



**SILICON VALLEY
INTERNATIONAL
INVENTIONS FESTIVAL**

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Official Catalogue

USA, California, Santa Clara

28-26 July 2024





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**IFIA
INTERNATIONAL
FEDERATION OF INVENTORS’
ASSOCIATIONS**

Dear Participants, Visitors, and Esteemed Members of IFIA,

It is with great pleasure that we welcome you to the 3rd Silicon Valley International Invention Festival (SVIIF), organized by the International Federation of Inventors’ Associations (IFIA).

As a participant in the Silicon Valley International Invention Festival (SVIIF), you will have the opportunity to leverage the extensive support and resources available through this festival to enter the American market and further develop your invention.

SVIIF was created to publicize state-of-the-art inventions around the world and provide a unique opportunity for inventors to receive internationally recognized awards of excellence as a result of their efforts. This festival serves as a unique gateway between East and West for inventors and investors to promote products and cultivate markets across borders.

SVIIF stands as a beacon of innovation, bringing together inventors, innovators, and pioneers in cutting-edge technologies from around the globe. This festival serves as a unique platform to showcase state-of-the-art inventions, providing invaluable exposure for inventors who seek to commercialize their creations and establish a significant presence in the American market.

Participants will have the exceptional opportunity to network and engage with entrepreneurs from diverse corners of the world, presenting their latest inventions, innovations, and technologies. The collaboration fostered here is set to inspire groundbreaking developments and forge lasting partnerships.

We are honored to have the support and patronage of renowned organizations such as the World Intellectual Property Organization (WIPO) and the United Inventors Association of America (UIA). Their involvement underscores the global importance and recognition of this event.

As we embark on this exciting journey together, I encourage each of you to take full advantage of the opportunities presented at SVIIF. I hope that all participants will find this event satisfying and enriching. May this festival be a catalyst for your success, driving forward the spirit of innovation and entrepreneurship.»

Thank you for your participation and enthusiasm.

**Sincerely Yours,
Alireza Rastegar
President, International Federation of Inventors’ Associations (IFIA)**



**WIPO
World Intellectual
Property Organization**

Message to the organizers and participants of the Silicon Valley International Festival – SVIIF 2024

I would like to congratulate the International Federation of Inventors Associations (IFIA) for organizing the Silicon Valley International Festival (SVIIF 2024) from July 26 to 28, 2024, in Santa Clara, California. This event brings together innovators from across the world to showcase their state-of-the-art inventions and access a network that supports their commercialization.

The World Intellectual Property Organization (WIPO) is committed to provide support to innovators to bring their ideas to market. We are therefore delighted to join America’s largest innovation exposition as co-patron, continuing our long-standing collaboration with IFIA.

WIPO, in cooperation with its member states, supports researchers, inventors, and entrepreneurs in creating, protecting, and managing intellectual property rights through Technology and Innovation Support Centers (TISCs). Over 1500 TISCs have been established to date in over 90 countries around the world. TISCs offer services including access to and assistance in using technology databases, IP search and analytical services, and assistance and advice in IP filing, management, licensing, and commercialization.

We have established world-class reference sources accessible at no cost through its WIPO INSPIRE platform to provide innovators with information and knowledge and the opportunity to interact with experts on a range of subjects, including patent databases, patent registers (as a source of patent legal status information), patent analytics, and technology transfer.

WIPO also plays a global leadership role in using IP analytics to drive economic growth and to support researchers, innovators, and entrepreneurs. This includes the biennial WIPO Technology Trends (WITT) flagship publication delivering data-rich IP analysis alongside relevant scientific literature, policy and economic impacts, and discussion from domain experts, as well as WIPO patent landscape reports exploring patenting trends in particular technology areas. These analytical publications provide a factual evidence base to inform policy discussions, strategic research planning or technology transfer. WIPO also delivers

patent analytics training modules and provides various methodology resources to support researchers, innovators, and entrepreneurs who wish to undertake this type of IP analysis themselves, including how to do this using free, open source tools.

WIPO connects innovators with international research institutions, partners, and investors, opening avenues for collaboration and market entry. Comprehensive assistance in technology development is provided through partnerships that facilitate prototyping and demonstration of inventions in relevant environments. Expert strategies are proposed for market access and effective technology licensing, ensuring innovators navigate these complex processes successfully. Additionally, support is given through resources to negotiate licenses, investment deals, and research collaborations, as well as crucial guidance and resources for creating spinouts, transforming inventions into viable businesses.

One of our flagship initiatives is the Inventor Assistance Program (IAP), which levels the playing field for inventors and small businesses with limited resources who have great ideas but struggle to turn them into valuable patented assets, by providing them a volunteer patent attorney or agent who helps them navigate the patent system at no cost and protect their inventions in their own countries and foreign markets. We are happy to note that the International Federation of Inventors' Association (IFIA) is one of the IAP sponsors. I would like to thank Mr. Alireza Rastegar, President of IFIA, for their support to our Program.

I wish SVIIF 2024 every success.

Marco M. Alemán
Assistant Director General
World Intellectual Property Organization (WIPO)



UIA
United
Inventors
Association

Dear Inventors, Participants and IFIA Members,

Welcome to SVIIF 2024 !

I would like to personally thank all Event Personnel and the IFIA Team along with President Alireza Raster whom put this exciting innovative event together. We sincerely welcome you all to this great gathering and to the United States of America.

We are thrilled to have innovative minds from around the world joining us for this exciting event.

Your creativity and passion for invention inspire us all, and we are eager to see the groundbreaking ideas and technologies you bring.

Thank you for being a part of this global meetup. Lets create, collaborate, and innovate together.

Warm regards,

Carmine Denisco
President
United Inventors Association



John J. Calvert
President of the Jury

Dear Participants, Visitors, and Esteemed Members of IFIA,

It is Honor that I welcome you to the 3rd Silicon Valley International Invention Festival (SVIIF), organized by the International Federation of Inventors' Associations (IFIA).

Each exhibitor in the Silicon Valley International Invention Festival (SVIIF) will bring with them their innovative spirit. They will be showing some of the newest inventions. Each person or team will have the opportunity to leverage the support and resources available through IFIA and this festival to enter the American market and further develop their invention.

SVIIF is a juried event that will provide an opportunity for inventors to receive internationally recognized awards of excellence as a result of their efforts. These awards are used to help publicize state-of-the-art inventions around the world. This festival also provides an opportunity for inventors and investors to promote products and cultivate markets across borders.

The SVIIF jury will be looking for new innovation from inventors, innovators, and pioneers in cutting-edge technologies from around the globe. The platform of SVIIF allows for the showcasing of state-of-the-art inventions; it provides invaluable exposure for inventors who seek to commercialize their creations and establish a significant presence in the American market. The collaboration of participants provides for groundbreaking developments and forges lasting partnerships. Inventors, innovators and pioneers in cutting edge technology are provided with the opportunity to network and engage with entrepreneurs from diverse corners of the world, presenting their latest inventions, innovations, and technologies.

I want to thank the World Intellectual Property Organization (WIPO) and the United Inventors Association of America (UIA) for their involvement. Their presence underscores the global importance and recognition of this event. I also want to thank the members of the jury for their difficult task of evaluating each innovation or invention as to the individual merits of that being exhibited.

Each member of the jury looks forward to this exciting journey. We look forward to exchanges with each of you and encourage you to represent your innovation well. Take full advantage of the opportunities presented at SVIIF. What you present and the way you present it can be a catalyst for your success, driving forward the spirit of innovation and entrepreneurship.»

Thank you for your participation and enthusiasm

John J. Calvert
President of the Jury

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Armenia

National University Architecture and Construction of Armenia (NUACA)

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Address: 105 Teryan Street, Yerevan 0009, Republic of Armenia



Invention ID: AM - 32

Inventor(s):

Ashot Mkhitarian

Invention Title:

Drilling Router Structure for Aboveground Drainage.

Invention Description:

The invention relates to the field of construction, in particular, to guide drilling rigs for onshore drilling rigs. The guide drilling rig for surface drilling consists of a housing and holes made on it, in accordance with the invention, the holes are made in one horizontal row.

Category:

C) Building – Architecture – Civil Engineering – Construction – Materials – Woodwork



Invention ID: AM - 33

Inventor(s):

Vardges Grigoryan

Invention Title:

Mold for Concrete Structures.

Invention Description:

The invention relates to construction, in particular to the manufacture of concrete and reinforced concrete products. The mold has a bottom, front, back and side walls attached to it, and an opening and closing lid.

Category:

C) Building – Architecture – Civil Engineering – Construction – Materials – Woodwork

Canada

Toronto International Society of Innovation & Advanced Skills (TISIAs)

www.tisias.org

info@tisias.org

+1 647 673 1012

Address: Toronto, Canada



Invention ID: CA - 001

Inventor(s):

Bob Huybrechts

Invention Title:

VERSACRYL: HEAT-SENSITIVE MOLDABLE MULTI-PURPOSE DENTURE ACRYLIC "BITEM" (Biocompatible Intraoral Thermo-Elastic Acrylic Material)

Invention Description:

Acrylic adjustable by heat from warm water – a thermo-elastic acrylic has received regulatory approval from Health Canada and Health Australia, the FDA Approval, and CE Mark in Europe. BITEM can be used for any part of a dental appliance and it is adjustable simply by using warm water. It can be used by patients to adjust their own fit and control comfort level of their dentures.

Category:

M) Medical Technology – Medical Engineering – Medicine – Hygiene



Invention ID: CA - 002

Inventor(s):

Avia Annemarie Lee, Anthony Alphanso Lee / The FlipNDrip Server™

Invention Title:

Combined Salad Bowl Drainer.

Invention Description:

The FlipNDrip Server's two bowl design and high-end kitchen quality, inspires those who see it to want one for themselves. Great convenience, a wonderful gift and time saving compliment for kitchens and food tables everywhere. A patented, two bowl serving system great for home, cottage, camping use and more. The FlipNDrip Server™ makes rinsing, straining and drip-drying of foods, sink optional. Its stainless steel bowls comes in a variety of vibrant colours, is table ready for serving salads, pasta, fruits and more. It's an all in one simple system, which eliminates the need to search for a strainer or another bowl.

Category:

F) Housekeeping – Nutrition



Invention ID: CA - 003

Inventor(s):

Daniel Moonsuk Chang, Leo Daewook Kim

Frank Boyong Yoo, Vio Sungho Won / University of Waterloo

Invention Title:

SMART RACQUET.

Invention Description:

Athletes seek performance enhancement. The proposed system uses vibration sensors to detect ball impact on the racquet head. This data is compared to an "ideal stroke" and visually presented to the user. The Smart Racquet captures and stores impact data, which is later transferred to a PC for processing. The software then produces a diagram showing the accuracy of hitting the racquet's "sweet spot" over time, allowing users to adjust their swing for improvement.

Category:

L) Games – Sports – Hobbies



China Association of Inventions (CAI)

www.cainet.org.cn

int@cainet.org.cn

+86 10 6395 5926

Address: Rm.6 ,607/F, Expert Apartments, No. Jia 15, Fuxing Road, Haidian District, Beijing, China



Invention ID: CN – 8601

Company/Association:

Wuhu ShangRing Technology Co., Ltd.

Inventor(s):

Wuhu ShangRing Technology Co., Ltd. / Shang Jianzhong, Shang Jingjing

Invention Title:

An Ultrasonic Foreskin Extrusion, Cutting, Hemostasis, and Rapid Healing Component.

Invention Description:

Completed in just 15 seconds and heals on the spot; Prevented bleeding from skin tearing during and after surger; Prevented gaps during suturing, preventing bacterial invasio.

Category:

M) Medical Technology – Medical Engineering – Medicine – Hygiene



Invention ID: CN – 8602

Company/Association:

Shenzhen Angel Drinking Water Industrial Group Corporation

Inventor(s):

Shenzhen Angel Drinking Water Industrial Group Corporation / Qingyan Chen, Kai Zhao, Guoping Li

Invention Title:

APCM antimicrobial membrane material.

Invention Description:

High antimicrobial efficiency >%99.99 for water purification; Solid and rich chemical grafting density of QAS molecules; Unique grafting in aqueous solution, safe industrialization.

Category:

G) Commercial, Industrial and Office Equipment



Invention ID: CN – 8603

Company/Association:

Shenzhen Angel Drinking Water Industrial Group Corporation

Inventor(s):

Shenzhen Angel Drinking Water Industrial Group Corporation / Jing Lei, Kai Zhao, Mengqi Liu, Chunhui Qiu, Guoping Li

Invention Title:

ANGEL novel RO membrane elements

Invention Description:

Developed a new type of diagonal-flow feed channel; Exhibited a % 6-19 higher water flux, a lower declining rate; Has better hygienic safety performance.

Category:

G) Commercial, Industrial and Office Equipment



Invention ID: CN – 8604

Company/Association:

Shenzhen Angel Drinking Water Industrial Group Corporation

Inventor(s):

Shenzhen Angel Drinking Water Industrial Group Corporation / Kai Zhao, Jianfang Zhang, Bin Wang, Bo Huang, Xueliang Wang, Yanglong Liu, Kangning Zhang, Huanhuan Wang

Invention Title:

Space Master Series Whole House High Flow Water Purifier M7 Home 800

Invention Description:

Multi-stage filtration system; Meet the needs of the whole house; A purification rate of 17 gallons per minute.

Category:

D) Sanitation – Ventilation – Heating



Invention ID: CN – 8605

Company/Association:

Shenzhen Angel Drinking Water Industrial Group Corporation

Inventor(s):

Shenzhen Angel Drinking Water Industrial Group Corporation / Kai Zhao, Jianfang Zhang, Bin Wang, Liang Yao, Bo Huang, Chengzuo Wei, Guoping Li

Invention Title:

Space Master Series Whole House Mini Water Softener.

Invention Description:

An intelligent automatic water softening/regeneration device; the volume is reduced by %30; the salt efficiency exceeding the NSF standard of 400G/pound.

Category:

D) Sanitation – Ventilation – Heating

IFIA & USAID Collaborate to Ignite Global Innovation & Empower Innovators

In a groundbreaking partnership, the International Federation of Inventors' Associations (IFIA) and the United States Agency for International Development (USAID) have come together with a shared mission: to catalyze innovation and support innovators worldwide, with the ultimate goal of creating a brighter and more prosperous world.

This collaboration represents a significant milestone in the world of innovation, where two influential organizations combine their resources, expertise, and networks to drive positive change on a global scale. IFIA, as a leading advocate for inventors and innovators, and USAID, known for its international development efforts, are poised to make a substantial impact on innovation ecosystems and entrepreneurship across the globe.

The partnership's core objectives include fostering innovation and creativity in various sectors, promoting entrepreneurial endeavors, and providing the necessary support and resources to turn innovative ideas into tangible solutions. By working together, IFIA and USAID aim to harness the power of innovation to address pressing global challenges, such as sustainability, healthcare, education, and economic development.

IFIA's extensive network of inventors, entrepreneurs, and innovation hubs will be instrumental in identifying and nurturing innovative projects, while USAID's vast experience in international development and resource allocation will ensure these projects have a meaningful and lasting impact in regions that need it most. This collaboration promises to be a catalyst for positive change, with the potential to empower innovators in all corners of the world. As the partnership unfolds, the global community can look forward to witnessing a surge in groundbreaking innovations and solutions that will contribute to the betterment of society, the environment, and the world as a whole. IFIA and USAID's joint efforts have the power to inspire a new era of creativity and progress, proving that by fostering innovation, we can indeed build a brighter future for all.

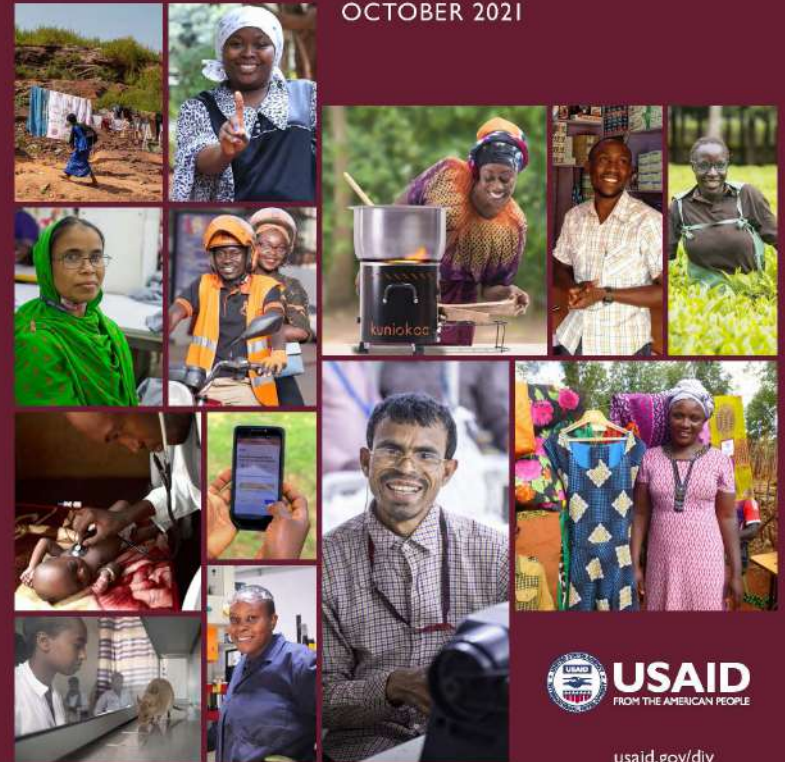
With the recent establishment of the partnership, IFIA has joined forces with USAID, underscoring a significant development in collaborative efforts. This synergy enhances IFIA's role in delivering services to its members and inventors. The collaboration with USAID brings added resources, expertise, and opportunities, strengthening IFIA's commitment to fostering innovation and supporting its community of inventors. Together, IFIA and USAID aim to provide comprehensive services and create an environment conducive to the growth and success of inventors associated with IFIA.

Development Innovation Ventures (DIV) is USAID's open innovation program that funds breakthrough solutions to the world's toughest development challenges. By funding innovation and focusing on rigorous evidence, DIV impacts millions of lives at a fraction of the usual cost.

DEVELOPMENT INNOVATION VENTURES

A Decade of Turning Bright Ideas into Global Solutions

OCTOBER 2021



[usaid.gov/div](https://www.usaid.gov/div)

DIV provides grant funding based on a tiered-evidence approach that maximizes impact per dollar spent. DIV's model allows for risk at early stages and mitigates risk at later stages, ensuring that funding is targeted to the most impactful and cost-effective innovations.

DIV believes that the best ideas can come from anyone, anywhere. DIV supports innovators and researchers around the world to test new ideas, take strategic risks, build evidence of what works, and advance the best solutions. DIV looks for solutions that demonstrate rigorous evidence of impact, cost-effectiveness, and a viable pathway to scale and sustainability. Learn more about DIV's core principles.

DIV offers the following funding:

Stage 1 Grants: Pilot (Up to 200,000\$)

Stage 2 Grants: Test and Position for Scale (Up to 1,500,000\$)

Stage 3 Grants: Transition to Scale (Up to 15,000,000\$)

Evidence Generation Grants (Up to 1,500,000\$)



Invention ID: CN - 8606

Company/Association:

Beijing Energy International Holding Co., Ltd. Northwest china Branch

Inventor(s):

Ruiyang Ma, Xiangyang Li, Weigang Gao, Ruifeng Gao

Invention Title:

Intelligent and Efficient Cleaning Robot for Photovoltaic Modules.

Invention Description:

Enhance the work efficiency and power generation of photovoltaic modules, extend the servicelife of photovoltaic modules.

Category:

P) Energy - Renewable and green energy



Invention ID: CN - 8607

Company/Association:

Tsinghua University

Inventor(s):

Tsinghua University / Juntao Gao

Invention Title:

Novel method to label 1kb DNA in chromatin and to be the new building block for spatial multiomic probes.

Invention Description:

Tn-5FISH (Fluorescence in situ Hybridization) is to label ~1 kb DNA in chromatin, with resolution ~100 times higher than traditional FISH, holding great potential in clinic.

Category:

M) Medical Technology - Medical Engineering - Medicine - Hygiene



Invention ID: CN - 8608

Company/Association:

Tsinghua University, Guangzhou HKUST Fok Ying Tung Research Institute, Harbin Institute of Technology, Huachen Environmental Energy (Guangzhou) Co., LTD

Inventor(s):

Tsinghua University, Guangzhou HKUST Fok Ying Tung Research Institute, Harbin Institute of Technology, Huachen Environmental Energy (Guangzhou) Co., LTD. / Li Wei, Shizhong Li, Jia Ouyang, Qian Lu, Dong Wei, Xinxin Zhang, Erming Luo, Chunying Li, Hongshen Li

Invention Title:

Livestock breeding manure and salt-grown sweet sorghum to restore saline-alkali land.

Invention Description:

Saline-tolerant sweet sorghum is planted in marginal saline-alkali land. The sweet sorghum rice is fed to cattle and sheep. Sorghum straw is fermented into organic fertilizer with manure from cattle and sheep. Organic fertilizer and urea reuse to improve saline-alkali land.

Category:

P) Energy - Renewable and green energy



Invention ID: CN - 8609

Company/Association:

The Chinese University of Hong Kong

Inventor(s):

Pauline Po Yee LUI, Zebin MA, Patrick Shu Hang YUNG

Invention Title:

A Breakthrough Discovery in Tendinopathy Treatment: The World's-First Injectable Fatty Acid-Binding Protein 4 Inhibitor-Loaded Hydrogel.

Invention Description:

BMS309403-loaded hydrogel targets FABP4, inflammation & pain, treating tendinopathy. It redirects fate & restores regenerative capacity of tendon stem cells. Slow release ensures sustained effectiveness.

Category:

M) Medical Technology - Medical Engineering - Medicine - Hygiene



Invention ID: CN - 8610

Company/Association:

The Chinese University of Hong Kong

Inventor(s):

CHUI Chun Sing Elvis, YUNG Shu Hang Patrick, CHEUNG Wing Hoi Louis, ZHANG Ning, SANG Hongxun, ZHANG Jing, XU Jianglong, QIN Ling, FANG Guofang, LI Xiuwang, ZHANG Xiaoqiang, YAU Wing Fung, YE Xin

Invention Title:

Artificial Intelligence Assisted Orthopaedic Prosthesis Design and Surgical Planning System.

Invention Description:

Our system quickly identifies concerns, detects bone defects. Removes them efficiently, and generate accurate bone filling. It simplifies procedures and sets new standards in ORT.

Category:

M) Medical Technology - Medical Engineering - Medicine - Hygiene



Invention ID: CN - 8611

Company/Association:

The Chinese University of Hong Kong

Inventor(s):

Gene CW Man, Sze Wan Hung, Loucia KY Chan, Tao Zhang, Chi Chiu Wang, Liona CY Poon

Invention Title:

ProEGCG: A Prodrug to Relieve Menstrual Discomfort and Prevent Endometriosis.

Invention Description:

A prodrug of EGCG extracted from green tea Capacity with higher stability and bioavailability Relieving menstrual discomfort and preventing endometriosis.

Category:

M) Medical Technology – Medical Engineering – Medicine – Hygiene



Invention ID: CN - 8612

Company/Association:

The Chinese University of Hong Kong

Inventor(s):

CHONG Yuen Yu, CHIEN Wai Tong

Invention Title:

Pai.ACT: AI-driven Acceptance and Commitment Therapy for Tailored Mental Health.

Invention Description:

First NLP system simulating ACT specialists in assessing mental health during user-AI chatbot interactions, providing empathetic responses, and customizing ACT psychotherapy.

Category:

Q) Paramedical – Health – Foodstuffs – Drinks – Cosmetics



Invention ID: CN - 8613

Company/Association:

The Chinese University of Hong Kong

Inventor(s):

Jiankun XU, Ling QIN,Patrick SH YUNG, Haozhi ZHANG, Wenxue TONG, Michael TY ONG

Invention Title:

Mag Med Solutions Boost Endogenous Regeneration.

Invention Description:

A series of innovative magnesium-containing products are made by our start-up(Mag Med). The products have multiple functions to stimulate the regenerative capacity of the host.

Category:

M) Medical Technology – Medical Engineering – Medicine – Hygiene



Invention ID: CN - 8614

Company/Association:

The Chinese University of Hong Kong

Inventor(s):

Raphaela Iris Lau, Qi Su, Francis Ka Leung Chan, Siew Chien Ng

Invention Title:

A synbiotic preparation (SIM01) for post-COVID conditions.

Invention Description:

SIM01 could alleviate multiple post-COVID conditions, including fatigue, difficulty in concentration, gastrointestinal upset, and general unwellness.

Category:

M) Medical Technology – Medical Engineering – Medicine – Hygiene



Invention ID: CN - 8615

Company/Association:

Fudan University;Chengdu Univeristy of Technology; Imperial College London; Yancheng Tiaozini Wetland Research Institute Co., Ltd

Inventor(s):

Zheng Zheng, Weizhen Zhang, Guo Li,Jiao Ran, Suzhen Huang, Bhopal Pandeya, Lixing Shu, Dan Zhou, Jing Dong

Invention Title:

Enhanced Method for Managing Water Cyanobacteria Through Biological Competition Principles.

Invention Description:

- 1.Sustainable development of watershed environment
- 2.Cyanobacteria treatment and ecological protection
3. Efficient and practical device in water protection.

Category:

P) Energy – Renewable and green energy



Invention ID: CN - 8616

Company/Association:

National Time Service Center, Chinese Academy of Sciences

Inventor(s):

National Time Service Center, Chinese Academy of Sciences / Hong Chang, Wei Tan

Invention Title:

A Physics System of Strontium Optical Clock Applied in the Space Station.

Invention Description:

Heating strontium samples in a mini atomic oven to produce atomic vapor,injected into vacuum.Divergence angle of an atomic beam is reduced.A fluorescence detection optical circuit integrated enables the detection of strontium atomic fluorescence spectrum.Most atoms are reduced to 50m/s,realizing capture and detection of atoms in the optical lattice.

Category:

A) Mechanics – Engines – Machinery – Robotic – Tools – Industrial Process – Metallurgy



Invention ID: CN - 8617

Company/Association:

Wuhan NARI LLC. of SGPRI

Inventor(s):

Wuhan NARI LLC. of SGPRI / Lin Cheng

Invention Title:

Fault Monitoring and Alert Techniques on Converter Transformer:Method, equipment,Record media and System.

Invention Description:

The most advanced comprehensive online monitoring solution on converter transformer which has proved to be highly effective in real application.

Category:

B) Electronics – Electricity – Methods of Communication

IFIA INV Title



What is INV Title?

Inv members means, A group of inventors who hold the title of Inv.

Assignment of title to the inventors. Doctors and Ph.D. holders in all countries use Dr as a Title. Engineers in some countries use Eng as a Title. Such a title helps to differentiate qualified and competent professionals from the rest. On the other hand, there is no system that recognizes genuine inventors and innovators, contributing significantly to the knowledge economy and adding to the public stock of knowledge. It was proposed to institutionalize an arrangement whereby the innovators are recognized with the title based on their competency and track record as a member of the Chartered Innovators Council. It was approved to use the title "Inv" for inventors and innovators. In order to respect inventors, it was mandated that the Inv title be awarded to the inventors by requirements.

Inv History

IFIA launched the project of the Inv. Membership for the inventors. IFIA awarded the first membership to the Nobel Prize winner in the Year 1977

According to a final enactment from IFIA executive members dated September 2017 ,11, in Visakhapatnam-India, the 33rd IFIA Virtual meeting was held on February 2020 ,04, and the IFIA Executive Committee accepted that IFIA launched the project Inv. Inventor Members.

Assignment of title to the inventors. Doctors and Ph.D. holders in all countries use Dr as a Title. Engineers in some countries use Eng as a Title. Such a title helps to differentiate qualified and competent professionals from the rest. On the other hand, there is no system that recognizes genuine inventors and innovators, contributing significantly to the knowledge economy and adding to the public stock of

knowledge. It was proposed to institutionalize an arrangement whereby the innovators are recognized with the title based on their competency and track record as a member of Chartered Innovators Council. It was approved to use the title "Inv" for inventors and innovators. The Trademark of This Title Has Been Officially Registered by The Federation in The Swiss IPI Office:

Registration Number: 779216

Who Can Apply?

The necessary criteria to obtain an Inv title for inventors is at least having one item as follows:

1. Having a national or international patent for the current year and after receiving the INV title certificate for each year or having a national or international invention award under the IFIA patronage for the current year and after receiving the INV title certificate for each year.
2. Having a recommendation letter from the IFIA member's office in your country for the current year and after receiving the INV title certificate for each year or (if IFIA has no member's office in your country) having a recommendation letter from the national government invention and innovation agency for the current year and after receiving the INV title certificate for each year.

Inv Membership Benefits

IFIA Inv title members will have the following services:

- IFIA grants the legal title to the inventors.
- An opportunity to have free registration and a free booth to present his/her invention in an international invention exhibition under the patronage of IFIA.
- Sends IFIA's newsletters to members monthly, about what's happening in the world about innovation, including information on funds, events, seminars, international competitions, and more.
- Free registration on Asiaip Exchange online invention marketplace.
- IFIA creates a network between the Inv. members.

For more information and joining IFIA Inv Members Network visit:

<https://www.ifa.com/inv-members/>





Invention ID: CN - 8618

Company/Association:

Changjiang River Scientific Research Institution, Changjiang Water Resources Commission

Inventor(s):

Tang Xian-qiang, Hu Yan-ping, Li Rui, Wang Zhen-hua, Wang Dan-yang

Invention Title:

Sediment Pollutant Electro-Dialysis Technology (SPEDT).

Invention Description:

An in situ sediment electrokinetic remediation system. Pore water drainage reduced the content and release flux quick-complete response, low cost and eco-friendly.

Category:

C) Building – Architecture – Civil Engineering – Construction – Materials – Woodwork



Invention ID: CN - 8619

Company/Association:

Hangzhou Dianzi University (Tiantai) Digital Industry Research Institute Co., LTD Zhejiang Xintao intelligent control Technology Co., LTD

Inventor(s):

Hangzhou Dianzi University (Tiantai) Digital Industry Research Institute Co., LTD. Zhejiang Xintao intelligent control Technology Co., LTD. / Jing Xu, Jiadi Lian, Jin Yu, Lexuan Du

Invention Title:

Full temperature zone energy-saving heat pipe variable volume phase change liquid cooling pump and its digital construction technology.

Invention Description:

As the core component of fluorine pump air conditioning fully enclosed refrigerant pump is widely used in data centers, 5G base stations and new energy storage.

Category:

P) Energy – Renewable and green energy



Invention ID: CN - 8620

Company/Association:

Chengdu Qingrong Shentong Technology Co., Ltd.; Sichuan Energy Internet Research Institute Tsinghua University;

Inventor(s):

Chengdu Qingrong Shentong Technology Co., Ltd. / Sichuan Energy Internet Research Institute Tsinghua University / Ouyang Yong, Liu Hua, Yang Chao, Zhang Chaokun, Luo Yi, Hao Changjin

Invention Title:

Self-powered fault monitoring device for smart grid lines.

Invention Description:

Intelligent Monitoring System of Power Transmission Line micro-sensing chips, smart sensor devices forecast and accurately position defect or fault risk.

Category:

P) Energy – Renewable and green energy



Invention ID: CN - 8621

Company/Association:

Fujian Minxuan Technology Co.,Ltd.

Inventor(s):

Fujian Minxuan Technology Co.,Ltd. / Bin Zhu, Huiling Chen, Xiaoping Lin, Zhenzhen Ke

Invention Title:

Special rotary sealing device for solar concentrating power generation system.

Invention Description:

The elastic compensation form of internal/external wear is innovatively adopted to solve the problem of poor rotation concentricity, the double spherical structure is designed to realize automatic centering. It can completely replace the traditional metal hose connection form and ensure its service life.

Category:

A) Mechanics – Engines – Machinery – Robotic – Tools – Industrial Process – Metallurgy



Invention ID: CN - 8622

Company/Association:

Fujian Kirusun Communications Co.,Ltd

Inventor(s):

Fujian Kirusun Communications Co.,Ltd. / Fu Wenliang

Invention Title:

DP810 IIC Explosion-Proof Two-Way Radio.

Invention Description:

DP810 is the first Level IIC explosion-proof two-way radio independently researched and developed by Kirusunthat meets the criteria of international, IEC and ATEX standards.

Category:

B) Electronics – Electricity – Methods of Communication



Invention ID: CN - 8623

Company/Association:

Fujian Jianlida Engineering Technology Co., Ltd.

Inventor(s):

Fujian Jianlida Engineering Technology Co., Ltd. / Yuqun Huang, Chudi Guohuang, Jianping Liu, Cuiyun Chen, Zhengqi Luo, Jiwei He

Invention Title:

A detachable lightning protection detection device for high voltage line protection.

Invention Description:

This project includes a mobile chassis and a grounding resistance detector. The mobile chassis and the grounding resistance detector are connected by a locking structure. The mobile chassis is equipped with a grounding wire connection mechanism.

Category:

C) Building – Architecture – Civil Engineering – Construction – Materials – Woodwork



Invention ID: CN - 8624

Company/Association:

Quanzhou SFE Electronic Technology Co.,Ltd

Inventor(s):

Quanzhou SFE Electronic Technology Co.,Ltd. / Guo Wenbin, Huang Didi, Chen Yushuang, Guo Zhiming, Lv Jirong

Invention Title:

Integrated communication terminal for private network intercom and POC.

Invention Description:

The integrated communication terminal of private network intercom and POC intercom, is an intercom terminal that integrates multiple modes of public network and private network. The public network intercom in an environment with a public network, using a private network intercom in an environment without a public network.

Category:

B) Electronics – Electricity - Methods of Communication



Invention ID: CN - 8625

Company/Association:

- 1, Far East Chung Ch'ien Group Co., Ltd.
- 2, Quanzhou Chung Ch'ien Machinery Co, LTD

Inventor(s):

Far East Chung Ch'ien Group Co., Ltd. / Quanzhou Chung Ch'ien Machinery Co., LTD., / Shuangquan Su, Jianfu Su, Weida Cai, Ronghan Su, Xiongying Su, Zicai Jiang, Zhonghai Qian, Baoteng Jiang, Jinde Tu, Debiao Su, Shiyong Chen, Minding Yang

Invention Title:

SD Energy saving and free trimming pulp molding tableware complete equipment production process and products.

Invention Description:

The equipment adopts free trimming process to produce pulp molded tableware without subsequent cutting or trimming treatment to produce disposable biodegradable tableware.

Category:

A) Mechanics – Engines – Machinery – Robotic - Tools – Industrial Process – Metallurgy



Invention ID: CN - 8626

Company/Association:

ZonKrystal(Quanzhou) Ceramic Materials Research Institute Co., LTD, Kunch (Fujian) Technology Co., Ltd., Dehua Yishu Ceramic Research Institute

Inventor(s):

ZonKrystal (Quanzhou) Ceramic Materials Research Institute Co., LTD. / Kunch(Fujian)

Technology Co., Ltd / Dehua Yishu Ceramic Research Institute / Chen Jintong, Ke Lin, Guo Yaling, Peng Huaming, Guo Xianpei, Ke Guozhen, Zheng Wengui

Invention Title:

Waste ceramic recycling (process porcelain) compostable degradable treatment method new process.

Invention Description:

The present invention realizes the recycling and reuse of waste ceramics without firing production process ceramics. After the product is damaged, it can be composted and degraded into mud, which is low-carbon, green and environmentally friendly. Every year, it can save %85 of ceramic materials and reduce industrial energy by %80.

Category:

C) Building – Architecture – Civil Engineering – Construction – Materials – Woodwork



Invention ID: CN - 8627

Company/Association:

ZonKrystal(Quanzhou) Ceramic Materials Research Institute Co., LTD, Quanzhou Kuntai Machine Co.,Ltd., Kunch (Fujian) Technology Co., Ltd.;

Inventor(s):

ZonKrystal(Quanzhou) Ceramic Materials Research Institute Co., LTD. / Quanzhou Kuntai Machine Co.,Ltd. / Kunch (Fujian) Technology Co., Ltd. / Ke Lin, Chen Jintong, Peng Huaming, Zheng Wengui, Ke Guozhen, Guo Yaling, Guo Xianpei

Invention Title:

A Kind of Intelligent NC Complete Equipment for Waste Ceramics Regeneration and Manufacturing under No Burning.

Invention Description:

The present invention relates to the technology of a waste ceramic treatment device, which is a digital waste ceramic non firing process ceramic mechanical equipment that achieves one-time pressure injection molding, natural cooling and drying solidification, without the need for firing, greatly saving energy consumption and industrial costs.

Category:

A) Mechanics – Engines – Machinery – Robotic - Tools – Industrial Process – Metallurgy



Invention ID: CN - 8628

Company/Association:

FUJIAN WEISHENG MACHINE DEVELOPMENT CO.,LTD

Inventor(s):

FUJIAN WEISHENG MACHINE DEVELOPMENT CO.,LTD. / Xiao Zineng, Xiao Qingzhen, Xiao Jianchao, Xiao Yunying, Xiao Huiying, Yao Xiaolong

Invention Title:

The utility model relates to a multifunctional telescopic arm forklifting vehicle used in emergency rescue

Invention Description:

The multi-function telescopic arm forklift is an emergency rescue equipment with functions such as truck crane, aerial work platform and fire rescue.

Category:

A) Mechanics – Engines – Machinery – Robotic - Tools – Industrial Process – Metallurgy

WIPO

ALTERNATIVE DISPUTE RESOLUTION (ADR)



International and domestic research and development (R&D) and transfer of technologies involve a rich variety of contracts and transactions, including research contracts, collaborative projects, licensing, joint ventures, alliances, spin-offs, and buyer-supplier relationships.

Research and Development and Technology Transfer Disputes

Pursuant to the close collaboration existing between the International Federation of Inventors' Associations and World Intellectual Property Organization, IFIA encourages the members to settle disputes arising from collaborations established with other parties by referring to WIPO Arbitration and Mediation Center offering alternative dispute resolution (ADR) options to court litigation.

International and domestic research and development (R&D) and transfer of technologies involve a rich variety of contracts and transactions, including research contracts, collaborative projects, licensing, joint ventures, alliances, spin-offs, and buyer-supplier relationships.

Such collaborations can involve complex legal, commercial, or management issues, often including related intellectual property (IP) rights. Also, research partners from different institutional backgrounds may have diverging expectations and understandings of creating, using and exploiting IP rights.

Efficient dispute avoidance and resolution practices are key in such complex situations. Providing time- and cost-effective options, ADR procedures may help parties to find solutions to their disputes, without the need for court litigation, contributing to the continuation of research activities and commercialization of research results.

Areas of Dispute

A careful choice of dispute resolution framework should feature in negotiations of sometimes multiple contracts at different stages of R&D activities, commercialization and technology transfer processes. Where several contracts relating to R&D collaborations are concluded at different stages of a project, consistent dispute resolution provisions should be considered to enable an efficient dispute resolution process and, if necessary, the potential consolidation of disputes.

WIPO Arbitration and Mediation Center

With offices in Geneva, Switzerland and in Singapore, the WIPO Center offers ADR options to enable parties to efficiently settle their domestic or cross-border commercial

disputes. The ADR options offered by the WIPO Center are mediation, arbitration, expedited arbitration, and expert determination. The WIPO Center is international and specialized in IP and technology disputes. It has a strong focus on controlling the time and cost of its proceedings.

WIPO ADR procedures are organized to stimulate positive opportunities for party settlement. Almost %70 of the mediation procedures administered by the WIPO Center have settled. Even in arbitration, %40 of WIPO cases settle before any formal decision is issued.

WIPO ADR Services

- Procedural advice in choosing ADR options
- Model mediation and arbitration clauses to insert in contracts
- Case administration under the WIPO Rules in the event of a dispute
- Communication and meeting support in cases
- Training sessions on ADR of IP and technology-related disputes

WIPO Rules and Neutrals

WIPO ADR Rules are suitable for all commercial disputes. They additionally feature provisions to address specific needs in IP and technology disputes, such as on confidentiality and technical evidence.

Parties can draw upon an extensive database of local and international independent WIPO arbitrators, mediators, and experts, skilled in all areas of IP and ADR.

Unilateral Request for WIPO Mediation Option

The WIPO Center is regularly contacted in relation to disputes where one party wishes to submit a dispute to mediation, but no mediation agreement exists between the parties, for example in infringement disputes or in cases pending before the courts. To facilitate submission of such disputes to WIPO Mediation, a party may submit a unilateral Request for Mediation to the WIPO Center under the updated WIPO Mediation Rules effective since January 2016 .1. The WIPO Center may then assist the parties or, upon request, may appoint an external neutral to provide the required assistance. This process has been used successfully by inventors in a number of cases.

Contact Information:

WIPO Arbitration and Mediation Center (Geneva)
34, Chemin des Colombettes, CH1211- Geneva 20, Switzerland
Tel +4122 338 82 47
Fax +4122 338 83 37
Website: www.wipo.int/amc
Email: arbiter.mail@wipo.int



Invention ID: CN - 8629

Company/Association:

Quanzhou Tongwei Technology Co.,Ltd

Inventor(s):

Quanzhou Tongwei Technology Co.,Ltd. / Peidong Liang, Chengxi Huang, Binzhi Guo, Fengshun Liang, Guangyao Huang

Invention Title:

A bridge box girder disease detection robot.

Invention Description:

Robot navigates autonomously, detects defects accurately. Imaging identifies cracks, corrosion, ensuring safety. Remote control enhances safety and monitoring efficiency.

Category:

A) Mechanics – Engines – Machinery – Robotic - Tools – Industrial Process – Metallurgy



Invention ID: CN - 8630

Company/Association:

Fujian HuanYuTong Technology CO.,LTD

Inventor(s):

Fujian HuanYuTong Technology CO.,LTD. / ShaoHua Hong, ShiShi Xie, JianHua Xie, QingFei Hou, XiongLing Wei, WeiHua Huang,TengHui Liu

Invention Title:

Research and Development and Application of Nursing Assistance Robots in Medical Institutions.

Invention Description:

The project has developed core algorithms with independent intellectual property rights. It employs the latest artificial intelligence technology, enabling intelligent navigation and positioning; it is capable of performing delicate operations; it can engage in remote medical collaboration; and it features intelligent monitoring capabilities.

Category:

B) Electronics – Electricity – Methods of Communication



Invention ID: CN - 8631

Company/Association:

Fujian YULLFOND Supply Chain Management Co., Ltd.

Inventor(s):

Fujian YULLFOND Supply Chain Management Co., Ltd. / CHUNJIAO HUA

Invention Title:

Rice Husk Environmental Friendly Kitchen Utensils.

Invention Description:

The technology uses rice husk as raw materials to producing hard,high-density,non-toxic,environmentally friendly kitchen utensils by grinding, filtrating, sterilizing, molding steps.

Category:

P) Energy - Renewable and green energy



What does the IFIA logo mean?

In the IFIA logo, we are faced with many signs and metaphors that create meanings in the audience's mind, both hidden and visible. The logo font consists of two parts; The word "if", which is a slightly easy and playful font, and the word fia, which is dry, structured, and more logical. In general, fonts have the meaning and feeling that there is an organization where playful and brave ideas are combined in a logical and scientific structure. Here, no idea is suppressed, but a situation is created for it that can find objectivity in scientific trial and error. In the logo, we see that a square shape is used. In general, the square symbolizes science, logic, and stability. Therefore, placing the logo in a square shape is a metaphor for the presence of thinking, science, and reasoning in an inventor's mental process. Of course, this organization's emphasis is on the fact that invention is a scientific process. Of course, this is not the end of the story. If we look closer, we can see that only the letter «i» is inside the square. An innovative cut and excellent separation of this word from the word IFIA. This separation is a kind of entry into the personalization of the story. The letter "i" has a metaphor for (me). (I) in the sense that every inventor has a unique and special personality of his own with all the life experiences, concerns, and issues that he is involved with in life and the contemporary world, and it is from them that he thinks and His questions enter. That is why the questions of one inventor are different from another. The placement of the word «i» separately is a metaphor for the fact that the organization of inventors strongly emphasizes the uniqueness of the inventor and has mechanisms and laws that support this inventor.

After explaining the basic structure of the logo, we will discuss another hidden form inside the logo. Rectangular shape! If we continue the sides of the square to the end of the word IFIA, we get a rectangle. In other words, the square becomes a rectangle, and we know that the rectangle moves and expands in proportion to the square. Therefore, we feel a kind of movement, dynamism, and search due to the hidden presence of the rectangle within the geometric structure of the logo. The next issue is color composition. The blue square is a metaphor for dynamism, and the letter "i" is white, which is a metaphor for the freedom of the inventor's thoughts and ideas and the lack of domination by the organization's oppression over the inventor. This position is more evident in the choice of the color of other words of this logo, where the neutral gray color is used, and this means; The organization is next to the inventor and supports him in such a way that the inventor does not get any annoyed feelings from this support. The organization acts like a soul. The spirit that gives life to the mind and thought of the inventor.

IFIA Publication Department



Invention ID: CN - 8632

Company/Association:

Hongan (Fujian) Machinery Co., Ltd.

Inventor(s):

Hongan (Fujian) Machinery Co., Ltd. / Jianjun Wu, Zhixuan Wu, Zhiliang Wu Liuxuan Ye, Jianchu Wu

Invention Title:

R&D and industrialization of voltage stabilization technology for a multi-layer PCB pressing device.

Invention Description:

This invention is based on the fact that the quality of the industry has poor lamination stability and high scrap rate. It is urgent to develop a new multi-layer PCB board.

Category:

A) Mechanics – Engines – Machinery – Robotic – Tools – Industrial Process – Metallurgy



Invention ID: CN - 8633

Company/Association:

School of Clinical Medicine, Tsinghua University

Inventor(s):

School of Clinical Medicine, Tsinghua University, Feng Xiaobin, Li Chengquan, Wu Meilong, Wang Jianmin, Dong Jiahong

Invention Title:

Remote Digital & Intelligent Clinical Trial Technical Platform.

Invention Description:

The platform connects the hospital's clinical medical information system to remotely digitize the whole process management of the clinical research process.

Category:

M) Medical Technology – Medical Engineering – Medicine – Hygiene



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Address: Dalmatinska 000 10 ,12 Zagreb, Croatia



Invention ID: HR - 001

Inventor(s):

Tomislav Hodalj, EGORRA Ltd.

Invention Title:

SINK PAVAO

Invention Description:

Waterproof wooden sink made of first-class, hundreds of years old oak. The product comes complete with a metal stand and a box that can easily be transformed into a cabinet. The sink is decorated with modern lines and a simple design that exudes luxury.

Category:

C) Building – Architecture – Civil Engineering – Construction – Materials – Woodwork



Invention ID: HR - 002

Inventor(s):

Frano and Tomislav Pokrajcic, JELTOM Ltd.

Invention Title:

Anti-Flood Water-Filling Box Barrier.

Invention Description:

Box barrier for flood defense replace classic flood defense, no sand, no big mechanism or army. With four men, water is filled in the boxes which are connected and they defend against flooding. One system consists of four boxes. Quick assembly and disassembly in approximately 20-30 minutes.

Category:

E) Security – Rescue – Alarm



Invention ID: HR - 003

Inventor(s):

Marko Maricevic, University of Zagreb, Faculty of Graphic Arts

Invention Title:

Tactile Pendants for Visually Impaired and Blind People.

Invention Description:

Tactile pendants consist of Braille and typographic elements. The innovation's distinctiveness lies in the personalization of the pendant to the user's needs and the ability to be produced using various additive manufacturing technologies.

Category:

Q) Paramedical – Health – Foodstuffs – Drinks – Cosmetics



Charles University / First Faculty of Medicine

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Address: Ana Masaryka 40/348, Vinohrady,

Prague 2, Czech Republic



Invention ID: CZ - 4201

Inventor(s):

Amitis Lahimchi

Invention Title:

Dental suction device; Blowing, sucking and detecting oral secretion's volume and PH.

Invention Description:

A dental suction device that can both suck and blow is versatile. Using mesh filters, it traps and separates particles, including fragments of teeth and dental materials. It can blow solutions like chlorhexidine for infection management and measure oral pH and saliva volume, aiding in diagnosing conditions like xerostomia. This multifunctional device is highly useful in dental procedures.

Category:

M) Medical Technology – Medical Engineering – Medicine – Hygiene

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83 Tat Chee Avenue, Kowloon, Hong Kong SAR



Invention ID: HK - 0101

Inventor(s):

City University of Hong Kong, Condon LAU, Irfan AHMED, Wei ZHANG, Fraser HILL, Xinyue LI

Invention Title:

Artificial Intelligence Immunostaining for Diagnostic Pathology.

Invention Description:

Immunostaining is an important set of methods in diagnostic pathology. Our AI invention is considerably faster, less expensive, and easier to use than current staining methods. The invention is currently undergoing clinical trials at the CityU Veterinary Medical Centre.

Category:

M) Medical Technology – Medical Engineering – Medicine – Hygiene.



Invention ID: HK - 0102

Inventor(s):

City University of Hong Kong, Prof. C.Q. Jiang, Y.B. Wang, C. Chen, X.S. Wang, J.C. Xiang, Prof. T. Long.

Invention Title:

Key Components for EV: Next-generation High-power Nanocrystalline Smart Wireless EV Charger.

Invention Description:

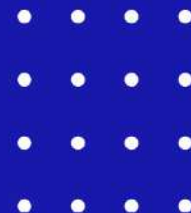
Aiming to industrialize a high-power 22 kW nanocrystalline smart wireless charger for electric vehicles, supported with 8 academic papers and 3 invention patents. For the first time across the globe, we apply the hybrid nanocrystalline core, successfully breakthrough the limitation of traditional ferrite core, and achieve high AC efficiency over %97.

Category:

B) Electronics – Electricity – Methods of Communication



ITsci Company Limited, a HK Tech 300 company, offers cloud-based AI diagnostic tools for veterinary pathologists. Our Alstain immunohistochemistry (IHC) and immunocytochemistry (ICC) cloud services provide real-looking IHC and ICC images for diagnosing cat and dog lymphoma. Alstain does NOT require antibody reagents or its associated laboratory equipment and procedures. Furthermore, Alstain completes its virtual IHC and ICC in minutes over the internet, greatly facilitating remote pathology services. To learn more, contact us at support@ai-stain.com.hk.



**Invention ID: HK - 0103****Inventor(s):**

City University of Hong Kong, Prof. HO Johnny Chung Yin, QUAN Quan, CHEN Dong, YIN Di

Invention Title:

Solar-Electrocatalytic System for Hydrogen Generation from Seawater.

Invention Description:

We engineer the 3D porous micro-nanostructure surface, e.g., nickel foam, to perform solar-driven seawater evaporation to freshwater and solar-driven electrocatalytic hydrogen production from the pre-evaporated seawater. This enables large-scale deployment for eco-friendly and low-cost solar-driven hydrogen fuel production from local seawater.

Category:

P) Energy - Renewable and green energy

**Invention ID: HK - 0104****Inventor(s):**

City University of Hong Kong, Prof. Stella W. Pang, Prof. Shuyan Zhu

Invention Title:

Design and Nanofabrication of Highly Sensitive Plasmonic Sensors for Biomedical Cell and Molecule Detection.

Invention Description:

A high-sensitivity plasmonic biosensor is developed for early disease screening and diagnosis, with the unique capability of detecting nanometer-sized filopodia and biomolecules. Nanofabrication technology is applied to produce an integrated microsystem that is compact, user-friendly, and portable for point-of-care applications at low cost.

Category:

M) Medical Technology - Medical Engineering - Medicine - Hygiene

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Hong Kong SAR

**Invention ID: HK - 0105****Inventor(s):**

Prof. Hung Keung

Invention Title:

Digital Puppetry System: Connecting Young Generation and Cultural Heritage with Novel Technology.

Invention Description:

It technologises the puppets to render traditional puppetry performance as interactive graphic animation. It gamifies and reactivates cultural heritage with latest technologies.

Category:

L) Games - Sports - Hobbies

**Invention ID: HK - 0106****Inventor(s):**

Dr. Kam Chi Shan Anna

Invention Title:

Automatic Screening System for Mild Cognitive Impairment and Dementia with Auditory Tasks.

Invention Description:

It is a semi-sealed system enabling the screening of hearing loss, mild cognitive impairment, and dementia as a routine elderly healthcare examination in the community.

Category:

Q) Paramedical - Health - Foodstuffs - Drinks - Cosmetics

**Invention ID: HK - 0107****Inventor(s):**

Prof. Susanna Siu-sze Yeung

Invention Title:

Social Robot.

Invention Description:

An AI-powered Social Robot with persona-like social skills that engages children in storytelling activities while providing attention evaluation and support.

Category:

Q) Paramedical - Health - Foodstuffs - Drinks - Cosmetics

**Invention ID: HK - 0108****Inventor(s):**

Dr. Xinyun HU, Mr. Wai Kwok YU, Dr. Wai Man Vivienne LEUNG, Mr. Man Fai CHUNG

Invention Title:

Make-Play Station.

Invention Description:

A transformative, multifunctional all-in-one station for kid's STEAM learning. The classroom-fit station blends creative, exploratory, and maker play for dynamic learning and sparking curiosity.

Category:

O) Teaching Research - Pedagogical Items



Invention ID: HK - 0109

Inventor(s):

WONG Ming Hung, LI Wai Chin, MAN Yu Bon, CHUNG Ming Kei

Invention Title:

Portable Aeroponic Culture Unit.

Invention Description:

The monitorable aeroponic unit allows non-invasive professional plant-microbe experiments and accessible domestic cultivation in a limited space.

Category:

H) Agriculture – Forestry and Garden – Pet and Farm Animal Supplies



Invention ID: HK - 0110

Inventor(s):

Prof. Leung Chi Hung, Mr. Yu Wai Kwok, Mr. Chung Man Fai

Invention Title:

I-well Home.

Invention Description:

An all-in-one furniture integrates clinical physical and therapeutic training for SEN kids into everyday life. It provides personalized and traceable solution to address learning and social challenges.

Category:

C) Building – Architecture – Civil Engineering – Construction – Materials – Woodwork

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Invention ID: HK - 0111

Inventor(s):

Prof. YEUNG King Lun, Mr. PAMUDJI Malvin Subroto of The Hong Kong University of Science and Technology

Invention Title:

Durable Multilevel Antimicrobial Protection: Safe Antiviral and Antibacterial MAP-∞ for Surfaces .

Invention Description:

MAP-∞ uses nano-polymers to create antimicrobial particles that kill microbes, viruses, and spores on contact. It prevents colonization and biofilm by controlled-releasing antimicrobials. MAP-∞ forms a durable, transparent layer resistant to sun, heat, humidity, water. Certified for

potable water, effective against viruses including Omicron strain.

Category:

Q) Paramedical – Health – Foodstuffs – Drinks – Cosmetics



Invention ID: HK - 0112

Inventor(s):

Ying CHAU, Chi Ming Laurence LAU, Fariza ZHORABEK, Jin Teng CHUNG, Chung Yan YU, HKUST

Invention Title:

AimGel – Biomimetic hydrogel microbead coated with fluid lipid shell for immune cell manipulation and expansion.

Invention Description:

Artificial cells made from synthetic biomaterials innovate. They signal white blood cells, controlling their behavior. This enables the production of powerful therapeutic cells.

Category:

M) Medical Technology – Medical Engineering – Medicine – Hygiene



Invention ID: HK - 0113

Inventor(s):

Direct Drive Tech, HKUST

Invention Title:

Modularized Two-wheeled-legged Robot.

Invention Description:

The minimum modular design showcases possibilities such as two-wheeled, two-wheeled-legged, bipedal, quadrupedal, and wheeled quadrupedal configurations to adapt to various scenarios.

Category:

A) Mechanics – Engines – Machinery – Robotic – Tools – Industrial Process – Metallurgy



Invention ID: HK - 0114

Inventor(s):

Prof. Baoling HUANG, Prof. Chongjia LIN, HKUST

Invention Title:

Bio-inspired Radio-transparent Optical Metamaterial Films with Ultra-broadband Spectrum Manipulation for Passive Space Cooling.

Invention Description:

Space cooling consumes %10 of electricity, creating a need for zero-energy solutions. Inspired by butterfly wings, we've developed a nano/micro-structured material that reflects solar heat, emits thermal radiation, and is transparent to radio signals. This provides invisible passive cooling without altering appearance or disrupting communication.

Category:

C) Building – Architecture – Civil Engineering – Construction – Materials – Woodwork



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Shatin, Hong Kong SAR



Invention ID: HK - 0115

Inventor(s):

Raymond Tong, Disheng Xie, Yujie Su, Fanny Tong, Xiangqian Shi

Invention Title:

Transforming Rehabilitation with Wearable Soft Robotics: XoMuscle Empowering Movement in Patients with Disabilities.

Invention Description:

Bionic Design with Compact, Flexible and High Efficiency, Quickly produced using 3D printing technique with winding. A biceps size XoMuscle capable lifting a 20kg water bucket.

Category:

A) Mechanics – Engines – Machinery – Robotic – Tools – Industrial Process – Metallurgy



Invention ID: HK - 0116

Inventor(s):

Raymond Kai-Yu Tong, Zhongping Ye, Kun Zhu, Hsuan-Yu Lu, Cathy Lau

Invention Title:

Hope4Care's Markerless Augmented Reality Training System: An Interactive Platform with Real-Time Gait Analysis and Visual Feedback.

Invention Description:

Experience a new level of personalized rehabilitation with a ground reaction force measurement on each side, interactive feedback promoting engagement and motivation for exercise.

Category:

M) Medical Technology – Medical Engineering – Medicine – Hygiene

Hong Kong SAR Hong Kong SAR

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Invention ID: HK - 0117

Inventor(s):

Xueyan Liu, Vera S F Chan, Kenneth G C Smith, Pentao Liu, Chak Sing Lau, Philip Hei Li

Invention Title:

Personalized stem cell treatment for immunodeficiency patients.

Invention Description:

A personalized Expanded Potential Stem Cell platform enables disease models, various therapies testing to identify the most effective and safest treatment options without causing unnecessary risk to the patient. Disease specific EPSC or EPSC-derived cells enable new therapy screening.

Category:

M) Medical Technology – Medical Engineering – Medicine – Hygiene



Invention ID: HK - 0118

Inventor(s):

Pentao Liu, Ruan Degong, Fang Liu

Invention Title:

A Novel Stem Cell-Based Technology for Antiviral Discovery and Health Natural Products.

Invention Description:

Our human stem cell-derived trophoblast models offer a successful alternative, demonstrating productivity for SARS-CoV2- and Influenza, and high sensitivity to antiviral drugs.

Category:

M) Medical Technology – Medical Engineering – Medicine – Hygiene



Invention ID: HK - 0119

Inventor(s):

Zhen FENG, Zhuoxuan LI, Wenxin JIANG, Fang LIU, Yong SHEN, Pengtao LIU

Invention Title:

A Novel Cellular System for Anti-ageing drug discovery.

Invention Description:

Ageing, a complex process with health implications, is traditionally studied using model organisms lacking human relevance. Placenta trophoblast development resembles ageing, offering insights. We introduce an innovative approach: an ageing-emulated biosystem from human trophoblast stem cells (hTSCs). It mimics ageing hallmarks, aiding research and promoting longevity.

Category:

M) Medical Technology – Medical Engineering – Medicine – Hygiene

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Hom, Hong Kong SAR



Invention ID: HK - 0120

Inventor(s):

Dr. Xin ZHAO, Dr. Yuhe YANG, Mr. Tianpeng XU

Invention Title:

3D printed Triply Periodic Minimal Surface (TPMS) bone scaffolds.

Invention Description:

3D printed TPMS bone scaffolds with natural bone mimicking hyperboloidal topology show high porosity and enhanced mechanical strength. They could enhance the proliferation, osteogenic differentiation and angiogenic paracrine of stem cells to accelerate bone formation through cytoskeletal reorganization induced by the hyperboloid topography.

Category:

M) Medical Technology – Medical Engineering – Medicine – Hygiene



Invention ID: HK - 0121

Inventor(s):

Mr. YANG Yi, Dr. RUAN Haihui

Invention Title:

Thick glassy carbon manufacturing and physical property adjustment through heat treatment.

Invention Description:

This project tackles glassy carbon (GC) challenges: size constraints, high costs, and difficulty in shaping. It allows a cost-effective fabrication of large-sized, shape-controlled GC products. Also, the developed heating treatments can modify the physical properties, enable fine-tuning for diverse applications and prolong lifespan.

Category:

A) Mechanics – Engines – Machinery – Robotic – Tools – Industrial Process – Metallurgy



Invention ID: HK - 0122

Inventor(s):

Prof. Zijian ZHENG, Dr. Qiuna ZHUANG

Invention Title:

An ICU-grade wireless breathable cardiac electronic skin.

Invention Description:

The invention provides a wireless, continuous, comfortable, and inflammation-free ECG monitoring solution with ICU-grade accuracy replacing traditional, multiple-wired and bulky clinical devices. It has been adopted for early detection of heart diseases in daily wear, out-patient clinics, intraoperative and postoperative monitoring of ICU patients.

Category:

A) Mechanics – Engines – Machinery – Robotic – Tools – Industrial Process – Metallurgy



Invention ID: HK - 0123

Inventor(s):

Prof. Jiannong CAO, Dr. Zhixuan LIANG, Dr. Mingjing ZHANG

Invention Title:

Edge AI-Empowered Smart Devices and Robotics for AIoT Applications.

Invention Description:

Edge-AI is an innovative technology that combines edge computing and artificial intelligence to enable real-time data processing and intelligent decision-making on IoT devices and robots. This is an edge-AI platform that supports faster and collaborative model training/inference, and an Edge-AI robot for real-time pipe inspection.

Category:

N) Hardware – Software – Cybersecurity – Blockchain – Internet of things (IoT)



Invention ID: HK - 0124

Inventor(s):

Prof. Joanne YIP, Prof. Raymond TONG, Prof. MC Kenneth CHEUNG, Dr. Shuk-Fan TONG, Ms. Qiwen LEI, Ms. Jingyi MA, Mr. Zhongping YE

Invention Title:

Development of Intelligent Nighttime Brace with Smart Padding to treat of Adolescent Idiopathic Scoliosis.

Invention Description:

The Intelligent Nighttime Brace is designed for treating AIS. Its main features include a skin-friendly, antibacterial cotton fabric as the main body part, high-performance elastic bands with corresponding buckles, fabric panels that can accommodate auto-adjusting air pads for corrective force and equipped with sensors for effective monitoring.

Category:

M) Medical Technology – Medical Engineering – Medicine – Hygiene



Invention ID: HK - 0125

Inventor(s):

Dr. CHUA Song Lin, Dr. KHOO Bee Luan, Dr. LIU Yang Sylvia

Invention Title:

MicroFish: A lab-on-a-chip for on-site detection of microbial contamination and pollutants.

Invention Description:

The microfluidic lab-on-a-chip can rapidly detect microbial contamination & pollutants in water, to monitor outbreaks or pollution for agriculture, aquacultures & public agencies.

Category:

H) Agriculture – Forestry and Garden – Pet and Farm Animal Supplies



IFIA Innovation Standard

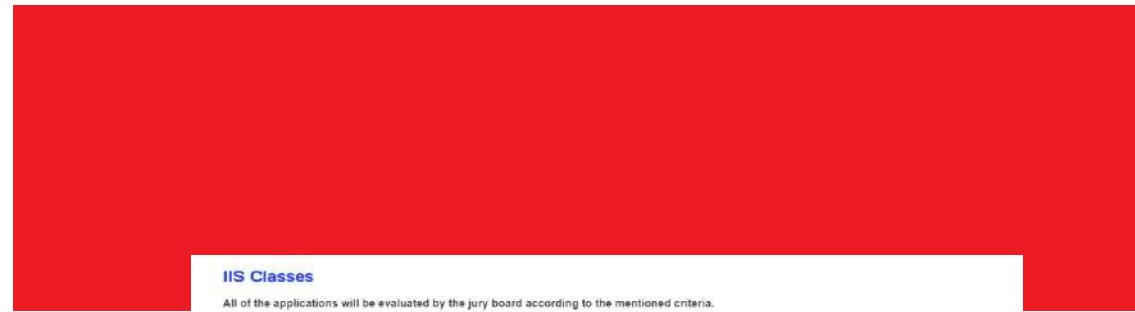
Open Your Innovation To The World



What is IFIA Innovation Standard "IIS"?

One of the things that many people, companies, startups, and business incubators interested in the invention and innovation ecosystem around the world would like to know is the conditions of a standard innovation and how these ideas are distinguished and differentiated from other ones. Accordingly, the International Federation of Inventors' Associations, IFIA, started its main 2022 project named IFIA Innovation Standard, IIS, to fill the above-mentioned gap.

This standard is based on several principles such as being marketable, officially patented, eco-friendly, having an economic impact, etc. These principles are explained in more detail below. So, having IIS helps ensure interested investors that they're facing an avant-garde community of innovators worldwide whose ideas have specific traits.



IIS Classes

All of the applications will be evaluated by the jury board according to the mentioned criteria.

- Grade A

If the applicant fulfilled 66 to 100 points, they would receive an IIS grade **A**.

- Grade B

If the applicant fulfilled 41 to 65 points, they would receive an IIS grade **B**.

- Grade C

If the applicant fulfilled 25 to 40 points, they would receive an IIS grade **C**.



IIS Categories

All of the applications are divided into one of the following categories. Each applicant may have different components, but the difference doesn't change the criteria for them. In other words, the jury evaluates all of the applications from all of the categories by the same measures.

- Process

For this category, the applicant should know that the innovation of the process must be visible. In other words, the process must have a distinctive, innovative essence to get the IFIA Innovation Standard for a procedure. For instance, an innovative product line, or innovative services for customers can submit their applications.

- Place

If a structure had innovative characteristics such as innovative materials, features, it could be possible for them to achieve IIS for a building. For instance, take the case of the construction of a manufacturer, education centers, and complexes. If innovation is used in this structure, they can submit and get the IFIA Innovation Standard for a place.

- Product

In order to get the IIS for a product, one should know that the submitting product must have many of the mentioned criteria, such as being tangible, having a prototype, being already on the market, etc.

- Person

If someone has done significant activities in the invention and innovation ecosystem, they can submit their application and experiences to obtain the IIS for a person.



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Mongkok, Kowloon, Hong Kong SAR



Invention ID: HK - 0126

Inventor(s):

Eason Liao / MassPhoton Limited

Invention Title:

Medical grade UVC LED Air Sterilizer.

Invention Description:

Introducing the pioneering medical-grade UVLED air sterilizer, engineered for uninterrupted protection against bacteria and viruses without releasing harmful ozone or UVC light leakage, ensuring seamless integration into human environments. This sterilizer achieves a kill rate of over %99.9, offering superior safety and efficiency.

Category:

D) Sanitation – Ventilation – Heating

Iran

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Tehran, Iran



Invention ID: IR - 9801

Inventor(s):

Mohammad Fallahhamidabadi, Seyedmohammadkazem Mousavipour,
Mohammad Khayatian Yazdi, Mahdi Dehghanbaghi

Invention Title:

New Optic Variant Guider Device.

Invention Description:

Considering human achievements in recent decades and regarding the significant increase of several automobiles and related technologies, we still observe at night, particularly on roads that a high beam from a car behind reflects in our mirror and directly disturbs the driver's eyes.

Category:

J) Traffic – Transport – Car Accessories



Invention ID: IR - 9802

Inventor(s):

Mohammad Fallahhamidabadi, Seyedmohammadkazem Mousavipour,
Mohammad Khayatian Yazdi, Mahdi Dehghanbaghi

Invention Title:

Motorcycle Smart Helmet.

Invention Description:

Considering human achievements in recent decades and regarding significant increase of motorcycle in these days and therefore increase of riders, the safety of riders shall be heightened. Hence, we made a helmet with high capability which can be used in any situation and any season, in addition to comfortability and safety.

Category:

E) Security – Rescue – Alarm



Invention ID: IR - 9803

Inventor(s):

Vahid Niroumand, Hamzeh Abbaszadeh

Invention Title:

Multifunction Meter with Simultaneous Connection to Power, Water and Gas System.

Invention Description:

The power, water and gas meters occupy a relatively large space in all buildings, and intelligent management and maintenance of each one is very costly. On the other hand, the installation of each of these meters requires equipment in the building. The invention integrates all three meters in a unit and enables its intelligent management to save space and facilities and allows their integrated management.

Category:

B) Electronics – Electricity – Methods of Communication



Invention ID: IR - 9804

Inventor(s):

Mehran Palizban

Invention Title:

Substrate Solution for Repairing and Reproducing Human Neuron.

Invention Description:

The goal of the invention of galactocerebroside solution is to restore the neurons of the brain and spinal cord, a quick, targeted and uncomplicated or low-complication treatment for related disease forms. The obtained solution is a type of substrate that easily accepts the target organic enzymes in the target cell.

Category:

M) Medical Technology – Medical Engineering – Medicine – Hygiene

**Invention ID: IR - 9805****Inventor(s):**

Roshah Rahavi

Invention Title:

Portable Cooling Device for Consuming Cone Ice Creams.

Invention Description:

This invention was invented with the aim of not melting cone ice cream. In general, the function of the device is that ice is placed in the lower part of the device and then it is closed and the ice cream is placed in its place in the upper part. When the device is turned on by the on and off switch, the air flow is directed from the side of the ice cream into the device, and according to the internal construction pattern of this device, the air passes over the ice and directs the ice cold towards the fans, and then the fans The speed of this cold air leads to the ice cream and causes the temperature of the ice cream to change less and creates more time for the consumer. Also, the ice tank is placed in such a way that when the ice cream melts, it goes to the ice tank and collects in it.

Category:

Q) Paramedical - Health - Foodstuffs - Drinks - Cosmetics

**Invention ID: IR - 9806****Inventor(s):**

Ali Paeizi

Invention Title:

Smart digital glasses based on integrated augmented reality and generative artificial intelligence and utilizing electroencephalogram.

Invention Description:

The invention introduces smart glasses for efficient integration of digital gadgets with users. These glasses offer diverse interaction methods like touch controls, motion recognition, voice commands, and eye tracking. With advanced AI, they enhance user interaction by capturing photos and videos, catering to educational, healthcare, and entertainment needs.

Category:

N) Hardware - Software - Cybersecurity - Blockchain - Internet of things (IoT)

**Invention ID: IR - 9807****Inventor(s):**

Ali Mahmoodi, Mojtaba Jannatrezvani

Invention Title:

Crank Speed Reducer.

Invention Description:

The pericyclic gear reducer is a gear-based mechanical power transmission mechanism with only one pair of involute gears that can offer various reduction ratios in the range of 1:2.5 to 1:100 with high torque density. This system is a very good competitor for planetary, cycloidal, harmonic and helical gear transmissions.

Category:

A) Mechanics - Engines - Machinery - Robotic - Tools - Industrial Process - Metallurgy

**Invention ID: IR - 9808****Inventor(s):**

Ali Mahmoodi, Mojtaba Jannatrezvani

Invention Title:

Pericyclic Gear Reducer.

Invention Description:

The pericyclic gear reducer is a gear-based mechanical power transmission mechanism with only one pair of involute gears that can offer various reduction ratios in the range of 1:2.5 to 1:100 with high torque density. This system is a very good competitor for planetary, cycloidal, harmonic and helical gear transmissions.

Category:

A) Mechanics - Engines - Machinery - Robotic - Tools - Industrial Process - Metallurgy

**Invention ID: IR - 9809****Inventor(s):**

Mohammadesmaeil Esfarjani

Invention Title:

A compression belt water bag that provides both cold and hot therapy and simultaneous massage.

Invention Description:

The invention is a water belt bag designed for comfort and pain relief, offering hot/cold capabilities and massaging functionality. Users can manually fill it with hot or cold water, and its design retains temperature for extended periods. Strategically placed massage nodes deliver effective relief throughout the body. Made of silicone and soft plastic, it provides both temperature retention and pressure for massage. Ideal for post-workout recovery, pain relief, and well-being improvement, this product offers users a pleasant experience of relief and relaxation.

Category:

Q) Paramedical - Health - Foodstuffs - Drinks - Cosmetics

**Invention ID: IR - 9810****Inventor(s):**

Seyyed Ali Amirahmadi

Invention Title:

Structure Status Monitoring System with Crisis Management Capabilities.

Invention Description:

This design is a crisis management and monitoring and maintenance system for different types of structures, which consists of two parts, the controller and the sensor set. By online measuring various parameters inside and outside the structure, which are measured by sensors and analyzed by the controller, the forward system can provide different scenarios for crisis management with the help of artificial intelligence algorithms and control the devices connected to it and disconnect or limit. This system can be used in all three phases, before the crisis, during the crisis and after the crisis, and therefore it can have a wide range of applications and cause significant damage reduction. Among the applications of this system are construction, petrochemical, transmission networks, dams, military attacks, etc.

Category:

A) Mechanics - Engines - Machinery - Robotic - Tools - Industrial Process - Metallurgy



SIGI
International Seal for Sustainable Innovations for Global Impact Promoters

Healthier Planet, Happier People: be SIGI Certified!

IFIA-ABIPIR SIGI Governance and institutional partners



Organization and Realization



Institutional Support



IFIA-ABIPIR LATAM Office Launches the «Seal of Sustainable Innovation Global Impact Promoters (SIGI)»

The Latin American office of the International Federation of Inventors' Association (IFIA) and the Brazilian International Association of Inventors, Scientists, and Innovative Entrepreneurs (ABIPIR) are thrilled to announce the launch of the "Seal of Sustainable Innovation Global Impact Promoters" (SIGI). This certification program aims to recognize and reward innovators who align their projects with the 169 goals of the United Nations' 17 Sustainable Development Goals (SDGs) and ESG (Environmental, Social, and Governance) principles.

A Milestone in Sustainable Innovation

SIGI is designed to grant its prestigious quality seal to a diverse range of participants, including independent inventors, traditional companies, startups, social non-profit organizations, academic institutions, researchers, students, and teachers. This initiative celebrates ABIPIR's 13 years of impactful contributions, benefiting thousands of inventors, scientists, entrepreneurs, students, and educators through the annual InnoCities International Fair for Applied Research, Inventions, Innovations, and Business.

Visionary Leadership and Collaboration

The initiative is spearheaded by Dr. Marcelo Vivacqua, Founder and President of ABIPIR and IFIA's Director in Latin America. Dr. Vivacqua, alongside IFIA President Mr. Alireza Rastegar, has been a staunch advocate of the SDGs and ESG principles. According

to Dr. Vivacqua, future partnerships with sustainability-focused companies will provide financial rewards for the top three projects annually. The program is coordinated by Mariângela Luckmann in Foz do Iguaçu, Danilo Melo in São Paulo, and Dr. Vivacqua himself in Vitória, Espírito Santo. It enjoys robust support from Startup Atena ESG, led by CEO Gabriel Theodoro, who will serve as Head of Sustainable Innovation at the IFIA-ABIPIR LATAM Office.

A Beacon of Hope and Action

In response to the pressing global challenges of climate change and social inequalities, the SIGI seal promotes innovative solutions addressing these issues. It encourages renewable energy adoption, clean technologies, and projects fostering inclusion, education, and health. This initiative brings together inventors, entrepreneurs, researchers, and institutions to collaborate on achieving the UN's Sustainable Development Goals.

Endorsements and Future Prospects

Talita Martins of Equos Consultoria ESG

highlights the program's rigorous and evolving certification methodology, essential for assessing social and governance aspects within the supply chain. Bruna Saara, CEO of Alicerc.ESG and Program Ambassador in Paraná, emphasizes the seal's role in promoting responsible practices and strategic risk management related to ESG pillars. The initiative also has full support from IFIA-Bharat in India, led by Anand Kannan, and is connected with the IFIA-ABIPIR Global Startup Connections Program, allowing startups worldwide to contribute innovative solutions.

Join the Movement

Under the innovative leadership of IFIA President Mr. Alireza Rastegar, the certification program reflects a commitment to sustainability and innovation. Innovators with groundbreaking solutions are invited to apply for the SIGI certification and contribute to a sustainable future.

For more information visit:

<https://www.ifa.com/sigi-sustainable->

**Invention ID: IR - 9811****Inventor(s):**

Nasser Mogharabian, Akram Asaspour, Mohammadhossein Sharifnia

Invention Title:

Holder, Fixator, and Position Regulator of Penis and Testis for Surgery and Clinical Examination.

Invention Description:

New system designed to address challenges in penile surgeries by holding, fixing, and regulating penis position while absorbing and removing surgical-related bleeding. Components include stabilizing part, absorbent pads, suction path, and thin covering. Enhances speed and accuracy of surgical interventions.

Category:

M) Medical Technology – Medical Engineering – Medicine – Hygiene

**Invention ID: IR - 9812****Inventor(s):**

Sina Ashouri, Mehdi Ashouri, Mohammadhossein Sharifnia

Invention Title:

A novel method and intelligent automated device for color and molecular printing, with multifunctional integrated mechanisms, on various polymeric surfaces.

Invention Description:

The innovative molecular printing process enables the precise transfer of molecules onto surfaces with submicrometer and subnanometer resolution. Enhances color printing on textiles using laser and heat-based equipment for accurate, repeatable results. Excites molecules for improved conformational structure and energy levels, allowing for detailed color and molecule printing.

Category:

G) Commercial, Industrial and Office Equipment

**Invention ID: IR - 9813****Inventor(s):**

Majid Hazeri

Invention Title:

Dual-purpose VTOL drone with the ability to use the aircraft and multirotor independently from the ground and air.

Invention Description:

It is a dual-purpose VTOL drone that can use the aircraft and multirotor system independently from the ground and air. The multirotor system and the aircraft work in complete independence and, therefore, are built completely independently from each other. This invention is a drone with the VTOL (vertical taking-off and landing) ability, which can carry two separate cargos due to having an internal compartment and an external compartment. Due to the aerodynamic shape and the ability to install various types of engines, it can be turned into an economy multi-purpose drone suitable for multiple applications and needs.

Category:

A) Mechanics – Engines – Machinery – Robotic – Tools – Industrial Process – Metallurgy

**Invention ID: IR - 9814****Inventor(s):**

Yazdan Gharoun Dastjerdi

Invention Title:

Safety Package for Employees Working in High Noise and Chemical Pollution.

Invention Description:

Our invention includes a package to protect people in noisy and polluted workplaces. This package contains headphones, masks, and an application connected to these devices. One of the problems in deafening workplaces is that when employees use safety earmuffs, they have to take off their masks and earmuffs if they need to talk to others. In other words, one of the essential goals of this invention is to create safe communication conditions for employees in noisy and polluted environments. Using this package, the employees can communicate even at a distance, and even employees close to each other do not need to remove their masks or earmuffs to talk to each other.

Category:

A) Mechanics – Engines – Machinery – Robotic – Tools – Industrial Process – Metallurgy

**Invention ID: IR - 9815****Inventor(s):**

Amirmasoud Asadi, Reza Fakhari

Invention Title:

Dacryocystography Injection Device.

Invention Description:

A device for injecting radiopharmaceuticals into the lacrimal ducts of the patient, without errors and with protection against radiation in dacryocystography scan in SPECT.

Category:

M) Medical Technology – Medical Engineering – Medicine – Hygiene

**Invention ID: IR - 9816****Inventor(s):**

Mohammad Shahbazi, Saeid Shahsavari, Davoud Shahsavari

Invention Title:

Engineered Feed Process in Catalytic Cracking, Simultaneous Radicalization of Hydrogen Gas Aided by Electromagnetic Waves to Convert Natural and Synthetic Hydrocarbon Waste into Gasoline and Gas Oil.

Invention Description:

A method and process of producing gasoline and diesel from hydrocarbon wastes is gradually heating the hydrocarbon waste in a reduced atmosphere up to 550 °C. During the heating process and at various temperature points, long hydrocarbon chains are broken down into smaller hydrocarbon chains. During the heating process, radical hydrogen gas is introduced to the reactor, where the radical hydrogen gas reacts with smaller hydrocarbon chains to produce %45 coke petroleum oil, %45 liquid hydrocarbons composed of gasoline and gasoil and %10 gases including methane, ethane, propane, and steam. The radicalized

hydrogen atoms are produced at low temperatures and atmospheric pressure. Hydrogen gas is produced by dissolving aluminum scraps dissolved in a reactor's sodium hydroxide solution. The reactor is heated to 120 °C as hydrogen gas is made. The presence of electromagnetic waves causes the breakdown of hydrogen gas into hydrogen gas radicals.

Category:

A) Mechanics – Engines – Machinery – Robotic – Tools – Industrial Process – Metallurgy



Invention ID: IR – 9817

Inventor(s):

Ahmad Nazari

Invention Title:

Pediatric Immobilizer Table for Radiography.

Invention Description:

A device to immobilize children during radiographic imaging with the ability to be placed in various positions without the need for another person to be present in the radiation room.

Category:

M) Medical Technology – Medical Engineering – Medicine – Hygiene



Invention ID: IR – 9818

Inventor(s):

Saba Behrouznia

Invention Title:

An AI-Based Diet Consulting Service for Recommending Personalized Diets.

Invention Description:

This AI will recommend appropriate diets and offer alternatives if the user is unsatisfied. Additionally, the system will feature a chatbot driven by deep learning and machine learning models to answer user queries regarding health and diet. We provide customized healthy foods with meal plans targeting specific health issues such as fatty liver, libido, athletic nutrition, cancer nutrition, and detoxification diets. Many diseases come from eating the wrong foods and living in unhealthy ways. Our team is focused on studying different illnesses and developing special diets for each. We do this in three ways. Prevention: We create diets that can help stop people from getting sick in the first place. Support treatment: If someone is already sick, we provide diets that may help their treatment work better. Direct treatment: We also use special diets that might cure some illnesses. Simply put, we're all about using food to keep people healthy, help them get better if they're sick, and sometimes even help cure their diseases through diet.

Category:

N) Hardware – Software – Cybersecurity – Blockchain – Internet of things (IoT)



Invention ID: IR – 9819

Inventor(s):

Keyvan Karamnejadiazar

Invention Title:

A current and magnetic field alert device is connected to the human body to prevent electric shock.

Invention Description:

The electric field alert device, with the ability to alert differently based on the strength of the field, is a piece that can be installed on the human body, including a sensitive electronic circuit to the electric field that creates an alternating signal based on the perceived field strength. This device is specifically designed for low-frequency fields around high-voltage lines. It makes alerts through LED, buzzer, and vibration motor, informing the person of the danger of electric shock. This device will also be able to identify low-voltage electrical fields and be used to detect live wires without direct contact. In this device, without direct contact with the body, the field level can be measured so that the person can be informed of the danger before approaching it.

Category:

E) Security – Rescue – Alarm



Invention ID: IR – 9820

Inventor(s):

Hooman Motevalli Abyazani

Invention Title:

Blockchain-based Coordinate Detection Wearable Gadget with Mobile Connectivity.

Invention Description:

Creating a blockchain-based system that works so that people can buy a photo gadget and attach to their clothing. This way, by crossing different streets during the day, photos taken during the day are transmitted on the basis of a blockchain network based on Solana Cryptocurrency. The photos taken by AI are then evaluated and their quality is rated from zero to 100. In the next step, based on the points given by artificial intelligence to the photo, the user is given a token that the user can earn by selling it, which encourages people to participate in such a scheme.

Category:

N) Hardware – Software – Cybersecurity – Blockchain – Internet of things (IoT)



Invention ID: IR – 9821

Inventor(s):

Helya Ashouri

Invention Title:

A garment with the ability to vibrate & transfer heat to treat menstrual pain in the lower back and abdomen.

Invention Description:

A device with vibrating and heat transfer capability for treating menstrual pain in lumbar and abdomen is also presented. This device is in the form of a belt that can be adjusted for different sizes and is also waterproof, and with buttons on it, it also adjusts the temperature and heat to heat and adjust it in the places of menstrual pain and with the vibration of a coin inside it also reduces pain. The aim of this project is to reduce the pain caused by menstruation and to a great extent with heat and vibration.

Category:

Q) Paramedical – Health – Foodstuffs – Drinks – Cosmetics

MIT | SOLVE

IFIA HAS JOINED AT THE “MIT SOLVE”, A FANTASTIC JOINT COOPERATION

IFIA is proud to announce that joined the MIT Solve Member Community, MIT Solve an initiative of the Massachusetts Institute of Technology (MIT), to globalize innovative challenges, provides a great opportunity for inventors and innovators to find an answer to global challenges. To achieve that, IFIA, aiming for its organizational mission, is now among 120 of the most successful organizations in the world. These days, the word “solve” does not always mean a verb for “solution.” Sometimes it means a mixture of multiple votes with unique experiences.

IFIA’s records throughout all these years show that the federation has always strived to be active and effective in projects and groups related to innovation at the highest international levels, and this time, IFIA has been gathered alongside more than +120 the MIT Solve members major scientific and industrial organizations, such as Oxford Sciences Innovation, Microsoft, Nike, The Bill & Melinda Gates Foundation, General Motors, HP, Cisco, BMW Foundation, Uber, Save the Children, etc. are all committed to a serious and fruitful partnership with all its members. On MIT’s SOLVE platform, IFIA seeks to manage innovative international solutions to address fundamental human and global problems.

What is IFIA going to do?

As a committed member of this community, IFIA declares and encourages its members and inventors,

and innovators to engage with these series of aims with the help of our local offices all around the world.

IFIA can build momentum on Global Challenges. Also, IFIA can dive into discussions with cross-sector leaders as we set out to find solutions to Solve Global Challenges, including their newly launched Healthy Security & Pandemics Challenge.

IFIA can access cutting-edge innovations and connect directly with Solver teams to share strategic advice and new ideas. In collaborative working groups, you’ll learn about and workshop their innovative solutions. And finally, IFIA could create impactful partnerships. By that, we mean that we can expand IFIA’s social and environmental impact by collaborating with Solver teams to scale their work.

As a Solve Member, IFIA members **have the opportunity to:**

Support 130 tech entrepreneurs from Solve’s global pipeline of startups solving Global Challenges: +30 new Solver teams are selected yearly at our pitch event, Solve Challenge Finals, during UN General Assembly week (every September in New York City).

Collaborate with +120 Members at year-round Solve events, including our flagship meeting, Solve at MIT (every May). Members are leaders from Starbucks, Nike, Microsoft, Capital One, The Bill & Melinda Gates Foundation, Cisco, Save the Children



and many more organizations.

Influence the design of the next Global Challenges. Members are viewed as thought leaders in their field and have the opportunity to inform Solve’s future Challenges—including by sponsoring roundtables with key stakeholders within their organization or community.

Members champion Solve’s mission to solve world challenges through partnership and open **innovation:**

Fund and support 130 Solver teams solving Global Challenges

Collaborate with +120 Members at year-round Solve events

Join a global community of leaders committed to social impact, including Nike, Capital One, and The Bill & Melinda Gates Foundation.

About MIT Solve:

MIT Solve is an initiative of the Massachusetts Institute of Technology (MIT) with a mission to solve world challenges. Solve is a marketplace for social impact innovation. Through open innovation Challenges, Solve finds incredible tech-based social entrepreneurs all around the world.

Solve then brings together MIT’s innovation ecosystem and a community of Members to fund and support these entrepreneurs to help them drive lasting transformational impact.

Solve was born out of the Office of the President of MIT in 2015, a natural offshoot of MIT’s mission to advance knowledge in science, technology, and other areas of scholarship that will best serve the nation and the world in the 21st century.

In the last three years, thanks to its partners, Solve has brokered commitments of over 25\$ million in funding for Solver teams and entrepreneurs.

Location: Cambridge, Massachusetts

For more information visit: <https://www.ifia.com/mit-solve-programs-and-challenges/>



Invention ID: IR - 9822

Inventor(s):

Abolfazl Yari

Invention Title:

Smart device which can record all violation automatically.

Invention Description:

This invention is a device installed in vehicles, allowing drivers to disregard traffic signs and rules. It issues a warning to the driver, even away from authorities' view. If ignored, the vehicle incurs a penalty. With the rising vehicle production causing traffic issues and accidents, it's the duty of traffic officers to physically patrol and curb violations. Traditional methods involve stopping the vehicle and issuing a penalty ticket. Recently, violation-recording cameras are also used, but drivers employ various tactics to evade detection, necessitating a new approach.

Category:

J) Traffic – Transport – Car Accessories



Invention ID: IR - 9823

Inventor(s):

Mahdi Fazli

Invention Title:

Reinforcement making machine with high speed and strength capability.

Invention Description:

Reinforcement making machine, this machine works by using its hook and produces rebars with high strength clamps at maximum speed. This device is portable and efficient according to today's technologies. Also, other wires that have been used in this field, which were wasted in the manufacture of armatures, have been removed and their wastage is prevented. Moreover, working with pliers and other devices may cause injury or scratches and dents in the hands or other parts of the user's body. In this innovative device, the health and safety of the user is guaranteed.

Category:

C) Building – Architecture – Civil Engineering – Construction – Materials – Woodwork



Invention ID: IR - 9824

Inventor(s):

Mohammadreza Hashemi

Invention Title:

Vehicle engine oil quality detection device.

Invention Description:

This device measures the quality of car engine oil and categorizes the quality level, and when the quality exceeds the standard, the device warns. Also, this device can measure the optimal quality of the oil used in the car to prevent damage and damage to the car engine. Prevent.

Category:

J) Traffic – Transport – Car Accessories



Invention ID: IR - 9825

Inventor(s):

Sajad Jalambadani

Invention Title:

Gaming mouse-pad with the ability of hand massage and mental health control.

Invention Description:

This device is a gaming mouse-pad that is able to massage the palm of the hand to reduce the amount of tiredness, it is also able to monitor the mental health condition based on hand movements and helps you to be able to use it for a longer period of time.

Category:

L) Games – Sports – Hobbies



Invention ID: IR - 9826

Inventor(s):

Hamid Reza Abdollahi

Invention Title:

Three-Brains Biophone.

Invention Description:

Disclosed herein is a wearable biosensor-based phone device (biophone) for non-invasive monitoring the three-brains rhythm of body (gut-heart-head "brains" interactions) and evaluate whether the three-brains rhythm are balanced or not, and then the "three-brains intelligence" is scored (visceral sense) by a gadgetry wireless connected protocol between navel-wrist biosensors. then, the results as a taped chart are sorted in the inbox memory card and can be both private or shared online (social biophone).

Category:

M) Medical Technology – Medical Engineering – Medicine – Hygiene



Invention ID: IR - 9827

Inventor(s):

Elina Eslami, Kasra Eslami

Invention Title:

Smart Die Casting.

Invention Description:

This invention provides a smart way of cooling in the die casting process. The invention comprises a temperature sensor, a fan, a heater, a controller, and a display. The temperature sensor and heater are connected to a cast, and the fan circulates air around the cast.

Category:

A) Mechanics – Engines – Machinery – Robotic - Tools – Industrial Process – Metallurgy

**Invention ID: IR - 9828****Inventor(s):**

Majid Eslami, Nahid Fadaee

Invention Title:

A method and apparatus for smart monitoring and control in die casting process.

Invention Description:

This invention relates to a method and an apparatus for monitoring die-casting process in which the user can monitor and control the die-casting process by means of a set of sensors, a controller, an internet connection, and by means of an IoT platform. It provides real-time data to a mobile application.

Category:

A) Mechanics – Engines – Machinery – Robotic – Tools – Industrial Process – Metallurgy

**Invention ID: IR - 9829****Inventor(s):**

Hamzeh Najafimehr

Invention Title:

Virtual Reality Personal Development Simulator.

Invention Description:

Unveiling the Virtual Reality Personal Empowerment Simulator–harnessing VR's immersive power and cutting-edge personal development insights for a unique, transformative self-improvement journey.

Category:

N) Hardware – Software – Cybersecurity – Blockchain – Internet of things (IoT)

**Invention ID: IR - 9830****Inventor(s):**

Ali Gharadaghi, Maryam Aghaei Meybodi

Invention Title:

Software hardware AI for psychological training (person–couple oriented) based on biofeedback.

Invention Description:

Addressing the growing need for psychological support, this innovation employs Android and IOS-compatible wearables to measure key indicators. Integrated AI communicates purposefully, creating a calming effect for individuals.

Category:

N) Hardware – Software – Cybersecurity – Blockchain – Internet of things (IoT)

**Invention ID: IR - 9831****Inventor(s):**

Ardavan Anvari, Arsalan Anvari, Amin Dehqan Nazarabadi, Masoud Arabameri, Mohammadhossein Sharifnia

Invention Title:

Rechargeable Mechanical Battery Based on Structural-Improved Helical Spring.

Invention Description:

The need for renewable energy and energy storage is a concern. This invention solves the problem by using mechanical mechanisms and improved springs to store electrical energy, eliminating the reliance on chemical batteries and reducing environmental complications.

Category:

P) Energy – Renewable and green energy

**Invention ID: IR - 9832****Inventor(s):**

Mehran Khosrowtash

Invention Title:

Isolated Sleeping Tent.

Invention Description:

Thermal isolated sleeping tents, reduce energy costs at night, by heat exchange unit, recycle energy, and reduce noise by acoustic material, designed for each desire and person. A smart A/C electronic filter makes it comfortable and healthy, finally, the annual cost of energy becomes 1/3.

Category:

P) Energy – Renewable and green energy

**Invention ID: IR - 9833****Inventor(s):**

Keivan Kohzadi

Invention Title:

Magnetic Fully Suspension Vertical Axis Wind Turbine.

Invention Description:

The Magnetic Fully Suspension Vertical Axis Wind Turbine is a cost-effective and efficient solution for generating electricity in medium-low wind areas. Its friction-free design reduces maintenance needs, making it a sustainable option for renewable energy production.

Category:

P) Energy – Renewable and green energy

**Invention ID: IR - 9834****Inventor(s):**

Maryam Rastegari, Alireza Rastegari

Invention Title:

Systems and methods for designing and fabricating an improved multi-componential complex washing and fire-fighting device.

Invention Description:

Devices exist for washing surfaces with fluid beds, often using water. However, current processes have limitations, including long washing and drying times, and damaging effects on surfaces. This invention uses a multi-component system to improve cleaning and sanitization, reducing drying time and minimizing damage.

Category:

A) Mechanics – Engines – Machinery – Robotic – Tools – Industrial Process – Metallurgy

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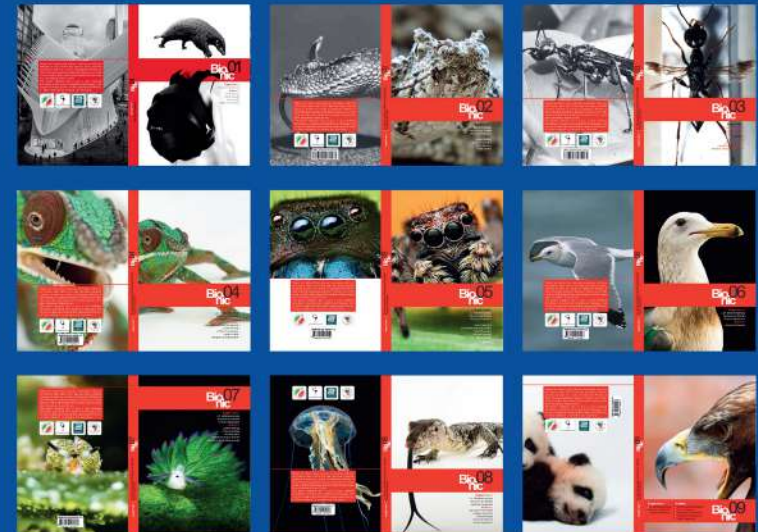
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**Invention ID: IR - 9835****Inventor(s):**

Mehdi Ghasemalipour

Invention Title:

Automatic dog training device at home using image processing.

Invention Description:

This device has a surveillance system through a camera that examines the dog's basic actions and tasks at home and by using the training model of giving treats to the dog, it automatically conditions the training process in their minds. By using this device, there is no need for the dog owner to spend extra time on training.

Category:

H) Agriculture – Forestry and Garden – Pet and Farm Animal Supplies

**Invention ID: IR - 9836****Inventor(s):**

Roza Mohammadi Elizeei

Invention Title:

Keyboard to express the needs of autistic children.

Invention Description:

This device is designed to solve the problem of directly expressing the basic needs of autistic children to help ease their daily life so that these people can express their needs in the best way, considering the disabilities they have, especially at a young age, using the machine learning algorithm of this device.

Category:

M) Medical Technology – Medical Engineering – Medicine – Hygiene

**Invention ID: IR - 9837****Inventor(s):**

Soheyl Keyghobadi, Jafar Saemi

Invention Title:

Flat air conditioner equipped with a triangular rotary compressor.

Invention Description:

It is an invention in the field of cooling facilities of the building, which tries to solve the problem of the protrusion created on the surface of the internal and external walls of the building by the existing gas coolers.

Category:

D) Sanitation – Ventilation – Heating

**Invention ID: IR - 9838****Inventor(s):**

Seyed Amir Mahmoud Hashemi Marghzar, Parisa Joshaghani

Invention Title:

Portable Exhaust Fan for Polluted (Microbial & Viral)

Invention Description:

A portable device for air disinfection, both microbial and viral, is an accessory that can be connected to a dental unit. It operates by creating a mechanical airflow at a higher speed than the moving of contagious contaminants. It is accompanied by various methods of microbial and viral disinfection, aiming to prevent the transmission of such contaminants to doctors who have close proximity to patients, especially dentists.

Category:

M) Medical Technology – Medical Engineering – Medicine – Hygiene

**Invention ID: IR - 9839****Inventor(s):**

Seyed Amir Mahmoud Hashemi Marghzar, Saeed Mehrali

Invention Title:

Green Flush Tank.

Invention Description:

Using the green flush tank eliminates the need for pipes related to the risers of HVAC devices, resulting in more space in the architecture and reducing construction costs. Additionally, using this flush tank helps save drinking water. The flush tank has an automatic discharge system that, when the water trap depth decreases due to surface evaporation, automatically flushes to prevent odor and the entry of harmful insects into the clean space.

Category:

C) Building – Architecture – Civil Engineering – Construction – Materials – Woodwork

**Invention ID: IR - 9840****Inventor(s):**

Ariamehr Maleki, Alireza Maleki

Invention Title:

Gold, Silver coin and Bullion authentication machine based on Artificial Intelligence.

Invention Description:

In this project, we made a system that can test the authenticity of gold, silver coins and bullions by analyzing 6 parameters using a series of image processing without the need to open the cover of coins and 3 additional parameters if opened, with the devices that we developed.

Category:

A) Mechanics – Engines – Machinery – Robotic - Tools – Industrial Process – Metallurgy

**Invention ID: IR - 9841****Inventor(s):**

Seyed Ahmadreza Ahmadi, Mohammadreza Karimi, Yasamin Ghahramani

Invention Title:

Breast cancer detection device using visible lights and camera.

Invention Description:

The first symptom of breast cancer is the presence of a lump or bump in the breast tissue, a device with a visible light spectrum and image processing by a camera that can perform the examination and prevention of breast cancer without the use of radiation.

Category:

M) Medical Technology – Medical Engineering – Medicine – Hygiene

**Invention ID: IR - 9842****Inventor(s):**

Yasamin Ghahramani, Seyed Ahmadreza Ahmadi, Mohammadreza Karimi, Helen Emad

Invention Title:

First Aid Kit for Avulsed Tooth.

Invention Description:

This device is used to save a pulled tooth due to forces applied to the tooth. By placing the orthodontic wire and the extracted tooth in the tool and fixing it with the screw on the tool, the resin material is removed from around the holes of the tool and hardened by the ultraviolet flashlight.

Category:

M) Medical Technology – Medical Engineering – Medicine – Hygiene

**Invention ID: IR - 9843****Inventor(s):**

Mohammadali Gharibdoost

Invention Title:

Smart Portable Automatic IV Injection and PIVC Placement Device.

Invention Description:

A smart portable intravenous injection device that can automatically find each person's vein and perform an injection or blood draw as well as peripheral intravenous catheter placement. One of the features of this device is its self-sufficiency and portability, which operates independently without the need for a professional operator with its smart capabilities.

Category:

M) Medical Technology – Medical Engineering – Medicine – Hygiene

**Invention ID: IR - 9844****Inventor(s):**

Behnam Gorouhi

Invention Title:

Asphalt with the ability to absorb pollution.

Invention Description:

New asphalt mixture with additives absorbs & neutralizes pollutants like nitrogen oxides. Using titanium dioxide nanoparticles, zeolite, and active carbon, greenhouse gas emissions are reduced. Modular pavement systems with replaceable absorbent layers remove pollutants in highly polluted areas.

Category:

C) Building – Architecture – Civil Engineering – Construction – Materials – Woodwork

**Invention ID: IR - 9845****Inventor(s):**

Hossein Eshraghi Varnamkhasti, Mahla Hanri

Invention Title:

Ice cream maker with different forms and patterns.

Invention Description:

The invention of the ice cream maker with different forms and patterns revolutionized the frozen dessert industry by introducing a versatile machine capable of creating ice cream in a variety of shapes and designs. This innovative device incorporates interchangeable molds and pattern plates, allowing users to produce not only traditional scoops but also intricate shapes such as stars, hearts, and even custom logos.

Category:

Q) Paramedical – Health – Foodstuffs – Drinks – Cosmetics

**Invention ID: IR - 9846****Inventor(s):**

Reyhaneh Mostafanejad

Department of Health Policy and Management, School of Management and Medical Informatics, Tabriz University of Medical Sciences, Tabriz, Iran

Nafiseh Ghassab Abdollahi

Department of Geriatric Health, Faculty of Health Science, Tabriz University of Medical Sciences, Tabriz, Iran

Invention Title:

Safe female external urinary catheter with anti-leak capability and reduction of infections caused by using the catheter.

Invention Description:

The safe female external urinary catheter is a solution to minimize indwelling catheterization in female patients, reducing infections and leakage. Designed for female anatomy, it directs urine effectively without harming the genital system. It benefits patients with movement restrictions, those needing rest, and hospitalized patients on diuretics, lowering fall risks. Unlike options for males, female catheters are limited, with leakage issues. This catheter is cost-effective, comfortable, and safe.

Category:

M) Medical Technology – Medical Engineering – Medicine – Hygiene



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To get your required assistance, you can contact Madeleine Key via the below email: andrew.k@inventright.com or visit the website: <https://www.ifa.com/ifa-and-inventright-project/>

**Invention ID: IR - 9847****Inventor(s):**

Mostafa Shamlouei, Hamed Aghazadeh, Sobhan Aboulhassanzadeh, Samin Aboulhassanzadeh, Parvin Karimi, Parastoo Taheri, Mahsa Parsa, Zahra Sadat Mousavian Hiagh, Ali Mohammadiounotikandi, Shidoosh Homayoon, Hossein Belghyisabadi

Invention Title:

Lung Cancer Antibody Production.

Invention Description:

The NCL protein plays a vital role in lung cancer growth. Conventional treatments have limitations. Monoclonal antibodies targeting NCL's central region offer a promising future choice. A mouse mAb was produced, showing potential in inhibiting cell proliferation and inducing apoptosis, offering a more effective way to manage lung cancer.

Category:

M) Medical Technology – Medical Engineering – Medicine – Hygiene

**Invention ID: IR - 9848****Inventor(s):**

Hossein Khademi

Invention Title:

Thimble for reading books by optical character reader and podcast.

Invention Description:

The introduction of the thimble for reading books, designed to be placed on a child's finger, is a remarkable innovation in the field of education. This device allows children to hear stories in audio format simply by touching the text of the book. The use of OCR technology enables the device to recognize the text when the child touches the book, while podcast technology converts the text into audio format.

Category:

O) Teaching Research – Pedagogical Items

**Invention ID: IR - 9849****Inventor(s):**

Zohreh Eftekhari

Invention Title:

Shared platform for information database and indexing systems.

Invention Description:

These systems allow for the determination of metrics for the information source, providing valuable insight into the quality and impact of the resource. This invention has greatly improved the ability to evaluate and assess the value of information sources, ultimately benefiting researchers, educators, and the broader academic community.

Category:

O) Teaching Research – Pedagogical Items

**Invention ID: IR - 9850****Inventor(s):**

Mohammadjavad Safari

Invention Title:

Rescue device in accidents.

Invention Description:

This invention is a rescue device during accidents that can facilitate the rescue process by announcing the accident to the relevant references and performing protocols.

Category:

E) Security – Rescue – Alarm

**Invention ID: IR - 9851****Inventor(s):**

Saeb Ghanbari

Invention Title:

Floating collector and recycler of microplastic from the sea.

Invention Description:

A floating machine that gathers microplastic from the sea and makes granules from them using ship exhaust heat its movement is through connecting to ships.

Category:

A) Mechanics – Engines – Machinery – Robotic – Tools – Industrial Process – Metallurgy

**Invention ID: IR - 9852****Inventor(s):**

Seyedradin Sadri, Mohamadsaleh Seydanloo

Invention Title:

Energy resources care and control device.

Invention Description:

Device has been developed to monitor the water and gas consumption of household users. The objective is to regulate and define energy usage limits for individual consumers. Flowmeter sensors are employed to detect water consumption, generating variable voltages (ranging from 0 to 12 volts) based on water movement. The voltage decreases with higher water input, while increased water flow raises the sensor's output voltage.

Category:

P) Energy – Renewable and green energy

**Invention ID: IR - 9853****Inventor(s):**

Amir Ahkami, Mehdi Ahkami

Invention Title:

Vertical and horizontal cutting machine for concrete and reinforced concrete walls and tables.

Invention Description:

This device is connected as one piece to small and large industrial machines with hydro

pumps and diesel engines. It moves up and down with a hydraulic movable base and the cutting blade. It is adjustable for cutting concrete tables and concrete walls and columns.

Category:

A) Mechanics – Engines – Machinery – Robotic – Tools – Industrial Process – Metallurgy



Invention ID: IR – 9854

Inventor(s):

Saeid Abazari, Mehran Dehghan

Invention Title:

The generator for producing piston continuous motion inside the vertical cylinder by the gravitational force and magnetic field.

Invention Description:

In this system there is a vertical cylinder in which a piston with serrated blades moves. Each time, the piston moves downward due to gravity and is thrown upward due to the force of the spring and magnetic field and engages with the gears at the top and bottom of the cylinder and creates mechanical movement and finally electricity is produced. This cycle is repeated.

Category:

P) Energy – Renewable and green energy



Invention ID: IR – 9855

Inventor(s):

Yashar Salahi

Invention Title:

Mobile Folding Lock Design with an Educational Approach and Helps to Rest the Eyes

Invention Description:

The present invention is a type of hardware lock that works by creating a flexible cover on the functional screen of the mobile phone according to the commands of the software system for a certain period and opening it after answering the challenge created. This invention is designed with a focus on timing the use of mobile phones along with challenging children and teenagers in the field of education, especially answering the lesson questions correctly until the mobile phone screen cover is fully opened. The challenge can be applied based on specific software commands in different fields. In addition, long-term staring at the phone screen causes blurred vision and dry eyes. To help rest the eyes in the target community, the challenge is displayed in the form of an image created by laser radiation on a distant screen (such as a wall floor or ceiling) so that the eyes rest by changing the viewing distance.

Category:

N) Hardware – Software – Cybersecurity – Blockchain – Internet of things (IoT)



Invention ID: IR – 9856

Inventor(s):

Mohammad Aligholipour

Invention Title:

Smart Ventilator.

Invention Description:

The device in question is a portable electronic cardiac shock and pulmonary resuscitation gadget with relatively small and wearable dimensions that can be used for cardiopulmonary resuscitation. Due to the fact that people with a high risk of heart failure are always at risk of death due to this. It is very noticeable that there is a device that reduces this risk. In the existing methods, this resuscitation is done by cardiac massage and chest compression, which is undeniable due to the fatigue of the person, even if he is skilled, the injuries caused by pressure and fatigue, and the reduction of power. Also, the available devices have very large dimensions, which are always difficult for a person to carry due to their size and weight. This gadget revives two very important vital signs with mechanical pressure on the chest and sides through air pressure and an artificial breath system.

Category:

M) Medical Technology – Medical Engineering – Medicine – Hygiene



Invention ID: IR – 9857

Inventor(s):

Bahar Shateri, Erfan Salah Zadeh, Nazila Farhangighalehjoughi, Salar Asgharzadeh

Invention Title:

Disinfectant and Anti-Bleeding Wound Dressing Design Using Joro Spider Web (Trichonephila Clavate).

Invention Description:

The plan aims to create a wound dressing using an electro spun spider web with antimicrobial and anti-hemorrhage nanocomposites to control the biochemical states of the wound, improve moisture absorption, prevent infection, and accelerate healing. The plan includes the use of hematite/coffee and magnetite/coffee nanocomposites to enhance wound healing and blood circulation. The dressing is biodegradable and aims to solve problems with existing adhesives.

Category:

M) Medical Technology – Medical Engineering – Medicine – Hygiene



Invention ID: IR – 9858

Inventor(s):

Alireza Teimoury

Invention Title:

Holder of laboratory glass containers on heat with the ability to determine the temperature and measure the pressure on the glass and control the programmable, desired temperature.

Invention Description:

Lab glass holder: Integrates temperature, and pressure control for safe heating. Programmable design prevents overheating and ensures precision. Real-time monitoring, automatic adjustments, and data recording enhance efficiency and safety.

Category:

Q) Paramedical – Health – Foodstuffs – Drinks – Cosmetics

Celebrating Ingenuity: The Role of Invention Festivals & IFIA in Fostering Global Innovation

Throughout history, human ingenuity has been the driving force behind groundbreaking advancements that have shaped our world. From the invention of the wheel to the discovery of penicillin, these innovations have revolutionized industries, improved lives, and propelled humanity forward. At the heart of this relentless pursuit of progress lies the inventor, the visionary mind that dares to challenge the status quo and dream up solutions to the world's most pressing challenges.

Invention festivals and fairs serve as crucial platforms for showcasing these creative minds and their transformative inventions. These events provide a vibrant stage for inventors to present their work to a global audience of potential investors, industry experts, and fellow innovators. The exchange of ideas, the exposure to diverse perspectives, and the recognition of groundbreaking inventions fuel the engine of innovation, fostering collaboration and accelerating the pace of progress.

The International Federation of Inventors' Associations (IFIA) stands as a beacon of support for inventors worldwide, playing a pivotal role in nurturing the global innovation ecosystem. Through its extensive network of member associations, IFIA facilitates knowledge sharing, promotes international cooperation, and advocates for policies that empower inventors to bring their ideas to life.



Success through Global Collaboration

IFIA's commitment to fostering innovation is evident in its organization of numerous international invention exhibitions and competitions. These events provide a launchpad for inventors to showcase their creations, gain recognition for their ingenuity, and connect with potential partners who can help bring their inventions to market. IFIA's flagship event, the Geneva Invention Fair, has become a premier gathering for innovators from across the globe, attracting thousands of participants and generating a wealth of opportunities for collaboration.

Advocating for Policies that Empower Inventors

IFIA's advocacy efforts extend beyond the realm of events, actively engaging in policy discussions that shape the environment for innovation. The federation recognizes that a supportive policy framework is essential for fostering a thriving innovation ecosystem. By advocating for strong intellectual property protection, streamlined patent processes, and targeted funding initiatives, IFIA empowers inventors to pursue their dreams with confidence, knowing that their groundbreaking ideas will be valued and protected.

Nurturing the Next Generation of Innovators

IFIA's vision extends beyond the present, recognizing the importance of inspiring and nurturing the next generation of innovators. The federation actively engages with young minds through educational programs, mentorship initiatives, and youth invention competitions. By fostering a passion for innovation in young minds, IFIA ensures that the spirit of ingenuity will continue to thrive for generations to come.

Conclusion

Invention festivals and fairs, championed by organizations like IFIA, serve as catalysts for global innovation, providing a platform for inventors to showcase their groundbreaking creations, connect with potential partners, and gain the recognition they deserve. These events, coupled with IFIA's advocacy efforts and commitment to inspiring young minds, create an ecosystem that empowers inventors to transform their ideas into reality, shaping a brighter future for all.

IFIA Publication Department

**Invention ID: IR - 9859****Inventor(s):**

Abolfazl Barzegari, Hossein Ghasemimoghaddamsadabadi, Hamed Serati Nouri

Invention Title:

Stem cell wax spray formulated for emergency use in severe burns.

Invention Description:

Emergency burns need immediate medical care, but delays during crises can be fatal. Research shows exosome secretions and mesenchymal stem cells are effective for severe burns. Tabriz University has developed a spray with stem cell secretions, growth factors, and antimicrobial peptides for emergency treatment and as a supplement, showing excellent results in clinical studies.

Category:

M) Medical Technology – Medical Engineering – Medicine – Hygiene

**Invention ID: IR - 9860****Inventor(s):**

Vesal Firoozi

Invention Title:

Novel improved multi-component laser positioning, continuous coordinate situation monitoring, and instant spatial data mining, based on multiple mechanisms.

Invention Description:

An advanced multi-component positioning system, using laser light and synced hybrid devices, employs laser interferometry and modular encoding techniques. This optimized system offers improved technical abilities compared to existing ones, enabling precise and energy-efficient tracking of objects' locations and coordinates. It utilizes four effects: the Faraday effect, Interferometry, Amplitude-frequency manipulation of laser waves, and Electron hectic dance prevention, to enhance the accuracy and quality of instant positioning.

Category:

N) Hardware – Software – Cybersecurity – Blockchain – Internet of things (IoT)

**Invention ID: IR - 9861****Inventor(s):**

Davoud Beheshtizadeh, Mohammad Keyhani, Alisalar Keyhani, Hadi Rouhi Belvirdi, Hassan Nadiri Niri

Invention Title:

High-strength recycled Concrete Powder Using Construction Waste and Building Industry Waste by Centrifugal Force Separation Method (Green Concrete).

Invention Description:

Our Inventors team has developed a new, cost-effective method that utilizes advanced Nano-Technology to recycle and produce concrete from construction waste and projects. This innovative approach involves different separations and centrifugal force to create High-Strength Powder Environmentally friendly recycled concrete, also known as green concrete. Green concrete production reduces greenhouse gas emissions by minimizing the consumption of cement and new construction materials. This design has been officially patented and has

received numerous prestigious international Awards.

Category:

C) Building – Architecture – Civil Engineering – Construction – Materials – Woodwork

**Invention ID: IR - 9862****Inventor(s):**

Davoud Beheshtizadeh, Hassan Nadiri Niri, Davood Jafari, Mohammad Keyhani

Invention Title:

Ultra Lightweight Concrete Wall Panel.

Invention Description:

As we need to lighten and improve the performance of the building against earthquakes and also increase the speed of execution and more efficient productivity of manpower in construction workshops, making new materials with new methods and machinery, is among the necessities of engineering and construction management. One of these new methods is the invention, design, and making of a kind of wall concrete panel with ultra-lightweight concrete technology with high strength, which can be one of the best-selling and most important products in the construction industry. These panels can be used in surrounding walls and interior partitions. In addition, their easy transportation with high installation speed has considerably reduced the time and execution costs. The designed ultra-lightweight concrete panels have national and international patents and approvals.

Category:

C) Building – Architecture – Civil Engineering – Construction – Materials – Woodwork

**Invention ID: IR - 9863****Inventor(s):**

Davood Jafari, Davoud Beheshtizadeh, Sina Fard Moradina (Department of Civil Engineering, Tabriz Branch, Islamic Azad University, Tabriz) Seyedmohammadmahdi Azimi, Hadi Rouhi Belvirdi, Avesta Mohammad Ebrahim, Massoud Mohammad Ebrahim

Invention Title:

Structures and Pre-fabricated High-Resistance Concrete Villas with a Thin Shell of High-Strength Concrete and Insulation (heat-cooling-moisture insulation).

Invention Description:

Invented precast concrete structures are a new type of high-strength precast concrete components that are shipped to the project site for installation. In this invention, the prefabricated structure is made in the form of a thin shell of high-strength concrete, and the new generation concrete is poured into the shells at the place of installation. Its connections are designed in the form of a puzzle, and this structure is equipped with a solar cell system on the roof for its electricity supply and is equipped with a sewage treatment system, and will have wide applications as prefabricated concrete villas.

Category:

C) Building – Architecture – Civil Engineering – Construction – Materials – Woodwork

**Invention ID: IR - 9864****Inventor(s):**

Hasti saddat Hosseini

Invention Title:

Protective devices against HPV.

Invention Description:

Hence, %98 of HPV is transmitted through sexual intercourse. The invention of these three devices protects people from contracting this virus and also allows people with HPV to have sex without risk and experience security.

Category:

Q) Paramedical - Health - Foodstuffs - Drinks - Cosmetics

**Invention ID: IR - 9865****Inventor(s):**

Alireza Hashemi Mohsen Zarei, Mohammad amin Amini, Alimohammad Jafarjahed, Seyedeh Hamideh Hosseini, Karim Salehi cholcheh, Salahuddin Moazen, Maryam Yaqoobi

Invention Title:

Smart bracelet for Breastfeeding mothers with the ability to control breastfeeding during nervous tension.

Invention Description:

High levels of nervous tension can detrimentally affect both breastfeeding mothers and the growth of infants. When mothers experience heightened nervous tension, it leads to changes in various health parameters. To address these issues, a specialized smart bracelet designed for breastfeeding mothers is equipped with sensors and modules.

Category:

Q) Paramedical - Health - Foodstuffs - Drinks - Cosmetics

**Invention ID: IR - 9866****Inventor(s):**

Alireza Hashemi, Eqbal Moghadam sabouri, Nafiseh Torabi, SeyedAmirhossein Naghavi, Parisa Seydiyeh, Amirmahdi Yonesy Vaghar, Fatemeh Hashemi, Seyedeh Anita Goftari, Mojtaba Behzadmehr

Invention Title:

Electronic device to increase the strength and range of tongue muscles' movements.

Invention Description:

Muscle weakness in the tongue is prevalent in various conditions, such as dysarthria. Numerous studies indicate that exercises targeting tongue movements can enhance swallowing and speech abilities. The proposed invention introduces an electronic, intelligent system that operates without external force, enabling diverse exercises in different directions and with varying forces on the tongue.

Category:

M) Medical Technology - Medical Engineering - Medicine - Hygiene

**Invention ID: IR - 9867****Inventor(s):**

Alireza Hashemi

Invention Title:

Car seatbelt buckle with the ability to prevent the belt from locking during accidents (Smart car seatbelt cutter).

Invention Description:

Although fastening a seat belt is one of the most effective safety measures and is legally mandated, there are instances, particularly during accidents and airbag inflation, when the seat belt becomes locked.

Category:

J) Traffic - Transport - Car Accessories

**Invention ID: IR - 9868****Inventor(s):**

Vahid Khorri, Mirmohammadhosseinali Sharifiandavaei, Saeed Golfirozi, Farahnazsadat Ahmadi, Reza Hayatbakhsh, S.Aliakbar Mirmohammadi, Amirhoushang Pourkhani, Taghi Amirani, Anahid Khorri, Massod Khoshnia, Hossein Tazik, Angiography center of Hospital Amiralmomenin Kordkuy, Golestan University Of Medical Science

Invention Title:

AI-Enhanced Endoscopic Ultrasound Guided RFA with Nano Microsphere Eluting Drug Delivery Platform for Comprehensive Targeted Pancreatic Cancer Treatment.

Invention Description:

The innovative AI-enhanced EUS-guided RFA system with a drug-eluting catheter offers a comprehensive solution for the precise and targeted treatment of pancreatic cancer. By integrating advanced technologies, drug delivery methods and Artificial intelligent, this system aims to optimize therapeutic outcomes by combining the benefits of radiofrequency ablation (RFA) with the localized delivery of therapeutic agents such as Micro RNA, Dexamethasone, Infliximab, Tofacitinib, and Cerivastatin.

Category:

M) Medical Technology - Medical Engineering - Medicine - Hygiene

**Invention ID: IR - 9869****Inventor(s):**

Fateme Behroozi, Hamed Ahari, Amir Khosrojerdi, Amirali Anvar, Sara Allahyaribeik, Fereshte Sahraei, Sima Moradi

Invention Title:

Nanofiltration design by Green Synthesis of Zeolite and Reduced Graphene oxide nanocomposite by polyphenol extracted from Nanoemulsion of Rosa damascene in order to remove Nitrate and microbial contamination from waste and effluents of food industry.

Invention Description:

Due to water shortage and the possible dangers of contaminated water, taking an innovative approach may be our best hope in the long term. Using pioneering nanotechnology such as nanofiltration membranes leads to enhance water quality and deplete microbial and chemical pollution. Using Reduced Graphene oxide and Zeolite nanocomposite approach with the Green Synthesis method results in producing nanofiltration.

Category:

Q) Paramedical - Health - Foodstuffs - Drinks - Cosmetics

Partner of WIPO GREEN



IFIA-WIPO Green Innovation

The Marketplace for Sustainable Technology

WIPO GREEN is an online platform for technology exchange. It supports global efforts to address climate change by connecting providers and seekers of environmentally friendly technologies. Through its database, network and acceleration projects, it brings together key players to catalyze green technology innovation and diffusion.

In a serious attempt to address climate change and facilitate the commercialization of inventions, IFIA, representing 185 associations, universities, research centers and companies will join WIPO Green as a Partner.

IFIA BECOME A PARTNER OF WIPO GREEN

In a serious attempt to address climate change and facilitate the commercialization of inventions, IFIA, representing 185 associations, universities, research centers and companies will join WIPO Green as Partner.

IFIA's partnership in WIPO GREEN, an online marketplace aiming to accelerate the development and deployment of green technologies, provides an outstanding opportunity for the members to connect with key global partners, the potential licensees, potential funders, and technology seekers from all around the world.

The inclusion of IFIA Green innovations in WIPO

GREEN database which assembles in one place technologies at all stages of development – from upstream research to marketable products (and everything in between), makes them available for license, collaboration, joint ventures and sale.

WIPO GREEN seeks to overcome some of the complex challenges that often hamper rapid and broad diffusion and uptake of much needed green technologies. By injecting greater transparency into the green technology market, it seeks to encourage more active exchange creating opportunities for solutions that work in one part of the world to be applied elsewhere.

"The platform allows both the providers and the seekers of technology to communicate, to understand and know which technologies are available and how they can be accessed," notes Zitouni Ould-Dada, Head of Technology Unit at UNEP.

IFIA and WIPO Green Division have endorsed an agreement to form bilateral cooperation under the framework of a Memorandum of Understanding (MOU) so that IFIA, being a potential provider of Green technologies and WIPO, having a strong network of technology seekers can deal with the ever-rising challenge of climate change.



Invention ID: IR - 9870

Inventor(s):

Alireza Irani

Invention Title:

Lighting using current transformer

Invention Description:

This innovation is a kind of lighting that is installed on mid-voltage power lines to supply lighting for public routes and roads. Moreover, the innovation is small in dimensions, has low weight, and is in the form of a clamp. These attributes make the creation easier to install and remove by the project executor and useable on high voltage power lines.

Category:

B) Electronics – Electricity – Methods of Communication



Invention ID: IR - 9871

Inventor(s):

Hoda Hamzehloo, Behzad Kavand

Invention Title:

CYRUS next Generation Industrial Firewall with defense-in-depth capability for Layer 2 and 3 Protocols.

Invention Description:

CYRUS Industrial Firewall is regarded as the first industrial firewall with an integrated engine for Deep Packet Inspection (DPI) of industrial communication traffic for layer 2 and 3 protocols, industrial VPN, industrial IDS & IPS (Intrusion detection systems (IDS), and intrusion prevention systems (IPS)) and vulnerability signatures. It has the possibility of deploying a firewall in various network models and architectures, including Passive Mode, Transparent Mode, and Routing Mode. Moreover, it performs the coverage of the largest number of industrial protocols without paying attention to their communication medium, whether it is a layer 2 network like serial or a layer 3 network like Ethernet, and comprehensively protects the whole cyberspace of the industrial environment.

Category:

N) Hardware – Software – Cybersecurity – Blockchain – Internet of things (IoT)



Invention ID: IR - 9872

Inventor(s):

Farhad Laheghi Nejad

Invention Title:

Marine Antifouling Paint Using Synthesis of Cellulose Acrylate Copolymers.

Invention Description:

This invention involves the production of marine antifouling paint using the synthesis of cellulose acrylate copolymers. One of the most effective marine antifouling paints was self-polishing paints based on acrylate resins containing tributyltin, which were banned due to the toxicity of tin compounds. One of the best alternatives

introduced are self-polishing paints based on cellulose acrylate copolymers, but their performance is weaker and they have a shorter lifespan. In this invention, cellulose acrylate copolymers with controlled structures, including at least one soft monomer such as butyl acrylate, ethyl acrylate, etc., at least one hard monomer such as methyl methacrylate, 2-methoxyethyl methacrylate, etc., and at least one reactive monomer such as triazopropylsilyl acrylate, triazopropylsilyl methacrylate, tris (hydroxybutyl) dimethylsilyl methacrylate, and trimethylsilyl methacrylate, were synthesized, in which the hard monomer or monomers were gradually added to the reactor over a period of 2-6 hours.

Category:

C) Building – Architecture – Civil Engineering – Construction – Materials – Woodwork



Invention ID: IR – 9873

Inventor(s):

Alireza Danehpash

Invention Title:

Portable system for crude oil primary processing focused on oil wells.

Invention Description:

The invention of a mobile package for primary oil processing is designed to prevent the burning of oil and to preserve the environment, taking into account the concerns of the Ministry of Petroleum to prevent the burning of oil in wells. This device includes various equipment required for processing oil at the wellhead, such as separators, desanders, descalers, surge tanks, oil transfer pumps, data collection systems, laboratories, chemical injection pumps, air supply units, nitrogen generator capsules, power generators, etc. It is deployed at the wellhead for various drilling, production, and maintenance operations. The impure and contaminated oil is purified and refined after passing through this device and is pumped to factories and operating stations through pipelines. In the absence of this device, contaminated oil from drilling, production, and maintenance operations must be burned, which leads to environmental problems and significant economic losses for the country.

Category:

A) Mechanics – Engines – Machinery – Robotic – Tools – Industrial Process – Metallurgy



Invention ID: IR – 9874

Inventor(s):

Kamelia Ahmadkhan

Invention Title:

Project Safety and Executive Management based on IOT and AI.

Invention Description:

The project manager wristband tracks worker progress and safety data to improve project efficiency and reduce accidents. It uses sensors, worker input, and image

recognition to monitor tasks and provide workers with training and safety tips. This creates a safer work environment and helps managers make better project plans.

Category:

N) Hardware – Software – Cybersecurity – Blockchain – Internet of things (IoT)



Invention ID: IR – 9875

Inventor(s):

Farzad Khalilimehr

Invention Title:

Fully automatic cleaning and testing system for catalysts and filters for reuse

Invention Description:

The washing and testing device for catalysts and filters is designed in a way that automates the entire process of testing and washing exhaust catalysts and filters of machinery and vehicles. By placing the component in the device reservoir, initially an endoscopic image of the inside of the catalyst is obtained to determine the internal integrity of the component. Subsequently, a pressure pump and sensor are engaged to test the component for any defects by introducing compressed air. Based on the information gathered by the sensors from the component, the concentration of the washing liquid, solution temperature, and input pressure are adjusted, and a variable pump is used to introduce liquid at non-uniform pressure for improved washing process. During washing, control sensors monitor the output liquid, adjusting temperature and concentration as needed, signaling the end of washing if necessary. After completion, the system enters a rapid drying phase where hot air is introduced under pressure. Finally, a health check and gas test are conducted to ensure compliance with necessary standards.

Category:

A) Mechanics – Engines – Machinery – Robotic – Tools – Industrial Process – Metallurgy



Invention ID: IR – 9876

Inventor(s):

Karen Momeni Demneh, Dr. Mohammadshafiee Research and Educational Institute

Invention Title:

Synthesis of pharmaceutical precursors of pyran and dihydropyridine using active substances extracted from medicinal plants.

Invention Description:

Extracted from turmeric, curcumin is a natural compound with a long history in herbal medicine (liver, rheumatism) and exciting possibilities for modern treatments (cancer, immune system). Studies investigate curcumin's effectiveness against a range of ailments, even showing potential benefits for COVID19-. This research explores curcumin's potential as a bridge between traditional and cutting-edge medicine.

Category:

M) Medical Technology – Medical Engineering – Medicine – Hygiene



Invention ID: IR - 9877

Inventor(s):

Seyed Mohammadsamyar Sari, Arian Nourani, Dr. Mohammadshafiee Research and Educational Institute

Invention Title:

Synthesis of magnetic nanoparticles of nickel-iron oxide coated with silica for catalytic use Researchers.

Invention Description:

This project aims to create magnetic nickel iron oxide nanoparticles for organic chemistry reactions. These nanoparticles can be easily separated due to their magnetism, improving reaction efficiency. Their nano size offers a large surface area for reactions. Using nickel and iron keeps costs low compared to expensive alternatives like gold or platinum.

Category:

C) Building – Architecture – Civil Engineering – Construction – Materials – Woodwork



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Invention ID: IQ - 40

Inventor(s):

Dr. Ali Abbas Hadi, Dr. Maryam Dhari Kamil, Dr. Mohammed Sabah Ali

Invention Title:

The Early Diagnosis of Cancer Diseases According to the Point Mutation in the First Exon of CRP gene .

Invention Description:

A point mutation in the CRP gene is a good tool in screening for early diagnosis and a better chance for treatment with cancer and ultimately better patient survival.

Category:

M) Medical Technology – Medical Engineering – Medicine – Hygiene



INVENTOR ASSISTANCE PROGRAM

IFIA has always struggled to ensure the protection of inventors' rights, support them in the procedure of invention commercialization, and raise awareness about the Patent Cooperation Treaty and Intellectual Property rights through a wide range of activities such as organizing workshops, holding seminars, cooperating with other international organizations and etc. To further assist the inventors in this regard, IFIA has managed to be the sponsor of The World Economic Forum (WEF) and the World Intellectual Property Organization (WIPO) Inventor Assistant Program (IAP) that is in parallel with the primary objectives of IFIA. The principal goal of IAP is to bring as many under-resourced inventors as possible into their local IP systems by giving them the knowledge, tools and means that they need to file complete applications, undergo substantive examination, and ultimately enjoy the benefits of a duly issued patent. Fundamental to this mission is the shared belief that creativity and great ideas come from people of all walks of life, and that a truly successful IP system is therefore one that is accessible to all, without regard to their socioeconomic status, geography or financial means.

There are two paths of admission to IAP, one for pro se applicants who have filed a patent application on their own behalf, and one for those inventors who have not yet filed an application in the local patent office. For the first path, the local Patent Office will be responsible for informing pro se applicants about the WIPO WEF IAP's existence, eligibility criteria, procedures and rules upon receipt of the pro se application. Each applicant will then decide individually whether to apply to the WIPO WEF IAP, which is done directly with the WIPO Clearing House. For the second path, the local Patent Office and/or other local government bodies are expected to assist in promoting the online education program offered by WIPO, or other equivalent courses that may be developed for a specific country and offered through the local patent office. Beginning as a pilot program in Colombia in 2015, the IAP will be set up as a partnership between the national government of each participating country ("Member Country"), WIPO, the WEF's Intellectual Property for Economic Prosperity Project (IPEP) of which this program is part, and IP counsel qualified to practice and represent participating inventors in one or more Member Countries.

Iraq

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Invention ID: IQ - 41

Inventor(s):

Emad Farhan Ali Alkhalidi

Invention Title:

Preparation and Evaluation of a New Calcium Based Cement (Dental Material).

Invention Description:

The aim is the preparation of new calcium-based cement extracted from naturally available and cheap material which is eggshell evaluate according to ADA specification.

Category:

M) Medical Technology – Medical Engineering – Medicine – Hygiene

Iraq

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Invention ID: IQ - 42

Inventor(s):

Bahzad Salih Khaleel

Invention Title:

A new rapid method for splitting water molecules using laser pulses and centrifugation.

Invention Description:

The fastest way to break down the water molecule using laser energy without adding chemicals to the water. It produces liquefied hydrogen gas and is used to operate stations' gas.

Category:

P) Energy - Renewable and green energy

Jordan

Jordan

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Invention ID: JO - 96201

Inventor(s):

Sahar Jaffal

Invention Title:

Mini-incubator carrier box.

Invention Description:

The mini-incubator carrier box is an economic and practical transport system that enables the researchers to fix different containers at different sizes using clamps and screws and to transport the samples for long period of time and long distance under optimized conditions without the need of extra steps/costs.

Category:

M) Medical Technology – Medical Engineering – Medicine – Hygiene

Korea

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Republic of Korea



Invention ID: KR - 8201

Company/Association :

ESGTECH CO., LTD.

Inventor(s):

ESGTECH CO., LTD.

Invention Title:

Storage Container.

Invention Description:

We've developed a pioneering V-shaped folding lid locking method for airtight containers, eliminating side wings for efficient storage of medium to extra-large sizes. Our patented technology enables easy one-touch operation on all four sides, successfully commercialized in domestic and U.S. markets.

Category:

F. Housekeeping – Nutrition



Invention ID: KR - 8202

Company/Association :

ESGTECH CO., LTD.

Inventor(s):

ESGTECH CO., LTD. / Withclean co., Ltd.

Invention Title:

Sealing Cover Having Improved Utility and Sealable Container Having the Same.

Invention Description:

Existing airtight containers with four locking wings have drawbacks: reduced aesthetics, storage inefficiency, and high costs. They are cumbersome to use, clean, and lack appeal as tableware, limiting market expansion. Our sealed container innovation simplifies these issues, addressing longstanding flaws in current designs.

Category:

F. Housekeeping–Nutrition



Invention ID: KR - 8203

Company/Association :

Bionutrigen Co., Ltd.

Inventor(s):

Bionutrigen Co., Ltd.

Invention Title:

Anti-obesity composition containing goji berry leaf extract powder and betaine as active ingredients.

Invention Description:

Slim&Slim is a diet tea made with an anti-obesity food substance 'Slim&Slim' which is extracted from vegetables, fruits, etc. It is useful for reducing body fat, cholesterol, LDL, etc. without any side effect.

Category:

Q. Paramedical – Health – Foodstuffs – Drinks – Cosmetics



Invention ID: KR - 8204

Company/Association :

TOP SYSTEM Co., Ltd

Inventor(s):

TOP SYSTEM Co., Ltd / Kang, Tae-wook

Invention Title:

Solar cell street lights with cooling function.

Invention Description:

Solar streetlights are made of stainless steel pole, auxiliary pillar, and weather-resistant polycarbonate, and solar panels at the top and lamps at the bottom are integrated.

Category:

B. Electronics – Electricity – Methods of Communication



Invention ID: KR - 8205

Company/Association :

CHON YAK SEON.CO.,Ltd.

Inventor(s):

CHON YAK SEON CO, Ltd.

Invention Title:

Antibacterial Tooth Paste Composition with Comprising Agastache Rugos.

Invention Description:

It is a product developed to improve gum disease and oral immunity by using natural and vegetable surfactants.

Category:

Q. Paramedical – Health – Foodstuffs – Drinks – Cosmetics



Invention ID: KR - 8206

Company/Association :

Cocu

Inventor(s):

Chung, Yu-jeong

Invention Title:

Innovative Underwear Preventing Bacterial Infections with a Smart Algorithm for Perfect Body Fit.

Invention Description:

This innerwear prevents bacterial infections like vaginitis. X-Static silver fabric provides antibacterial, odor control. 'Airy Skin' fabric is soft, breathable, elastic, and has minimal seams.

Category:

Q. Paramedical – Health – Foodstuffs – Drinks – Cosmetics



Invention ID: KR - 8207

Company/Association :

Deeper-I Inc.

Inventor(s):

Deeper-I Inc.

Invention Title:

Neural network parameter optimization method, neural network computing method and apparatus thereof suitable for hardware implementation.

Invention Description:

Tachy-Pi Shield, equipped with Deeper-I's custom-designed and patented SoC, Blackswan, is an AI accelerator module compatible with various single-board computers such as Raspberry Pi, and Orange Pi.

Category:

N. Hardware – Software – Cybersecurity – Blockchain – Internet of things (IoT)



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Taiwan Invention Products Promotion Association
Chinese Innovation & Invention Society
The Excellent Inventors Society of The Republic of China
The Union Association of Taiwan Innovations and Inventions
Taiwan Fashion Colour Association



Invention ID: KR - 8208

Company/Association :

Deeper-I Inc.

Inventor(s):

Deeper-I Inc.

Invention Title:

Neural network computing method and apparatus thereof suitable for hardware implementation.

Invention Description:

The Tachy-4S8E20F2 module boasts exceptional performance based on Deeper-i's core patented technologies. Developed through Deeper-i's custom AI solution IP, this module is currently undergoing commercialization with sports enterprises.

Category:

N. Hardware – Software – Cybersecurity – Blockchain – Internet of things (IoT)



Invention ID: KR - 8209

Company/Association :

Jeonju University-Industry Cooperation Foundation

Inventor(s):

Jeonju University-Industry Cooperation Foundation / Naviworks Co. Ltd.

Invention Title:

Controlling Apparatus for Virtual Training, And Control method Thereof.

Invention Description:

This invention is a firefighter virtual reality education and training system that strengthens firefighters' fire suppression and lifesaving capabilities.

Category:

B. Electronics – Electricity – Methods of Communication



Invention ID: KR - 8210

Company/Association :

Jeonju University-Industry Cooperation Foundation

Inventor(s):

Jeonju University-Industry Cooperation Foundation / OKTA Holdings

Invention Title:

A system capable of operating multiple fire extinguishing towers with time difference waterproofing for extinguishing forest fires.

Invention Description:

The selective automatic spraying technology of each fire water spray tower and the automatic detection and operation technology of wildfire spread can protect the entire village.

Category:

H. Agriculture-Forestry and Garden-Pet and Farm Animal Supplies



Invention ID: KR - 8211

Company/Association :

Jeonju University OKTA Holdings

Inventor(s):

Jeonju University-Industry Cooperation Foundation / OKTA Holdings

Invention Title:

Mobile automatic fire extinguishing device for extinguishing electric vehicle battery fires.

Invention Description:

This device including a driving device that moves unmanned, sprays a fire extinguishing agent on an electric vehicle battery pack, and moves the fire vehicle to the outside.

Category:

G. Commercial, Industrial and Office Equipment



Invention ID: KR - 8212

Company/Association :

Jeonju University OKTA Holdings

Inventor(s):

Jeonju University-Industry Cooperation Foundation / OKTA Holdings

Invention Title:

Gas-based automatic fire extinguishing system using the floor of and electric vehicle parking lot.

Invention Description:

An electric vehicle battery fire detection sensor installed on the parking lot floor, deploying a fire extinguishing agent, and a flame retardant concurrently to suppress the fire.

Category:

E. Security-Rescue-Alarm



Invention ID: KR - 8213

Company/Association :

ShoellS Co., Ltd

Inventor(s):

ShoellS Co., Ltd

Invention Title:

Self-Generating and Vibrating Functional Shoe Equipped with GPS Device

Invention Description:

Smart shoes that generate electricity from the pressure applied while walking, using GPS for location tracking and analyzing the user's gait information.

Category:

M. Medical Technology - Medical Engineering - Medicine - Hygiene



Invention ID: KR - 8214

Company/Association :

ShoellS Co., Ltd

Inventor(s):

ShoellS Co., Ltd

Invention Title:

Functional shoes with blood flow improvement and acupressure type structure.

Invention Description:

Our shoes utilize patented technology with a foot acupressure device that stimulates and supports the foot arch, promoting excellent posture and preventing ankle injuries. They also feature medical device-certified vibration chips in the outsole to enhance blood flow, potentially benefiting overall circulation.

Category:

M. Medical Technology-Medical Engineering-Medicine-Hygiene



Invention ID: KR - 8215

Company/Association :

WOOCHANG INNOTECH

Inventor(s):

Lee, Jang-moon

Invention Title:

Button Module Having a Sterilization Function.

Invention Description:

Items equipped with rotary sterilization buttons with actual sterilization function on the elevator driver's seat sample.

Category:

B. Electronics - Electricity - Methods of Communication



Invention ID: KR - 8216

Company/Association :

WORLDCNS. CO., Ltd

Inventor(s):

WORLDCNS. CO., Ltd

Invention Title:

Video surveillance device with motion path tracking technology using multi camera.

Invention Description:

It is a system for a safe city and can be monitored without blind spots by applying multi-megapixel camera configuration technology.

Category:

B. Electronics - Electricity - Methods of Communication



Invention ID: KR - 8217

Company/Association :

Khanfilter Inc.

Inventor(s):

Han, Dae-gon

Invention Title:

General Air Cleaning Device Using DPF Technology.

Invention Description:

This technology applies the principle of Diesel Particulate Filters (DPF), to external applications, rejuvenating the ceramic filter within the module to restore its performance.

Category:

D. Sanitation – Ventilation – Heating



Invention ID: KR - 8218

Company/Association :

Kumoh National Institute of Technology

Inventor(s):

Kumoh National Institute of Technology Industry-Academic Cooperation Foundation

Invention Title:

Improvement methods for KNN algorithm in manufacturing process equipment, maintenance, and repair of steel plates.

Invention Description:

ZeroKit™, equipped with the KCMVP encryption module, is a secure IoT gateway for enhanced data collection and transmission. ZeroWAAS maximizes manufacturing process efficiency.

Category:

N. Hardware – Software – Cybersecurity – Blockchain – Internet of things (IoT)

Oman Oman

Individual Inventor

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+968 9810 3604

Address: Oman, Muscat



Invention ID: OM - 96801

Inventor(s):

Mazin Rashid said Albadi

Invention Title:

Medical Robot.

Invention Description:

This invention offers remote medical consultations using AI and telemedicine. It assesses symptoms, provides preliminary diagnoses, and recommends treatments, enhancing healthcare accessibility and efficiency.

Category:

A) Mechanics – Engines – Machinery – Robotic - Tools – Industrial Process – Metallurgy

IFIA BIONIC

Let's heed the solutions nature is revealing to us...



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Association of Polish Inventors and Rationalizer

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Invention ID: PL - 4801

Inventor(s):

Ewa Panek-Chwastyk, Katarzyna Dabrowska-Zielinska, Anna Markowska, Marcin Kluczek, Marek Pieniazek from Institute of Geodesy and Cartography

Invention Title:

Advanced utilization of satellite and governmental data for determining the coverage and condition of green areas in Poland: an experimental statistics supporting the statistics Poland.

Invention Description:

GAUSS (Generating Advanced Usage of Earth Observation for Smart Statistics) was an 18-month project financed by the European Space Agency. It was led by the National Observatory in Athens (NOA) in collaboration with the Finish Meteorological Institute (FMI), the Institute of Geodesy and Cartography in Warsaw (IGiK), and Evenflow company from Brussels. It aimed to present the possibility of using satellite data in official statistics in the field of monitoring air quality, water resources, snow cover, and the extent and condition of green areas in individual administrative units. In response to the needs of national statistical units, the GAUSS project, whose purpose was to provide recipients with the most reliable data on society and the environment, strived to develop a methodology for the use of satellite data to create new environmental quality indicators that affect human well-being. The project concluded successfully in the second half of 2023.

Category:

N) Hardware - Software - Cybersecurity - Blockchain - Internet of things (IoT)



Invention ID: PL - 4802

Inventor(s):

Katarzyna Dabrowska - Zielinska, Karol Paradowski, Zbigniew Bochenek, Maciej Bartold, Magdalena Lagiewska, Alicja Malinska, Radoslaw Gurdak from Institute of Geodesy and Cartography

Invention Title:

The use of satellite remote sensing to monitor crop growth conditions, including the identification of agricultural drought, as well as to assess the reduction of crop yields as a result of unfavorable growing conditions.

Invention Description:

Satellite remote sensing was applied to monitor crop growth conditions and detect agricultural drought in 2020, focusing on estimating yield reductions caused by unfavorable conditions. The National Support Centre for Agriculture and the Remote Sensing Center developed an agricultural drought model by

monitoring crop growth during the vegetation period. Over the years, they established drought monitoring systems, crucial for sustainable grassland development and food security. The Remote Sensing Center's satellite drought information system (DISS) combines meteorological data with satellite indicators. This system includes the hydrothermal coefficient (HTC), which characterizes long-term meteorological conditions, and the Temperature Condition Index (TCI) from Moderate Resolution Imaging Spectroradiometer (MODIS) data, which compares land surface temperature (LST) to long-term extremes. Using this methodology, they identified Polish regions, such as voivodeships and communes, with significant areas of moderate and high yield reductions.

Category:

H) Agriculture - Forestry and Garden - Pet and Farm Animal Supplies



Invention ID: PL - 4803

Inventor(s):

Katarzyna Chrapko

Invention Title:

CHRAPKO DUAL MONOBLOCK STEREO POWER AMPLIFIER MC8080-

Invention Description:

CHRAPKO DUAL MONOBLOCK STEREO POWER AMPLIFIER MC- 8080 is a high-end push-pull (class AB) tube amplifier with a dual monoblock design, providing optimal channel separation. Each block uses two 6P3SE tubes (or KT88 EH, KT120, KT150) and one 12AX7 EHG tube, delivering 80W per channel at 2Ω, 4Ω, or 8Ω with a frequency response of 10Hz to 60kHz and non-linear distortion below 2.0 %. The amplifier features 140VA El-shaped speaker transformers and 300VA toroidal power transformers with double shielding, achieving high signal-to-noise ratios. An innovative feedback-compensated attenuator and dual feedback loops ensure low distortion and precise sound control. The MC8080- offers spacious, balanced sound across all bandwidths, with a deep bass foundation, mellow midrange, and clear highs. It does not require a preamplifier, with an input impedance of 50kΩ per channel and selectable load impedance per monoblock. The design, using discrete components on three circuit boards, allows the amplifier to handle complex textures without strain, providing a dynamic and rich audio experience.

Category:

B) Electronics - Electricity - Methods of Communication

Russia Russia

Entrepreneur Bilak Viktor Dyulovich

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viktor@bi-luck.com

+7 916 670 9513

Address: 109147 Moscow, Russian Federation,
Bolshoy Fabelnyy Pereulok 108-24



Invention ID: RU – 07101**Inventor(s):**

Viktor Bilak, Anna Matiushkina

Invention Title:

Rotating Color Circles, Bi-Luck®

Invention Description:

Rotating Color Circles Bi-Luck® is the system of intellectual devices intended for artists and enthusiasts, who study and work with color. Art concept of the device is color circle of 12 palette cells, elements mechanically rotates by fingers. The purpose of the devices to learn and choose the harmonics of primary, secondary and tertiary colors.

Category:

L) Games – Sports – Hobbies

Spain
Spain

Open Collective / Teachers for Peace

www.teachers-for-peace.net

teachersforpeace2022@gmail.com

+34 638 072 801

Address: Font de la Pastanaga 20, Argenton
Barcelona 08310, Spain

Invention ID: ES- 3401**Inventor(s):**

Jennifer Marie Richmond, Nataliia Vasylieva, Loubna Aitkharraz

Invention Title:

Teachers for Peace

Invention Description:

Teachers-for-Peace.org empowers women educators globally to support those affected by war and displacement. Through Zoom and digital platforms, we offer free educational resources, fostering resilience and hope. Our nonprofit connects educators worldwide, ensuring tailored support to educators and refugee communities. We promote Education for Sustainable Development goals through innovative pedagogical practices, cultivating innovators who catalyze positive change.

Category:

O) Teaching Research – Pedagogical Items

Taiwan
Taiwan ROC

Taiwan Invention Association (TIA)

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Dist., 241608 New Taipei City, Taiwan (ROC)

**Invention ID: TW – 0101****Company/Association**

Department of Electronic Engineering, Ming Chi University of Technology / WINSTROL INDUSTRIAL CO., LTD / Department of Intelligent Production Engineering, National Taichung University of Science and Technology, Taiwan / Department of Biotechnology, National Formosa University, Taiwan / Department of Computer Science and Engineering, Michigan State University, USA

Inventor(s):

Wen-Cheng Lai, Hsi-Chi Chang, Yuan-Hsiou Chang, Hsiao-Ling Lu, Li-Chi Huang

Invention Title:

Application of Thermoelectric Power Generation Module.

Invention Description:

The purpose of this research is to measure how much the power of the wafer offer from using on barbecue grill. When the charcoal is burned, we use the heat to provide wafer work and measure how we can get the electricity from wafer. We can save the power and reused them so as to achieve the goal of environmentally friendly power.

Category:

P) Energy – Renewable and green energy

**Invention ID: TW – 0102****Company/Association**

KING HO TAI INTERNATIONAL CO., LTD.

Inventor(s):

PO-YU TANG

Invention Title:

Resin-added Cold-Mix Concrete Pavement / Reclaimed Asphalt Pavement.

Invention Description:

This invention developed a new type of energy-saving and carbon-reducing road engineering material, "New Cold Mix Cold Paving Concrete," which uses natural aggregates and cement, enhanced with resin additives. Compared to traditional hot mix asphalt mixtures, this product significantly reduces energy consumption and carbon emissions.

Category:

C) Building – Architecture – Civil Engineering – Construction – Materials – Woodwork

**Invention ID: TW – 0103****Company/Association**

KING HO TAI INTERNATIONAL CO., LTD.

Inventor(s):

PO-YU TANG

Invention Title:

Resin-added Cold-Mix Concrete Pavement / Reclaimed Asphalt Pavement.

Invention Description:

This invention has made a huge contribution to sustainable development. In the future, we hope to use innovative materials and track the results of trial paving cases to expand ways to reduce energy consumption and carbon emissions in pavement maintenance projects and work towards the goal of "2050 net-zero carbon emissions".

Category:

D) Sanitation – Ventilation – Heating



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Invention ID: TW - 0104

Company/Association

WONDER MACHINERY CO., LTD.

Inventor(s):

PO-YU TANG

Invention Title:

AUTOMATIC EVACUATION LADDER FOR TRANSPORTING HOSPITAL BED.

Invention Description:

The emergency escape ladder is a vertical evacuation equipment erected on the outside or inside of the building which allowable for multi-story evacuation simultaneously and available for the hospital bed and wheelchair directly accessed to escape. This invention has been qualified as Fire Escape Equipment by National Fire Agency.

Category:

A) Mechanics – Engines – Machinery – Robotic – Tools – Industrial Process – Metallurgy



Invention ID: TW - 0105

Company/Association

Homeway Technology Co. Ltd.

Inventor(s):

Hsieh Chin-Hsing

Invention Title:

GoodARCH TFE Belt .

Invention Description:

This product is processed by GoodARCH's exclusive [Quantum Torsion Field Energy (TFE) Technology]

•Pine cone-shaped Alloy Buckle

The buckle enhances internal circulation, providing the body with abundant mental vitality.

•Frontline Smooth without Dripping

•32 -Stage Automatic Buckle Adjustment.

Category:

Q) Paramedical – Health – Foodstuffs – Drinks – Cosmetics



Invention ID: TW - 0106

Company/Association

Homeway Technology Co. Ltd.

Inventor(s):

Hsieh Chin-Hsing

Invention Title:

GoodARCH TFE Graphene Thermos.

Invention Description:

This product is processed by GoodARCH's exclusive [Quantum Torsion Field Energy (TFE) Technology]

Made of 304 stainless steels

Interior sprayed with a titanium ceramic, easy-to-clean layer

-Double-layer vacuum design
-Graphene material
TFE Water can be taken with you anytime, anywhere

Category:

Q) Paramedical - Health - Foodstuffs - Drinks - Cosmetics



Invention ID: TW - 0107

Company/Association

Homeway Technology Co. Ltd.

Inventor(s):

Hsieh Chin-Hsing

Invention Title:

TFE Tourmaline Muscle and Myofascia Relief Patches.

Invention Description:

This product is processed by GoodARCH's exclusive [Quantum Torsion Field Energy (TFE) Technology]

- Release far infrared rays and negative ions
- Effective for relieving stiffness in the shoulders, neck, or joints; warming the stomach
- Capsaicin + tea tree essential oil for warmth and comfort. Say goodbye to discomfort!

Category:

Q) Paramedical - Health - Foodstuffs - Drinks - Cosmetics



Invention ID: TW - 0108

Inventor(s):

LIN CHIN-HAI

Invention Title:

Energy Cup.

Invention Description:

«Energy Cup», according to the law of conservation of energy, the energetic elements with a kind of high-end technology attached to its outer ring.

The structure is including Sunstone, Labradorite, Tourmaline, Wuxing stone, Graphene, and rare elements, charged with electricity, light, blended with micro-water and attached to the edge of cup.

Category:

Q) Paramedical - Health - Foodstuffs - Drinks - Cosmetics



Invention ID: TW - 0109

Inventor(s):

LIN JIAN-FENG

Invention Title:

Personal lung care machine (mobile air purifier).

Invention Description:

Main function description:

1. Filter: PM2.5 blocking, deodorization, anti-fouling, anti-bacteria.
- 2.Ultrasonic vibrator: atomized enzymes to promote air purification to achieve anti-inflammatory, antioxidant effect.

3. Exhale and inhale manifold and fan: to make breathing diversion, gas flow smoothly, suitable for users who are exercising.

Category:

Q) Paramedical - Health - Foodstuffs - Drinks - Cosmetics



Invention ID: TW - 0110

Inventor(s):

AIKANG TECHNOLOGY CO., LTD.

Invention Title:

Home Oil Press Machine.

Invention Description:

It is made of stainless steel

The extraction is high, and it is available to press 30 kinds of seeds and nuts

The material of chamber is stainless steel 316, food grade and poisonless

All smart temperature control, and steel gear is used

High motor efficiency and long lifespan

Light and handy, not occupied space

Easy to be operated and clean .

Category:

Q) Paramedical - Health - Foodstuffs - Drinks - Cosmetics



Invention ID: TW - 0111

Inventor(s):

YUE LAI SDN. BHD.

Invention Title:

EMUMORETM EMU OIL BALANCING CREAM.

Invention Description:

Emu Oil Balance Cream can significantly alleviate external heat and pain stimuli, reduce tissue edema and micro-vascular bleeding, and exert significant anti-inflammatory effects. Consumers have received positive feedback on muscle discomfort, blocked meridians, joint discomfort, and use of falls and injuries.

Category:

Q) Paramedical - Health - Foodstuffs - Drinks - Cosmetics



Invention ID: TW - 0112

Inventor(s):

YUE LAI SDN. BHD.

Invention Title:

TWINKLIFE COMPOUND PEPTIDE PROTEIN POWDER.

Invention Description:

Composite Peptide Protein Powder scientifically mixes animal and plant proteins such as concentrated milk protein and soy protein isolate, as well as albumin peptides and soy peptides. It is also balanced with dietary fiber and vitamins to promote absorption and synergistic effects.

Category:

Q) Paramedical - Health - Foodstuffs - Drinks - Cosmetics



Invention ID: TW - 0113

Inventor(s):

KUBIN INTERNATIONAL CORPORATION

Invention Title:

Presbyopia Glasses - Auto Focus No need to select diopters.

Invention Description:

Auto Focus- From 1.0-4.0 diopters. Absorbs Green light: Protect your eyes. Filters Blue light: Resist fatigue, and provides comfort reading. A progressive way for looking far distances: Will be able to get used to far distances in about a week to a month.Prevents night vision glare With magnification. Filters overly strong lights.

Category:

Q) Paramedical - Health - Foodstuffs - Drinks - Cosmetics



Invention ID: TW - 0114

Inventor(s):

Goodinfobo CO., LTD.

Invention Title:

Stretchable umbrella with lighting top .

Invention Description:

The umbrella top or handle is equipped with lighting circuit; enable it to light on constantly or by flash; which can perform safe warning effort. Decorate graceful and elegant animal or other decoration at the umbrella's top or hanadle. The said decoration contains light-collection sheet that can collect light and emit out in a brighter way.

Category:

E) Security - Rescue - Alarm

Tajikistan Tajikistan

Avicenna Tajik State Medical University

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Address: AYN142, Dushanbe, Republic of Tajikistan



Invention ID: TJ - 92201

Inventor(s):

Borajabova Nazirabegim Bahodurovna

Invention Title:

Medication with Anti-Inflammatory and Wound Healing Effects.

Invention Description:

This medication is designed for treating inflammatory skin conditions, wounds, and burns, and possesses antiseptic and anti-burn properties. An existing analogue is Levomekol ointment. The invention aims to create an effective and gentle treatment using affordable components

for various inflammatory skin conditions.

Carviol ointment includes:

- Coriander essential oil: 2.0 -3.0%
- Vaseline: 70.0 - 72.0%
- Anhydrous lanolin: 18.0 - 20.0%
- Tween-80 : 2.0 - 2.2%
- Distilled water

Carviol is a combined local-use drug with anti-inflammatory and antimicrobial effects, effective against both gram-positive and gram-negative microorganisms. It penetrates deep into tissues, stimulates regeneration, and retains antibacterial properties even in the presence of pus and necrotic tissue.

Category:

M) Medical Technology - Medical Engineering - Medicine - Hygiene

Tajikistan Tajikistan

Medical-Social Institute of Tajikistan

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+992 888 14 9999

Address: Clary Setkin St., 2. Dushanbe, Republic of Tajikistan



Invention ID: TJ - 92202

Inventor(s):

Safarali Kholov

Invention Title:

Composition for the Treatment of Inflammatory Diseases of the Ent Organs .

Invention Description:

The invention is an anti-inflammatory and antimicrobial capsule using natural extracts from Tajikistan: %3.5 salvia sclarea L, %2.3 hyssopus officinalis, %2.3 heder a helix L, plus ascorbic acid, chlorhexidine hydrochloride, bentonite, lactose monohydrate, and magnesium stearate.

Category:

M) Medical Technology - Medical Engineering - Medicine - Hygiene

Thailand Thailand

National Research Council of Thailand (NRCT)

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Invention ID: TH - 6601

Company/Association:

Princess Chulabhorn Science High School Nakhon Si Thammarat

Inventor(s):

Mr. Suphakorn Yimi, Mr. Jirapong Thawonkaew, Mr. Noppakorn Wunnoy

Invention Title:

Automated cocoa garden robot and real-time cocoa disease analysis with CNN.

Invention Description:

Automated cocoa garden robot and real-time cocoa disease analysis with CNN. If infected plants are not removed, the disease may spread widely and causing a lot of damage. The robot can help gardener to prevent this issue and lighten the burden of taking care of the garden by detecting and counting infected plants with YoloV8, then inform gardener.

Category:

H) Agriculture – Forestry and Garden – Pet and Farm Animal Supplies



Invention ID: TH - 6602

Company/Association:

Zen Innovation Group Co., Ltd

Inventor(s):

Dr. Paramita Sutthapreda Jareinta

Invention Title:

FIR SlimBio shot™ for weight management.

Invention Description:

We have developed a new way to coated postbiotic with FIR microencapsulation to enhance stability of product as FIR postbiotic drink (SlimBio shot™). The study showed that FIR SlimBio shot™ can improve weight management, leading to reducing body weight, reduce % fat, reduce visceral fat within 60 days that superior to control group. According to FIR microencapsulation can protect postbiotic drink to increase metabolism and blood circulation which improve efficacy of postbiotic.

Category:

Q) Paramedical – Health – Foodstuffs – Drinks – Cosmetics



Invention ID: TH - 6603

Company/Association:

Zen Innovation Group Co., Ltd

Inventor(s):

Dr. Ponwanit Charoenputtakun

Invention Title:

FIR Vitamin C (Super C Max™) For Skin Anti-Aging.

Invention Description:

We develop Super C Max™ to improve absorption and efficacy of vitamin C. According to FIR energy can increase cell resonance, metabolism, blood circulation which improve efficacy of vitamin C. The skin analysis by cutometer MPA580 shows that Super C Max™ was higher blood concentration and more effective to increase skin elasticity and decrease melanin content. Moreover Super C Max™ shows higher anti-oxidants activity.

Category:

Q) Paramedical – Health – Foodstuffs – Drinks – Cosmetics



United Inventors Association (UIA)
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 info@uiausa.org
 Address: 1025 Connecticut Ave, NW, Washington,
 DC 20036, USA



Invention ID: US - 00101

Company/Association :

Enovex

Inventor(s):

Greg Wawrzyniak

Invention Title:

Enovex.

Invention Description:

The PaintWell Multi Caddy is a container used mainly in construction for carrying liquids such as paint, stain or lacquer or other semi-fluid compounds such as glue, leveling compound, drywall joint compound, spackling paste, wood putty as well as small tools and other hardware.

Category:

A) Mechanics – Engines – Machinery – Robotic - Tools – Industrial Process – Metallurgy



Invention ID: US - 00102

Company/Association :

The SHOWER SHIRT Co., LLC

Inventor(s):

Lisa Crites

Invention Title:

The SHOWER SHIRT Co., LLC.

Invention Description:

The SHOWER SHIRT(R) is the first and only patented, post-surgical, water-resistant garment designed to protect chest surgery patients requiring post-surgical drains, ports, and catheters while showering. Internal pockets also host the weight of the JP/Black surgical drains and various other medical paraphernalia. patient populations.

Category:

Q) Paramedical – Health – Foodstuffs – Drinks – Cosmetics



Invention ID: US - 00103

Company/Association :

AAPL Joseph Jean

Inventor(s):

Joseph Jean

Invention Title:

AAPL Joseph Jean.

Invention Description:

Dental mouth piece that allows people to get a good night sleep a great alternative to CPAP.

Category:

M) Medical Technology – Medical Engineering – Medicine – Hygiene



Invention ID: US - 00104

Company/Association :

Kid Invent Mentors

Inventor(s):

Suzi Murphy

Invention Title:

Kid Invent Mentors.

Invention Description:

Kid Invent Mentor's champions young innovation through school-based and individual programs that teach the innovation process and prepare products for market readiness. We connect young inventors with companies willing to review their innovations for commercial potential.

Category:

O) Teaching Research – Pedagogical Items



Invention ID: US - 00105

Company/Association :

Sustainable Technology Solutions

Inventor(s):

Nicole Haragutchi

Invention Title:

Sustainable Technology Solutions.

Invention Description:

The Wildfire Alarm System was created after the Maui wildfires. It is composed of multiple independent modules to alert of an impending wildfire in time to plan for an evacuation. The air quality sensors use LoRa communication for long range and low consumption to sound an alarm. The wildfire is verified by a NASA satellite fire detection.

Category:

B) Electronics – Electricity – Methods of Communication



Invention ID: US - 00106

Company/Association :

Skadoosie

Inventor(s):

Janet DeMaria

Invention Title:

Skadoosie.

Invention Description:

The onesie redesigned without snaps or zippers, no over the head application, with rear diaper check slot. Made in the USA with %100 Organic breathable cotton fabric.

Category:

Q) Paramedical - Health - Foodstuffs - Drinks - Cosmetics



Invention ID: US - 00107

Company/Association :

Chairology

Inventor(s):

Kiran Sondhi

Invention Title:

Chairology.

Invention Description:

Two in one furniture and environment protection: Reshaping our spaces to accommodate the natural environment. In doing so, combating air pollution along with food scarcity.

Category:

P) Energy - Renewable and green energy



Invention ID: US - 00108

Company/Association :

Groggle Systems Inc

Inventor(s):

Gregg Vollet

Invention Title:

Groggle Systems Inc.

Invention Description:

Combination safety glasses and earmuff with a protective shield to prevent damage and scratching of glasses. Convenience, greater comfort, no loss in hearing protection, PPE is always together so no wasted time searching for protection, increasing productivity and helping eliminate serious life an injury.

Category:

G) Commercial, Industrial and Office Equipment



Invention ID: US - 00109

Company/Association :

Casual Recovery Enterprises inc

Inventor(s):

Aisha Mccain

Invention Title:

Post surgical garment/ Casual Recovery Enterprises inc.

Invention Description:

A post surgical garment for JP drains.

Category:

M) Medical Technology - Medical Engineering - Medicine - Hygiene



Invention ID: US - 00110

Company/Association :

Hyson Medical Products

Inventor(s):

Morton Hyson

Invention Title:

Hyson Medical Products.

Invention Description:

Safe, effective all natural topical headache treatment. Non-addicting!

Category:

Q) Paramedical - Health - Foodstuffs - Drinks - Cosmetics



Invention ID: US - 00111

Company/Association :

Brainfit games LLC

Inventor(s):

Jerry A Dupree

Invention Title:

Tip-off basketball / Brainfit games LLC.

Invention Description:

Are you a board game player who loves to compete with family and friends? Do you love the exciting game of basketball? Brainfit Games, LLC has the perfect game . INTRODUCING THE FIRST INTERACTIVE BASKETBALL THEME TABLETOP BOARD GAME CALLED TIP-OFF BASKETBALL. With Tip -Off Basketball you can improve your hand and eye coordination, answer basketball trivia questions and get physically challenged ! BRAINFIT GAMES LLC established in 2021 during the COVID19-pandemic is a gaming company that creates family fun games to make you MOVE AND THINK.

Category:

L) Games - Sports - Hobbies



Invention ID: US - 00112

Company/Association :

DSD Ilc

Inventor(s):

Harold Collier

Invention Title:

DSD Ilc.

Invention Description:

The Genomix computer keyboard is the first functional really ergonomic keyboard. With its sweeping arch, the keys follow the arch and the double palmrest allows for a better typing experience. The mouse or 10 key in the middle make work productivity much better. The 10 key model is designed mainly for accountants and the sight challenged. It can have either braille.. The Genomix keyboard is designed for either home or office. From gamers to grannies, anyone can use it.

Category:

B) Electronics – Electricity – Methods of Communication



Invention ID: US – 00113

Company/Association :

DR.ROBOT

Inventor(s):

Ali AlAli

Invention Title:

DR. ROBOT.

Invention Description:

Inspired by the significant impact of infectious diseases and the high incidence of new infections (8.3/100 patient days) among emergency department visitors, we aimed to address this crisis innovatively. Our project focuses on practical, low-cost patient monitoring that can be done anytime, anywhere, reducing waiting times and alleviating pressure on doctors. This initiative enhances patient care and contributes positively to global health. By leveraging technology, we hope to offer a solution that stands out and benefits society, making healthcare more efficient and accessible for everyone.

Category:

M) Medical Technology – Medical Engineering – Medicine – Hygiene



Invention ID: US – 00114

Company/Association :

Williams Concpets and Designs

Inventor(s):

Ralph Williams

Invention Title:

Williams Concpets and Designs

Invention Description:

A tool designed to test smoke detectors in (difficult to reach locations) plenum air spaces. Sub flooring of data centers, inside HVAC duct work, and other plenum air spaces even if high velocity is present.

Category:

E) Security – Rescue – Alarm



Invention ID: US – 00115

Inventor(s):

Sharon Batchler

Invention Title:

A fabric product.

Invention Description:

A fabric product wherein both feet and legs are inserted and enclosed to provide warmth, comfort, and pleasure. The design of the product prevents feet and legs from being exposed compared to the possibility of exposure using a blanket.

Category:

Q) Paramedical – Health – Foodstuffs – Drinks – Cosmetics



Invention ID: US – 00116

Company/Association :

Knee Saver Electrical Box

Inventor(s):

Alexander Ruggiero

Invention Title:

Knee Saver Electrical Box.

Invention Description:

Receptacles can be installed while standing up. Receptacles and switches can be changed without touching the wires!

Category:

B) Electronics – Electricity – Methods of Communication



Invention ID: US – 00117

Company/Association :

StickEcodes Inc

Inventor(s):

Teresa Mueller

Invention Title:

StickEcodes In.c

Invention Description:

StickEcodes has patented technology that allows you to securely share an unlimited number of lockable information files with authorized users. Additionally, you can use the platform to share photos, files, videos, and links with everyone. The geo-fencing feature ensures that the information can only be accessed in specific locations, making it perfect for games and rewards.

Category:

N) Hardware – Software – Cybersecurity – Blockchain – Internet of things (IoT)

RENEWABLE ENERGY

1 Safety for the environment

2 Availability of an energy source

3 Inexhaustibility of the energy source

This is

OUR FUTURE

solar, biomass, hydro, geothermal, wind, tidal energy



Invention ID: US - 00118

Company/Association :

Eco light

Inventor(s):

Leif Levon

Invention Title:

Eco light

Invention Description:

A.I. gathered info: Copilot . Leif Levon, known for his innovative work, experimented with lighting solutions for levitators (electromagnetic hovercrafts). He even created a prototype of a battery-less lamp that harnessed existing light and transformed it into its own illumination. The lamp drew power from a secondary coil based on Tesla's principles, operating separately from the existing light source and storing no energy for future use. As a result, it didn't require electrochemical batteries and had zero operating costs under favorable external lighting conditions. While not suitable as a reading lamp, it served decorative purposes.

Category:

N) Hardware - Software - Cybersecurity - Blockchain - Internet of things (IoT)



Invention ID: US - 00119

Company/Association :

GATE PROP BLOX

Inventor(s):

Richard Hyppa

Invention Title:

GATE PROP BLOX.

Invention Description:

This is a very simple product. It consists of a wooden block and two steel fittings. As depicted in the first screenshot, they are used to construct a device that will prop a wooden gate open at a 90 degree angle. One steel fitting is inserted into a hole in the gate post and the other steel fitting is inserted into a hole in the wooden block. Then the steel fitting in the block is inserted into the steel fitting in the gate post, which holds the wooden block in place to prop the gate open. I also have video.

Category:

H) Agriculture - Forestry and Garden - Pet and Farm Animal Supplies



Invention ID: US - 00120

Company/Association :

James Sanchez Design

Inventor(s):

James Sanchez

Invention Title:

James Sanchez Design.

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Invention Description:

The "Tag Defense" security license plate frame prevents thieves from stealing your DMV Stickers from off of your vehicle..plus it's universal and will accommodate any State that has their stickers on the Top Left and Right or The Bottom Left and Right!

Category:

J) Traffic – Transport – Car Accessories



Invention ID: US – 00121

Company/Association :

Sunshine Innovations LLC

Inventor(s):

Doug Masi

Invention Title:

Water Device Innovation/Sunshine Innovations LLC.

Invention Description:

Sunshine Innovations LLC, in business since 2017. Started with a custom-designed solid foam personal flotation device and now produced the inflatable version, available in various colors and prints, is not just for leisure. It's a game-changer for individuals with physical limitations who enjoy aquatic fitness. Designed to fit nicely under the arms allows the user to rest head or neck when floating in the opposite position. Several built in features from beverage holders to safety loop. Easy to access, great mobility, and bring anywhere on travels.

Category:

Q) Paramedical – Health – Foodstuffs – Drinks – Cosmetics



Invention ID: US – 00122

Company/Association :

INIODID, Inc.

Inventor(s):

Wayne Rasanen

Invention Title:

DecaTxt / INIODID, Inc.

Invention Description:

DecaTxt is a one-handed ten-key Bluetooth chord keyboard that provides sightless typing on mobile devices and spatial computers as well as Smart TVs, computers, game consoles and more.

Category:

B) Electronics – Electricity – Methods of Communication



Invention ID: US – 00123

Company/Association :

InvenTABLE, Inc.

Inventor(s):

Kausalya Raman, Max Liechty, Collin Bardini, William Schultz

Invention Title:

InvenTABLE.

Invention Description:

InvenTABLE is a kid-safe power tool that teaches critical STEM skills by giving kids the ability to cut through cardboard and build 3D models with ease.

Category:

L) Games – Sports – Hobbies



Invention ID: US – 00124

Inventor(s):

Artin Ghafooripour

Invention Title:

Cathodic protection of the existing RC Buildings.

Invention Description:

The invention is the development of the impressed current the new discovery is the use of a new material with a higher efficiency for the existing concrete buildings.

Category:

C) Building – Architecture – Civil Engineering – Construction – Materials – Woodwork

Uzbekistan

Uzbekistan

Tashkent State Technical University

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Invention ID: UZ – 41901

Inventor(s):

Parakhmat Matyakubova, Erkin O'ljaev, Nazokat Avezova, Patkhulla Ismatullaev, Asadulla Turgunbaev

Invention Title:

Capacitive moisture meter for oil, petroleum products and bulk materials.

Invention Description:

The technical result of the invention is to increase the accuracy of measuring the humidity of liquid and solid bulk materials, increase the reliability of the device, reduce the size, and expand the range of controlled materials.

Category:

A) Mechanics – Engines – Machinery – Robotic – Tools – Industrial Process – Metallurgy

Vietnam Vietnam

Research Institute of Creative Education (RICE)

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+84 24 8589 2999

Address: 2nd Floor, G4 Building, 144 Xuan Thuy Str.,
Cau Giay Dist, Hanoi, Vietnam



Invention ID: VN- 101

Inventor(s):

Pham Gia Khanh, Le Tran Cong Duy, Le Dang Doanh, Pham Anh Duc Minh, Nguyen Duc Thinh

Invention Title:

Platform for creating quizzes from diverse sources, with automated question mixing and secure data handling.

Invention Description:

The platform for creating quizzes saves educators time, enables diverse question formats, ensures accurate grading and simplifies data management for tracking student progress.

Category:

N) Hardware - Software - Cybersecurity - Blockchain - Internet of things (IoT)



Invention ID: VN- 102

Inventor(s):

Duong Anh Kim, Duong Anh Khue, Do Van, Nguyen Diep Chi, Dao An Viet Phuong

Invention Title:

Syntheticization of Fe-doped TiO₂/CNTs for photo-degradation of Methylene Orange in polluted wastewater Traditional Handicraft Villages in Hanoi, Vietnam.

Invention Description:

Fe-doped TiO₂/CNTs composites were synthesized and analyzed. SEM images revealed the size and shape of composite nanoparticles. XRD confirmed the presence of TiO₂ anatase and CNTs in all samples, but Fe was not detected. Photocatalytic tests demonstrated the ability of all samples to degrade Methylene Orange (MO) under UV light.

Category:

H) Agriculture - Forestry and Garden - Pet and Farm Animal Supplies



Invention ID: VN- 103

Inventor(s):

Dao Xuan Huy, Luong Tran Gia Bao, Nguyen Van Tung Lam, Nguyen Ngoc Bao Chau, Le Minh Man, Le Phuc Diem

Invention Title:

Developing a multi-subject learning website using artificial intelligence and digital education methods.

Invention Description:

Our research on building the website aims to enhance student self-study by integrating modern educational tools. The website will compile lectures, videos, exercises, and utilize AI to boost learning efficiency.

Category:

N) Hardware - Software - Cybersecurity - Blockchain - Internet of things (IoT)



Invention ID: VN- 104

Inventor(s):

Research Institute of Creative Education (RICE)

Invention Title:

Fever-Recovering Jelly and Cough-Treating Candy.

Invention Description:

The research team has achieved initial success in encouraging children to take medicine voluntarily. Through collaboration with Kindergarten Class 2 and Preschool Class 1 children, we've experimented with changing traditional remedy processing while preserving ingredients. We hope this approach helps children overcome fevers and coughs more easily.

Category:

Q) Paramedical - Health - Foodstuffs - Drinks - Cosmetics



Invention ID: VN- 105

Inventor(s):

Institute of Innovation Research and Attribute Verification (RIVA)

Invention Title:

Floor Tiles From Recycled Plastic Waste.

Invention Description:

Inspired by observing unburned plastic waste from school trash fires, we investigated the properties of melted plastics. We discovered that these plastics could be molded into hard, durable shapes. This led us to develop the idea of creating floor tiles and other products by recycling school waste.

Category:

P) Energy - Renewable and green energy



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<https://www.ifia.com/virtual-inventions-hall/>



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Butterfly Pea and Shallots Sunscreen Description

Lately, the world community is faced with extreme weather with very hot temperature conditions due to UV (ultraviolet) rays, this is inseparable from global warming which results in the depletion of the ozone layer. The ozone layer plays a role in protecting the Earth from ultraviolet radiation emitted by the sun.

So, if the ozone layer is thinning, this UV radiation will cause various direct impacts, especially on human life. Bract comes as a solution by utilizing the best ingredients from nature, the combination of the good benefits of shallots and butterfly pea is ready to protect your skin from the dangers of UV rays and care for the skin to always be ready throughout the day. That way you can move all day freely without having to be afraid.

Product bracts have been tested to have bioactive compounds that are able to provide protection and care for the skin, our product has been laboratory tested. bract's formulation has the highest absorbance score than other formulations which means the product has many identified bioactive ingredients which are compounds that are useful for treating the skin and protecting the skin from UV radiation. such as flavonoids and tannins which are beneficial for the skin.

Inventors:

From Universitas Diponegoro, Indonesia

1. Febryan Fadhil Kresnantio
2. Narendra Lintang Mahadewa
3. Alfa Sofia Fany
4. Rizki Noval Nursyafillah
5. David Jonathan Gleneagles Siahaan
6. Nindy Haya

Contact Information

febryanfadhilkresnantio@gmail.com

“IMPROVING STAT MEDICATIONS & REPLACING FLOOR STOCK WITH ADM (AUTOMATIC DISPENSING MACHINE)”

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