: 17597/2019-CO/L

CIPCIS 2019: C-026

COMMUNICATION THROUGH HELMET

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ABSTRACT-

The Project aims at developing medium of wireless communication between two stations, the communication being made secure by encryption and frequency hopping. Wireless communication is one of the most active area of technology development of our time. This development being driven primarily by the transformation of what has been largely a medium for supporting voice telephony into a medium for supporting other services. The demand for new wireless capacity is growing at very rapid space. Although there are of course still a great many technical problems to be solved in wireline communications demands for new wireless for additional wireline capacity can be fulfilled largely with the addition of new private infrastructure such as additional optical fiber, routers, switches and so on. This project provides voice signal to the administrator. This is carried out by exchanging the information between the user transceiver modules.

DIARY NUMBER: 2884/2019-CO/L



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019: C-027

Save your Dreams by one click

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ABSTRACT-

In last few years online recharge apps have been increased rapidly. These apps are mostly used in pay the bills like mobile/ DTH/ Electricity bill to comfort our daily lives. In this project I have tried to develop a app which pay our bill by combining all the cash back / coupons / offer which we will get after successful transaction of the bill from the different website. That can help us to pay our bill without disturbing our bank balance. With the help of different website customer collect cashback of different amount as per his successive transactions. who already complete the process of KYC by adding unique ID like Votar ID / Pan card / Passport / Adhar card, we are linking their all the recharge account with the help of unique ID / Mobile number which used for registration of account. With the help of this combine cashback we can pay our any bill & save our pocket money.

DIARY NUMBER: 758/2018-CO/L

CIPICIS 2019: C-028

P2P Data transfer without PC (pendrive to pendrive data transfer without computer)

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ABSTRACT-

This system pen drive to pen drive data transfer without PC is done by using ARM9 module S3C2440. The pen drives are connected to USB module. The communication between two pen drives is done by using ARM9 modules which are supporting File Transfer Protocol (FTP) using Ethernet accesses. To transfer the data between these modules pen drive with data is connected to USB support and on the touch screen first the user should enter the password to access the data in pen drive after entering password it has two options in it one is view and send. By pressing view we can view data present in pen drive and by using send option we can send data to other module through Ethernet. We can send data in pen drive as well as we can create new document with the quarty keypad present on screen and can send it to other module. The other module receives the data and stores it in pen drive connected to it.

DIARY NUMBER: 627/2018-CO/L



CIPCI 2019: C-029

2D Laser Engraver CNC Plotter

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ABSTRACT-

The robotic X-Y Laser Engraver is robot which offers a fastest way to powerfully produce very accurate engraving. This Robotic X-Y Laser Engraver which is basically centred to the vector graphic device, wherein the robot designs & engraves the input given from the computer on an object or any desired material using atmega 328p microcontroller on a open-source physical computing platform Arduino IDE software. The Laser control is achieved using a relay, and it's motion is controlled by the two stepper motor fixed at the corner of the motor trays on the rectangular casing. This arrangement allows the robot to perform tasks at a good pace and with increased accuracy.

DIARY NUMBER: 17460/2019-CO/L

CIPCI 2019: C-030

MALARIA PARASITE DETECTION USING DEEP LEARNING

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ABSTRACT-

Malaria is a mosquito-borne blood disease caused by plasmodium parasites transmitted through the bite of female Anopheles mosquito. In 2016, World Health Organization reported 212 million instances of disease across the world. Microscopic thick and thin blood smear examinations are the most reliable and commonly used method for disease diagnosis. Thick blood smears assist in detecting the presence of parasites while thin blood smears assist in identifying the species of the parasite causing the infection. According to the official WHO malaria parasite counting protocol, a clinician may have to manually count up to 5,000 cells, an extremely tedious and time-consuming process. In order to help make malaria testing a faster process in the field, scientists and researchers have developed antigen tests for Rapid Diagnosis Testing (RDT). In RDT, a small device is used that allows both a blood sample and a buffer to be added. Internally, the device performs the test and provides the results. RDTs are significantly faster than cell counting but they are also much less accurate.

DIARY NUMBER: 17442/2019-CO/L



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019: C-031

E-Bike Wireless Charging System

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ABSTRACT-

Electrified transportation will help to reduce green-house gas emissions and increasing petrol prices. Electrified transportation demands that a wide variety of charging networks be set up, in a user-friendly environment, to encourage adoption. Wireless electric vehicle charging systems (WEVCS) can be a potential alternative technology to charge the electric vehicles (EVs) without any plug-in problems. This paper outlines the current available wireless power transfer technology for EVs. In addition, it also includes wireless transformer structures with a variety of ferrite shapes, which have been researched. WEVCS are associated with health and safety issues, which have been discussed with the current development in international standards. Two major applications, static and dynamic WEVCS, are explained, and up-to-date progress with features from research laboratories, universities, and industries are recorded. Moreover, future upcoming concepts-based WEVCS, such as “vehicle-to-grid (V2G)” and “in-wheel” wireless charging systems (WCS) are reviewed and examined, with qualitative comparisons with other existing technology of cables and the connectors.

DIARY NUMBER: 17601/2019-CO/L

CIPICIS 2019: C-032

Design and FPGA Implementation of High Speed Vedic Multiplier

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ABSTRACT-

This work is devoted for the design and FPGA implementation of a 16bit Arithmetic module, which uses Vedic Mathematics algorithms. For arithmetic multiplication various Vedic multiplication techniques like UrdhvaTiryakbhyam, Nikhilam and Anurupyeha have been thoroughly analyzed. Also Karatsuba Algorithm for multiplication has been discussed. The whole design of Arithmetic module has been realized on Xilinx Spartan 3E FPGA kit and the output has been displayed on LCD of the kit. The synthesis results show that the computation time for calculating the product of 16x16 bits is 10.148 ns, while for the MAC operation is 11.151 ns. The maximum combinational delay for the Arithmetic module is 15.749 ns.

DIARY NUMBER: 17605/2019-CO/L



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019: C-033

IOT BASED SMART CONTAINER

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ABSTRACT-

Many times there arises a situation in kitchen which contains grain or floor are on verge of completion and working women's are unaware of it. There arises an emergence of ordering that particular item in an abrupt manner. Hence in order to avoid this situation, A microcontroller based system is proposed to make aware an individual and give track of items stored in container. Instead of performing manual exertion of keeping track over item quantity, this system automatically detects with the help of sensors. This smart container can tell individual about its status like whether it is full or empty, by sending a mail. Individual can also monitor the weight of container in real time using web browser, and that's make it as IOT project where one can monitor the container from anywhere using internet. Through a web interface is possible to control the status of smart container. In this system a microcontroller is used to control whole process. Load cell senses the weight of the container. ADC is used to convert Load cell output into digital form. Controller take this value and converts that into weight value. Then the weight value is compared with predefined threshold value using controller, if weight of container goes beyond threshold value then it send mail. The weight can be monitored using Web browser.

DIARY NUMBER: 670/2018-CO/L

CIPCIS 2019: C-034

SMARISA: A Raspberry Pi based Smart Ring for Women Safety Using IoT

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ABSTRACT-

Every day, every women from all walks of life are struggling to be safe and protect themselves from the roving gaze of the horribly insensitive men who molest, assault and violate the dignity of women on a daily basis. The streets, public transport, public places in particular have become the dominion of the hunters. Due to these atrocities that women are subjected to in the present scenario, a smart security wearable device for women based on Internet of Things is proposed. It is implemented in the form of a smart ring (SMARISA) and comprises of Raspberry Pi Zero, Raspberry Pi camera, buzzer and button to activate the services. This device is extremely portable and can be activated by the victim on being assaulted just by the click of a button that will fetch her current location and also capture the image of the attacker via Raspberry Pi camera. The location and the link of the image captured will be sent to predefined emergency contact numbers or police via smart phone of the victim thus preventing the use of additional hardware device/module.

DIARY NUMBER: 17457/2019-CO/L



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019: C-035

Detection of Diabetic Retinopathy Using Deep Learning

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ABSTRACT-

Diabetic retinopathy (DR) is a common complication of diabetes caused by changes in the blood vessels of the retina and one of the major causes of blindness in the active population due to diabetes. Many of the complications of DR can be prevented by blood glucose control and timely treatment. Since the varieties and the complexities of DR, it is really difficult for DR detection in the time-consuming manual diagnosis. This project is an attempt towards finding an automatic way to classify a given set of fundus images into affected and normal eye image. This project uses convolutional neural networks (CNNs) power for DR detection and uses a publicly available dataset of APTOS competition available on Kaggle platform for training these models. The dataset had around 3663 high definition fundus images, each of resolution 4000* 2000. Also the training of model is done on kernel provided by Kaggle because of high number of computations involved and enough resources available for computing them. At the end the algorithm is able to classify the given image into different stages of DR.

DIARY NUMBER: 17451/2019-CO/L

CIPICIS 2019: C-036

Making India Paperless Using Cloud Storage for Documentation

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ABSTRACT-

The ubiquitous nature of the Internet allows most of today's information technology systems to provide services that are of a global scope. As online users enjoy the convenience of global services, data transmission across borders and information privacy becomes an important consideration. Therefore, providing services and systems that are privacy- preserving to users across the regions is a challenging mission. So, what we are experiencing nowadays is digital life, in every day to day life we are dependent on digital way of doing that work. But there is still one case where we are using papers for doing that work which is government documents or any documents educational, medical etc. We have to carry file of documents while we are going for any government work such as for issuing driving license. So we are proposing digital solution on this problem by replacing bunch of documents with just biometric authentication. Java is being used to create web-based and MySQL is used to create the database of the people whose documents we are going to store on the Cloud.

DIARY NUMBER: 17444/2019-CO/L



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019: C-037

Soil Analyzing Tool

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ABSTRACT-

An optical transducer is developed for measuring and detecting the presence of Nitrogen (N), Phosphorus (P) and Potassium (K) in soil. Such transducer is needed to decide how much extra contents of these nutrients are to be added to the soil to increase soil fertility. The N, P, and K value of the sample are determined by absorption of light of each nutrient. The optical transducer which consists of three LEDs as light source and a photodiode as a light detector. The wavelength of LEDs is chosen to fit the absorption band of each nutrient. The nutrient absorbs some of the light from LED and remaining light is reflected by the reflector surface. The photodiode converts the remaining light into voltage. The system uses an ATmega328p microcontroller for data acquisition therefore the output from the transducer is converted into a digital display reading. Further this NPK ratios are compared with the data stored in memory and the suitable crops for that soil sample will display.

DIARY NUMBER: 17449/2019-CO/L

CIPICIS 2019: C-038

Modular Design: A Case Study

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ABSTRACT-

In this paper, concept of modular design is presented. A case study of modular base frame for pump family comprising of centrifugal pumps of 20 hp and 30 hp capacity is also discussed. This modularized structure is simulated using FEA techniques for stress requirements. ANSYS, R11 is used for simulation purpose of base frames including that of existing design for comparison purpose.

It is observed that, design of modular base frame can reduce the material requirement and will reduce the cost of the frame. As modular base frames will be readily available in stock, as and when demand arises, the base frame in stock can be used immediately with certain modifications as required for specific pump capacity. This will reduce lead time/ waiting time during production processes



CIPCIS 2019: C-039

Prediction of Relation between Tool Wear and Temperature during Machining

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ABSTRACT-

Machining operations like turning are having complex parameters which may get affected by many variables. Cutting temperature is the critical parameter which influences the dimensional precision of the components to be machined, along with the functional behavior of machine tool and the life of the cutting tool. The proposed research work concentrates to investigate the relationship between the tool wear and cutting temperature during the machining operation such as turning. Among various factors, tool wear has huge influence on economics of machining. Therefore, awareness of tool wear mechanism and ability to predict tool life is essential in metal cutting. The heat generated in cutting region adversely affects the tool life, surface finish and the dimensional accuracy. Finite elemental analysis is a widely applied way to get information about the phenomena occurring during the machining process. In this research work, thermal analysis is carried out and tool wear is predicted. The relationship between temperature and wear is established using finite element analysis. The paper attempts to introduce some results and compares them with finite element analysis (FEA) outcomes. FEA of high speed steel (HSS) single point cutting tool is done using ANSYS and the corresponding temperatures are measured.

CIPCIS 2019: C-040

Experimental Analysis and Investigation for Thermal Behavior of Ventilated Disc Brake Rotor using CFD

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ABSTRACT-

In recent years a trend towards faster vehicles with powerful engines has developed. Heavy braking force & high retardation leads to high temperature at disc brake. An upper limit on the temperature of the brake assembly is dictated by certain material properties. Hence heat energy has to be disposed of more efficiently. Possibilities of increasing conduction and radiation are restrained by material properties and temperature limits. Therefore the focus is on convection. Different ventilated disc brake rotors are analyzed with CFD and the most optimum ventilated disc rotor is found for automobile industry. Various disc brake designs are used to describe a method for calculating temperatures of disc brakes. For the calculations a CFD code is employed that determines distributions of local temperatures in the flow field as well as on the disc brake rotor. In a ventilated disc brake rotor air must be circulated through the rotor to provide adequate cooling. The passages formed by the radial vanes between the braking surfaces, act as a centrifugal fan, facilitating the required air flow for cooling.



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CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019: C-041

Experimental Investigation of Internal Combustion Engine Performance Parameter for Cottonseed Oil as a Lubricant and Development of Mathematical Model by Semi Empirical Method for Exhaust Emission

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ABSTRACT-

Vegetable oils are promising candidates as base fluid for eco-friendly lubricants because of their excellent lubricity, biodegradability, viscosity-temperature characteristics and low volatility. Vegetable oil lubricants provide a renewable source of environmentally friendly lubricants, relating to the lubricant's ability to biodegrade into harmless products. Recently there has been an increased concern in enhancing the use of biodegradable vegetable oils in lubricants, mostly by environmental as well as health and safety issues, emerging due to changes in economic and supply factors. From the viewpoint of emissions, biodegradable lubricants are expected to behave differently from conventional lubricants, mainly with respect to emissions soluble organic fraction of particulate emissions (SOF). Polycyclic aromatic hydrocarbons, which are absent in vegetable oils, pose a great contingency to human health. Vegetable oils are also low in potential pollutants like sulphur-containing compounds which can damage both environment and catalytic converter. The advantages of vegetable oils as base oil in lubricants as compared to mineral oils are non toxicity, biodegradability, resource renewability, affordable application cost, high viscosity index, and so forth. Vegetable oils are usually much cheaper than ester based oils and therefore provide more potential for the successful implementation as lubricants in base oil. Pure cottonseed oil shows less life if used as lubricant so esterification is done to improve it.



CIPCIS 2019: C-042

Laser Security Alarm System

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ABSTRACT-

In this project we have used laser light to protection area. The laser light goes through extended distance without scattering effect. It is also visible only at source and incident point, then unseen. These two properties allow us to build up a modern security system, which may name as “laser security alarm system”. When any person, body crossover the laser line the alarm will ring and also the LED light will “ON” to focus the arrival of unauthorized person. LASER-Ray goes through long range without scattering effect and the Ray is almost undetectable. The radiation point and incident point is only visible. So by this laser security project we can make an invisible boundary for sensitive area. This system mainly consists of two parts. In which one is transmitter and another is receiver. The transmitter is built with a LASER radiator, a pair of dry cell batteries. At the receiver side, there is a centering LDR (Light depending Resistor) sensor to sense the LASER constantly. The LDR sensor is mounted on a stand and it is connected with the main driver circuit.

CIPCIS 2019: C-043

Experimental investigation of Spot Weld ability of TWIP Steel for Automotive

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ABSTRACT-

Many research has been done on TRIP Steel but because of less elongation i.e ductility ratio it has limitation for automotive structure applications. This limitation of TRIP steel is overcome by the TWIP steel having better strength and plasticity but till today TWIP steel is not used worldwide for automotive structures as it needs to do further research and development.

Experimental investigation of Spot Weld ability of TWIP Steel for Automotive Structures.

Objectives of the Present work:

- (1) An understanding of the influence of microstructure and process steps on the deformation and fracture behavior of TWIP steels.
- (2) Constitutive models that capture the TWIP steel behavior and can be used to perform design analysis.
- (3) An understanding of the influence of weld microstructure on strength and fatigue properties.
- (4) Investigation of weld nugget growth mechanism, micro structure evolution and mechanical performance of similar and dissimilar multi sheet combinations of TWIP steel.



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019: C-044

Automatic Paper Cutting Machine

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ABSTRACT-

The main objective of this project is The demonstration of Cutting and feeding mechanism of paper cutting machine using Arduino. The cutting mechanism involves scissor which is driven by a DC motor using offset shaft. And the feeding mechanism involves the roller which is used to feed the paper using DC motor. Both the DC motors are controlled by using Arduino. This machine is useful for commercial purpose Because Feed and cutting speed can be controlled using Arduino.

CIPICIS 2019: C-045

Numerical Solution of Two Dimensional Rayleigh Benard Convection in Infinite Domain

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ABSTRACT-

The aim of this report is to solve two dimensional Rayleigh Benard convection in an infinite domain. The fluid under consideration is air ($Pr=0.71$) and Rayleigh number is taken as 10^3 . Our numerical method is based on finite volume formulation and iterative conjugate gradient method is used. Boundary conditions used for velocity are zero at bottom plates and periodic at both sides.



CIPICIS 2019: C-046

Jatropha Oil Methyl Ester By Transesterification

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ABSTRACT-

Considering the increasing population of vehicles on roads it has become extremely important to search for alternative fuel. Biodiesel forms one of the alternative to the traditional fossil fuels. Biodiesel from Jatropha oil forms a great alternative for fuel for developing countries like India whose economy mainly depends on agricultural sector. Cultivation of Jatropha crops helps in giving a financial boost to the countries economy since the crop is resistant to drought and pests. Jatropha is the best plant for future biodiesel production. The oil from Jatropha is mainly converted into biodiesel for use in diesel engines. Jatropha can contribute a reduction of upto 25% of carbon dioxide per hectare per year from the atmosphere.

CIPICIS 2019: C-047

RAPESEED – A POTENTIAL FEEDSTOCK FOR BIODIESEL

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ABSTRACT-

One of the main sources of renewable feed-stocks are plant oils. It is important to use the fuels containing bio components from renewable sources. The expected increase in world population to 8 or even 10.5 billion by 2050, combined with significant economic growth in emerging economies will result in substantially increasing energy consumption. To be able to respond to this growing demand, we need to use natural resources more efficiently and increase the use of renewable energy, such as biodiesel. According to the EU Commission bio fuels already in 2005 should reach a 5% share of the total fuel consumption, wherein biodiesel on behalf of its potential will take an interesting position. In Germany, we consider rapeseed as the most suitable basis for FAME, the maximum area to grow rapeseed is estimated at 1.7 million hectares, which means approx. 2 million tons of biodiesel or 8% of today's diesel fuel consumption. For Europe we think in rapeseed and sunflower seed and others, also partly in animal fats and used oils. The main part of the article presents an approximate data for technical and theoretical potentials of renewable energy sources such as rapeseed as biodiesel feedstock.



CIPICIS 2019: C-048

CORIANDER SEED OIL METHYL ESTERS AS BIODIESEL FUEL: UNIQUE FATTY ACID COMPOSITION AND EXCELLENT OXIDATIVE STABILITY

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ABSTRACT-

High fossil fuel prices, energy security concerns, and environmental issues—particularly climate changes have motivated countries across the world to explore alternative sources of energy, such as biodiesel. It is a renewable substitute fuel for petroleum diesel or petrodiesel fuel made from vegetable or animal fats; it can be used in any mixture with petrodiesel fuel, as it has very similar characteristics, but with lower exhaust emissions. With the help of Coriander seeds biodiesel with better oxidative stability can be obtained. Coriander (*Coriandrum sativum* L.) seed oil methyl esters were prepared and evaluated as an alternative biodiesel fuel and contained an unusual fatty acid. It is a rich source of petroselinic acid (C18:1n-12), an important renewable building block, making up 73% of all fatty acids, with also significant amounts of linoleic acid (14%), oleic acid (6%), and palmitic acid (3%). Also reported are lubricity, heat of combustion, and Gardner color, along with a comparison of CSME to soybean oil methyl esters (SME). CSME exhibited higher oxidative stability, superior low temperature properties, and lower iodine value than SME. In summary, CSME has excellent fuel properties as a result of its unique fatty acid composition.

CIPICIS 2019: C-049

HAZELNUT: ALTERNATIVE FUELS USED IN IC ENGINE

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ABSTRACT-

The hazelnut is the nut of the hazel and therefore includes any of the nuts deriving from species of the genus *Corylus*, especially the nuts of the species *Corylus avellana*. It also is known as cobnut or filbert nut according to species. I chose hazelnuts because the nutritious kernels contain over 60% high quality oil, suitable for biodiesel fuel and as a gourmet food ingredient. Soyabeans are currently used for biodiesel production in different countries but contain only 20% oil. Soyabeans are annual plants that have to start with seed germination every year, whereas hazelnuts are perennial and have minimum inputs once the bushes are established. Hazelnut are even used in chocolates, which itself is a source of obtaining biodiesel. Therefore, hazelnut has the potential to be used as an alternative fuel in IC engine.



CIPCIS 2019: C-050

COMPRESSED AIR AS ALTERNATE FUEL TO POWER THE VEHICLES

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ABSTRACT-

The new trends in developing vehicle engine have lead to increase the efficiency of engine reducing the weight of engine too. In today's world there is need to find an alternate fuel to power vehicle so as to decrease the use of fossil fuel which leads to emission of harmful gases increasing the air pollution and global warming and climate change. Also the percentage of fossil fuel available is decreasing day by day. As there is requirement of ultimate clean, no pollution, cheap, more efficient long lasting fuel, compressed air can be used as fuel for vehicle as it satisfies all above requirements. Also the air used is taken from environment and in emission product only air is given out.

CIPCIS 2019: C-051

DIESEL ENGINE PERFORMANCE FOR COTTON SEED BIODIESEL

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ABSTRACT-

The exhaustion of fossil fuels increases the demands of the diesel and uncertainty of their availability has to be considered, which activates the importance for many initiatives to explore the alternative energy sources. Researchers are looking forward to new raw materials, low cost non-edible oil crops materials for biodiesel production. Many researchers have done a lot of experimental studies in the field of biodiesel to find an alternative to mineral diesel. It has shown that cotton seed biodiesel can be used as an alternative fuel in diesel engine without modification. An experimental study was carried out to find out the effect of blends (B10, B15, B20) of cotton seed biodiesel with diesel on engine performance. In this experimental work, raw cottonseed oil was converted by KOH-catalyzed transesterification reaction with methyl alcohol to the cottonseed oil methyl ester (biodiesel) and then tested in a single cylinder, four strokes and direct injection diesel engine at the constant engine speed (2000 rpm) under different engine loads. Results showed that biodiesel obtained under the optimum conditions has comparable properties to substitute mineral diesel, hence, cotton seed oil methyl ester could be recommended as a mineral diesel fuel substitute for compression ignition (CI) engines



CIPICIS 2019: C-052

COFFEE BIOFUEL FEEDSTOCK FOR AN ALTERNATIVE FUEL

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ABSTRACT-

A lot of factors in today's world add up to increase in demand of energy whilst keeping the environment clean and safe for everybody to live and breathe in. The depletion of petroleum reserves and oil resources worldwide and also other conventional energy resources has given birth to need of alternative fuels. Biofuel is the solution to the drawbacks of these conventional fuels. Biofuel is extracted from the lipids of plants and animals. The paper gives a brief review about using spent coffee grounds for the production of a biofuel which can be used as a replacement for conventional fuels.

CIPICIS 2019: C-053

CASTOR NON-EDIBLE OIL FEEDSTOCK FOR BIODIESEL PRODUCTION AND ITS PROSPECTUS

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ABSTRACT-

With increase in the demand of petroleum products the prices of petrol & diesel are increasing world wide. This trend is expected in years to come as the resources are also depleting. Hence alternative sources of energy for running our generators, automobiles etc. are being considered worldwide. The possibility of obtaining oil from plant resources has aroused a great interest and in several countries, vegetable oil after esterification being used as "Biodiesel". The biodiesel can be used as 20% blend with petrodiesel in existing engines without any modification. Both the edible and non edible vegetable oils can be used as the raw materials for the biodiesel. Considering the cost and demand of the edible oils the non edible oils may be preferred for the preparation of biodiesel in India.



CIPICIS 2019: C-054

BIODIESEL PRODUCTION FROM NON-EDIBLE COTTONSEED OIL FEEDSTOCK

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ABSTRACT-

Now a days as we are seeing that consumption of fossil fuels is increasing day by day and these fossils fuels are present in limited quantity on earth surface, With the depletion of oil resources as well as the negative environmental impact associate with the use of fossil fuels, there is a renewed interest in alternate energy source. The biodiesel can be produced by several numbers of feed stocks like vegetable oil, animal fats and yellow greases etc. In present researcher work the cottonseed oil (CSO) which belong to Malvaceae, the marsh mallow family, is converted to biodiesel from Optimizing process using response surface methodology, mechanical stirring technique and Conventional method. Although cottonseed oil was the first commercial cooking oil in the U.S, it has progressively lost its market share to some vegetable oils that have larger production and less cost. However, regarding the active researches on biodiesel production from vegetable oils, there is a promising prospective for the cottonseed oil as a feedstock for biodiesel production, which may enhance the viability of the cottonseed industry.

CIPICIS 2019: C-055

WORKING PHENOMENON OF SIX STROKE IC ENGINE

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ABSTRACT-

A Six Stroke Engine is that in which the power is obtained twice in a cycle of six strokes. This engine generates more power with higher fuel efficiency than the existing engines. As a result a new engine concept is formed, which is a six stroke engine. Lot of research work has been conducted on this topic nowadays. In a typical four stroke diesel engine, Piston moves up and down twice in the cylinder during one rotation of crank. The power stroke is obtained once during the two cycles that generates the torque to move vehicle. In Six stroke engine the power stroke is obtained two times out of six strokes. The automobile industry is now seeking for the best six-stroke design which adds one more power stroke which results more efficiency and better utilization of the fuel. The main advantages of six stroke engine are two power strokes in the six stroke cycle, reduction in fuel consumption by 30-40 percent, dramatic reduction in pollution, adaptability to different fuel operation. Development of Six stroke engines by the automobile industry would have a tremendous impact on the environment and economy. The developed six stroke engines, Beare head, Bruce crows and Velozeta's are undergoing tremendous research works. In this paper the concept, features and the comparative discussion on six-stroke diesel engine is done



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CIPICIS 2019: C-056

Pendrive Storage Display without Connecting to Computer

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ABSTRACT-

In this world of computers, USB drive/pendrives are a very essential component of computer. It is compact and can transfer data faster as compared to the optic disc. It's handy when it comes to transfer data through USB drives/pendrives. As we know that the space used by USB drive/pendrive needs to be checked by connecting to the computer. This seems to be a disadvantage of it. In this conventional USB drives/pendrives that are used nowadays, we simply do not have any idea that how much space the USB drive/pendrive occupies just by observing the drive. So this proposed system says that the USB drive/pendrive should have a display and button to operate the display of the storage of drive. This will help the users to see the free space and also the used space that the USB drive/pendrive occupies without connecting it to PC just by operating the given switch i.e. button (The switch followed by required circuits and dry cells inside the drive.) This technique is totally based on the Mass storage controller and Flash memory. The flash memory used is a type which helps to get back the information or data stored even when there is no power.

CIPICIS 2019: C-057

Flow Chart to Fit a Straight Line Using Least Square Technique

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ABSTRACT-

A flowchart is a diagram that represents a workflow or process. A flowchart can also be defined as a diagrammatic representation of an algorithm, a step-by-step approach to solving a task. The flowchart shows the steps as boxes of various kinds, and their order by connecting the boxes with arrows. This copyright is about the flow chart to fit a straight line using least square technique. It shows the best suited solution for given discrete data. A line of best fit is a straight line that is the best approximation of the given set of data. It is used to study the nature of the relation between two variables. A line of best fit can be roughly determined using an eyeball method by drawing a straight line on a scatter plot so that the number of points above the line and below the line is about equal (and the line passes through as many points as possible). A more accurate way of finding the line of best fit is the least square method.



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CIPCIS 2019: C-058

Lab Manual – Theory of Machine

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ABSTRACT-

Manual is designed considering verification and validation of theoretical fundamentals through experimentation in laboratory. All necessary information is provided in lab manual to cater need of experimentations. Also, to comment as conclusion in comparative way. Objectives of Theory of Machines lab Manual are to impart practical knowledge on design and analysis of mechanisms for the specified type of motion in a machine. With the study of Methods to determine Mass moment of Inertia for different shape bodies experimentally, kinematic analysis of Hooke's joints, rigid bodies motions and forces for the transmission systems, machine kinematics and dynamics can be well understood

DIARY NUMBER: 818/2018-CO/L

CIPCIS 2019: C059

AUTOMATIC LIGHT CONTROLLER USING LDR FOR STREET LIGHTS

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ABSTRACT-

Automatic street light controller is a useful and simple concept that uses LDR and transistor. By using this concept the manual operation of turning ON and OFF of street lights can be avoided. Since LDR is used it acts as a sensor that can detect darkness and switch on the bulb/LED and also after sensing light it can turn off the bulb/LED. This circuit uses Transistor which acts like switch. This concept will help in saving power.



CIPCIS 2019: C-060

Investigation and micro structural analysis of pivot assembly in WAG-09 Locomotive

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ABSTRACT-

Pivot housing called as power transmitting unit in Indian Railway's Loco WAG-9, used to connect the central assembly of the transformer and the two loco bogies. Pivot assembly comprises of various components such as traction link, safety cables, chain, link rod, pivot Housing, ring, retaining plates, and locking tab. The assembly is symmetric on both the sides of the rod. These assemblies comprising of transformer assembly, frame of loco and many other equipments. Bogies are the structures having main power source. i.e motor mounted on them. Each bogie consists of three axle having separate motors. In the present study, failure analysis of one of the components of traction link (Pivot Assembly) is carefully investigated. The reason behind identified failure is systematically analyzed by performing chemical test, mechanical and microstructure examination of the failed component

CIPCIS 2019: C-061

Smart Dustbin

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ABSTRACT-

Smart dustbin is the device which is used to collect garbage with the use of sensors. The sensor detects the movement or existence of object in its range area and opens the cap of the dustbin for specified time and then closes that cap.



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CIPCIS 2019: C-062

Smart Stabilizer

Dumbre S.T.
 SCOE, Belhe

ABSTRACT-

Today in the world, the use of power supply in electronics equipment and gadgets has increased and it is still increasing. These power supplies are not stable as required by these electronics due to tremendous amount of gadgets and some technical fault. This arises the need for the power stabilization as to overcome this problem. Now a days there are multiple types of stabilizer in market but they are bulk and boost types and it have pre-define voltage level at output. They have lots of limitations, so this project handles this problem very well. The embedding of microprocessor chip technology and power electronic devices in the design of intelligent AC voltage stabilizers or automatic AC voltage regulators (AVR) to produce high-quality, stable electric power supply in the event of significant and continuous deviation of mains voltage. As advancement to the conventional relay type voltage stabilizers, modern innovative stabilizers use high performance digital control circuits and Auto transformer control using servo which gives pure sine wave output and allows the user to set voltage requirements through a keypad, with output start and stop facility. It also provide over current protection due to short circuit. Is also protect from hazardous shock due to high voltage using Earth leakage circuit breaker. This stabilizers is low cost with higher Efficiency and better isolation in addition this can be adjusted with variable setting. Nowadays, stabilizers became an optimized power solution to many electronic appliances that are sensitive to voltage fluctuations and they have found working with many devices such as CNC machines, air conditioners, domestic appliances medical equipment, computers, telecommunication equipment's, and so on.

CIPCIS 2019: C-063

Smart Contract for Educational Digital Certificate using Blockchain

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ABSTRACT-

In India Ministry of Education statistics, about one million graduates each year, some of them will go to countries, high schools or tertiary institutions to continue to attend, and some will be ready to enter the workplace employment. During the course of study, the students' all kinds of excellent performance certificates, score transcripts, diplomas, etc., will become an important reference for admitting new schools or new works. As schools make various awards or diplomas, only the names of the schools and the students are input. Due to the lack of effectivity-forge mechanism, events that cause the graduation certificate to be forged often get noticed. In order to solve the problem of counterfeiting certificates, the digital certificate system based on block chain technology would be proposed. By the unmodifiable property of block chain, the digital certificate with anti-counterfeit and verifiability could be made. The procedure of issuing the digital certificate in this system is as follows. First, generate the electronic file of a paper certificate accompanying other related data into the database, meanwhile calculate the electronic file for its hash value. Finally, store the hash value into the block in the chain system. The system will create a related QR-code and inquiry string code to affix to the paper certificate.



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CIPCIS 2019: C-064

Mini Cabinet Saw

**GayatriKailas Medge, Sonia Sanjay Dodke, MadhuriBibhisanPopalbhat,
AishwaryaVadirajPachhapur, OmkarPravinPatil**

ABSTRACT-

Many craftsman faces problems in finding proper and portable cutting tools for miniature craft work. Therefore we intended to make portable mini cabinet saw. We have designed the mini cabinet saw to cut the thin wooden pieces. This cabinet saw is a wood working tool, it consist of electric motor mounted inside the cabinet (box) which drives the circular saw blade (i.e. cutter) projecting through an opening in cabinet's surface. The cutter rotates towards the front of the cabinet, the operator pushes the work into the blade against the direction of rotation.

CIPCIS 2019: C-065

Energy harvesting from human motion and vehicular seat vibration using Piezoelectric Sensors

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ABSTRACT-

In recent years low power electronic devices have been increased rapidly. The devices are used in a large number to comfort our daily lives. With the increase in energy consumption of these portable electronic devices, the concept of harvesting alternative renewable energy in human surrounding arises a new interest among us. In this project we try to develop a piezoelectric generator. That can produce energy from vibration and pressure available on some other term. INTRODUCTION-Now-a-days energy is one of the most important issues around the world. Especially in Developing countries including India energy crisis is a big problem. Renewable energy sources can be a great source to solve this energy crisis problem in these Countries. As we know natural resources will extinct one day. That's why we are trying to introduce substitute energy sources from nature. That must be green and not harmful for the environment. Energy harvesting is defined as capturing minute amounts of energy from one or more of the surrounding energy sources. Humans have already started to use energy harvesting technology in the form of windmill, geothermal and solar energy. The energy came from natural sources, termed as renewable energy. Renewable energy harvesting plants generate kW or MW level power, it is called macro energy harvesting technology.



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CIPCIS 2019: C-066

Smart Backpack

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ABSTRACT-

By using IoT components we are creating a bag. We have an idea of developing a smart bag it is a resourceful way to simultaneously transport and charge laptop and smartphone which includes some features like GPS which helps in live location tracking, we will also provide a solar panel which will charge a battery inside a bag and that battery can be used to charge laptop and mobile anywhere anytime this will give a better ergonomics. The load sensor inside the bag will calculate the weight the bag carry which will be useful to detained the load capacity for childrens, we will also develop a mobile application which will be connected to all this sensor inside the back and all the data will be updated to the application by using android studio. The application will be user-friendly there are many other smart bags available in the market but none of them is connected with an android application. This is our main innovative.

CIPCIS 2019: C-067

Flood Monitoring and Early Warning System Using Ultrasonic Sensor

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ABSTRACT-

The purpose of this study is to develop a real-time flood monitoring and early warning system. Ultrasonic sensing techniques have become mature and are widely used in the various fields of engineering and basic science. One of advantage of ultrasonic sensing is its outstanding capability to probe inside objective non-destructively because ultrasound can propagate through any kinds of media including solids, liquids and gases. This study focuses only on the water level detection and early warning system (via SMS) that alerts concern agencies and individuals for a potential flood event. Furthermore, inquiry system is also included in this study to become more interactive wherein individuals in the community could inquire the actual water level and status of the desired area or location affected by flood thru SMS keyword. The study aims in helping citizens to be prepared and knowledgeable whenever there is a flood. The novelty of this work falls under the utilization of the Arduino, ultrasonic sensors, GSM module, web-monitoring and SMS early warning system in helping stake holders to mitigate casualties related to flood. Indeed, it is relevant and important as per needs for safety and welfare of the community.



CIPCIS 2019: C-068

Self-Powered GPS Mechanism for Smartphone against Misplaced Conditions

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ABSTRACT-

Nodaway's, everyone has smartphone which provide many more essential facility through it including communication and positioning. With smartphone along with the calling feature, navigation and positioning system plays an important role for the location finding of mobile unit. Single unit consists of in-built Global Positioning System (GPS) to enable the location access of mobile unit providing all the security and navigation aspects. As GPS module within the mobile unit is collaboratively working with GPS module and can be powered with the common power source, if this device is lost, stolen or dropped somewhere then the major communication loss, valuable data loss may occur along with proprietary loss. Once mobile unit is misplaced or stolen then GPS system within the mobile unit is responsible for tracing its geographical locations as long as it is powered ON. Nevertheless, if it is powered OFF then its location tracing will not be enabled as because GSM unit is dependently working with the common power source. Suggested perception is based on the concept that will provide position of cell even though mobile unit is switched OFF. An efficient solution to track the misplaced mobile phone can be enabled by providing the bypassing the battery source to the GPS unit along with its own communication module. This GPS unit can separately and independently working irrespective of other mobile phone peripherals by providing the separate power connections from the common battery thereby it would be in working state always without any interruptions.

CIPCIS 2019: C-069

Advanced Microstrip Patch Antenna For Wearable Application

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ABSTRACT-

This paper presents the design of Wearable Micro strip Patch Antenna at the operating frequency of 2.4GHz. This project presents a method of applying the combinational between wearable electronics and antennas. Textile antennas are the most interesting research. In telecommunications, micro strip patch antenna increase in recent years consequently textile antennas are increasingly demanding. Micro strip patch antenna is an ideal choice for integrated into clothes using fabric substrate materials. This project is suitable for the application of the human body. Micro strip patch antennas have more advantages compared than conventional microwave antennas. However, the main disadvantages are narrow bandwidth and low efficiency. Although not possible to eliminate the total limit but there are ways to reduce these disadvantages. At the end, the textile antenna is considered as highly valuable because can use for handy various applications such as for military, medical, emergency services, navigation, and health care.



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CIPCIS 2019: C-070

Patient Health and Saline Monitoring

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ABSTRACT-

In this project a sensor is attached to the patient's body to collect all signals from the wireless sensors and sends them to the base station. They are able to detect heart rate, blood pressure, temperature and so on. This system can detect abnormal conditions, alarm the patient and send an SMS / email to the doctor. The system allows the anesthesiologist to simultaneously monitor and share the Android app through a cloud-based solution to handle multiple patients in parallel. The main advantage of this system is it reduces energy consumption and safety. The Android app can connect multiple patients at once, so the anesthesiologist can easily follow different surgeries in parallel. In addition, automatic monitoring of the proposed saline level consists of level sensors that are used to determine the status of the liquid in the bottle, either normal or alert. The detection of saline drop rate is quite reliable. The output obtained from the sensor is processed to verify that the saline bottle is empty.

CIPCIS 2019: C-071

IOT Based Smart Solar Pole System

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ABSTRACT-

The development and endorsement of correspondence headways and the remote IoT ends up one of the most broadly perceived sorts of advancement in the late decade. Actuators and sensors can sense information, process and communicates by methods for web inside a framework is known the Internet of things (IoT). The smart pole is a combination of many states, actuators and sensors realized to distinguish information from veritable conditions inside a framework. The intention of utilizing the solar system is to reduce the cost of energy by replacing all of the traditional lamps with LED (Light Emitting Diode) lamps than to increase the economic benefit of using the solar-powered LED lights. In this research paper, the researcher will look deeper into how to decline control dissolution and IoT based lamps structures are accomplished with internet. The conventional light consists of Wi-Fi module, various sensors and controller for energy estimation and item credentials. There belongs an important monitoring station need to control and screen the pole. Public conveyance, energy consumption, and total population are expanding at extraordinary rates, smart pole can dispose of these difficulties by utilizing data and Communication innovation to convey feasible economic advancement and higher eminence of life. While drawing in citizens and successfully handling natural resources.

Keywords—Solar System, IoT, Wi-Fi, Web based control, Cloud account, Intelligent On/Off switching.



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CIPICIS 2019: C-072

MVP Krushi Basket

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ABSTRACT-

Farming is known as the backbone of the Indian economy. Nowadays organic farming has shown high growth due to an increase in demand for organic crops. As various chemicals and pesticides are utilized in farming this causes harmful effects on human health. To overcome this problem we are developing an e-community of farmers and customers named “MVP KRUSHI BASKET” using the latest technology available in the market to encourage “VishmuktaSheti”. So connecting technology and farming for growth of farmer as well as the health

consciousness of human beings. We are developing an E-commerce platform for selling organic crops. E-commerce platform consists of a customer section where customers can buy organic crops, farmers section where the farmer can list their crops on the app. As Technology is concerned we are using the platform such as Android as the number of android users are continuously increasing.

CIPICIS 2019: C-073

Disaster Management System for Smart Cities using IOT

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ABSTRACT-

Disaster-LINK is a smart IoT device that acts as an alarm and monitoring system during natural disasters that operates by communicating over internet. It comes with Wi-Fi support for internet connectivity and uses an IoT cloud platform which helps to control, monitor and manage the device. The device senses its local environment using onboard sensors and send early warnings to family, friends and colleagues immediately when it finds a disaster situation. It is also able to receive such warning alarms from other similar devices available on the internet and provide the user with voice, flashing light, SMS and E-mail alarm notifications. The Device Should be able to recognize the disaster in real time and send the notification in real time.



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019: C-074

Intelligent Parking System-PARCARE

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ABSTRACT-

Many metropolitan cities face common issue of parking management which is a root cause of up growing pollution. Parking issue has always been major problem faced by every zone. In populated areas, numbers of vehicles are more than number of parking space. In such situation, finding a vacant space for parking is time consuming which leads to congestion. To overcome such issues, various researches are done and implemented using various sensor techniques. Various techniques and methods have been proposed using various kind of sensors, wireless and wired techniques. The literature survey gives glance on smart parking systems. Various studies evolved using machine vision, ultrasonic sensors, and deep-learning. The proposed system targets to develop a system which contributes in solving major problem of finding vacant space for parking. The proposed system is a purely a software-based system which will allow end users to book their parking slots prior. Real-time analysis and booking of slot is the main goal of the system. The system targets to save manual time, paper work, congestion control and leads to more automation. The system aims to make effective platform for user's real-time application.

CIPCIS 2019: C-075

Energy Generating Shock Absorber Shoes

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ABSTRACT-

There are two main application of shoes running and walking which is done by many people in their day to day life .My project will make this application more helpful as I have made an energy generating shock absorber shoes. Which can generate electricity while walking and running. I have also used shock absorber which will increase comfort of walking and running. Shock Absorber is mechanical device used to reduce shock impulses caused due uneven surface. Energy is generated by using gear and generator motor mechanism. It is stored in battery for further use. The shock absorber used in this project is magnetic shock absorber which works on simple magnetism principle that "Same Pole Magnet Repel Each Other And Opposite Pole Magnet Attract Each Other". As magnetic shock absorber will require less maintenance and also shock absorption power will be more. The shock absorber can be made water proof which will make it safe in rainy season. This project is done for increasing future scope for energy generation. It will also decrease future injuries of knee and back that is caused due to running. It is a new idea and people will get attracted as it is generating energy while walking and also giving them more comfort. It will also beneficial for old people having problems of knee and back. The project is cost effective and designed for attracting youth.



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019: C-076

Soil Quality Monitoring Using IOT and Machine Learning

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ABSTRACT-

Internet of Things (IOT) technology has brought revolution to each and every yield of common man's life by making everything smart and intelligent. IOT refers to a network of things which make a self-organizing network. The development of Intelligent Smart Farming IOT based device is day by day turning the face of agriculture production by not only enhancing it but also making it cost-effective and reducing wastage. The aim of this work is to propose a Novel Smart IOT based Agriculture Stick assisting farmers in getting Live Data (Temperature, Soil Moisture) for efficient environment monitoring which will enable them to do smart farming and increase their overall yield and quality of products. The Agriculture stick being proposed via this paper is integrated with IOT Technology, Breadboard mixed with various sensors and live data obtained from sensors. The second part of this work is to design a smart water distribution for plants, it is also work based on soil temperature as well as based on moisture of soil.

CIPCIS 2019: C-077

IOT Based Home Automation Security and Safety System Using Smart Phone Application

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ABSTRACT-

The main purpose of the smart helmet is to human safety. This smart helmet works on ultrasonic sensor which sense the speed of object and nearby vehicles and alerts user with fast response. This System also has the fall detection system which helps to notify about the accident to the family and emergency contacts. In this power supply will provide the power to the all the devices connected to this system. Sensors will sense the defined parameters according to their specs (E.g. Fall detection, nearby vehicles or objects coming) and provide this information to the microcontroller. Microcontroller will do the necessary calculations and will give commands to the output devices connected to the system. GSM module helps to send the notification to the emergency contacts through SMS.



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CIPCIS 2019: C-078

Transaction Theft Prevention using Face Detection and Shuffled Keyboard using Machine Learning

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ABSTRACT-

With the popularization of on-line trying, dealing's fraud is growing seriously. The study on fraud detection is attention-grabbing and vital. A significant manner of police investigation fraud is to extract the behavior profiles (BPs) of users supported their historical dealing's records, thus to verify if associate degree incoming dealing is also fraud or not ocular of their bits per second. Markov process models unit widespread to represent bits per second of users, that's effective for those users whose dealing's behaviors unit stable relatively. The Markov process model unit is unsuitable for the illustration of these behaviors. The proposed system has got an inclination to propose a logical graph of BP (LGBP) that will be a complete order-based model to represent the relation of attributes of dealing's records. Supported LGBP and users dealing are records; the system tends to area unit able to cipher path-based transition likelihood from associate degree attribute to a distinct one. Here the system tends to area unit able to realize Face by pattern Viola-Jones and LBP acknowledge formula for face detection as the system tends to use shuffled keyword sequence for authentication of OTP, the keyword sequence modification once. At constant time, the system has got an inclination to stipulate associate degree knowledge entropy-based diversity constant thus on characterizes the variability of dealing's behaviors of a user. The system has got an inclination to also track fraud users with location by mackintosh address of the user laptop or computer that has last dealing's successful. Besides, the system has got an inclination to stipulate a state transition likelihood matrix to capture temporal choices of transactions of a user. Consequently, the system tends to area unit able to construct a BP for each user thus uses it to verify if associate degree incoming dealings are also fraud or not. Index Terms - Behavior profile & e-commerce security, Face Detection, Shuffled Keyboard Sequence.



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019: C-079

Demonstration Of Decomposition Of Rice Paddy By Enzymatic Activity

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ABSTRACT-

India, the second largest Agro-based economy with year-round crop cultivation, generates a large amount of agricultural waste, including crop residues. In the absence of adequate sustainable management practices, approximately 92 seems a very small number of metric tons of crop waste is burned every year in India, causing excessive particulate matter emissions and air pollution. The main adverse effects of crop residue burning include the emission of greenhouse gases that contribute to global warming, increased level of particulate matter (PM) and smog that cause health hazards, loss of biodiversity of agricultural lands, and deterioration of soil fertility. However, the alarming rise of air pollution levels caused by crop residue burning in the city of Delhi and other northern areas in India observed in recent years, especially in and after the year of 2015, suggest that the issues is not yet under control. Burning of rice straw emits greenhouse gases such as methane and nitrous oxide. To overcome this problem small technique can be developed of enzyme production. As Cattles (cows, buffaloes, goat etc.) have high strength to digest rice paddy to form cow dung, because of enzymes that are present in their body. Near about 23 millions tones of residue which is burnt in paddy fields every October-November. This can be reduced by decomposing it on the field itself, by using same digestion protocol as herbivores which would also help to make land more fertile as well.

CIPCIS 2019: C-080

2-D LASER ENGRAVER CNC PLOTTER

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ABSTRACT-

The robotic X-Y Laser Engraver is robot which offers a fastest way to powerfully produce very accurate engraving. This Robotic X-Y Laser Engraver which is basically centred to the vector graphic device, wherein the robot designs & engraves the input given from the computer on an object or any desired material using atmega 328p microcontroller on a open-source physical computing platform Arduino IDE software. The board is fed with polargraph server arduino based program which is required for the accurate diagram, and thus with the aid of processing software (version 1.0.5) in which polargraph libraries are uploaded, the robot starts engraving. The X-Y robotic laser engraver, as the name suggests has a two axis control (i.e. X and Y axis). The Laser control is achieved using a relay, and it's motion is controlled by the two stepper motor fixed at the corner of the motor trays on the rectangular casing. This arrangement allows the robot to perform tasks at a good pace and with increased accuracy.



CIPCIS 2019: C-081

Automatic Assessment of Depression Level prediction on Visual Cues using deep learning

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ABSTRACT-

Automatic depression assessment based on visual cues is a rapidly growing research domain. The present exhaustive review of existing approaches as reported in over sixty publications during the last ten years focuses on image processing and machine learning algorithms. Visual manifestations of depression, various procedures used for data collection, and existing datasets are summarized. The review outlines methods and algorithms for visual feature extraction, dimensionality reduction, decision methods for classification and regression approaches, as well as different fusion strategies. A quantitative meta-analysis of reported results, relying on performance metrics robust to chance, is included, identifying general trends and key unresolved issues to be considered in future studies of automatic depression assessment utilizing visual cues alone or in combination with visual cues. The proposed work also carried out to predict the depression level according to current input of face images using deep learning as well as Google API.

CIPCIS 2019: C-082

Floodert System using IoT

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ABSTRACT-

Dam overflows are a constant accident throughout the year to the United States and all over India. There are various methods of alerts are available such as the Emergency Broadcast System or sirens, none of these can alert a user in an efficient manner. The main design goal of this project is to provide a real-time system which is able to monitor sudden floods in dam lots. Creating a personal alert that could reach up to end user through their mobile phone. The system defines two types of nodes are Sensing and Sink. Each sensing node uses a hydrostatic pressure sensor to monitor the water levels. The sink node is then used to sending the received data from the sensors to a remote server through mobile communications network (GSM). Accurate database of users and flood levels will then be processed by the server, which sends users an alert that will reach to mobile phone as a text message (SMS). India has agriculture as its primary occupation. In India 58% of the people living in rural areas are dependent on agriculture. This is for planning and strategies to use the water carefully by utilizing water in proper way. The food production needs to be increased by minimum 50% for the population growth. Agriculture needs to be 85% of freshwater consumption globally. This leads to the water availability problem and make proper water management.



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CIPCIS 2019: C-083

Artificial Noise Detection and Alarming System to Save Forest Reserves

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ABSTRACT-

For decades, law enforcement organizations have increasingly utilized their network to stop the illegal acts like tree cutting and animal hunting to respond accordingly. In foreign countries they already developed a vehicle which contains few electronic and digital equipments to detect and locate the source of gunshot in order to reduce the crime rate in respected area. As per formal design, we achieve only gunshot sound which help law enforcers but in addition to that we modify in order to get the artificial noise detection of chain saw, gunshot and off-road vehicles to know about activities like tree cutting and hunting of animal in forest reserves. In this 21st century, we invent, modifying and researching many more things even we are developing a lot than this before then also we are unable to predict and prevent the crime before it takes place. even our law enforcers doing there best to get all information relevant to that by using human network as well as using technology to reduce crime rate as much as possible. This technology provides detail information in two regards as follows :-

- 1.It detects the artificial noise based on audio information which has been caught by microphone and through algorithmic processing.
 - 2.Then as per demand it gives us the exact co-ordinates of same location.
- With respected to the concept some devices and projects has been done but unfortunately those are only for reducing the rate of crime.
 - Apparently till today no one done this before to develop an interconnected system for saving the source of our oxygen and also the animals in forest reserves.
 - As per our proposed system, tree cutting as well as saving the animals in the forest reserves will successfully accomplishes and automatically the rate going to increase.



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019: C-084

Employability Skills- A Kano Analysis

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ABSTRACT-

In the highly competitive and changing environment, it is very much needed to remain employable. Various studies and survey reports, the low employability of management students. Employability is defined by many authors and list of employability skills also varies. As an important stakeholder of education system, it is very much needed to find employers' expectations from the candidates in terms of skills and personal qualities for entry level employment in different functional areas of management. With the help of Kano model, how much skills have an impact on satisfaction level of employers can be found out. The research study is of diagnostic type having inferential approach. The two distinct schedules of Kano questions were executed on 134 faculties and 76 employers. The data analysis was done with the help of Kano methodology and hypothesis testing was done with the help of Chi-Square test. From the research it has found that the preference for employability skills requirement (must be, one dimensional, attractive) are not having uniform preference for functional areas of management. The preference for skills requirement does differ with respect to functional areas of management. Although employability skills does work in unified manner but their immediate preference or priorities are different as per functional areas of management. This research has categorized employability skills and personal qualities with respect to Kano attribute categories. The resulted outcomes are depicted in the form of Kano Model as per functional areas of management. Keywords: Employability, skills and traits, Kano model, Employers perception, Faculty perceptions



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CIPCIS 2019: C-085

Sound Prohibited Zone For Smart Cities

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ABSTRACT-

Now-a-days noise pollution is the major problem for society. Honking by vehicles has become a main cause of noise pollution in society this leads to health related hazards, irritation or impatient and accidents. As the number of vehicles are extremely increased day by day which results in traffic jams, dangerous and rough drivers and even accidents. Mostly hospitals, schools old ages homes, baby care centers are situated near roadside. The patients, old peoples, babies and the students are having adverse effect on health due to honking of vehicles. Automation of the horn control of vehicle is one of the most essential needs. Controlling sound level of horn of vehicles based on location is an important task. To develop an embedded module to reduce noise intensity of horns automatically when the vehicle enters in the targeted areas. The aggressive honking of the horn from the vehicles treading on a road is a major source of noise pollution and is highly undesirable and irritating. The many effects related to this problem including stress, depression and other physical and mental ailments which needs at most attention from the society. This system consists of two modules, one is Software Module (Android App) and other is Hardware Module. The Software module consists of Database Server and an Android App which has GPS tracker and Admin section. The GPS helps to discover the various location data. The targeted locations such as hospitals, signals, old age homes, baby care centers are extracted from the database server. The output of this system will result in an embedded module which shall benefit the residents of societies located near the high traffic roads, students studying in schools located in the vicinity of busy roads, patients admitted in the hospitals located on the roadsides. At the Traffic Signal where some drivers starts honking without waiting to turn the signal to green. Many of the drivers Shows No care or respect about people which required peaceful environment. As the smartphones are easily available with low cost, drivers are familiar with many of the applications. So this technology can be used which will benefited society. Our work aims at developing the disincentive measure for unwanted honking by developing a real time (smart) honking system which enables the vehicles on the road to reduce intensity of horn near schools, hospitals, old-age homes, baby care center and other workplaces which are adversely affected. The decibel levels of Sound are constrained in regulations but there is no tool to measure and control in real time. To develop an embedded system to reduce a noise intensity for reducing noise pollution.



CIPCIS 2019: C-086

DESIGN AND TESTING OF LIGHTWEIGHT SANDWICH T- JOINT OF COMPOSITE MATERIAL USING FEA AND EXPERIMENTAL TECHNIQUES

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ABSTRACT-

Presently a large amount of research is going on with the objective to strengthen the technological basis for the large scale application of fiber reinforced composite materials for naval vessels and structures. Fiber reinforced composites are widely used in naval ships and aerospace, ground transport, civil infrastructure because of their high strength and stiffness, low mass, excellent durability and ability to be formed into complex shape. Naval superstructure need to be designed with confidence on the basis of modeling and failure prediction. Fig shows a typical T-joint used in naval ships. It gives an illustration of a T-joint. It consists of a horizontal base panel, a vertical leg panel and fillet and over laminates. The purpose of the fillet is to provide the continuity of the load transfer between the base panel and the leg. The over laminate is used to enhance the capacity of the T-joint. Reduction of weight and increasing strength of the T-joint is one of the objectives. Performance testing of composite sandwich T-joints subjected to both static and dynamic loading commonly used in large panels for naval applications becomes very important. Adhesively bonded T-joints have been extensively used in assembling sandwich structures made from glass fiber reinforced plastic skins and a balsa wood core in naval vessels. The advantage of adhesive bonded joints over bolted or riveted joints is that the use of fastener holes in mechanical joints inherently results in micro and local damages to the composite laminate during their fabrication. The aim of this work is to investigate the behavior of composite T-joints used in marine applications due to variation of different parameters.



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019: C-087

BIO OIL EXTRACTION FROM THE ORGANIC FRUIT WASTE (KAGELIA AFRICANA)

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ABSTRACT-

This invention and project report describes the extraction of biomass from the fruit *Kagelia Africana* which is a renewable source and which has received attention due to various characteristics, particularly its low cost and wide availability. The produced biomass can be converted into biooil by means of different processes, for example reductive combustion, liquefaction, pyrolysis and gasification. The use of biomass is particularly interesting when it involves waste products like *Kagelia African* which is in abundance available and has potentials for the energy sources. The invention disclosed the production and extraction of Biooil from biomass of *Kagelia Africana* fruit. The extracted oil from *Kagelia Africana* which is dark brown in colour and almost black liquid. The characteristics of oil has smoky odor, whose elemental composition is analogous to that of the biomass from which it derived. An important way to reduce processing costs is the use of wastes as carbon sources. This research also tries to upgrade the income source of the farmers so that they can be produce and sell out bio oil by the methodology available in this report. We are reported that the oil yield getting from seeds of this fruit is yield up to 11%. This bio-oil blended as per standard process. This formed biodiesel results are in limit as per standard, so this bio-diesel can be used as fuel. The trees of *kigeliaafricana* can grow in any favorable condition. So this study is very beneficial for the farmer they can plant this tree at boundary of farms. One more advantage is that after oil extraction remaining waste can be used for the composting. Economic up gradation of the farmers in Maharashtra is considered by the governmental and governmental agencies which may useful to the farmers.



CIPCIS 2019: C-088

Smart Plant Nursery Management System using AI & IOT

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 R. Tajanpure**

ABSTRACT-

Nursery management system can be useful to overcome a lot of challenges coming in the farming and nursery field. Physically every operation is not possible to perform smoothly. Therefore, it is need of today to implement technology in this field. We are using technology like, Augmented Reality, Machine Learning, IoT in this project. Here multiple operations like, managing nursery, handling operations, accounting, online sales & shopping will become easy and under one roof. Installation of data into Nursery Management System is done by ceating nursery databases with pre-processing for effective use. It c an be developed with the assistance of nursery owners, specifically with the Wholesale Nursery Industry. Nursery Management System help you manage your business by better efficiencies within your nursery, making use of the many modules available in the software. Nursery Management System is user friendly and accepts the hard work out of running your business by fixing up facilities to remember all the things that are important to your business. Nursery Management System collects important data and useful data, accesses information, targets markets, increases staff productivity and improves customer's satisfaction. Nursery Management System reduces multiple databases, manual integration, IT costs and administration overheads.

CIPCIS 2019: C-089

Secure and Energy Reconfigurable CryptosystemArchitecture for Video Application on FPGA

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ABSTRACT-

Use of cryptosystem architecture in video application reduces wide complexity. To enhance security the combined work of public key and private key cryptography referred. The aim is to generate stream ciphers which ensures privacy within communication channel. When we move towards LTE and Mobile applications the size and method for generation of stream ciphers have extent importance. Stream ciphers can be generated simply from pseudorandom sequence generator. Efficient way to produce stream cipher is implementation in hardware such as FPGA. In this paper we are interested in LTE systems and different architecture, algorithms are used for their implementation. The architectures used in LTE mainly follow 3GPP confidentiality algorithm 128-EEA3 and 3GPP integrity algorithm 128-EIA3. On above which SNOW3G and ZUC stream ciphers are dependent. Since all above mainly consider in beyond 3G applications.



CIPCIS 2019: C-090

IOT Based Home Automation Security and Safety System Using Smart Phone Application

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ABSTRACT-

We are using concept of home automation in our system. Along with home automation, we are providing some additional features of security as well as safety. This Home automation is everything that make the easiest lifestyle of people. This paper gives a detailed hand on IoT and how it can be implemented. Home automation with security and safety using a micro-controller based NodeMcu and Android mobile application.

CIPCIS 2019: C-091

Driverless Metro Train

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ABSTRACT-

Nowadays the modern technologies are helpful in all aspects of our life. Due to this lots of development done in the field of transportation. In the previous years, with the use of regular metro train accidents occur due to various reasons like the fault of the driver, signal errors and another major problem is, the human-operated metro train has no control over time, mean inaccuracy in time which affect the railway network management system. To solve this problem we have a new concept of the driverless metro train. Driverless metro train improving the management system of the railway network, reduce human errors, consume less power and it provides comfort and safety to passengers during traveling.



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019: C-092

MULBOTICS

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ABSTRACT-

There are multiple types of robot that are used in security, spying and other applications. Basically a robot is a virtual artificial agent or mechanical or electro-mechanical machine that is guided and given commands through a computer program or electronic-circuitry. In case for security, spying i.e. raw agency and other some areas involve a great risk and hence those task must be performed by robots. The proposed intelligent robot with camera and other special functions can be operated remotely for monitoring and controlling purpose. Android will be used as advance remote controller for the robot which will be connected through Bluetooth with android phone. The Android provide access to wide range of libraries that can be used to build rich applications and also includes full set of tools that provides high productivity and deep insight for the applications. The Wi-Fi and Bluetooth is open standard specification technology for radio frequency which is directly based on short range connectivity that helps in wireless communication. The data which will be received through Bluetooth in android smart phone is given as input to controller and hence controller will act accordingly.

CIPCIS 2019: C-093

SOPC BASED CONVOLUTION ENCODING AND VITERBI DECODING

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ABSTRACT-

Viterbi decoder is a basic and important block in any Code Division Multiple Accesses (CDMA). Convolution encoder and Viterbi decoder are widely used in communication system due to error correcting capability. Its performance degrades for variable constraint length. This Project deals with the implementation of convolution encoding and Viterbi decoding using SOPC for variable constraint length of 7, 8, and 9 bits. By analyzing the Viterbi algorithm it is seen that our algorithm has a better error rate for 1/2 code rates



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CIPCIS 2019: C-094

Agriculture Pooling Using Blockchain

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ABSTRACT-

Blockchain and decentralization are rapidly becoming household words and promises to solve many problems related to the lack of trust. Currently the farmers perform traditional practices of sharing the agricultural resources which are purely based on mutual trust between two parties. There is no governing mechanism to avoid betrayal and the system to be self-sustaining. The inherent properties of this digital technology provide fault-tolerance, immutability, transparency and full traceability of the stored transaction records, as well as coherent digital representations of physical assets and autonomous transaction executions. Using this system, we overcome the drawbacks of the traditional system and provide a new, innovative system. This platform will be easily accessible and user friendly which will solve the current issues of lack of resources in farming. Hence, we propose "Agriculture Pooling using Blockchain". Agriculture Pooling using Blockchain technology, provides a means to ensure permanence of records regarding shared resources between farmers and potentially facilitate the sharing of data between disparate actors in an agricultural chain. This potential may lead to an exciting paradigm shift facilitating transparency and trust in these chains that ensures integrity of agricultural resources. Resources such as land, tractor, handheld tools can be pooled between users of the system with the help of smart contracts. Implementing blockchain in this system would help in maintaining logs of the contracts between users as well as any actor would not be able to deny any transaction which he has already completed. This will help in establishing transparency within the system. When it comes to blockchain based DApps, there are two main elements involved. While the front end is same as the traditional applications, the backend is formed in the form of a Blockchain. The communication between the frontend application and the backend application happens in the same form as in the traditional application and the end user would not be able to distinguish between both. In the case of using a decentralized application, it is very tough to bring any application down or hack into any system as it requires to take down all the distributed hosting nodes which are practically not possible. In our day to day lives, we put our data as well as trust in hands of centralized applications that function with the help of typical servers, databases or standalone computers. This approach allows one single authority to have control over all of the data and everything we do on these applications thus, putting our privacy at risk. On the other hand, the Blockchain network runs on a community-based model which operates in a distributed model.



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019: C-095

Analysis and Visualization of Privacy Policies of Online Services

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ABSTRACT-

In this digital world, everything is getting online this made user-information a vital asset. A service provider needs to communicate a user that, how this data is handled while serving to their request. Approximately 2,610 words with a median of the 1,828-word count are present in the average privacy policy. Communication about services, terms, and conditions from service provider to service user is done through a legal document known as Privacy Policy. It is an informative document, covering many aspects like user information, Data collection way, storage duration of data. But this information is written in the form of technical terms and very difficult to find the exact part from a vague document. These difficulties in reading force user agreement without reading the privacy policy. This information about how data is gathered, the way of collection, its management and the purpose of data collection is specified in a privacy policy. In order to give complete understandability of data handled by a service provider, privacy policies should be readable and should not be vague. Hence, this project elaborates on how user awareness can be increased about privacy by providing an analysis tool that uses visualization techniques. This project also focuses on issues and challenges faced by the users' side. This is mainly because of structureless and lack of a clear description of users' privacy. This project also presents our research on utilizing machine learning to analyze privacy policies and solutions to visualize them. Project is a website that analyses privacy policies. The analysis will give a summary and highlight different clauses in privacy policy such as Access, Choice, Collect, Cookies, Purpose, Retention, Security, and Share. The website will show a visual representation of privacy policy clauses which will help the user understand policy via graphical representation. The output will be simple and understandable language. Readability score will be calculated on the complexity of policy ranging from 1 to 10. It will also provide a similar safe alternative for the given website. It is a privacy awareness tool not a privacy protection tool. Its primary focus will be on Indian websites. Missing clauses will be highlighted. Machine learning algorithms will be trained on Indian policies corpus data and then test data will be the privacy policy of the targeted website. Privacy policies will be compared to a standard format, showing deviation from the standard format. Particular segments will be color-coded making it easier to distinguish segments.



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019: C-096

Solid Dessicant assisted Air-Conditioning System

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ABSTRACT-

Science is universal; but, technology depends upon local conditions. Air-conditioning is the widest application of refrigeration technology, in which achieving comfort conditions with the use of renewable energy or waste heat with minimal carbon footprints is a major challenge. Air-conditioning plays a vital role in establishing healthy and productive comfort conditions in buildings. Air-conditioning system has to offset the space sensible and latent heat loads efficiently; to maintain specified temperature, humidity, air purity and quality, as per the comfort of occupants or processes / products in the conditioned space. Poor indoor air quality is responsible for the number of physical symptoms' which makes occupants uncomfortable. Uncontrolled moisture present in conditioned air is responsible for the development of fungi and bacteria, which causes spoilage of products and affects the health of the occupants. Salts accumulated on dirty surfaces in air-conditioning ducts gives rise to development of mould and fungus, which affects the life of air-conditioning equipments / system and quality of indoor occupants. Many applications like library, museums, supermarkets, surgery rooms etc. require low temperature and low humidity in the range of 40 to 45%. In solid desiccant assisted air-conditioning system, dehumidifier wheel is used to dehumidify the outside process air (ventilation air). Desiccant dehumidifier wheel having honeycomb structure is impregnated with desiccant material; usually silica gel or activated alumina, constantly rotates between two separate air streams. The first air stream called process air stream, is dehumidified by the desiccant wheel. The second air stream, called reactivation air or regeneration air stream is heated and passed through the desiccant wheel, which dries the moisture captured by the desiccant wheel. Moisture present in the outside process air is removed at the desiccant wheel and then allowed to pass over the cooling coil. When desiccant wheel is integrated with the conventional cooling coil, heat recovery unit is generally used in tandem with it to preliminarily cool the dry and warm process air stream before being allowed to pass over the cooling coil. In this way; the latent load is taken care by the desiccant wheel while; the conventional vapour compression based cooling coil need to offset the sensible heat. Consequently, the operating temperature and pressure of the (cooling coil) evaporator is more and; also, it is not necessary to maintain low apparatus dew point temperature (ADP) in the cooling coil even at hot and humid climatic conditions for achieving the low humidity ratio of the conditioned air. The objective of this research work is to design and develop solid desiccant assisted hybrid air-conditioning system with high coefficient of performance.



CIPCIS 2019: C-097

Protection of Multimedia Document using Digital Video Watermarking Techniques

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ABSTRACT-

In the digital world, piracy becomes a very common word today. Piracy is illegal acquisition, copying or distribution of copyrighted material. A person or a group who does piracy is known as pirate. Maximum occurrences of copyright violation and piracy happen for video media content. Video piracy can be done in many ways at various points in multimedia formation to its delivery. At the time of creation, illegal or duplicate copies are burnt without the knowledge to producer. At the time of distribution or delivery when the movie is decoded and displayed, it can be copied either by screen capture software's or using camcorder which is known as camcorder piracy or exhibition capture piracy. Current technologies like cryptography and Digital Right Management (DRM) can control access to contents but cannot prevent all possibilities of theft. Digital Watermarking is coming up as a promising tool in the effective use of digital watermark it must be imperceptibly added as copyright information, reliably retrieved even from its degraded copies and secure against illegal removal. Initially video watermarking was simply considered as an extension to image watermarking. However video watermarking has its own problems and challenges like, video quality, computational complexity of compression algorithms, during video transmission, frame drops are very usual. If watermark spreads over many frames, in case of frame drops, watermark may become irretrievable. Making a robust watermark under this circumstance is challenging. The primary goal of this work is to Design highly robust, blind, imperceptible digital video watermarking methodology to perform copyright protection and piracy detection to secure multimedia data. Overall goals of this work are as follows : 1. Design a watermark generation module, which will generate unique watermark for each customer as per the inputs like time stamp and location information. 2. Design watermark embedding methodology to embed generated watermark in input video with fast processing and preserving size of original video, imperceptibly and robustly. 3. Design watermark extraction methodology to extract watermark from watermarked video with blind methodology. 4. Design position estimator for digital cinema to track position of pirate using extracted watermark. 5. Test the robustness of the system for various synchronous and asynchronous like geometric attacks, frame averaging, frame swapping, compression, camcorder attacks.



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CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)



CIPCIS 2019: C-098

Digital Image Stegaanalyzer Using Ensemble Classifier

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ABSTRACT-

Steganography is an art of hiding secret data behind the digital images for covert communication. This could be done by different Steganographic techniques like frequency domain, spatial domain. Hiding the data in digital images may change its statistical properties through which the analyzer gets the track for revealing the covert communication. Proposed work is to develop Universal Steganalysis Algorithm to identify the presence of hidden information in image, based on IQMs as well as identify the Steganography embedding domain using Multi- class Discriminator, which takes digital image as an input and conclude not only the presence of hidden information but also the domain/method used for hiding information.

CIPCIS 2019: C-099

AN APPRATUS FOR CONDUCTING EX-VIVO STUDIES ON TISSUES

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ABSTRACT-

This present invention provides an apparatus for conducting ex-vivo studies on tissues. Particularly, present invention provides an In-Vitro continuous dissolution absorption system.



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019: C-100

BELL PEPPERS

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ABSTRACT-

The online food ordering system provides convenience for the customers. It overcomes the disadvantages of the traditional queuing system. This system increases the takeaway of food than visitors. Therefore, this system enhances the speed and standardization of taking the order from the customer. It provides a better communication platform. The user's details are noted electronically. The online food ordering system set up menu online and the customers easily place the order with a simple mouse click. Also with a food menu online you can easily track the orders, maintain customer's database and improve your food delivery service. This system allows the user to select the desired food items from the displayed menu. The user orders the food items. The payment can be made online or pay-on-delivery system. The user's details are maintained confidential because it maintains a separate account for each user. An id and password is provided for each user. Therefore it provides a more secured system.

DIARY NUMBER: 15229/2019-CO/SW

CIPCIS 2019: C-101

DELISHO' CRAVINGS

ISHA SAWANT, SAYALI KULKARNI, MEGHA SHINDE
PCCOER, RAVET

ABSTRACT-

The software to be produced is 'DelishO'Cravings' that is based on daily Expense management of money and profit/loss calculation. The application is designed for a small scale food business (chaat vendor). In the software the owner will be able to set the per plate food (chaat) item cost. The number of orders updated or cancelled can be incremented or decremented by a click on '+' and '-' buttons. The total cost of each food item will be seen after saving the total number of orders per day. The software shows the daily gain of each food item and the total revenue of the orders. The application also consists of profit or loss calculation on daily expense and revenue basis. The update costs option is available which will update the per plate cost of each food item if required in future.



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019: C-102

RSOCIETMASTER

RASIKA DHANDE, VISHNU PANIKAR, KAILAS KENDRE, SACHIN PATEKAR

ABSTRACT-

Daily life in city areas has important things to deal with housing society management. Our day to day needs such as Water supply, Electricity, Security and many more things which directly or indirectly plays the vital role in residential life, comes under Housing Society Management. In most of the cases, Society management practices a traditional way of communication. This certainly has some limitations and disadvantages. Daily notices, monthly meetings, cultural events, miscellaneous contacts for daily needs, security alerts, high priority communication and many others which may not be conveyed properly in current scenario as most of the things are getting handled manually. It lacks transparency. To overcome the problems occurring due to this time lagging manual system, an automated system needs to be developed to reduce the human efforts.

DIARY NUMBER: 15218/2019-CO/SW

CIPICIS 2019: C-103

Tracking User History

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ABSTRACT-

The software to be produced is used to manage user history effectively . Here the students are the users of the software. The student will log in into the browser. Then the student will redirected to the desire page. The admin, in can monitor the what student is surfing through internet . Admin can block and unblock the user as per requirements .Once the student close the browser , student automatically logout of system . After student logout admin can see the usershistory.Admin also can block and unblock the student, which can restrict the students for safe browsing. This stores student, member, Roll no, Department, and class. It also provides the facility of search & advanced search for searching the records efficiently & immediately. This system provides data storing with graphical user interface (GUI).The system is useful to the college which manually measure the objects. Using this browser they can easily observe and see the students that are using the internet in college.

DIARY NUMBER: 15222/2019-CO/SW



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019: C-104

MEDDIE

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ABSTRACT-

The software to be produced is to record personal medical history of the user. The app is for all type of users, that is everybody can use this app. In this app, the user can store the medical record and the doctor he visited and keep track of the medical records. Our app completely replaces the medical file system and reduce paperwork. The records are stored digitally by the user itself in the app. Our app also provides the feature to keep medically relevant notes in the notes section of our app. App searches the hospitals near your current location. We have also provided the link of the most visited health –blog , ‘helthline’.

DIARY NUMBER: 15213/2019-CO/SW

CIPCIS 2019: C-105

MILK DAIRY

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ABSTRACT-

This Project Report entitled to “MILK DAIRY” .The main objective is to making app for customers and shopkeeper handling it easily and purpose of this app to stored backup details of customer and app which is in android. actually the overall process of this app is that whenever customer buy products from dairy then shopkeeper add details of customer, its name , product which he purchase, its price, total paid, unpaid .all bill generation done by this app. Record of customer views at any time which must in a dairy. There are various products like Milk, Butter, Shrikhand, Curd, Ice-cream are available in the dairy. If new Customer are added then he can paid bill at next time.

DIARY NUMBER: 16027/2019-CO/SW



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CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019: C-106

STAY FIT MASTER

JITEN ADAV, AKASH SHINDE, NEERAJ KUMAR YADAV, KAPIL SHARMA

ABSTRACT-

The software to be produced is on 'Gym Management System'. In the software the users will be provided with various facilities and the Gym trainer will be able to notify each users profile and health chart. The software is provided with a user details in which the user can create his own account and be a member of the Gym. After the successful login it reverts to the home page in which user can set his goal and will be able to view his weekly schedule. The navigation drawer consists of creating users weekly schedule where user can enter the exercise on daily basis. It consists of a list of muscles and every muscle contains different types of exercise. It consists of a user details in which user can change the password, update the profile picture and also height and weight which affects the bmi of the user. It has the facility of Google maps in which the location of the gym is provided and it takes you to the gym from your current location which helps the fresh users of the gym. It consists a block of feedback in which you can apply feedbacks related to the gym and will be reverted to the gym owner. It has the facility of pop up notifications in which owner can provide any sort of notification to all the users.

DIARY NUMBER: 15204/2019-CO/SW



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019: C-107

Title: Mission India : “A 5-Trillion Dollar economy”

Dr. Harish U. Tiwari
Principal, PCCOER, Ravet

ABSTRACT-

PM Modi has said he wants India to become a \$5 trillion economy by 2024. It is currently at \$2.8 trillion and will have to double the GDP by 2024 [1]. Finance Minister Nirmala Sitharaman, in her budget speech, said in the current fiscal, India's economy will grow to become USD 3 trillion economy, sixth largest in world. The minister had emphasised the need for structural reforms for achieving USD 5 trillion economy [2]. The Modi government has underlined its priorities in the first 50 days of its second term, setting sights on making India a USD 5 trillion economy and hitting the ground running on spurring growth [2]. Two persons in the know of the government policy making said the dispensation truly feels that transformative changes can be brought about only through economic growth and inclusive development [2]. There is huge potential in India and very soon it can emerge as a 5 Trillion \$ economy. To reach 5 Trillion \$ economy, we need to shift our perspective from policy to projects. If this is to happen at pace, then following measures can be taken. IPR must evolve in a big way.

1. All engineering students final year projects must be innovative and must be registered for patent.
2. Conferences can be arranged where inventor and Investor/Industry should be brought together in view of commercialization of patent.
3. More than 8 lakh engineer pass out every year, thus 2 lakh projects are created on an average. So all these patents must be patented.
4. There should be concession in patent filing fees for the students.
5. Women involvement in GDP contribution should be increased.
6. Student should start contributing from Early age.
7. Our export should be increased by developing substitution for imported patents.

DIARY NUMBER: 13865/2019-CO/L



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019: C-108

Harish Temperature Scale for the measurement of degree of coolness/coldness with new unit degree Harish ($^{\circ}\text{H}$)

Dr. Harish U. Tiwari
Principal, PCCOER, Ravet

ABSTRACT-

An objective of the work is

1. To establish a separate unit which is used to measure the rate of coolness
2. To provide a scale which will be user friendly for all the educated and non-educated ones in the field of Refrigeration and Air Conditioning
3. To enhance the utility of refrigerating devices
4. To overcome the confusion while calculating coolness

The subject matter described herein relates to a temperature scale which will be used to measure the rate of coolness. This scale can be marked with reference to any of the presently used temperature scale. The increase of cooling will increase the figure on the temperature scale.

Another objective of the present subject matter is

1. To convert prior used temperature scale to coolness scale.
2. To select two reference temperature to define a coolness measuring scale.
3. To divide the difference between the two reference points into equal number of divisions.

In yet another embodiment of the present subject matter, marking of the figures on scale can change according to the application of the scale.

DIARY NUMBER: 4195/2019-CO/L



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS2019: C-109

Design and FPGA Implementation of High Speed VedicMultiplier

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ABSTRACT-

This work is devoted for the design and FPGA implementation of a 16bit Arithmeticmodule, which uses Vedic Mathematics algorithms. For arithmetic multiplication various Vedic multiplication techniques like UrdhvaTiryakbhyam, Nikhilam and Anurupyehas been thoroughly analyzed. Also KaratsubaAlgorithm for multiplication has been discussed. the whole design of Arithmetic module has been realized on Xilinx Spartan 3EFPGA kit and the output has been displayed on LCD of the kit. The synthesis resultsShow that the computation time for calculating the product of 16x16 bits is 10.148 ns, While for the MAC operation is 11.151 ns. The maximum combinational delay for theArithmetic module is 15.749 ns.

DIARY NUMBER: 17605/2019-CO/L

CIPICIS 2019: C-110

Biometric Authentication for Pen drive

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ABSTRACT-

In case we loss our pendrive or forgot our pendrive there is risk of loosing our personal data to someone else. Cyber crime can also be done in that case using anyones personal data .If we provide the Biometric authentication to pen drive, the data in it can not be used by anyone else. Thumb print of user using bio metric will activate Pen drive and only then it can be accessed. If pen drive is lost , No one else can access the personal data. Crime using any data can be reduced. Such kind of invention will give security of the device along with privacy of data .



CIPCIS 2019: C-111

Distance indicator and High efficient camera for Train

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ABSTRACT-

Damage due to train accidents when Trains on same Tracks .To provide a clear vision of track and indication of Train by ultrasonic sound. The ultrasonic sound reflects from obstacle and indicates about the availability of Track.Camera is provided to see the clear vision on Track. Minimization of Rail accidents.

CIPCIS 2019: C-112

Photoluminescence Band For Directing The Path In Tunnel And Airport Runway

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ABSTRACT-

One of the root causes of accident in tunnel is due to non clear vision of path.To overcome this problem at present electricity is being used. However if at times electricity is unavailable or to save electricity alternative solution can be provided with the help of Photoluminescence band. Also the Photoluminescence band can be used on Airport runway during night time for clear path vision to the pilot while landing the airplane on runway. This Phenomenon is not used as yet in tunnels and on Airport runway .If Electricity is not available at Night then it becomes difficult for landing. Photoluminescence band can be applied on inner wall of Tunnel and along the path. Similarly we can use this Photoluminescence band on runway so that at landing during night time pilot can have clear vision of the path on runway for safe landing. Photoluminescence material absorbs photon and emits light as a result it glows. Once the photons are absorbed it remain continuously in glowing state In dark the Photoluminescence band will glow and shows the exact path along which the vehicle should be travelling avoiding the possibility of accident due to non clear vision. This system is truly effective for indication of path in Tunnel & airport Runway. Photoluminescence band is cost efficient as compare to utilization of electricity, So Reduction in the electricity consumption will be there and Minimization of road and Airport runway accidents can also be achieved.



CIPCIS 2019: C-113

Niche based E-commerce platform – HealthCare Sector

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ABSTRACT-

E-commerce refers to buying and selling of goods and services using internet. In last decade, it has grown enormously, making life more convenient for consumer and opening new opportunities for traditional businesses. In healthcare sector, many sub-segments rise-up like:-Online pharmacy, Personal health management, Fitness and wellness, Home health care, Diagnostics, Health care IT, BioPharma, DentoXpert

So, basically we are focusing on dental products and equipments.

Traditional Business Pattern –



We are changing it for Customer-



We are providing Platform as B to B as well as B to C.

So, basically we are providing three Platforms –

1. Informative app
2. E-commerce App
3. Vendors Stock Management

Informative app includes: Blogs, News Articles, Workshop Updates, Trade Fair, Conferences

With the help of this app, customer will get regular Updates regarding workshops, conferences, news article, trade fair, etc. These will be Beneficial for building relationship with Customers, and providing them regular updates. We will also can conduct our conference with Stalls and kiosk system. E-commerce App: This will be our principal platform from where all the transactions occur. In this app, we are going to manage: Product listing, Payment Transaction, Logistics, Customer Cart. Vendor Stock management App: This will be helpful for Distributors to maintain Baseline Stock, when it will be emptying soon then we will notify them to fill it before emergency. It will be beneficial for them to maintain stock as well as for us to provide them product.



CIPCIS 2019: C-114

Domestic Refrigerant Compatible With Phase Change Material

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ABSTRACT-

Since PCM must be chemically and thermally stable over a large number of freezing/melting cycles to be applicable for thermal energy storage in refrigerators, PCM selection for refrigeration systems is discussed as an important issue. Moreover, influences of some parameters such as PCM thickness and phase change temperature of PCM on the performance of refrigeration systems are reviewed. The advantages and drawbacks of using PCM in the evaporator, condenser, compartment section and compressor are evaluated. Using PCM at the evaporator section minimizes the fluctuation of compartment temperature and provides stable conditions against thermal load variations. Since incorporation of PCM at the evaporator increases the compressor running time initially and raises the condensation temperature, several investigations were performed to incorporate PCM at the condenser section. With an alarming rate of rise in the use of refrigerators, along with their total electrical consumption in today's world, the application of PCM on refrigerators looks like a viable measure to increase the efficiency of refrigerators and reduce the energy consumption.

DIARY NUMBER: 19869/2019-CO/L

CIPCIS 2019: C-115

Copyright Format of wireless military surveillance robot

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ABSTRACT-

The proposed security solution hinges on our novel integration of cameras and motion detectors into web application. Raspberry Pi operates and controls motion detectors and video cameras for remote sensing and surveillance, streams live video and records it for future playback. This research is focused on developing a surveillance system that detects strangers and to response speedily by capturing and relaying images to owner based wireless module. This Raspberry Pi based Smart Surveillance System presents the idea of monitoring a particular place in a remote area. The proposed solution offers a cost effective ubiquitous surveillance solution, efficient and easy to implement. This project will also present the idea of motion detection and tracking using image processing. This type of technology is of great importance when it comes to surveillance and security. Live video streams will therefore be used to show how objects can be detected then tracked. The detection and tracking process will be based on pixel threshold.



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019: C-116

NOTE TO NOTE EXCHANGER

Miss. Nalawade Shweta Pradip , Miss. Kadlag Nikita Uttam, Prof. M.G.Chinchole
Department of E&TC, SPCOE, Oturt, Pune

ABSTRACT-

Requirement of Notes in a day to day transaction has increased; we have to suffer a lot for the change in various public places like bus station, railway station, malls, parks, even in rural areas. So we thought to develop an exchanger machine which will give us notes instead of note. There are lots of techniques to detect the Indian currency. Our idea is to implement a system at public places which is smaller, lighter and easy to use. With the help of UV LED and photodiode we can detect whether note is fake or real. If note is real camera takes picture of it and find's out its value using image processing technique and then according to the value it gives equivalent number of notes as per users choice.

DIARY NUMBER: 20058/2019-CO/L

CIPICIS 2019: C-117

IMPLEMENTATION OF DIGITAL SYSTEM FOR COLLEGE MANAGEMENT

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ABSTRACT-

As we know that the demand of current era is "DIGITISATION" so we focused on technical basis in a innovative way of making campus digitized. The major aim of project is to ease the hectic schedule of student, faculty department by using IOT system. The basic idea is to have three systems namely "timetable section, alert section and security section". A Digital Campus system will allow teachers to automate all work teachers want to do on regular basis using one card & android application. with the help of IOT, we develop Smartphone application on android phone to monitor and record all the data on google spreadsheet.

DIARY NUMBER: 20057/2019-CO/L



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)

CIPCIS 2019: C-118

Text Document Classification

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ABSTRACT-

Text Classification is an old problem in the field of Computer Science, Research as well as Library Science. Assigning a document a class, based on the content inside the document is what text classification means. Classification helps us to structure, organize and maintain huge amount of data, which helps us in easy retrieval of data whenever required. Document Classification is assigning a pre-defined tag to a file which eventually helps in organizing the file in a better way. It can be achieved by applying various text pre-processing techniques, classifying algorithms and finally preparing the result i.e. assigning a tag that suits the document. Classification requires extracting high level features from the list of vectors. There are lot of algorithms available for classification of a document such as naive bayes algorithm, Support Vector Machine, TF-IDF etc. But among these deep learning can prove to be the best if the amount of data is large. Neural Networks provides a scope for improving the accuracy of the document as the data provided is increased. So we will use neural networks in our project. Extracting the features from a document and converting the features into vectors can be a tedious task if the document provided is very large. This problem of extracting the data from huge document can be reduced, by selecting a certain amount of data from the document and then classifying that data to generate the results. By the end of this Project we will achieve a system which will take a text document as an input classify the document to a predefined class according to the contents inside the document and providing the result to the user.



CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPICIS 2019)

CIPICIS 2019: C-119

Solid Desiccant assisted Air-Conditioning System

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ABSTRACT-

Science is universal; but, technology depends upon local conditions. Air-conditioning is the widest application of refrigeration technology, in which achieving comfort conditions with the use of renewable energy or waste heat with minimal carbon footprints is a major challenge. Air-conditioning plays a vital role in establishing healthy and productive comfort conditions in buildings. Air-conditioning system has to offset the space sensible and latent heat loads efficiently; to maintain specified temperature, humidity, air purity and quality, as per the comfort of occupants or processes / products in the conditioned space. Poor indoor air quality is responsible for the number of physical symptoms which makes occupants uncomfortable. Uncontrolled moisture present in conditioned air is responsible for the development of fungi and bacteria, which causes spoilage of products and affects the health of the occupants. Salts accumulated on dirty surfaces in air-conditioning ducts gives rise to development of mould and fungus, which affects the life of air-conditioning equipments / system and quality of indoor occupants. Many applications like library, museums, supermarkets, surgery rooms etc. require low temperature and low humidity in the range of 40 to 45%. In solid desiccant assisted air-conditioning system, dehumidifier wheel is used to dehumidify the outside process air (ventilation air). Desiccant dehumidifier wheel having honeycomb structure is impregnated with desiccant material; usually silica gel or activated alumina, constantly rotates between two separate air streams. The first air stream called process air stream, is dehumidified by the desiccant wheel. The second air stream, called reactivation air or regeneration air stream is heated and passed through the desiccant wheel, which dries the moisture captured by the desiccant wheel. Moisture present in the outside process air is removed at the desiccant wheel and then allowed to pass over the cooling coil. When desiccant wheel is integrated with the conventional cooling coil, heat recovery unit is generally used in tandem with it to preliminarily cool the dry and warm process air stream before being allowed to pass over the cooling coil. In this way; the latent load is taken care by the desiccant wheel while; the conventional vapour compression based cooling coil need to offset the sensible heat. Consequently, the operating temperature and pressure of the (cooling coil) evaporator is more and; also, it is not necessary to maintain low apparatus dew point temperature (ADP) in the cooling coil even at hot and humid climatic conditions for achieving the low humidity ratio of the conditioned air. The objective of this research work is to design and develop solid desiccant assisted hybrid air-conditioning system with high coefficient of performance.

DIARY NUMBER: 18675/2019-CO/L



CIPCIS 2019: C-120

Selection of best cover image from a database of cover images for improved imperceptibility in Image steganography using Genetic algorithm

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ABSTRACT-

The data transfer through internet has seen tremendous increase in past couple of decades. This increase in data traffic over the internet has given rise to many data security related issues. To address this problem cryptography was invented but it makes the existence of covert communication quite evident. Hence steganography was invented and used, to hide the existence of secret communication. Steganography is the art and science of invisible communication. In steganography the secret information is hidden in a cover media to camouflage the existence of covert communication. In this copyright we propose a new approach for image steganography which is extremely secure and can embed huge amount of data. This approach uses genetic algorithm to select best possible cover media out of thousands of options to hide the binary secret information so that resultant stego media has huge similarity with original cover media. This will result in better data embedding and will reduce the suspicion aroused by any eavesdropper.

DIARY NUMBER: 20046/2019-CO/L

CIPCIS 2019: C-121

Analysing Real Time Big Social Data and Modelling Emotions in Social Media (Twitter)

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ABSTRACT-

Supposition examination is a dynamic field of common language preparing. It is an approach to recognize the frame of mind, perspective, or feelings of the individual towards an item, administration, motion picture, and so forth by examining the suppositions and surveys common via web-based networking media, writes, etc. Different web-based life stages, for example, Facebook, Twitter, etc enable individuals to share their perspectives with other individuals. Twitter become the most well-known internet based life stage that enables clients to share data by method for the short messages called tweets on a continuous premise. A huge number of individuals communicate with one another simultaneously and an enormous measure of information is created in seconds.



CIPCIS 2019: C-122

Plastic, Metal and Paper Industry Waste Segregation

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ABSTRACT-

Industry waste management is one of the problem that world is facing today. It causes various problem such pollution, health problems etc. Solid-waste management, the collecting, treating, and disposing of solid material that is discarded because it has served its purpose or is no longer useful. Improper disposal of municipal solid waste can create unsanitary conditions, and these conditions in turn can lead to pollution of the environment and to outbreaks of vector-borne disease—that is, diseases spread by rodents and insects. Currently there is no such system for segregation of paper, plastic and metal, this system will help us separate the paper, metal and plastic and this system will also provide the measures to properly dispose them and recycle them. This system will promote sustainable development, which is responsible interaction with the environment to avoid degradation of various resources and it will also allow long term environment safety. This paper gives automation to separate solid waste from industry (paper, metal and plastic). The system will consist different container where paper, metal and plastic will be collected and it is informed to various recycling company using a mobile application.

CIPCIS 2019: C-123

TO DEVELOP AN APP FOR THE NAVLAKH UMBRE GRAM PANCHAYAT

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ABSTRACT-

The Navlakh Umbre Gram Panchayat is located in Talegaon at Pune District. The app provides different facilities such as alerting people by sending SMS, adding yojanas by the admin. It also contains a photo gallery which consisting of various events held at different occasions in the village. The app constitutes of Gram Panchayat body, their positions and their contact no. The app is provided with two types of languages English and Marathi. People can contact doctors at the time of medication through the app. People in the village can also contact Primary and Secondary teachers in the village.

DIARY NUMBER:16028/2019-CO/L



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CONFERENCE ON INDIAN PATENTS, COPYRIGHTS, INNOVATIONS & STARTUPS (CIPCIS 2019)



CIPCIS 2019: C-124

TO SUPPLY ELECTRICITY WITH PROPER CONSUMPTION DETAILS & CORRECT BILLING AMOUNT

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ABSTRACT-

In India as we till the early of the 2019, almost each and every house has electricity. But does the electricity board get the exact or proper billing amount as per the units of electricity that is been consumed by the customers...??? Still in many parts of India, the houses and companies have still not paid the electricity bills of the last few years. The houses that are not been used (closed) or eventually shut down do not actually need electricity, but still electricity is been provided over there.

DIARY NUMBER:12215/2019-CO/L

CIPCIS 2019: C-125

LAB MANUAL Of Computer Networks with Programs and Output

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ABSTRACT- This document contains lab material of Computer Networks Lab of Third Year of Computer Engineering (2015 Course), SPPU. With the help of this material students will be able to demonstrate LAN and WAN protocol behavior using Modern Tools. Students will be able to analyze data flow between peer to peer in an IP network using Application, Transport and Network Layer Protocols. This document contains demonstration of basic configuration of switches and routers also student can develop Client- Server architectures and prototypes by the means of correct standards and technology.



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