



A RESEARCH-INTENSIVE **COMPREHENSIVE UNIVERSITY**

in arts and sciences in the digital era

World

in Quality Education **Times Higher Education** Impact Rankings 2025

14%

of scholars recognized as World TOP 2% Scientists by Stanford University









Data Science



Humanitarian Technology













www.ifia.com







Dear Innovators, Participants, Esteemed Guests, and Distinguished Supporters,

It is with great pride and heartfelt appreciation that I welcome you to the 4th edition of the Silicon Valley International Invention Festival (SVIIF 2025), organized by the International Federation of Inventors' Associations (IFIA).

At the heart of this remarkable gathering are the inventors' brilliant minds whose relentless pursuit of progress continues to shape the world. I extend my deepest gratitude to each of you for your passion, dedication, and the courage to bring ideas to life. Your ingenuity is the driving force behind innovation, and your presence at SVIIF inspires us all.

We are especially honored by the continued support and patronage of the World Intellectual Property Organization (WIPO) and the United Inventors Association (UIA). Their steadfast commitment not only elevates the stature of this event but also reinforces the global recognition and credibility of the innovations presented here.

I would like to express my sincere appreciation to the Mayor of Santa Clara and the City Council for graciously welcoming our global community of inventors to this vibrant city. Your ongoing partnership and hospitality have been instrumental in making this festival a world-class experience.

A special note of thanks goes to the President of the Jury and all members of the Judging Committee, whose expertise, fairness, and tireless efforts ensure that the evaluation process upholds the highest standards of excellence. Your contributions are vital to recognizing true merit and promoting trust in the innovation ecosystem.

SVIIF serves not only as a platform to showcase cutting-edge inventions but also as a dynamic gateway for global collaboration, knowledge exchange, and commercial opportunity. Together, we are forging a future of sustainable innovation, entrepreneurship, and impactful partnerships that transcend borders.

As we celebrate creativity and progress, I encourage each participant to fully engage with the opportunities offered here to learn, to connect, and to be inspired. May this festival be a catalyst for your continued success and a beacon of hope for a brighter, smarter, and more innovative world.

Thank you all for your unwavering support and enthusiasm.

With warmest regards,

Alireza Rastegar

President, International Federation of Inventors' Associations (IFIA)
President, Silicon Valley International Invention Festival (SVIIF)





WIPO
World Intellectual
Property Organization

Message to the organizers and participants of the Silicon Valley International Festival - SVIIF 2025

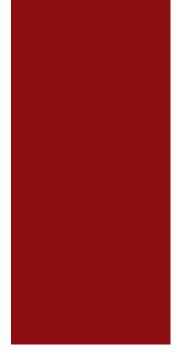
It is with great pleasure that I extend my congratulations to the International Federation of Inventors Associations (IFIA) on organizing the Silicon Valley International Festival (SVIIF 2025), taking place from August 8 to 12, 2025, in Santa Clara, California. This premier event has established itself as a vital platform where innovators worldwide converge to show-case groundbreaking inventions and connect with resources essential for successful commercialization.

The World Intellectual Property Organization (WIPO) remains steadfastly committed to empowering innovators in their journey from concept to market. We are proud to serve as co-patron for one of America's most comprehensive innovation expositions, building upon our enduring and productive partnership with IFIA.

Through our global network of Technology and Innovation Support Centers (TISCs), WIPO provides crucial infrastructure supporting the innovation ecosystem. By 2025, we have more than 1,600 TISCs operating across 95 countries. They offer comprehensive services including specialized technology database access, expert IP search and analytical capabilities, licensing opportunities, and commercialization pathways.

Our WIPO INSPIRE platform continues to democratize access to world-class IP resources at no or minimal cost, equipping innovators with essential knowledge and facilitating engagement with patent databases and legal status information, sophisticated patent analytics and technology transfer strategies.

In today's data-driven innovation landscape, WIPO's leadership in IP analytics provides invaluable insights driving economic growth and development. Our biennial WIPO Technology Trends (WITT) publication delivers comprehensive analysis integrating patent data with scientific literature, policy implications, economic impact assessments, and expert commentary. Complemented by our specialized patent landscape reports, these resources offer evidence-based foundations for policy formulation, research planning, and technology transfer decisions.







UIA United **Inventors Association**

Dear Inventors, Associations, & Participants of SVIIF,

It is with great pride and excitement that I welcome you to the 2025 Silicon Valley International Invention Festival (SVIIF). On behalf of the United Inventors Association (UIA), I'd like to thank the International Federation of Inventors' Associations (IFIA), President Alireza Rastegar, and the entire organizing team for putting together this important global gathering. We are honored to support an event that champions creativity, celebrates innovation, and uplifts the spirit of inventorship worldwide.

SVIIF serves as a vital platform for inventors to showcase their work, gain valuable exposure, and forge lasting connections with industry leaders, investors, and fellow entrepreneurs. At the UIA, our mission is to provide education, advocacy, and resources to inventors across the United States and around the globe. Events like SVIIF bring our mission to life, highlighting the transformative impact of invention on industries, communities, and lives.

This year's festival continues to build bridges between East and West, opening doors to new markets and opportunities for collaboration. The caliber of inventions presented here speaks volumes about the dedication and imagination of the global inventor community. It is truly inspiring to witness firsthand the talent and passion that exists in this space.

To all participants, whether you're showcasing a prototype, building connections, or simply here to learn, I encourage you to embrace every opportunity this event offers. Let it be a launchpad for your next big idea, your next partnership, or your next step forward.

Thank you for your continued contributions to innovation and entrepreneurship. I look forward to seeing the future you're helping to shape.

With appreciation, **Carmine Denisco President** United Inventors Association (UIA)

WIPO's work extends beyond analytics to create meaningful connections between innovators and the global network of research institutions, strategic partners, and investors critical to their success. Our targeted support programs facilitate invention prototyping and demonstration in real-world environments, while our expert guidance helps navigate the complexities of market access and technology licensing.

The Inventor Assistance Program (IAP) remains one of our most impactful initiatives, facilitating access to IP protection by connecting resource-constrained inventors and small businesses and tart-ups with volunteer patent professionals. These experts provide pro bono guidance, enabling protection of valuable innovations domestically and in international markets. We are particularly grateful for IFIA's continued sponsorship of this program, and I extend my personal thanks to Mr. Alireza Rastegar, President of IFIA, for his organization's unwavering support.

As SVIIF 2025 prepares to showcase the next generation of world-changing innovations, WIPO reaffirms our commitment to building an inclusive, dynamic global innovation ecosystem. We look forward to the collaborative opportunities, transformative ideas, and impactful connections this festival will foster.

I wish SVIIF 2025 every success and look forward to the remarkable innovations it will unveil.

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

SVIIF-2025



John J. Calvert **President of the Jury**





July 1, 2025

IFIA - International Federation of Inventors' Associations 5001 Great America Pkwy Santa Clara, CA 95054

Greetings!

On behalf of the City of Santa Clara, it is my honor to congratulate you on the 4th Silicon Valley International Invention Festival (SVIIF) 2025, to be held from August 8th to August 10th, 2025, at the Santa Clara Convention Center.

The City of Santa Clara is thrilled to have this exciting event in our city! As the largest innovation exposition in the United States, SVIIF offers unparalleled opportunities for inventors and innovators. This event offers a unique and dynamic ecosystem facilitating the next generation of transformative solutions.

Thank you again for organizing this fantastic exposition. SVIIF serves as a vital bridge, connecting Eastern and Western markets, promoting the cross-border exchange of ideas, technologies, and investments. The 4th Silicon Valley International Invention Festival will have a lasting impact on participants with opportunities to commercialize their inventions and establish a strong foothold in the American and global innovation markets.

Lisa M. Gillmor Mayor

Dear Participants, Guests, and Distinguished Members of IFIA,

It is a great honor to welcome you to the 4th edition of the Silicon Valley International Invention Festival (SVIIF), organized by the International Federation of Inventors' Associations (IFIA). This year's event, held from August 8 to 10, 2025, continues our proud tradition of uniting the world's most creative minds in invention and innovation.

SVIIF provides a prestigious platform for inventors, innovators, and emerging talents to showcase groundbreaking ideas and technologies. Each participant contributes to a global exchange of knowledge and entrepreneurial spirit. As a juried event, SVIIF not only celebrates innovation but also formally recognizes excellence through a rigorous evaluation process. The jury is committed to identifying the most promising and impactful inventions based on originality, feasibility, and market potential.

The festival also enables participants to gain international visibility, connect with investors and industry experts, and explore new market opportunities, particularly within the American innovation landscape. The collaborative environment at SVIIF fosters commercialization, supports long-term partnerships, and strengthens global innovation ecosystems.

We are especially grateful to the City of Santa Clara for its generous support and warm hospitality in hosting this international gathering. We also acknowledge the continued collaboration of the World Intellectual Property Organization (WIPO), the United Inventors Association of America (UIA), and other esteemed partners whose involvement reflects the global significance of this event.

On behalf of the jury, I commend all participants for their courage, creativity, and dedication. We look forward to reviewing your work and exchanging ideas that inspire real progress. What you present and how you present it can be the catalyst for success, advancing the frontiers of innovation and entrepreneurship.

Thank you for your participation and enthusiasm. I wish you a rewarding and memorable experience at SVIIF 2025.

Warm regards, John J. Calvert **President of the Jury**

SVIIF-2025

Table of Contents

- 10 Australia / Amir Nick Tejarat Caspian Co and Golestan University of Medical Science
- 11 Canada / The First Institute of Canadian Inventors (FICI)
- 12 **China** / China Association of Inventions (CAI)
- 17 **Croatia** / Croatian Union of Innovators
- 19 Germany / Faust-Gymnasium Staufen
- 22 **Greece** / Alexandros Angelidakis
- 23 **Hong Kong SAR** / Lingnan University
- 27 Hong Kong SAR / GeneGuard Life Sciences Company Limited
- 30 Hong Kong SAR / WSC Holding Limited
- 30 Hong Kong SAR / The Education University of Hong Kong
- 34 Hong Kong SAR / City University of Hong Kong (CityUHK)
- 37 Hong Kong SAR / Hong Kong Baptist University
- 38 Hong Kong SAR / Advanced Biomedical Instrumentation Centre
- 39 **Hong Kong SAR** / Nano & Advanced Materials Institute Limited
- 43 India / CardioBionic MedTech India Pvt Ltd
- 44 Iran / The First Institute of Researchers and Inventors (FIRI)
- 60 Korea Republic / Women Inventors Association (KWIA) / Dayoung, HL SCIENCE
- 61 **Lebanon** / National Association for Science and Research (NASR)
- 62 **Malaysia** / Forest Research Institute Malaysia (FRIM) & Malaysian Invention and Design Society (MINDS)
- 63 **Mongolia** /Urangar Urlarl NGO
- 65 Morocco / OFEED
- 67 **New Zealand** / Pariya Tork, Bumbusly
- 67 **Philippines** / The Filipino Inventors Society (FIS)
- 68 **Poland** / Regional Center for Vocational Education in Nisco
- 69 Sri Lanka / Sri Lanka Inventors Commission (SLIC)
- 70 Chinese Taipei / Taiwan Invention Association (TIA)

- 79 **Thailand** /National Research Council of Thailand (NRCT)
- 88 **Tunisia** / Tunisian Association for Scientific Research, Innovation and Intellectual Property (ATRSIPI)
- 90 United Arab Emirates / ALI HUMAID ALLOGHANI AL-ALI
- 90 United Arab Emirates / OMAR ALJABERI
- 91 United States of America / United Inventors Association (UIA)
- 96 Uzbekistan / Tashkent State Technical University
- 96 **Vietnam** / Institute of Innovation Research and Attribute Verification



The First Institute of Canadian Inventors (FICI)

www.fici.ca Info@fici.ca +1 647 546 3242 Address: 5600-100 king street west, Toronto, ON, Canada



Australia

Amir Nick Tejarat Caspian Co and Golestan University of Medical Sciences

amirthepharmacist@gmail.com +61 4202 22184

Address: 19 Sluman St, Denistone West, NSW 2112. Australia



Invention ID: AU - 611

Inventor(s):

Vahid Khori, Farahnazsadat Ahmadi, Amir Ghamoushiramandi, Amir Houshang poorkhani, Reza Hayatbakhsh, Ali Zahed Meher, Roozbeh Nickkhoamiry, Shida Changizi, Fatemeh Pashaeisoorbaghi, Taghi Amiriani, Amirhossein Amiriani, Sara Abbasi, Mahboubeh Tajaldini, Anahid Khori, Navid Changizi, Mohammad Shariatnia, Farhad Nadali / Amir Nick Tejarat Caspian Co. and Golestan University of Medical Sciences

Invention Title:

AI-Enhanced Wearable Mechatronic Hand/Wrist Exoskeleton and Dispensing Gloves and Training Tool for Assisted Obstructed childbirth

Invention Description:

The present invention relates to an Al-powered childbirth passive exoskeleton with real-time force feedback and AR guidance for safer deliveries. Features medicine-dispensing smart gloves for practitioners and training simulations for midwifery students. Combines robotic mechatronic precision with human control to reduce birth complications.

Category:

M) Medical Technology - Medical Engineering - Medicine - Hygiene

Invention ID: CA - 110

Inventor(s):

Amir Ghane, Ali Teimouri, Mehdi Keyoumars, Leily Asadisafa / Chic Mug

Invention Title:

Glass for adjusting the temperature of the drink by using liquid paraffin, with the possibility of automatic addition of dry additives

Invention Description:

A double-walled glass uses steel and insulating polymers, with liquid paraffin between the layers to rapidly cool hot drinks to 55°C and keep them warm for 30 minutes. An integrated compartment allows users to release dry ingredients like coffee, tea, or sugar into the drink via a button.

Category:

Q) Paramedical - Health - Foodstuffs - Drinks - Cosmetics



Invention ID: CA - 111

Inventor(s):

Seyed Mohammad Khalilian, Elham Bahodjb Ghasemi, Reza Frootan, Shahram Zahedi Jasbi / ArcSheen

Invention Title:

Smart building interior and exterior design application based on geographical and environmental conditions

Invention Description:

An Al-based architectural design software analyzes user needs and environmental factors like soil type, land ratio, sun position, and altitude to optimize both structural and aesthetic building design. It employs two machine learning models for initial concept generation and final design refinement.

Category:

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

10

-11

SVIIF-2025



Invention ID: CN - 8603

Company/Association:

SUZHOU KANGKAI ELECTRIC CO., LTD

Inventor(s):

Shen Yongfu

Invention Title:

Rectilinear Reactor

Invention Description:

Low-radiation,only 1/10000 of the traditional, Low power,only 1/100 of that of conventional, No risks of combustion and explosion。

Category:

D) Sanitation - Ventilation - Heating



Invention ID: CN - 8604

Company/Association:

Institute of Energy, HCNSC

Inventor(s):

Institute of Energy, HCNSC, Lizhen Liang, Xiancai Meng, Yuzhong Qian, Yang Liu, Jichao Wang

Invention Title:

Regulation Device For Controlling Particle Density Extracted From Ion Sources And Control Method Thereof

Invention Description:

This project achieves intelligent regulation of the particle density extracted from ion sources, thereby enhancing the stability of RF plasma discharge, reduces complexity of system.

Category:

B) Electronics – Electricity - Methods of Communication



Invention ID: CN - 8605

Company/Association:

Shijiazhuang railway University,Hebei Water Conservancy Research Institute; Shijiazhuang Water Investment Group Co., Ltd.

Inventor(s):

Zhang Liting, Ma Yuanyuan, Zhu Yu, Wang Huiqing, Zhou Ding, Liu Yafan, Xue Yuan, Meng Meng, Zhu Yongtao

Invention Title:

Hydraulic model test system and application for high-slope tailings dam

Invention Description:

Developed a three-dimensional model test system for tailings ponds, and established an practical and effective disaster prevention and control technology system.

Category:

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

China

China Association of Inventions (CAI)

www.cainet.org.cn int@cainet.org.cn +86 10 6395 5926 Address: Rm.607, 6/F., Expert Apartments, No. Jia 15, Fuxing Road, Haidian District, Beijing, China



Invention ID: CN - 8601

Company/Association:

China Academy of Safety Science and Technology

Inventor(s):

Ma Haitao, Yu Zhengxing, Yang Xiaolin, Zhang Yihai, Zhang Hao, Hou Shanshan, Ren Guiwen, Lu Sen, Fang Chenggen

Invention Title:

Research and popularization of application of emergency rescue monitoring radar equipment

Invention Description:

The innovative achievements have more than 70% market share in China, providing all-weather warning service for more than 300 open-pit mines around the world every day.

Category:

E) Security - Rescue - Alarm



Invention ID: CN - 8602

Company/Association:

Shanghai Superhigh Environmental Technology Co., Ltd

Inventor(s):

Yong Zhang, yang Liu, hangyong Xu, yunjie Lu

Invention Title:

A Preparation Process for Low-Resistance Polymer Membrane Using Sintered Plastic

Invention Description:

Raw material recycling, Electrically conductive polymeric membrane, Suitable for smart wearables.

Category:

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



Invention ID: CN - 8606

Company/Association:

Harbin Institute of Technology ,Shenzhen

Inventor(s):

Tingting Zhang, Fan Liu

Invention Title:

Human Body Tracking and Status Sensing Based on UWB Signals

Invention Description:

This project provides a target sensing system based on a UWB configuration, achieving breakthroughs in pedestrian tracking, human motion analysis, and vital sign monitoring.

Category:

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



Invention ID: CN - 8607

Company/Association:

Hengyu Biopharmaceutical(Shandong) Co., Ltd.

Inventor(s):

Jinbo Yang, Yuan Gao

Invention Title:

Research and Application of PDRN and PN Marine Medical Regenerative Materials

Invention Description:

PDRN and PN provide regenerative medical solutions for different diseases. pain, promoting in aesthetics skin care. Aims at building up global industrial ecosystem.

Category

M) Medical Technology - Medical Engineering - Medicine - Hygiene



Invention ID: CN - 8608

Company/Association:

Beijing Normal University

Inventor(s):

Bin Liao, Xiao Ouyang, Jun Luo, Pan Pang, Lin Chen, Xu Zhang, Minju Ying Bin Liao, Xiao Ouyang, Jun Luo, Pan Pang, Lin Chen, Xu Zhang, Minju Ying

Invention Title:

«Dual-Pulse» Ion Beam Deposition for High-Quality low-Temperature Thin Films on Polymers: Process, Technology, and Equipment Implementation

Invention Description:

Strong beam current large-area vapor ion source technology Particle screening and scanning smoothing technology Ultrashort pulse molding stress release technology.

Category:

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

_14 SVIIF-2025

Ideas Shape the Impossible

EVERY INVENTION STARTS AS A BOLD IDEA.
WHEN SOMEONE DARES TO CHALLENGE LIMITS,
THE IMPOSSIBLE BECOMES REAL







Invention ID: CN - 8609

Company/Association:

Dongguan University of Technology

Inventor(s):

Wei Liu

Invention Title:

Addition based emulsion template self-assembly preparation of micro-3D printing of structure function integrated ceramics

Invention Description:

Teparation membrane via micro-3D printing approach The oil-water separation efficiency is as high as 99.98%. The compThe compressive strength is 15 times higher than

Category:

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



Invention ID: CN - 8610

Company/Association:

China Jiliang University,ZHEJIANG MEILUN ELEVATOR CO,LTD; Hangzhou Huajian Intelligent Technology Research Institute

Inventor(s):

Qibin Wang, Jin Qian, Jiawei Lu, Liqing Qian, Hao Zhang, Qian Fu

Invention Title

Design and application of key technologies for high-speed railway special equipment based on 5G+

Invention Description:

The invention is used to solve the key technical challenges in the field of high-speed railway special equipment by integrating 5G+ and digital twin technology.

Category

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



Invention ID: CN - 8611

Company/Association:

China Jiliang University, ZHEJIANG MEILUN ELEVATOR CO.,LTD; Hangzhou Huajian Intelligent Technology Research Institute

Inventor(s):

Qibin Wang, Dongming Liang, Jiawei Lu, Zhiqun Luo, Hao Zhang, Kun She, Guoxiong Lu

Invention Title:

21m/s ultra-high-speed elevator intelligent operation and maintenance technology and application based on DeepSeek

Invention Description:

This invention studies the intelligent operation and maintenance technology and applications of ultra-high-speed elevators, designs a large language model based on DeekSeek

Category:

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



Croatian Union of Innovators

www.inovatorstvo.com uih@inovatorstvo.com +385 1 4886 540

Address: Dalmatinska 12, 10 000 Zagreb, Croatia



Invention ID: HR - 3851

Inventor(s):

Marko Maricevic , Tibor Skala, University of Zagreb, Faculty of Graphic Arts

Invention Title:

3D-Printed Elastic Lattice Structures

Invention Description:

Elastic mesh structures, created through 3D printing, represent a revolution in product design and functionality. This innovative manufacturing approach enables the creation of variable thicknesses and densities, allowing for the adjustment of strength and flexibility according to specific needs.

Category:

K) Graphic Arts - Advertising



Invention ID: HR - 3852

Inventor(s):

Jadran Pivacic Ivica Pivacic

Invention Title:

Anchor With Movable Arms

Invention Description:

Anchor with movable arms, has four arms, and consists of movable and immovable part. Depending on the position of these elements, all arm anchors can be in a folded position or separated from each other by 90 degrees, unfolded position.

Category:

J) Traffic - Transport - Car Accessories



Invention ID: HR - 3853

Inventor(s):

Ivica Lukac

Invention Title:

Safe Zebra

Invention Description:

It is a smart sensor-camera system for motion detection that informs the driver that there is a pedestrian near the crosswalk. On the crosswalk sign there is a smart sensor/camera for motion detection, which when it sees a pedestrian near the crosswalk, activates the light signalling on the crosswalk sign panel and starts flashing.

Category:

E) Security - Rescue - Alarm



Invention ID: HR - 3854

Inventor(s):

Edita Petric

Invention Title:

Massage Glove

Invention Description:

The balls built into the massage glove rotate thanks to the bearings on which they are placed. The rotating balls are metal as they are more pleasant on the skin and the metal significantly stimulates the circulation of the places being massaged.

Category:

Q) Paramedical - Health - Foodstuffs - Drinks - Cosmetics



Invention ID: HR - 3855

Inventor(s):

Tomislav Hodalj, EGORRA Ltd.

Invention Title:

Wooden Waterproof Bathroom Furniture

Invention Description:

Handmade wooden bathroom furniture of the brand Furnatur, company Egorra Ltd. consists of a waterproof sink «Pavao» and a shower tray «Kate», which are made of first-class oak, the interior of which is made of tradition, and the exterior of modern and clean lines.

Category:

G) Commercial, Industrial and Office Equipment



Invention ID: HR - 3856

Inventor(s):

Dragica Jerkov, Ekolika Greennovation Ltd.

Invention Title:

Technology For Sterilizing and Processing Raw Wool Into Eco-Fertilizer and Eco-Repellent «Woolee Fertilizer And Woole Repellent»

Invention Description:

By using wool as a resource to produce organic fertilizer and repellent, and not as waste, we have solved an ecological problem that was threatening national parks and nature parks in Lika. Every year, around 200-300 tons of sheep wool are thrown into nature in Lika.

Category:

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



Invention ID: HR - 3857

Inventor(s):

Boris Perovski, Bernarda Ltd.

Invention Title:

Air Ionization Bed – Oxy by Bernarda

Invention Description:

Our bed features a retractable system that, using silent electric motors, lifts the ionizer above the bed, purifying the air in your bedroom and creating a «PROTECTIVE BUBBLE», a layer of clean air above the sleeper's body. This is especially important considering that the average person spends a third of their life sleeping.

Category:

Q) Paramedical - Health - Foodstuffs - Drinks - Cosmetics



Faust-Gymnasium Staufen

magtronic@web.de & sturmwin@web.de +49 7633 81754 & +49 178 2690 468 Address: Staufen, Germany



Invention ID: DE - 491

Inventor(s):

Robin Laempe

Invention Title:

Atlas Pressure Simulator (APS)

Invention Description:

About 15% of mankind suffer from symptoms of dysfunction of upper cervical spine. These patients need to be medicated by well-educated doctors of manual medicine. It's not possible to practice objective methods of training on the sensitive cervical spine without using patients as test objects. The APS-Simulator helps to learn the sensitive but very difficult pressure-handling by physician.

Category:

M) Medical Technology - Medical Engineering - Medicine - Hygiene

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 11, 2017, in Visakhapatnam-India, the 33rd IFIA Virtual meeting was held on February 04, 2020, 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. mem-

For more information and joining IFIA Inv Members Network vist:

https://www.ifia.com/inv-members/







Greece

aalexandros197@gmail.com +30 69 8077 5188 Address: Theodosiou Diakonou 1 Str. Heraklion Crete, Greece



Invention ID: GR - 301

Inventor(s):

Alexandros Angelidakis

Invention Title:

Rubik's Cube for The Blind and for People with Alzheimer's

Invention Description:

This invention is based on the well-known Rubik's cube. It utilizes a special system that activates the blind person's hearing and for people with Alzheimer's, there is a combination of audio-visual stimuli.

Category:

L) Games – Sports – Hobbies



Invention ID: GR - 302

Inventor(s):

Alexandros Angelidakis

Invention Title:

Rubik's Cube with L.E.D. Lights

Invention Description:

Here, L.E.D. lights are activated upon being touched and the light color and sequence can help people with Alzheimer's and delay the course of the disease.

Category:

L) Games – Sports – Hobbies



Invention ID: GR - 303

Inventor(s):

Alexandros Angelidakis

Invention Title:

Rubik's Cube with Ohmic Resistors

Invention Description:

This type of Rubik's cube uses ohmic resistors to help those who suffer from Alzheimer's and those who are color blind.

Category:

L) Games - Sports - Hobbies

Lingnan University

www.ln.edu.hk robinchen@ln.edu.hk +852 2616 8888 Address: 8 Castle Peak Road, Tuen Mun, Hong Kong SAR



Invention ID: HK - 8521

Inventor(s):

Prof. S. Joe QIN, Shumei CHEN

Invention Title:

Systems and Methods for Dynamic Process Monitoring with Time Series Generative Principal Predictor Models

Invention Description:

The Principal Predictor Analysis (PPA) framework creates efficient predictive models from large time series data, enhancing monitoring and diagnosis beyond some other methods.

Category:

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



Invention ID: HK - 8522

Inventor(s):

Prof. Sam Kwong, Prof. Yu Zhou

Invention Title:

Al-based Fencing Training and Assessment System

Invention Description:

Smart fencing system integrates wearable IMUs, high-speed cameras, and deep learning to fuse multimodal data for precise training. Employs LLMs to generate personalized feedback, enhancing technical analysis and training efficiency.

Category:

L) Games - Sports - Hobbies



Invention ID: HK - 8523

Inventor(s):

Prof. Wong Pui Yun Paulina

Invention Title:

Smarter Traffic, Safer Roads: AloT and Real-Time GeoAl Innovations for Urban Transport

Invention Description:

The invention employs AIoT, geospatial big data, historical databases, and geospatial artificial intelligence (GeoAl) techniques to develop a real-time GeoAl analytic model, aimed to monitor traffic congestion and assess traffic accident risks in Hong Kong.

Category:

J) Traffic - Transport - Car Accessories



Invention ID: HK - 8524

Inventor(s):

Prof. Fei PAN, Kaixi HAO, Xiaomena SHI

Invention Title:

Give Choices Back to User: A Personalized Movie Recommendation Software with User-Selectable Algorithms and Dynamic Hybrid Optimization

Invention Description:

A personalized movie recommendation system that combines content-based filtering, collaborative filtering, and hybrid recommendation algorithms. Users can select their preferred algorithm for a more accurate and flexible movie recommendation experience.

Category:

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



Invention ID: HK - 8525

Inventor(s):

Prof. Fei PAN, Zefeng LIU, Haili SONG, Xiao MA, Chenchu ZHU, Mindi HUANG

Invention Title:

Intelligent Comments Filtering: A Natural Language Processing (NLP)-Based Method for Negative Review Prediction

Invention Description:

This project builds an efficient malicious comment classifier addressing class imbalance and text complexity. It integrates models like Naïve Bayes, Logistic Regression, and XGBoost via a Voting Classifier. Refined preprocessing and dual vectorization optimize AUC and FI, with average AUC as the final metric.

Category:

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



Invention ID: HK - 8526

Inventor(s):

Prof. Fei PAN, Yechuan ZHOU, Junhao ZHANG, Yuchen TAN

Invention Title:

Buffered Whisper Transformer: A Real-time Speech Recognition System for Edge Devices via Dynamic Audio Chunking Mechanism

Invention Description:

This invention is a real-time speech recognition method and system for non-streaming models based on buffer-controlled segmentation, featuring a fixed-duration threshold audio segmentation strategy and a user-interruptible processing mechanism.

Category:

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



Invention ID: HK - 8527

Inventor(s):

Dr. Shaohua ZHI, Jinyao DAI, Weitao LIU

Invention Title:

An Al Multi-modal and Multi-level Process and Cost Intelligent Analysis Tool for Intelligent Manufacturing

Invention Description:

To provide a process and cost analysis method based on the fusion of knowledge graph, Long Short-Term memory Network (LSTM) and computer vision.

Category:

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



Invention ID: HK - 8528

Inventor(s):

Dr. Shaohua ZHI, cheng FENG, Zixiao LU, Shiteng XU, Yunchao ZHANG, Rongchen LING

Invention Title:

Destiny Compass: Al-Powered Cross-Dimensional Love Matching Ecosystem — Where Ancient Wisdom Meets Al-Driven Soul Alignment

Invention Description:

By building a multimodal data-driven intelligent matching system, it breaks through the limitations of single-dimensional matching in traditional marriage and dating platforms, achieving a technological upgrade from «basic information screening» to «deep compatibility assessment».

Category:

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



Invention ID: HK - 8529

Inventor(s):

Dr. Shaohua ZHI, Zhen ZHANG, Zewen HUANG, Jiaqi CAI, Yitong YU, He WANG

Invention Title:

Lightweight Network Hard Drive Developed for People with Disabilities

24

Invention Description:

The present invention provides a device with features such as a simple interface, easy ope eration, and lightweight (low resource occupancy ratio), which can run smoothly in low configuration devices and unstable network environments.

Category:

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



Invention ID: HK - 85210

Inventor(s):

Prof. Albert KO

Invention Title:

CREW-Wheelchair Control System

Invention Description:

CREW is a force-sensing wheelchair system. It intelligently predicts career intentions, assists on slopes, and improves safety for both wheelchair users and their caregivers.

Category:

M) Medical Technology - Medical Engineering - Medicine - Hygiene



Invention ID: HK - 85211

Inventor(s):

Prof. Albert KO, Dr. Man Ying LEE, Mr. Chun Kwong LO, Mr. Chi Yin LAM, Mr. Chun Hei CHEUNG

Invention Title:

Incuvia-Modular portable foldable affordable baby incubator

Invention Description:

A portable, foldable, modular baby incubator for neonatal care in resource-limited areas. Features easy assembly, transparent TPU chamber & cost-effective interchangeable components.

Category:

M) Medical Technology - Medical Engineering - Medicine - Hygiene



Invention ID: HK - 85212

Inventor(s):

Prof. Albert KO, Mr. Chun Kwong LO

Invention Title:

PureAura-Portable Foldable Mini Energy-saving Air Purifier

Invention Description:

PureAura: Portable, foldable air purifier. Sustainable materials, tool-less assembly. Provides clean air for homes, offices, medical facilities & disaster relief. Improves air quality & health.

Category:

D) Sanitation – Ventilation – Heating



Invention ID: HK - 85213

Inventor(s):

Prof. Jia Ll, Zihan CHEN

Invention Title:

An Intelligent Integrated Carbon Tracking Dogs and Carbon Removal Robots Deployment System

Invention Description:

An intelligent system integrating carbon-tracking dogs and carbon-removal robots autonomously locates high CO₂ areas, navigates complex environments via 3D LiDAR, and uses solar/waste heat for efficient, high-purity CO₂ capture to mitigate climate change.

Category:

P) Energy - Renewable and green energy





Hong Kong SAR

GeneGuard Life Sciences Company Limited www.geneguardprobiotics.com/company info@geneguardprobiotics.com +852 9603 0271 Address: Rm 1002-1003, 10/F, Data Technology Hub, 5 Chun Cheong St, Tseung Kwan O, N.T., Hong Kong SAR



Invention ID: HK - 85214

Inventor(s):

GeneGuard Life Sciences Company Limited, Tsz-Ching Kwong, Chi-Tung Choy, Man-Ho Huen Invention Title:

CREATE: Al-Driven CRISPR/Cas9-Genome Editing Platform for Personalized Live Biotherapeutics Invention Description:

Platform technology enhances probiotics for precise delivery of therapeutics and bioactive molecules, addressing unmet need in geriatrics with innovative live biotherapeutics.

Category:

M) Medical Technology - Medical Engineering - Medicine - Hygiene





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



WSC Holding Limited

admin@winhealthanalytica.com +852 6074 1721

Address: Rm 1002-1003, 10/F, Data Technology Hub, 5 Chun Cheong St, Tseung Kwan O, N.T., Hong Kong SAR



Invention ID: HK - 85215

Inventor(s):

WSC Holding Limited

Invention Title:

Diffuse Correlation and Optical Tomography (DCT/DOT) System

Invention Description:

Non-invasive imaging for deep tissue hemodynamics Al-assisted algorithms for accurate blood flow measuremet Proven clinical applications in breast cancer detection

Category:

M) Medical Technology - Medical Engineering - Medicine - Hygiene



The Education University of Hong Kong

www.eduhk.hk/en/ cqcfeng@eduhk.hk + 852 2948 8888

Address: RM D2-2/F-30B, 10 Lo Ping Road, The Education University of Hong Kong, Tai Po, Hong Kong SAR



Invention ID: HK - 85216

Inventor(s):

Prof Ken Kin-Lam Yung, Prof Zhifeng Huang, Dr Shiqing Zhang

Invention Title:

Novel Biomaterials Used for Dendritic Cell Vaccine for Cancer Immunotherapy

Invention Description:

A designed biomaterial enhances dendritic cell maturation using silica nanomatrices, offering a safe and biocompatible approach to improve cancer treatment efficiency, effectiveness and survival rates.

Category:

M) Medical Technology - Medical Engineering - Medicine - Hygiene



Invention ID: HK - 85217

Inventor(s):

Dr Yeung Kin Chung Michael

Invention Title:

A Hybrid EEG-fNIRS Neurofeedback Application for Brain Training for Autistic Children

Invention Description:

A pioneering hybrid EEG-fNIRS system for multimodal neurofeedback training. It targets cognitive, emotional, and social functions in autism, using valid feedback stimuli, reward delivery, and progressive loading to maximise efficacy and engagement.

Category:

M) Medical Technology - Medical Engineering - Medicine - Hygiene



Invention ID: HK - 85218

Inventor(s):

Dr Fu Hong, Mr He Ziyu, Mr Li Xiao, Miss Wang Yanyue, Prof Chow Hung Kay, Dr Ling Man Ho

Invention Title:

Dynamic SyncAnUp: Eye-Body Coordination Capture for Elite Sports Performance

Invention Description:

A unified system advances computer vision and synthesise contactless 3D joint tracking, AI and gaze clustering to offer personalised visual analysis, optimising athletic skills and training standards across all sports.

Category:

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



Invention ID: HK - 85219

Inventor(s):

Prof Philip Leung-ho YU, Mr Xie Zhiwei

Invention Title:

Automatic Multi-modal Deep Learning Analysis System

Invention Description:

It offers immediate and domain-specific feedback on users' multi-modal inputs, enhancing expertise and Al training by automating dataset evaluation with 96% precision.

Category:

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



Invention ID: HK - 85220

Inventor(s):

MUNG Wai Yin Steve, FOO Sharon, LAI Chun Yin Woody, LO Yuen Wing Crystal

Invention Title:

Integrated Nutrition Management System with Smart Panel and Al Platform for Sustainable Dietary Progress

Invention Description:

A multi-sensing smart panel integrated with an AI nutritionist and validated dish database to provide instant meal analysis and optimise meal plans to sustain specific users' dietary needs effortlessly.

Category:

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



Invention ID: HK - 85221

Inventor(s):

Dr Fridolin TING, Mr Sam LAM, Dr Carter LAM, Mr Roger WONG, Mr Genius CHAN, Mr Calvin TSUI

Invention Title:

YoChatGPT!: Unleashing the Power of Collaborative AI

Invention Description:

YoChatGPT! is a secure and context-aware virtual platform where multiple users collaborate with dynamic Al, transforming advisory, business productivity, and education via smart functions.

Category:

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



Invention ID: HK - 85222

Inventor(s):

Prof Rudolf WU Shiu-sun, Dr Yi YANG, Dr Keng-Po LAI, Prof Alice WONG Sze-Tsai, Dr Run-Sheng Li

Invention Title:

Nanopore Sensing for Rapid Screening Epigenetic Disruptors in Food, Health care Products, Consumer Goods and Environmental Matrices

Invention Description:

A direct and cost-effective detection that quantifies epigenetic changes and expression of genes related to reproduction, development and growth, and derives a quantitative index representing epigenetic risks posed by all chemicals in the sample.

Category:

M) Medical Technology - Medical Engineering - Medicine - Hygiene



IFIA HALL OF INVENTIONS & INVENTORS

Please note that you can only send your request by email to Miss. Katherine Brown to the following email: <u>katherine.brown@ifia.com</u>





City University of Hong Kong (CityUHK)

www.cityu.edu.hk mcmak@citvu.edu.hk +852 3442 7654

Address: Tat Chee Avenue, Kowloon, Hong Kong SAR



Invention ID: HK - 85223

Inventor(s):

E-VITY LIMITED (CityU HK Tech 300); Prof. Juan Antonio ZAPIEN, Miss KWONG Yee Man, Dr. Md Rashedul HUQE

Invention Title:

Advanced Optical Efficiency Enhancer: Leveraging Highly Stable Optical Cavity Technology

Invention Description:

Our innovative optical cavity design delivers superior tolerance to light divergence and misalignment, minimizing leakage. As a cost-effective, high-efficiency optical enhancer, it expands applications from precision optics like lasers and sensors to cutting-edge industrial solutions such as UVC air purifiers and photocatalysis.

D) Sanitation - Ventilation - Heating



Invention ID: HK - 85224

Inventor(s):

CityUHK: Prof. Jin SHANG, Dr. Tianqi WANG; HKUST: Prof. Zhi NING

Invention Title:

Portable and self-cleaning nitric oxide generator

Invention Description:

The compact handheld inhaled nitric oxide (iNO) device delivers on-demand, stable NO for 30+ hours by using 0.4 g of material. Its reactor converts powdered material and water mist into therapeutic NO at <\$0.1 per treatment. A photocatalytic fabric filter at the outlet traps particles and kills pathogens, ensuring safe and clean NO delivery.

Category:

Q) Paramedical - Health - Foodstuffs - Drinks - Cosmetics



Invention ID: HK - 85225

Inventor(s):

CityUHK: Prof. CHUNG Shu Hung Henry, Mr. TANG Ho Tin

Invention Title:

Innovative Gate Drive Technology: Incorporating Self-adaptive Gate Driving, Health Monitoring, and Crosstalk Mitigation for Wide Band Gap Devices Prevalent in Modern Energy Systems

Invention Description:

Crafted for state-of-the-art wide bandgap devices prevalent in modern energy systems, this innovative adaptive gate-driving technology mitigates crosstalk effects, prolongs device lifespan, and monitors health for optimal performance enhancement.

Category:

B) Electronics – Electricity – Methods of Communication



Invention ID: HK - 85226

Inventor(s):

CityUHK: Prof. ZHU Zonglong, WANG Ning,YU Zexin, Dr. ZHANG Chunlei, Dr. GAO Danpeng, Francesco VANIN

Invention Title:

InLight Perovskite - Sustainable Indoor Solar Cell System for IoT Self-powered Applications **Invention Description:**

InLight Perovskite is an indoor solar system using perovskite cells designed for low-light environments including LED lighting. It powers IoT sensors and devices with high efficiency, replacing disposable batteries. The lightweight, flexible design with self-encapsulation ensures durability and seamless integration into compact devices.

Category:

B) Electronics – Electricity - Methods of Communication



Invention ID: HK - 85227

Inventor(s):

CityUHK: Prof. Johnny HO, Miss YIN Di, Miss CHEN Mengxue, Dr. CHEN Dong, Dr. QUAN Quan

Integrated Reactor for Synergistic Solar-driven Water Purification and Hydrogen Generation **Invention Description:**

A solar-powered water splitting system, coupled with water purification, efficiently harnesses sunlight to generate hydrogen fuel while purifying open-water sources like seawater and wastewater. This dual-function approach advances clean energy production and enhances water security by transforming contaminated water into valuable resources.

Category:

P) Energy - Renewable and green energy



Invention ID: HK - 85228

Inventor(s):

Cimple Biotechnology Limited (CityU HK Tech 300, Hong Kong Centre for Cerebro-cardiovascular Health Engineering)

Invention Title:

Quantitative Rapid Test for Early Disease Screening

Invention Description:

Conventional rapid test is widely used during the COVID-19, but is insufficient to screen disease that needs quantitative results. We provide a quantitative rapid test quantifying urine albumin/creatinine ratio (uACR) as bar lengths displayed on the device, offering solutions for large-scale chronic kidney disease screening in primary care.

Category:

M) Medical Technology - Medical Engineering - Medicine - Hygiene



Invention ID: HK - 85229

Inventor(s):

CityUHK: Prof. Freddy BOEY, Prof. GOH Chin Foo

Invention Title:

PRISTINZ Anti-thermal Glass

Invention Description:

Our anti-thermal glass technology filters up to 90% of infrared radiation and 99% of UV rays, providing thermal control to lower indoor temperatures by up to 9°C without the need for extra shade or tinting.

Category:

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



Invention ID: HK - 85230

Inventor(s):

CityUHK: Prof. Pui-Chi LO, Prof. Kwan Ting CHOW, Dr. Feijie XU, Dr. Meijun WANG, Dr. Eunice DOTSE Invention Title:

Novel Oxygen-Economizing Photosensitizer: Zinc(II) Phthalocyanine Substituted with NO-releasing Moieties for Enhanced Photodynamic Therapy against Hypoxic Tumours

Invention Description:

Novel photosensitizers for advanced immuno-photodynamic therapy (iPDT) in cancer. These zinc(II) phthalocyanines with NO-releasing moieties suppress mitochondrial respiration, preserve oxygen, and induce cytotoxicity in hypoxic tumors upon light activation, triggering immunogenic cell death and enhancing antitumor immunity.

Category

M) Medical Technology – Medical Engineering – Medicine – Hygiene



Invention ID: HK - 85231

Inventor(s):

CityUHK: Prof. LI Xinke, Prof. Freddy BOEY, Prof. GOH Chin Foo, Prof. GAO Yunfeng

Invention Title:

Breath AI - Breath Diagnostics, Powered by AI

Invention Description:

Breath AI is an AI-powered, non-invasive diagnostic platform that analyzes exhaled breath to screen for multiple diseases in just one sample. By combining deep learning with mass spectrometry, it detects volatile organic compounds (VOCs) in human breath-biomarkers linked to both infectious and chronic diseases.

Category:

36

M) Medical Technology - Medical Engineering - Medicine - Hygiene



Hong Kong Baptist University

www.hkbu.edu.hk tinayeungky@hkbu.edu.hk +852 3411 8074 & +852 3411 7400 Address: Kowloon Tong, Kowloon, Hong Kong SAR



Invention ID: HK - 85232

Inventor(s):

Prof. Jeffrey CHEUNG

Invention Title:

Aspire Motion Wearable Digital Therapy

Invention Description:

Digital therapy platform using single wearable sensor to identity hidden deficits and risks in balance, mobility, and strength in as little as 90 sec, with results correlating to 30 min clinical assessments.

Category:

M) Medical Technology - Medical Engineering - Medicine - Hygiene



Invention ID: HK - 85233

Inventor(s):

Prof. Hoi Leong Xavier WONG

Invention Title:

Metabolic modulation of intertumoral cholesterol with engineered bacteria for the treatment of colorectal cancer

Invention Description:

Colorectal cancer (CRC), the third most common cancer, has limited treatment options. Our engineered microbial therapy offers a novel approach by restoring intestinal cholesterol homeostasis. It effectively suppresses KRAS-mediated CRC by dually inhibiting EGFR and KRAS mutants, presenting a promising therapeutic strategy for CRC treatment.

Category:

M) Medical Technology – Medical Engineering – Medicine – Hygiene



Invention ID: HK - 85234

Inventor(s):

Prof. Hongjie ZHANG

Invention Title:

Development of Justicia Chinese Medicinal Plants as Antiviral Veterinary Products

Invention Description:

We found out Justicia plants show potent broad-spectrum effects against animal viruses like bird flu virus. Active ingredients in the plants show antiviral activity at the nM level with a novel mechanism of action. Products with these ingredients show high efficacy and safety, making them promising candidates as feed additives and veterinary drugs.

Category:

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



Invention ID: HK - 85235

Inventor(s):

Dr. Jenny NG

Invention Title:

Broad absorption spectrum for sunscreen compounds and its applications

Invention Description:

Jelumiere redefines sun care with patented UV compounds offering safe, broad-spectrum protection. It minimizes skin absorption and endocrine-disrupting risks of chemical filters, surpasses physical filter limits, and protects across UVA, UVB, near-UV and visible light. Ideal for clean beauty and FDA-compliant high-SPF B2B/B2C sun care solutions.

Category:

Q) Paramedical - Health - Foodstuffs - Drinks - Cosmetics



Advanced Biomedical Instrumentation Centre

www.abic.hk

info@abic.hk & sigrid.chen@abic.hk +852 3910 3956 / +852 3910 3678 Address: Unit 1102, 11/F, Building 17W, Hong Kong Science Park. Hong Kong SAR

Invention ID: HK - 85236

Inventor(s):

David Weitz, Sijie Chen, Wenshan Zheng, Anderson Shum, Xing Zhao, Yulin Zhang, Hon Yin Leung, Peiye Li, Advanced Biomedical Instrumentation Centre

Invention Title:

Next-generation PCR: Pioneering the Future of Public Health Screening

Invention Description:

Methods have been developed for the multiplexed detection of target nucleic acids using thermal barcodes, offers high-throughput capabilities that rival the performance of sequencing, making it highly suitable for applications such as infectious disease diagnostics, cancer diagnostics, and public health screening initiatives.

Category:

M) Medical Technology - Medical Engineering - Medicine - Hygiene

Nano and Advanced Materials Institute

www.nami.org.hk info@nami.org.hk +852 3511 3407 Address: Unit 515, Lakeside 1, No. 8 Science Park West Avenue, Hong Kong Science Park, Hong Kong SAR



Invention ID: HK - 85237

Inventor(s):

Nano and Advanced Materials Institute, Dr. Shengbo LU, Dr. Wei HUANG, Ms. Xinying SUN, Mr. Wai Chung LI, Amperex Technology Limited, Dr. Yuhao LU, Mr. Yuansen XIE, Dr. Xiaoping LIN, Dr. Huajin HE. Dr. Yichao CAI. Ms. Yao OlU

Invention Title:

AN-1: Ultra-Stable 400Wh/kg and 900Wh/L 5Ah Lithium Metal Battery (LMB) with 3D Nano-scaffold Anode

Invention Description:

The AN-1 5Ah LMB is the world's first long-cycle lithium metal battery with a flexible 3D nano-scaffold anode, offering >400Wh/kg and >900Wh/L energy density, 40% more than the latest lithium-ion batteries. It maintains stable cycling for >500 cycles under 1C and passes the 145C hot box safety test, making it ideal for portable electronics.

Category:

P) Energy - Renewable and green energy



Invention ID: HK - 85238

Inventor(s):

Nano and Advanced Materials Institute

Mr. Yam CHONG, Mr. Ka Chun LAU, Mr. Cheuk Yin LEE, Dr. Shengbo LU, Dr. Chenmin LIU, Long Sing Technology Group (Hong Kong) Limited

Mr. Zhenxiana XU

Invention Title:

Hybrid-Powered Asset Tracker for Smart Airport

Invention Description:

NAMI's self-powered asset tracker enables real-time location monitoring for trolleys and dollys. Supported by Hong Kong Airport Authority, it seamlessly switches between Bluetooth indoors and GPS outdoors for precise tracking. With long-lasting batteries and solar energy harvesting, its lifespan extends beyond five years, ensuring reliable and sustainable asset management.

Category:

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





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 B

If the applicant fulfilled 66 to 100 points, they would receive an IIS grade B

If the applicant fulfilled 25 to 40 points, they would receive an IIS grade B

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

Close A: The applicant fulfilled 15 to 61 point, they would receive an IIS grade C

Close C: 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 abould know that the innovation of the process must be visible. In other words, the process must be harden between a distinctive, innovative escence to get the IFIA Innovative escence to get the IFIA Innovative escence. In innovative product line, or innovative product line, or innovative product line, or innovative product statements.

- Place

submit and get the IFIA Innovation

If a structure had lincovative characteristics such as innovative product, one should have that the submitting product must have submitting product must have submitting product must have possible for them to achieve IIS or a building. For instance, take the case of the construction of a manufacture, education centers, and complexes. If innovation is used in this attracture, they can

- 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 tanglide, having a prototype, being altrody on the prototype, being altrody or the

- Person





Invention ID: HK - 85239

Inventor(s):

Nano and Advanced Materials Institute, Joo Ann EWE, Mu WANG, Yao WANG, Chun-Hay KO; Jointure Technology International Limited, Ching FONG

Invention Title:

Somorrow[™] So! Salmon: 3D-printed Premium Plant-Based Salmon Sashimi

Invention Description:

Somorrow™ revolutionizes the food industry by offering a sustainable sashimi-grade plant-based salmon with advanced 3D printing and nanotechnology. Unlike other market available vegan alternatives that lack authenticity and require cooking, Somorrow™ nanostructured bigel system replicates the texture and taste of raw fish while enhancing nutrition and conserving the marine ecosystem.

Category:

Q) Paramedical - Health - Foodstuffs - Drinks - Cosmetics



Invention ID: HK - 85240

Inventor(s):

Nano and Advanced Materials Institute, Dr. Wenjun MENG, Dr. Wai Hong YU, Dr. Wing Man CHAN; Main Choice Paper Products Limited, Mr. Pit Shing TUNG

Invention Title:

PAPEL+: Water-Resistant, Oil-Resistant, and Germ-Repellent Varnish for Paper Packaging Invention Description:

PAPEL+ is a first-in-market, plastic-free varnish designed for food paper packaging, offering exceptional water and oil resistance, along with germ repellency. It meets FDA food-contact safety standards, prevents bacterial contamination, and is certified 100% repulpable. PAPEL+ revolutionizes traditional plastic-lined paper packaging, providing a safe and sustainable alternative in the industry.

Category:

Q) Paramedical - Health - Foodstuffs - Drinks - Cosmetics



Invention ID: HK - 85241

Inventor(s):

Nano and Advanced Materials Institute, Dr. Kang ZHANG, Dr. Shilong ZHANG, Dr. Pak Chung LAU, Dr. Yuping CHANG; Safe Concept Limited, Dr. Philip Fung

Invention Title:

NuHip: Body-fitting, Comfortable Hip Protector for Bone Fracture Prevention.

Invention Description:

Hip fractures are the most severe fall-related injury in the elderly. NuHip is the world's first hip protector for shower use, which contains a bio-inspired two-phase network and shape-memory materials, delivering adaptive, universal fit and superior impact protection—empowering safer, more comfortable, and independent living foraging individuals.

Category:

Q) Paramedical - Health - Foodstuffs - Drinks - Cosmetics

Invention ID: HK - 85242

Inventor(s):

Nano and Advanced Materials Institute, Qijia FU, Wing Yu CHAU, Hang Kuen YIP, Harvest Time Façade Limited, Emmett LEUNG

=++++===

Invention Title:

Transparent Sun Nanocurtain

Invention Description:

The first-and-only long-lasting, low-cost, and easy-to-apply coating offers outstanding energy-saving performance to various building windows, particularly those in old buildings. This innovative coating blocks 50% of solar energy while enabling > 60% visible light transmission and < 6% reflection, the top leading performance in the world.

Category:

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



Invention ID: HK - 85243

Inventor(s):

Nano and Advanced Materials Institute, Dr. Eric KWOK, Mr. Derek LI, Dr. Manami KAWAKAMI, Dr. Gary HUNG, Dr. Olivia WANG, Mr. Martin CHENG; Shenzhen HFC Co., Limited, Mr. Aixiang SUN Invention Title:

Adopting NAMI-SUPERTHERM Immersion Coolant for Al Servers and High Performance Computers **Invention Description:**

NAMI-SUPERTHERM coolants offer superior thermal management for servers and HPC systems. With advanced molecular design, they enhance heat transfer performance. They are non-toxic and safe, featuring a low global warming potential (GWP) to minimize environmental impact. Their high material compatibility and stability ensures reliable system uptime.

Category:

B) Electronics – Electricity – Methods of Communication



CardioBionic MedTech India Pvt Ltd

kr@saimalabs.com / anand@ifiabharat.com Address: Bangalore Bioinnovation Centre, Helix Biotech Park, IBAB Campus, Electronics City Phase 1, Bengaluru, Karnataka 560100, India



Inventor(s):

Dr. KR Balakrishnan, Dr. Karthik Ramesh

Invention Title:

Artifical LVAD RVAD Pump (Artificial Human Heart Pump) / Heart Lung Machine

Invention Description:

We have developed a low-cost (30k USD), Modular heart assist device for Left and Bi-Ventricular failure. We did this because most people die from left-side heart failure and need an LVAD before BiVAD.

Category:

M) Medical Technology - Medical Engineering - Medicine - Hygiene



The First Institute of Researchers and Inventors (FIRI)

www.inventor.ir info@inventor.ir +98 21 7763 9654 / +98 21 7763 4174 Address: U 13, No 4., Mirjahangiri Alley., Shariati St., Tehran, Iran

Invention ID: IR - 9801

Inventor(s):

Amir Hossein Ebrahimi Kheimesari / CureLance LLC and SGC biogroup

Invention Title:

New pharmaceutical called XA as a new Antibiotic/antimicrobial

Invention Description:

AMR (Antimicrobial resistance) is a global crisis that known in most countries. AMR killed millions of people annually and can damage civilization progress in next few years like Corona. In AMR phenomenon, usual antibiotics lose their abilities to control bacteria infection so in this way humanity back to thousands of years and become vulnerable to something that we called easy diseases today like before antibiotic discovery so it's important discovery new antibiotics to prevent the AMR effect on human health in planet.

Category:

M) Medical Technology - Medical Engineering - Medicine - Hygiene



Invention ID: IR - 9802

Inventor(s):

Farzan Farhadi

Invention Title:

Drip-stop Nozzle

Invention Description:

A spring-loaded mechanical cap for fuel nozzles that automatically seals after removal, preventing fuel drips and enhancing safety and cleanliness.

Category:

E) Security - Rescue - Alarm



Invention ID: IR - 9803

Inventor(s):

Kiarash Zolfaghari

Invention Title:

Touch Activated Magnetic Plate

Invention Description:

A smart magnetic surface secures dishes during motion using touch-controlled electromagnets. Touching the dishes deactivates the field for easy removal.

Category:

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



Invention ID: IR - 9804

Inventor(s):

Sayedmahdi Azizzavie, Maryam Moodi

Invention Title:

A Smart Mixing Machine with A Digital Measurement System Produces Lightweight Construction Porous Materials of Foam and Water with Raw and Pre-Mixed Materials

Invention Description:

This invention is an intelligent device designed to mix construction raw materials with water and foam to produce lightweight and porous mortars. These mortars can be used as fillers, as well as for sound and thermal insulation between walls or on floors. The device features a smart planning system, a weighing system, and a liquid measuring system that allow precise mixing of base materials with accurate ratios of water and foam. Its central control panel includes a memory, enabling the operator to set and store the composition ratios, ensuring consistent output quality. The device can be used in all types of buildings, under any weather conditions, and with locally available materials.

Category:

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



Invention ID: IR - 9805

Inventor(s):

Mohammadreza Ashkbousi, Mohsen Motevaselian, Milad Javadi, Akram Entezami, Hanieh Jadidi, Reza Ahmadilashaki

Invention Title:

Al-Powered Smart Ring for Real-Time UV Exposure Alerts and Personalized Skin Health Management

Invention Description:

A stylish Al-powered smart ring that monitors UV exposure and skin health in real time. It alerts users instantly to risks and offers personalized lifestyle insights. Combines beauty, sensors, and preventive care in one wearable device.

Category:

M) Medical Technology – Medical Engineering – Medicine – Hygiene



Invention ID: IR - 9807

Inventor(s):

Mohammadjavad Mohammadi Shahrokhabadi

Invention Title:

Harnessed hand shovel with electric drive to reduce pressure on hands and shoulders while working

Invention Description:

A harnessed hand shovel with electric drive to reduce pressure on the hands and shoulders while working and it is used in the fields of agriculture, construction and mining.

Category:

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



Invention ID: IR - 9808

Inventor(s):

Hamidreza Kaviyani, Mohammad Nasiri, Najmeh Ahmadabadi, MohammadReza Emtehani, Ashkan Kaviyani, Mohammad Kaviyani

Invention Title:

Smart Baby Washing System

Invention Description:

Smart baby washer enhances hygiene and bonding with safe, gentle, eco-friendly care-redefining newborn washing worldwide.

Category:

M) Medical Technology - Medical Engineering - Medicine - Hygiene



Invention ID: IR - 9809

Inventor(s):

Ali Limoochi, Mehdi Abrishami, Mohammad Javad Mohammadi, Mina Dehghan Mongabadi, Mohammad Sadegh Maleki, Mohammad Mehdi Malek

Invention Title:

Soft Surgical Arm Inspired by Octopus Limb Structure for Minimally Invasive Surgeries

Invention Description:

A soft, flexible robotic arm with precise telescopic motion and smart sensing offers a novel solution for safe,accurate minimally invasive surgeries in tight spaces.

Category:

M) Medical Technology - Medical Engineering - Medicine - Hygiene



Invention ID: IR - 9810

Inventor(s):

Sarah Arzani, Ali Karimi, Milad Alikhani Chamgordani

Invention Title:

Personalized Treatment-based File System for Apex Morphology Analysis, Canal Sealing Strategy, and Calcium Silicate Packing

Invention Description:

An intelligent endodontic system analyzes apex morphology and guides customized sealing and material packing, ensuring precise, anatomy-based root canal treatment.

Category:

M) Medical Technology - Medical Engineering - Medicine - Hygiene



Invention ID: IR - 9811

Inventor(s):

Saya Ansarian

Invention Title:

Chewable Ball for Oral Delivery of Vitamins and Medications to Pets

Invention Description:

A chewable toy ball for pets designed to enable stress-free, controlled oral delivery of vitamins, supplements, and medications through natural play behavior.

Category:

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



Invention ID: IR - 9812

Inventor(s):

Eng. Hossein Alinajad Sarkhani, Dr. Davoud Beheshtizadeh, Eng Hadi Rouhi Belvirdi, Eng. Mohammadali Alinajad Sarkhani / DAHA Scientific and Research Institute

Invention Title:

Eco-Engineered Green Bricks from Recycled Plastic, Glass, and Biomass

Invention Description:

Eco-friendly bricks made from recycled plastic, glass, and agricultural waste. Lightweight, fire-resistant, modular, and insulating. Powered by solar/wind energy. Cuts CO₂ by 40%, costs by 30%. Scalable, recyclable, smart-ready—ideal for green, smart, and affordable construction globally.

Category:

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



Invention ID: IR - 9813

Inventor(s):

Dr. Aydin Ostovar / Aydin Institute of Intelligence, Talent and Creativity

Invention Title:

INTELNOVO: The Game of Intelligence and Innovation

Invention Description:

INTELNOVO is an educational word-based game designed to boost intelligence, innovation, and speed in ages 9–15. It features 60 challenge cards, 80 wooden cubes, and timed tasks. With scoring by difficulty, team play, and bonus cards, it builds cognitive skills through fast-paced fun and creativity.

Category:

O) Teaching Research – Pedagogical Items



Invention ID: IR - 9814

Inventor(s):

Mahya Ghouchani, Mojtaba Darbaniyan, Sara Alimohammadi

Invention Title:

Mechatronic Device and Method for Converting Stairs into Ramp

Invention Description:

Adaptive construction system for uneven surfaces. Transforms stairs into ramps mechanically and hydraulically. Enables mobility for users with physical limitations.

Category:

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



Invention ID: IR - 9815

Inventor(s):

Amir Hossein Ebrahimi Kheimesari / CureLance LLC and SGC biogroup

Invention Title:

New pharmaceutical called XA as a new Antibiotic/antimicrobial

Invention Description:

AMR (Antimicrobial resistance) makes antibiotics ineffective, leaving humanity vulnerable to once-treatable diseases. Urgent discovery of new antibiotics is vital to protect global health and prevent a return to the pre-antibiotic era.

Category:

M) Medical Technology - Medical Engineering - Medicine - Hygiene



Invention ID: IR - 9816

Inventor(s):

Mohammad Mahdi Kordian Hamedani

Invention Title:

Hydro Turbine for electricity generation utilizing gravity and convection flow

Invention Description:

This device generates electricity without fuel, using gravity and convection. Water from a top tank sprays under pressure onto a turbine below, driving a generator. The cycle repeats continuously, making clean energy with no external power source.

Category:

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



Invention ID: IR - 9817

Inventor(s):

Hesam Jafari Yazdabadi, Hamid Jafari Yazdabadi / GRAVINERGY

Invention Title

Evaporative power plant for the production of electricity and fresh water using solar panel

Invention Description:

This system uses seawater and sunlight to produce electricity and distilled water. Filtered seawater evaporates in vacuum chambers, drives a Stirling engine via pressurized steam to generate power, and exhaust steam condenses into pure water.

Category:

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



Invention ID: IR - 9818

Inventor(s):

Saeid Abazari, Hesam Jafari Yazdabadi / GRAVINERGY

Invention Title:

Seesaw Generator

Invention Description:

This device uses gravity, a spring's elastic force, and simple mechanics to create continuous linear piston motion inside a cylinder, generating electricity. It requires no fuel and operates on a seesaw-like mechanism.

Category:

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



Invention ID: IR - 9819

Inventor(s):

Saeid Abazari, Hesam Jafari Yazdabadi / GRAVINERGY

Invention Title:

Marine generator utilizing seawater and convection mechanism

Invention Description:

This generator produces renewable energy solely from seawater with over 80% efficiency. It operates continuously without relying on waves, tides, wind, sunlight, fuel, or other energy sources. It creates continuous motion using height differences and gravitational convection currents.

Category:

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



Invention ID: IR - 9820

Inventor(s):

Saeid Abazari, Hesam Jafari Yazdabadi / GRAVINERGY

Invention Title:

Hydrogen gas generator for household use

Invention Description:

This household gas unit produces high/low purity hydrogen for cooking from water, solar, and wind power—cheaper, cleaner, and safer than fossil fuels. No pressurized storage; gas is made only when the torch is on, with a controllable flame and no pollution.

Category:

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

IFIA HAS JOINED AT THE "MIT SOLVE", A FANTASTIC JOINT

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 of 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.

COOPERATION

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 round-tables 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/



Inventor(s):

Alireza Hashemi, Beheshteh Sadat Vakili, Arousha Monazami, Sima Safaei, Amirhossein Jafarnezhad, Elaheh Shiri Varnamkhasti

Invention Title:

Smart device for detecting the angle of Hallux Valgus and analyzing the treatment process of the deformity based on image processing

Invention Description:

A Bunion or Hallux Valgus is a type of deviation and deformity in the big toe. This invention uses image processing to detect the angle of Hallux Valgus and monitor the treatment process, helping doctors to assess more accurately and provide more appropriate treatment solutions

Category:

M) Medical Technology – Medical Engineering – Medicine – Hygiene



Invention ID: IR - 9822

Inventor(s):

Alireza Hashemi, Sepideh Tizghadam Khatib, Dorsa Golzar Saravi, Radmehr Hakamirad, Seyyed Ahmad Hosseini, Maryam Kabuli

Invention Title:

Smart Glasses for Detecting Auditory Hallucinations in Schizophrenia Patients, Aimed at Controlling and Improving Symptoms During Disease Exacerbation

Invention Description:

Schizophrenia is a severe mental disorder that affects 1% of the world's population and is characterized by auditory hallucinations. The proposed invention with the merge of modern technologies into smart glasses allows real-time monitoring and multi-faceted feedback, helping patients differentiate hallucinations from reality.

Category:

B) Electronics – Electricity - Methods of Communication



Invention ID: IR - 9823

Inventor(s):

Alireza Hashemi, Fatemeh Emami Moghaddam

Invention Title:

Smart respiratory mask with voice amplification capabilities for ICU patients

Invention Description:

A smart Al-powered respiratory mask was invented to help ICU patients communicate clearly while wearing respirators. Since they can't remove the mask due to their critical conditions, the mask amplifies their voice, making it easier for hospital staff and visitors to understand them.

Category:

M) Medical Technology - Medical Engineering - Medicine - Hygiene





Inventor(s):

Dr.Maria Beihaghi / Ferdowsi University

Invention Title:

Medicinal products based on exosomes derived from plants, humans, algae, and medicinal mushrooms to treat the skin diseases

Invention Description:

This invention uses plant, algae, mushroom, and human exosomes to treat skin diseases. These vesicles deliver bioactive molecules to rejuvenate, lighten, and repair skin, aiding hyperpigmentation, eczema, melasma, aging, and wounds while reducing costs and boosting skin health.

Category:

Q) Paramedical - Health - Foodstuffs - Drinks - Cosmetics



Invention ID: IR - 9825

Inventor(s):

Dr. Mohammadreza Zare , Nika Ghahramanifard, Dr. Mohammadmehdi Ghahramanifard / Avicenna Tajik State Medical (ATSMU)

Invention Title:

OrthoLift-RU fixation device designed for upper limb fractures (Radius and Ulna bones)

Invention Description:

For ulna, radius, or tibia fractures: auto-elevates limbs reduces swelling & bruising, accelerates healing precise alternative to manual methods

Category:

M) Medical Technology - Medical Engineering - Medicine - Hygiene



Invention ID: IR - 9826

Inventor(s):

Dr. Mohammadreza Zare, Alireza Ghaedian, Dr. Mohammad Mehdi Ghaedian / Avicenna Tajik State Medical (ATSMU)

Invention Title:

Device to carry Organs and tissues

Invention Description:

Organ preservation redefined: maintains 0–10°C delivers vital fluids, tracks location reduces cell damage ideal for emergency transplants

Category

M) Medical Technology - Medical Engineering - Medicine - Hygiene



Invention ID: IR - 9827

Inventor(s):

Amir Hossein Hashemi

Invention Title:

Al-Powered Multifunctional Smart Ceiling Light

Invention Description:

A multifunctional smart AI light with offline voice control, real-time intercom, cloud based AI interaction, IoT control, facial/voice recognition and a projector.

Category:

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



Invention ID: IR - 9828

Inventor(s):

Seyedalialnaghi Tabatabaeiseyfi

Invention Title:

Smart gearboxes that provide 100% balancing, in traction elevators

Invention Description:

Invention of smart gearboxes to achieve a hundred percent balance between the cabin and weight for any speed, any capacity, and any number of stops.

Category:

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



Invention ID: IR - 9829

Inventor(s):

Seyederfan Arbabzadeh

Invention Title:

Stuttering Analysis System for Children Using Facial and Physiological Signals with Al-Based Therapy

Invention Description:

Wearable sensors and facial image processing track heart rate, stress, and jaw pressure during speech; data is analyzed to suggest personalized therapy.

Category:

M) Medical Technology – Medical Engineering – Medicine – Hygiene



Invention ID: IR - 9830

Inventor(s):

Faezehalsadat Seyedkhamoushi, Rozasadat Seyedkhamooshi, Mohammad Sassani Asl, Mohammadhossein Sharifnia, Hamid Reza Abdollahi

Invention Title:

Multimodal Smart Eyeglasses for Adaptive Vision, Predictive Ocular and Hemodynamic Monitoring, and Emergency Response

Invention Description:

Advanced eyeglass temple frame uses THz waves, sensors, and micro-cameras to monitor eyelid and eye health, enabling early detection of eye disorders and predicting diseases like stroke.

Category:

M) Medical Technology - Medical Engineering - Medicine - Hygiene



Inventor(s):

Mohammad Sassani Asl, Faezehalsadat Seyedkhamoushi, Rozasadat Seyedkhamooshi, Mohammadhossein Sharifnia

Invention Title:

Multi-Sensory Autonomous Multimodal Emotion-Synchronized Environmental Control Architecture and Regulation System (AMESECAR)

Invention Description:

Offline smart system adjusts air, light, and sound based on real-time emotion and behavior using sensors and AI offering private, adaptive comfort with predictive maintenance across environments.

Category:

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



Invention ID: IR - 9832

Inventor(s):

Mohammad Reza Esmaeil Pour, Narmin Ghasemzadeh

Invention Title:

Dental Composite Containing Hemocyanin Biosensor for Detection of Periodontal Infection and Sub-restorative Caries

Invention Description:

Smart dental composite with hemocyanin-filled capsules detects hidden decay by color or fluorescence change, needing no special tools safe, effective, and easy for dentists to use.

Category:

M) Medical Technology – Medical Engineering – Medicine – Hygiene



Invention ID: IR - 9833

Inventor(s):

Masoumeh Ghorbani, Zahra Ghorbani, Benita Mahdizadeh, Vania Dadgar, Nafas Abollahi

Invention Title:

Mechanical Goniometric Collar with Angular Locking, Deterrent Spray System, and Position Sensor to Prevent Leaf Consumption by Sheep

Invention Description:

Smart eco-collar for sheep uses sensors, a lock, and bitter spray to limit harmful grazing. Solar-powered and app-connected, it offers autonomous, sustainable pasture protection.

Category:

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



Invention ID: IR - 9834

Inventor(s):

Ashkan Sakan, Asma Sakan, Nesa Sakan Neda Farhangi Ghalehjoughi

Invention Title:

Non-Electric Colorimetric and Olfactory Carbon Monoxide Sensor Based on Polyphenol Metal Oxide Nanocomposite and Hemocyanin for Household Use

Invention Description:

Non-electric CO sensor uses eco-safe nanomaterials to trigger color and odor alerts upon gas exposure. Low-cost, power-free, and versatile for passive use in diverse environments.

Category:

E) Security - Rescue - Alarm



Invention ID: IR - 9835

Inventor(s):

Reza Mosaddeghi Heris, Hamed Aghazadeh, Tahereh Sangchooli, Reyhaneh Nasr Azadani, Sahar Hefzollesan, Fatemeh Kabiri, Sahra Hefzollesan, Somaiyeh Pouresmaeil, Kimia Bagheri, Amir Hosein Shahbaz

Invention Title:

Nanoformulation Containing an Exosome-Derived Monoclonal Antibody and a Drug-Binding Ligand Targeting the TfR for Glioblastoma

Invention Description:

Use PEGylated, targeted liposomal nanoparticles, combination with monoclonal antibodies against the TfR expresse on brain capillary endothelial cells delivering drug for Glioblastoma Category:

M) Medical Technology - Medical Engineering - Medicine - Hygiene



Invention ID: IR - 9836

Inventor(s):

Seyed Hossein Amiri Sararoudi, Reza Bashardoust, Amir Hossein Bashar Doust, Seyed Sajjad Amiri Sararoudi, Parivash Sheybaninik, Hamid Reza Bashardoust

Invention Title:

Surface Hardness by Welding Method Under Phase Transformation Temperature

Invention Description:

We've developed an intermediary structure that enables strong welding between BCC and FCC metals, solving key industry challenges and boosting efficiency.

Category:

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



Invention ID: IR - 9837

Inventor(s):

Arezoo Vafaei, Mina Vafaei, Kaveh Vafaei

Invention Title:

Bio-smart facade system with adaptive adjustment of light, temperature, and air purification using self-healing bio-nanofilms

Invention Description:

This innovation in the field of smart buildings aims to protect the environment, conserve energy, and organize the urban facade through architectural design.

Category:

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



Inventor(s):

Nikoo Eshraghi, Nesa Eshraghi, Hossein Eshraghi, Navid Eshraghi, Mahla Hanri

Process for producing a stick ice pop using a kashk-based mixture

Invention Description:

The process of producing a stick ice pop with kashk is an innovative method to create a healthy and nutritious snack. Protein- and calcium-rich kashk is blended with flavorings, poured into stick molds, and frozen to yield a tasty, nutritious alternative to regular ice pops.

Q) Paramedical - Health - Foodstuffs - Drinks - Cosmetics



Invention ID: IR - 9839

Inventor(s):

Sina Jannesar, Maedeh Pournasir Roudbaneh

Invention Title:

A dental implant designed to protect a network of nerves during oral and maxillofacial surgery **Invention Description:**

This system aims to prevent injury to the inferior alveolar nerve and the Schneiderian membrane during dental implant procedures. It includes an implant drill that can bore into the patient's lower jawbone, a conductive clip attached to the patient's lower lip, a controller that connects the drill to an ohmmeter, and the ohmmeter itself, which is linked to both the drill and the clip via two separate wires. The ohmmeter is set up to continuously measure the electrical resistance between the implant drill and the conductive clip. When this resistance reaches the preset value of 400 Ohms, the system recognizes the close proximity to vital anatomical structures and signals for the drilling to stop, thus helping to avoid any potential damage.

Category:

M) Medical Technology - Medical Engineering - Medicine - Hygiene



Invention ID: IR - 9840

Inventor(s):

Seyedabdolhassan Johari

Invention Title:

System and method for capability assessment using a personalized digital clone within a dynamic simulation environment

Invention Description:

This invention is a computer-based system for predicting performance and providing personalized development. It uses profiling, simulation with a digital clone, and analytics to detect biases and behaviors, enabling tailored interventions in a secure, proctored environment with continuous feedback and improvement.

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

Innovation Guidline

A Toolkit for Change

777



Inventor(s):

Shirin Abbaspour

Invention Title:

System and Method for Comprehensive Physical Assessment and Sports Talent Identification Invention Description:

This invention offers a non-invasive, low-cost method to assess physical and psychomotor traits in children aged 3–10 using portable tools. It recommends five sports based on the child's profile, replacing subjective evaluations with accurate, data-driven insights, suitable for schools, clinics, and sports centers.

Category:

O) Teaching Research – Pedagogical Items



Women Inventors Association (KWIA) / Dayoung, HL SCIENCE

www.inventor.or.kr / www.hlscience.com gokiwie@gmail.com & dayoung@hlscience.com +822 538 9983

Address: 6F, Korea Intellectual Property Service Center 131, Teheran-ro, Gangnam-gu, Seoul, 06133, Korea



Invention ID: KR -8201

Inventor(s):

Hae Yeon LEE, Beom Rak CHOI, Hye Rim PARK / HLSCIENCE Co. Ltd.

Invention Title:

Method for improving periodontitis and alveolar bone loss of complex extracts of Moringa leaf and Eucommia Bark by anti-bacterial, antioxidant, anti-inflammatory, antioxidant effects and inhibition of alveolar bone loss

Invention Description:

The Moringa and Eucommia ulmoides composite according to the present invention is recognized for its synergistic effect on improving periodontal diseases including gingivitis and periodontitis, and has excellent potential to be used as a preventive and treatment for periodontal diseases such as antioxidants, antibacterial, anti-inflammatory, or periodontal loss improvement and regeneration.

Category:

M) Medical Technology - Medical Engineering - Medicine - Hygiene



Invention ID: KR -8202

Inventor(s):

Hae Yeon LEE, Jong lae KIM, Jong Wook LEE, Sung Bin IM, Jin seoung YANG / HLSCIENCE Co. Ltd. Invention Title:

Pharmaceutical composition comprising HL-Neuropion (complex of pine needle extract and galangal extract) as an active ingredient that improve cognitive function and treat dementia through anti-inflammation, inhibition of neurotransmitter degradation and inhibition of amyloid beta aggregation

Invention Description:

The composite of the pine needle extract and the galangal extract of the present invention relates to a pharmaceutical composition having multiple mechanisms for the prevention, improvement, or treatment of dementia and cognitive decline. The composite is highly likely to be used in the treatment of dementia by inhibiting neuroinflammation, neuronal cell death, beta-amyloid aggregation, and tau aggregation, increasing neurotransmitter and synaptic plasticity.

Category:

M) Medical Technology – Medical Engineering – Medicine – Hygiene



National Association for Science and Research (NASR)

www.nasr.org.lb info@nasr.org.lb

+961 546 4996

Address: No 1 City Rafik Hariri University, Lebanese University, Lebanon



Invention ID: LB -9611

Inventor(s):

Hala Ghoussainy, Wassim Abou Diab, Assil Alameh, Grace Abd Baki / Marj School

Invention Title:

Energy in Every Flow

Invention Description:

Energy in Every Flow is a smart, eco-friendly home system with mini hydro generators every 5 m in your pipes. It converts water used for showers, dishes or laundry into electricity, stores it in a battery, and powers devices to cut bills—built into new homes for seamless renewable energy.

Category:

B) Electronics - Electricity - Methods of Communication



Invention ID: LB -9612

Inventor(s):

Lilian Abi Shakra Khowise / Lebanese University

Invention Title:

LASK Method

Invention Description:

LASK is the abbreviation of (Legacy of Architecture Science Knowledge). This method aims to develop and simplify 3D drawing or 3D perspective in an easy, scientific way that requires less effort and time, especially for individuals who have no prior knowledge of perspective or engineering drawings.

Category:

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



Malaysia ysia

Forest Research Institute Malaysia (FRIM) & Malaysian Invention and Design Society (MIN DS)

www.minds.net.my minds.secretariat@gmail.com +601 29032312 Address: C-3A-10, Block C, Damansara Intan, No. 1, Jalan SS 20/27, 47400 Petaling Jaya, Selangor, Malaysia



Invention ID: MY - 601

Inventor(s):

Dr. Getha Krishnasamy, Saidatul Husni Saidin, Muhammad Syamil Azahar, Shariffah Nurhidayah Syed Abdul Rahman, Muhammad Afiq Azmi, Nursyafinatul Nadhirah Mohamad Azizi, Dr. Fadhilah Zainudin.

Invention Title:

NambiSin - Novel Natural Antimicrobial to Fight MDR Bacterial Infection in Wound

Invention Description:

NambiSin is a standardised Natural Antimicrobial Active Ingredient containing bioactive Terpenoids from mushroom species, for treating multidrug-resistant Staphylococcus aureus infections in wound. Key features include production via innovative liquid fermentation, and accelerated wound healing when incorporated in wound dressing formulations.

Category:

M) Medical Technology - Medical Engineering - Medicine - Hygiene



Urangar Urlal NGO

myagaa_0613@yahoo.com +976 99142235 Address: 12th apartment, room 37 , Bayangol district, Ulaanbaatar, Monaolia



Invention ID: MN - 9761

Inventor(s):

Myagmarsuren Tsanjid

Invention Title:

Pearl Beadwork

Invention Description:

National craftsmanship by showcasing handmade products from animal hides paper cutting art, and pearl beadwork

Category:

K) Graphic Arts - Advertising



Invention ID: MN - 9762

Inventor(s):

Zoljargal Tserendori

Invention Title:

Aspiritation Beginning

Invention Description:

This exquisite artwork captures in essence of Mongolian heritage through traditional Mongolian patterns and the dynamic portrayal of a gallant horse, a firece tiger **Category:**

K) Graphic Arts – Advertising



Invention ID: MN - 9763

Inventor(s):

Tumenjargal Dorj, Amartuvshin Ulziibaatar

Invention Title:

Mandala

Invention Description:

It symbolizes the main meaning of keeping the pure path of love and happiness of family, children and couples. It also calls for the good children

Category:

K) Graphic Arts - Advertising



Nature's Armour; Dual Action - Real-Time Skin Cancer Detection with Anticancer Liquid Plaster from Natural Sources

Nature's Armour is an innovative dual-action system designed for the real-time detection and treatment of skin cancers, particularly melanoma and non-melanoma types. This ground-breaking approach employs fluorescent ligands that specifically target overexpressed receptors on cancer cells, allowing for precise identification of malignant lesions. The ligands, including Vitronectin, Epidermal Growth Factor (EGF), and Folic Acid, are conjugated with fluorescent agents to enhance visualization during detection, significantly improving diagnostic accuracy.

The therapeutic component features a biocompatible liquid plaster integrated with Nanostructured Lipid Carriers (NLCs), which encapsulate anticancer compounds like curcumin and berberine. This formulation not only provides a protective barrier but also delivers targeted therapy directly to affected areas. A portable fluorescence detection mechanism offers real-time feedback on cancer presence, utilizing a silicon photomultiplier to measure the emitted fluorescence from the ligands.

By merging advanced detection technology with a novel therapeutic approach, Nature's Armour empowers patients with a proactive strategy for skin cancer management. This project aims to enhance patient outcomes in oncology and personalized medicine, marking a significant advancement in cancer care.

Dr. Pariya Tork, Bumbusly polyclinic, Patent No:822152, Email: P.tork.ac@gmail.com, WWW.Bumbuslybe.com





Invention ID: MN - 9764

Inventor(s):

Urantogos Majigsuren

Invention Title:

Unagahan

Invention Description:

this piece uniquely combines modernutility with traditional heritage, representing the rich legacy Mongolian craftmanship as both a cultural artifact and a practical it **Category:**

K) Graphic Arts - Advertising



Invention ID: MN - 9765

Inventor(s):

Dash Puuvee

Invention Title:

Lady's Handbag

Invention Description:

A handcrafted bag made from felt and another made from animal hide

Category:

K) Graphic Arts - Advertising



Invention ID: MN - 9766

Inventor(s):

Tuguldurmaa Siilen, Munkhtsatsral Altangerel, Odgerel Sandagsuren

Invention Title:

Power of Tiger

Invention Description:

Made by waeving a combination of textile and coral . The image of a tiger on the bag symbolizes the power of spirit

Category:

K) Graphic Arts - Advertising





OFEED

contact@ofeed.tv +212 661 473 473 Address: Apt 7, Imbl 2, Res LES CHENES, Lot Ryad Ouled Mtaa, Temara 10160, Morocco





Invention ID: MA - 2121

Inventor(s):

Hassan Ammor, Radouane Karli, Mohammadia Engineering School, Mohammed V University, Rabat, Morocco

Invention Title:

A New Smart Microwave Imaging Scanner For Breast Cancer Detection

Invention Description:

This system uses micro-strip antennas and microwave cards to offer a non-invasive, contactless, safe, and cost-effective breast scanner. It reduces costs by over 80% vs. mammography. Based on microwave imaging and tumor-specific signal diffusion, it shows promising results on artificial models and aims to help lower breast cancer mortality.

Category:

M) Medical Technology - Medical Engineering - Medicine - Hygiene



Invention ID: MA - 2122

Inventor(s):

Mehdi Chaoui

Invention Title:

Self-supporting keystones, formwork, and bending for the construction of vaults and domes with interlocking from the extrados.

Invention Description:

New self-supporting block system enabling fast, economical, and durable construction of vaults and domes—without formwork or bending and using minimal equipment. Suitable for permanent or temporary, above-ground or underground structures. Ideal for compact future cities. Broad applications: hangars, bunkers, markets, mosques, theaters, and more.

Category:

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



Invention ID: MA - 2123

Inventor(s):

Said El Beid, Abdelkhalek Chellakhi, Cadi Ayyad University, Marrakesh Morocco

Invention Title

Maximum power point tracking device for a photovoltaic system using an adjustable step size approach under varying atmospheric conditions

Invention Description:

This invention is an MPPT device for photovoltaic systems using an ASSTA algorithm. It adjusts step size based on proximity to the maximum power point, ensuring fast and efficient tracking even in variable weather. ASSTA improves response time, convergence speed, and reduces power loss, boosting overall energy generation.

Category:

P) Energy - Renewable and green energy



Invention ID: MA - 2124

Inventor(s):

Asmae Berrada; Mohsine Bouya, International University of Rabat (UIR)

Invention Title:

Gravitational energy storage system based on a hydraulic installation and using a pulley system

Invention Description:

A gravitational energy storage system using a piston suspended by a pulley inside a water-filled cylindrical structure. The combination of pulley and hydraulic systems maximizes stored energy, improving efficiency and performance compared to traditional gravitational storage technologies.

Category:

P) Energy - Renewable and green energy



Bumbusly

p.tork.ac@gmail.com + 64 212806860 Address: 32 Luxemburge Crescent, Halswell, Christchurch, New Zealand



Invention ID: NZ - 641

Inventor(s):

Pariya Tork

Invention Title:

Dual Action - Real-Time Skin Cancer Detection with Anticancer Liquid Plaster from Natural Sources

Invention Description:

It is a dual-action system for real-time skin cancer detection and treatment. It uses fluorescent ligands targeting cancer cell receptors to enhance diagnostic accuracy. The biocompatible liquid plaster incorporates Nanostructured Lipid Carriers to deliver anticancer agents, empowering proactive patient treatment.

Category:

M) Medical Technology – Medical Engineering – Medicine – Hygiene



The Filipino Inventors Society (FIS)

www.fis.com.ph info@fis.com.ph +632 8 542-2343

Address: Filipino Inventors Society, Inc. TAPI Building DOST Compound, General Santos Avenue, Bicutan, Taquiq, Metro Manila, Philippines



Invention ID: PH - 631

Inventor(s):

Richard Nixon Gomez, Rigel Gomez / The Globaleader Inc.

Invention Title:

Sambacur Plus

Invention Description:

Sambacur Plus combines extracts from Blumea balsamifera and Lagerstroemia speciosa, along with Curcumin and Piperine, to help cleanse and detoxify the body. This possesses potent hepatoprotective, antioxidant, antibacterial, and anti-inflammatory properties. Sambacur Plus is also effective for people with Chronic Kidney Disease and Fatty Liver.

Category:

Q) Paramedical - Health - Foodstuffs - Drinks - Cosmetics



Invention ID: PH - 632

Inventor(s):

Ronald P. Pagsanghan, Mary Josephine E. Pagsanghan / Filipino Inventors Society, Philtech Boat Designs and Fabrications Industry

Invention Title:

Unsinkable Porta Boat (UPB) / Enhanced Unsinkable Water Ambulance (EUWA)

Invention Description:

The Unsinkable Porta Boat (UPB) is designed for quick response and urban rescue operations, capable of staying afloat even when capsized or damaged. It is durable, maneuverable, and versatile, tailored for flood-prone environments. The Unsinkable Water Ambulance (UWA), adapts the same concept but bigger with emergency medical equipment/services.

Category:

E) Security - Rescue - Alarm



Invention ID: PH - 633

Inventor(s):

Inv. Jefferson S.P. Chong / Mary Jane S. Chong

Invention Title:

Digital Mini Rice Mill / De-Stoner

Invention Description:

Digital rice milling and vending machine powered by electric motor with a coin-feed switch and is operable in remote areas.

Category:

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



Regional Center for Vocational Education in Nisco

rcez@rceznisko.pl +48 15 841 2061 Address: Sandomierska 1, 37- 400 Nisko, Poland



Invention ID: PL - 481

Inventor(s):

Marian Chrapko

Invention Title:

Chrapko Dual Monoblock Stereo Preamplifier MC-2

Invention Description:

The CHRAPKO MC-2 Dual monoblock preamplifier features isolated left/right channels, eight 6N2P EB tubes with brass shielding, precision volume control, dual shielded toroidal transformers, six RCA inputs, and pure Class A operation for highly detailed, balanced sound.

Category

B) Electronics – Electricity - Methods of Communication



Invention ID: PL - 482

Inventor(s):

Marian Chrapko

Invention Title:

Chrapko Dual Monoblock Stereo Power Amplifier MC-1

Invention Description:

The CHRAPKO MC-1 is a dual monoblock transistor power amplifier using discrete components, 20 Toshiba output transistors, and a triple feedback system. It features dual toroidal transformers, a silent fan, and a unique capacitor bank, delivering deep bass, wide dynamics, rich spatial detail, and ultra-low distortion.

Category:

G) Commercial, Industrial and Office Equipment



Invention ID: PL - 483

Inventor(s):

Wacław Piędel

Invention Title:

Wacław Piędel - Apitherapy at Zosia's

Invention Description:

"Apitherapy at Zosia's" offers natural healing through inhaling hive air—rich in enzymes, oils, and bioflavonoids. Visitors relax in a wooden cabin above live hives, breathing therapeutic air and hearing bee sounds. It supports the respiratory, immune, and nervous systems naturally and safely.

Category:

Q) Paramedical - Health - Foodstuffs - Drinks - Cosmetics



Sri Lanka Inventors Commission (SLIC)

www.slic.gov.lk info@slic.gov.lk +94 11 3144 066 and +94 11 3642 366 Address: 5th Floor, Mehewara Piyesa Building, Colombo 05, Sri Lanka



Invention ID: LK - 9401

Inventor(s):

Eranga Kodithuwakku

Invention Title:

Seedering and Covering Machine

Invention Description:

Uniqueness of this seedering machine is seeds are covered using fertilizer or soil. This method prevent seeds are destroyed by sunburn and eating by birds. Another advantage of this machine is seedering seeds in a proper distance between rows and columns it's makes weedering more easier than before

Category:

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



Invention ID: LK - 9402

Inventor(s):

Dayarathna Ranasinghe, Thiyagarajah Niroshan

Invention Title:

Non Alcoholic Sparkling Fermented Tea

Invention Description:

Developed an innovative method to brew non-alcoholic kombucha by controlling fermentation to eliminate ethanol formation while preserving natural functional properties and prebiotic benefits. This breakthrough enabled the production of halal-certified sparkling fermented tea for broad consumer acceptance.

Category:

F) Housekeeping - Nutrition



Taiwan Invention Association (TIA)

www.tia-tw.net tia7626@yahoo.com.tw +886 2 6605 7626 Address: 4F.-11, No. 1, Sec. 1, Chongyang Rd., Sanchong Dist., 241608 New Taipei City, Taiwan (ROC)

Invention ID: TW - 8861

Inventor(s):

Tien-hong Chang

Invention Title:

Anthochlorogin®: An edible ingredient that effectively relieve visual fatigue, protect optic nerve, prevent glaucoma, improve floaters and dry eye syndrome.

Invention Description:

We discovered an edible ingredient and named it Anthochlorogin®, which can effectively relieve visual fatique, protect optic nerves, prevent glaucoma, and improve floaters and dry eyes.

Category:

O) Paramedical - Health - Foodstuffs - Drinks - Cosmetics



Invention ID: TW - 8862

Inventor(s):

Tien-hong Chang

Invention Title:

LytodarkTM: An edible compositions that promote hair growth and delay the occurrence of gray hair.

Invention Description:

We discovered an edible ingredient named it LytodarkTM, which can effectively promote the activation of hair follicles, increase the number of hair follicle roots, strengthen hair quality, and promote the growth of black hair and fine hair. It can also significantly reduce and improve the rate of gray hair. At the same time, it also has the effect of improving skin firmness, improving skin quality, and effectively reducing skin age.

Category:

Q) Paramedical - Health - Foodstuffs - Drinks - Cosmetics



Invention ID: TW - 8863

Inventor(s):

K-LINK GLOBAL CO., LTD.

Invention Title:

K-IonNano Spectacle

Invention Description:

The lenses of K-IonNano spectacles are designed to filter harmful blue light and outdoor ultraviolet (UV) rays, effectively reducing eye dryness and fatigue while helping to prevent the onset of eye diseases.The frame and temples of the Spectacles release negative ions and far-infrared rays around the eyes, helping to promote micro blood circulation and boost metabolism.

Category:

Q) Paramedical - Health - Foodstuffs - Drinks - Cosmetics



Invention ID: TW - 8864

Inventor(s):

Yung-Hsiang Lin

Invention Title:

Pediococcus pentosaceus TCI666

Invention Description:

By 2032, the joint health market will reach USD 33.3B.TCl's probiotic strain "Pediococcus pentosaceus,TCI666" produces chondroitin sulfate, boosts gut health, and reduces inflammation. In vitro, it increased GAGs by 18%, reduced NO by 35%, and TNF- α gene expression by 94%. Clinical trials showed improved joint markers, outperforming traditional supplements.

Category:

Q) Paramedical - Health - Foodstuffs - Drinks - Cosmetics



Invention ID: TW - 8865

Inventor(s):

Yung-Hsiang Lin

Invention Title:

Pitaya ovule Extract

Invention Description:

By 2032, the beauty supplement market will reach USD 3.33B. TCI's "Pitaya Ovule Extract," derived from pre-ripe red dragon fruit, showed in vitro results of boosting collagen by 68%, increasing hyaluronic acid gene expression by 16%, and reducing AGEs by 43%. Clinical trials showed improved skin smoothness and brightness after 4 weeks.

Category:

Q) Paramedical - Health - Foodstuffs - Drinks - Cosmetics



Invention ID: TW - 8866

Inventor(s):

Ying Zhou

Invention Title:

U Daily Plus Elderberry Noni Complex Drink

Invention Description:

"U DAILY PLUS Elderberry Noni Complex Drink" helps combat oxidative stress and supports chronic disease prevention. It features Block2.5® pear extract, elderberry, and noni-key inaredients that boost lung repair by 542%, improve FVC by 5%, PEFR by 12.2%, inhibit respiratory pathogens, and enhance immunity with 150+ nutrients.

Category:

Q) Paramedical - Health - Foodstuffs - Drinks - Cosmetics



Invention ID: TW - 8867

Inventor(s):

Sook-Fun Liew

Invention Title:

Endurance Drink mixed with Ginseng, Donkey-hide gelatin & Galanga

Invention Description:

"Endurance Drink mixed with Ginseng, Donkey-hide gelatin&Galanga" features patented Fresh Ginseng and Galangal Extracts to enhance metabolism, energy, and focus. Clinical trials show Fresh Ginseng improved exercise performance by 16.7%, VO₂ max by 15.4%, and reduced attention errors by 77.8%. Galangal cut oxidative stress by 66% and boosted BMR.

Category:

Q) Paramedical - Health - Foodstuffs - Drinks - Cosmetics



Invention ID: TW - 8868

Inventor(s):

Li-Yen Juan; Long-Rong Yang; Yao-Pin Tsai

Invention Title:

Graphene Comfort Sleep 2-Piece Set

Invention Description:

A harmonious blend of graphene technology and natural Tencel cotton, this sleep set offers both innovation and comfort. Graphene is known for its far-infrared emission capability, which promotes blood circulation, aids relaxation, relieves fatigue, and provides six core benefits: antibacterial and deodorizing effects, moisture-wicking, breathability, and temperature regulation.

Q) Paramedical - Health - Foodstuffs - Drinks - Cosmetics

Partner of **WIPO GREEN**



IFIA-WIPO

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 WIPO GREEN seeks to overcome some of the 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 of climate change.

Green Innovation

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.

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

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



Invention ID: TW - 8869

Inventor(s):

Yu-Lien Chen; Long-Rong Yang; Yao-Pin Tsai

Invention Title:

Premium Protective Tone-Up Primer

Invention Description:

MRGF Complex & Yeast Extract hydrate, repair, Allantoin & Panthenol soothe and strengthen skin. Vitamin B3 evens tone and controls oil. Vitamin E defends against stress and restores glow. Pepperberry & Licorice Extract reduce redness and sensitivity. Sunflower Oil nourishes with fatty acids. Copper Tripeptide improves elasticity and fine lines.

Category:

Q) Paramedical - Health - Foodstuffs - Drinks - Cosmetics



Invention ID: TW - 88610

Inventor(s):

Hsien-Sheng Lin

Invention Title:

GUV Sterilization Tunnel

Invention Description:

This system incorporates three patented innovations: reduced-angle projection technology, dynamic scanning, and the Maddox Rod mirror reflection principle.GUV destroys the DNA/RNA molecular structure of the virus, leading to their terminations. It is physical sterilization without secondary pollution.

Category:

Q) Paramedical - Health - Foodstuffs - Drinks - Cosmetics



Invention ID: TW - 88611

Inventor(s):

Wei-Cheng Lin; Yi-Jung Lin

Invention Title:

Dr.Foot Graphene Health Shoes

Invention Description:

Dr. Foot's innovative insoles and footwear incorporate a high concentration of graphene combined with far-infrared health technology, enhanced with a honeycomb-printed design. This technology is applied to the insole surface and shoe lining.

Category:

Q) Paramedical - Health - Foodstuffs - Drinks - Cosmetics



Invention ID: TW - 88612

Inventor(s):

Wei-Cheng Lin; Yi-Jung Lin

Invention Title:

Dr.Foot Recycled Carbon Fiber Biomechanical Insoles& Al Measurement and Fitting System

Invention Description:

Integrate 160,000 Al-based arch measurements and 350,000 customized fitting records. Based on big data from a study of 58,473 Asian adults, three arch height and width options were developed to effectively reduce plantar pressure by 44%, increase contact area by 33%, and lower peak pressure by up to 130 KPa.

Category:

Q) Paramedical - Health - Foodstuffs - Drinks - Cosmetics



Invention ID: TW - 88613

Inventor(s):

Su-Ching Lu

Invention Title:

Yanmei Club (natural beauty®) Hyaluronic Acid Ampoule

Invention Description:

An innovative ampoule – medical-class glass bottle vacuum sealing, so the active ingredients are always maintain efficient. To activate the mitochondrion means "to replace a new battery for body cells" as the concept of the main idea, and combine with the high-end standard hyaluronic acid as the base of the active ingredients.

Category:

Q) Paramedical - Health - Foodstuffs - Drinks - Cosmetics



Invention ID: TW - 88614

Inventor(s):

Su-Ching Lu

Invention Title:

Yanmei Club (natural beauty®) Exosomes Tablet

Invention Description:

An encapsulated structure of an ergothioneine-containing extract derived from Pleurotus citrinopileatus (golden oyster mushroom). The encapsulated structure comprises a protective layer, a supporting layer, a sustained-release layer, and a core.

Category:

O) Paramedical - Health - Foodstuffs - Drinks - Cosmetics



Invention ID: TW - 88615

Inventor(s):

Hang-Yu Guo

Invention Title:

Multifunctional Electric Wave Generator for Simulation of Brain Wave and Control Method Thereof

Invention Description:

A multifunctional brainwave–mimicking electric wave generator with an integrated Al control system. It features brainwave simulation, frequency modulation, waveform conversion, and adaptive output management. The system consists of a central signal–generating unit and a wearable receiving terminal, enabling real–time feedback and closed–loop regulation.

Category

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



Invention ID: TW - 88616

Inventor(s):

Peter Liu

Invention Title:

Graceful Guardian

Invention Description:

Graceful Guardian is a health management app for seniors. With emergency alerts and fall detection, it offers a digital companion that enhances safety.

Category:

B) Electronics – Electricity - Methods of Communication



Invention ID: TW - 88617

Inventor(s):

Yuk Man Lin

Invention Title:

MÖDI - A visual branding project that reimagines how we connect with technology emotionally **Invention Description:**

A visual branding project that reimagines how we connect with technology emotionally. Through minimalist forms, soft colors, and a character-inspired identity system, Mödi transforms a smart lamp into a lovable companion.

Category:

L) Games – Sports – Hobbies



Invention ID: TW - 88618

Inventor(s):

Abigail Reese Liao

Invention Title:

Luggage Compartment with Brake and Weighing

Invention Description:

The luggage design consists of the brakes which allow the wheels of the luggage to lock and stop the luggage from moving,and it also can weigh. When user pulls the rod up or presses the rod down, the brake members release or brake the wheels by the brake linkage device triggered through the movement of the rod, and display the weight of the luggage.

Category:

J) Traffic - Transport - Car Accessories



Invention ID: TW - 88619

Inventor(s):

Abigail Reese Liao

Invention Title:

Invisible Rain Cover Device for Vehicle

Invention Description:

The invisible rain cover is formed between the opened vehicle door and corresponding door frame which provides people with shelter from the rain when entering and exiting vehicle without getting wet. The device includes one high-pressure air deflector, a blower, a switch and a controller.

Category:

J) Traffic - Transport - Car Accessories



Invention ID: TW - 88620

Inventor(s):

Chin-Chu Chen; I-Chen Li; Tsung-Ju Li; Ting-Yu Lu; Yen-Po Chen; Tzu-Chun Lin

Invention Title:

Phellinus Linteus for Improving Sarcopenia

Invention Description:

The present invention provides a method for improving sarcopenia in subjects in need by administering an extract of Phellinus linteus, which helps maintain myotube diameter, muscle mass, and muscular endurance. This invention highlights the potential of medicinal mushrooms in muscle health management.

Category:

Q) Paramedical - Health - Foodstuffs - Drinks - Cosmetics



Invention ID: TW - 88621

Inventor(s):

Chin-Chu Chen; Yen-Lien Chen; Shih-Wei Lin; Yen-Po Chen; Ci-Sian Wang; Yu-Hsin Hou; Yang-Tzu Shih; Ching-Wen Lin; Ya-Jyun Chen; Jia-Lin Jiang; You-Shan Tsai; Zi-He Wu; Tzu-Chun Lin-

Invention Title:

Lactobacillus Fermentum GKF3 for Reducing Tobacco Addiction

Invention Description:

The present invention provides a method for reducing tobacco addiction in smoking individuals by administering Lactobacillus fermentum GKF3. This composition has been shown to reduce the total amount of nicotine metabolites in the urine, indicating a decrease in nicotine absorption and dependence.

Category:

Q) Paramedical - Health - Foodstuffs - Drinks - Cosmetics



Invention ID: TW - 88622

Inventor(s):

Yu-Han Sun ; Jiun-Chi Sun

Invention Title:

Aromatic Cutlery Storage Box

Invention Description:

This is a cutlery storage box equipped with a built-in aroma diffusion feature. It is designed to hold sorghum liquor-scented pads made using Taiwan's renowned Kinmen Kaoliang liquor. Through a sealed structure and scent-guiding design, the fragrance is evenly distributed inside the box, allowing utensils to naturally absorb the aroma during storage.

Category:

F) Housekeeping - Nutrition

THE FUTURE

OF ENERGY

GRAVINERGY

POWER RISES

REVOLUTIONIZE ENERGY WITH THE SEESAW GENERATOR: HARNESSING GRAVITY FOR CONTINUOUS POWER DURABLE, AFFORDABLE, AND ADAPTABLE: THE ULTIMATE OFF GRID SOLUTION

LOW-COST PRODUCTION AND MINIMAL MAINTENANCE MAKE IT IDEAL FOR ANY ENVIRONMENT.

info@gravinergy.org



www.gravinergy.org



-POWER YOUR HOME WITH THE HYDROGEN GAS Q CLEAN ENERGY FOR COOKING AND HEATING -SAFE, EFFICIENT, AND DRIVEN BY SOLAR AND W FUTURE OF SUSTAINABLE LIVING. -LOW-COST, ECO-FRIENDLY INNOVATION DELIVE: HYDROGEN FOR A GREENER TOMORROW.



MARINE POWER PLANT

THE MARINE GENERATOR THE WORLD'S FIRST STATIC MARINE POWER PLANT, DELIVERS REVOLUTIONARY CLEAN ENERGY WITH A MODULAR DESIGN AND 24 7 OPERATION.

BOASTING OVER 80% EFFICIENCY, IT HARNESSES SEAWATER AND GRAVITY FOR UNINTERRUPTED POWER GENERAM ON LOW-COST CONSTRUCTION AND MINIMAL MANNANCE MAKE IT A GAME-CHANGER FOR SUSTAINABLE AND TO SERVE THE ADMINIMAL MANNANCE MAKE IT





www.marinepowerplant.com

ww.hydrogenerator.org

DELIVERS ECO-FRIENDLY, HIGH-EFFICIENCY ELECTRICITY AND FRESHWATER PRODUCTION ON SUNLIT COASTS WORLDWIDE.
ITS DURABLE MECHANICAL COMPONENTS ENSURE LONG LIFESPAN AND MINIMAL MAINTENANCE COSTS.
WITH STANDBY STEAM STORAGE, IT ENABLES CONTINUOUS 24/7
OPERATION FOR SUSTAINABLE ENERGY AND WATER.



HAMID

CTO AND ENERGY

EXPERT



HESAM CEO AND BUSINESS STRATEGIST



SAEID COO AND TECHNOLOGY MANAGER





Invention ID: TW - 88623

Inventor(s):

Tzu-Ling Chen

Invention Title:

Natural Light Sensor Control System with Automatic Adjustment Function

Invention Description:

This invention detects the intensity of natural light in the environment and automatically adjusts indoor lighting to simulate daylight changes over time. It is especially beneficial for individuals who are unable to experience natural sunlight regularly.

Category:

B) Electronics - Electricity - Methods of Communication



Invention ID: TW - 88624

Inventor(s):

Yen-Ho Lu; David Lu

Invention Title:

Al-assisted Seamless Transportation System

Invention Description:

Employing GPS and algorithmic technology, proposes a future Al-assisted transportation system for purpose of seamless traveling experiences. The system enables users take public transportations seamlessly without buying tickets, a more fair faring scheme, a green rewarding scheme and the system mitigates the likelihood of traffic accidents.

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



National Research Council of Thailand (NRCT)

www.en.nrct.go.th contact@nrct.go.th +66 2561 2445 Address: National Council The Research, Of Thailand (NRCT), 196 Paholyotin RD., Chatuchak, Bangkok 10900, Thailand



Invention ID: TH - 6601

Inventor(s):

K. Anan, W. Thepbandit, A. Klomchit, and D. Athinuwat / Thammasat University Invention Title:

A user-friendly and portable tool for the rapid identification and quantification of rice diseases

Invention Description:

This innovation is a portable and user-friendly tool combining a leaf scanner with an Al-powered analysis program for rapid identification and quantification of major rice diseases, including rice blast, brown spot, and bacterial leaf streak. Users simply scan infected leaves, and the software instantly analyzes lesion patterns, calculates disease severity, and displays results with recommended actions.

The device is compact, battery-operated, and ideal for field use without technical expertise. All data are geo-tagged and stored digitally, supporting precision agriculture, reducing chemical misuse, and enabling real-time monitoring for smarter rice disease management.

Category:

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



Invention ID: TH - 6602

Inventor(s):

W. Thepbandit, K. Anan, A. Klomchit, and D. Athinuwat / Thammasat University

Invention Title:

Natural Plant Elicitor

Invention Description:

This innovation qualifies as a biological and eco-friendly solution for plant disease management, offering a sustainable alternative to chemical pesticides. It utilizes natural compounds derived from plants or beneficial microbes to activate the plant's innate immune system, promoting resistance against a broad spectrum of pathogens. The elicitor is designed to be non-toxic, biodegradable, and safe for humans and the environment, making it ideal for organic and GAP-certified agriculture. Its ease of use, compatibility with existing farming practices, and scalability for industrial production enhance its commercial viability. Moreover, the innovation contributes to climate-smart agriculture and aligns with global goals for reducing pesticide residues and ensuring food safety.

Category:

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



Invention ID: TH - 6603

Inventor(s):

Peerasak Chaiprasart and Mongkon Sirijan / Naresuan University

Invention Title:

The New Hybrid Strawberry Cultivar with Increased Anthocyanin Content for Health Consumption **Invention Description:**

This study reports the development of two strawberry hybrids (No.2 line 7 and No.8 line 66) through conventional breeding, aiming to enhance anthocyanin and bioactive compound content. High levels of cyanidin 3-glucoside and pelargonidin 3-glucoside indicate strong antioxidant potential and health benefits. The hybrids also exhibited increased total phenolic content and FRAP activity, confirming their nutritional superiority. Improved physico-chemical properties over the parental lines make them promising for commercial cultivation. These findings are valuable for plant breeders and nutritionists seeking fruit varieties with enhanced phytochemical profiles for improved health outcomes.





IFIA ACADEMY DEPARTMENT

Empowering Inventors Worldwide IFIA's Commitment to Innovation and Education

www.IFIA.com





Inventor(s):

P. Chaiprasart, B. Saeng-on and A. Thongklin / Naresuan University

Invention Title:

High Pressure Pasteurization Innovation for Safety and Quality Preservation in Ready-to-Drink Aromatic Coconut Water

Invention Description:

This study applies High Pressure Processing (HPP) to ensure the safety and extend the shelf life of aromatic coconut water without altering its quality. Treatment at 600 MPa for 3 minutes at 15 °C achieved >6 log reductions of E. coli K12 and L. innocua, with no significant changes in pH, color, turbidity, or total soluble solids. The product remained stable for over 12 weeks at 2–5 °C and more than 6 months at –20 °C, highlighting HPP's industrial potential.

Category:

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



Invention ID: TH - 6605

Inventor(s):

Peerasak Chaiprasart and Narisara Kasa / Naresuan University

Invention Title:

Effect of Shelf-Life Extension on Fresh-Cut MD2 Pineapple under Low-Temperature Storage Conditions.

Invention Description:

This study presents an effective postharvest strategy to extend the shelf life of freshcut MD-2 pineapple by integrating fruit maturity and ascorbic acid application. Pineapples harvested at ripeness stage 3 and treated with 0.5% ascorbic acid for 2 minutes showed the best quality after 10 days of storage at 5 °C. The treatment significantly reduced weight loss, maintained firmness and color, and suppressed microbial growth. Ascorbic acid, a recognized antioxidant, is a safe alternative to synthetic preservatives. The method is simple, low-cost, and applicable for industrial use in fresh-cut fruit production.

Category

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



Invention ID: TH - 6606

Inventor(s):

N. Pongprasert, A. Khantachawana, S. Boonprong, P. Rittarwet, P. Suthiluk, S. Setha, S. Phattarapattamawong, S.Amornthitipong and J. Sengnongban / King Mongkut's University of Technology Thonburi

Invention Title:

Innovative zero-waste processing technologies for convertin Phu Lae pineapple residues into functional food products for health

Invention Description:

Zero-waste model transforms Phu Lae pineapple waste into a range of health-promoting functional food products All with the goal of sustainably increasing the value

Category

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



Inventor(s):

U. Reak-am, A. Yokyingyong, K. Wongsawang, O. Vorahirun, T. Wongsawang, S. Laovitthayang-goon and W. Arjharn / Thailand Institute of Scientific and Technology

____++++

Invention Title:

BTACAL PRO PLUS for Bone rejuvenation

Invention Description:

The dietary supplement product contains calcium in the form of calcium acetate, which is extracted from pearl shells using acetic acid to eliminated carbonate molecules, preventing kidney stones. This compound was exhibited stimulate the preosteoblast (MC3T3-E1) and reduced pro-inflammatory cytokines, benefits for prevention of calcium loss and supports bone vitality.

Category:

Q) Paramedical - Health - Foodstuffs - Drinks - Cosmetics



Invention ID: TH - 6608

Inventor(s):

U. Rerk-am, A. Yokyingyong, K. Wongsawang, O. Vorahirun, T. Wongsawang, S. Laovitthayanggoon and W. Arjharn / Thailand Institute of Scientific and Technology

Invention Title:

Secondary Metabolites of Ganoderma lucidum Mycelium for Kidney Disease Remedy: Beta Life Brand Dietary Supplement

Invention Description:

The Supplement contains G. lucidum mycelium extract, enriched with glucans, terpenes, and -keto-analogs as the main active ingredients that recommended for the treatment of chronic kidney disease without harming HK-2 Cells and genotoxic effects may protect cells exposed to adverese conditions.

Category:

Q) Paramedical - Health - Foodstuffs - Drinks - Cosmetics



Invention ID: TH - 6609

Inventor(s):

U. Rerk-am, A.Yokyingyong, K. Wongsawang, O.Vorahirun, T. Wongsawang, S. Laovitthayanggoon, S. Sakkayawong, W. Arjharn / Thailand Institute of Scientific and Technology

Invention Title:

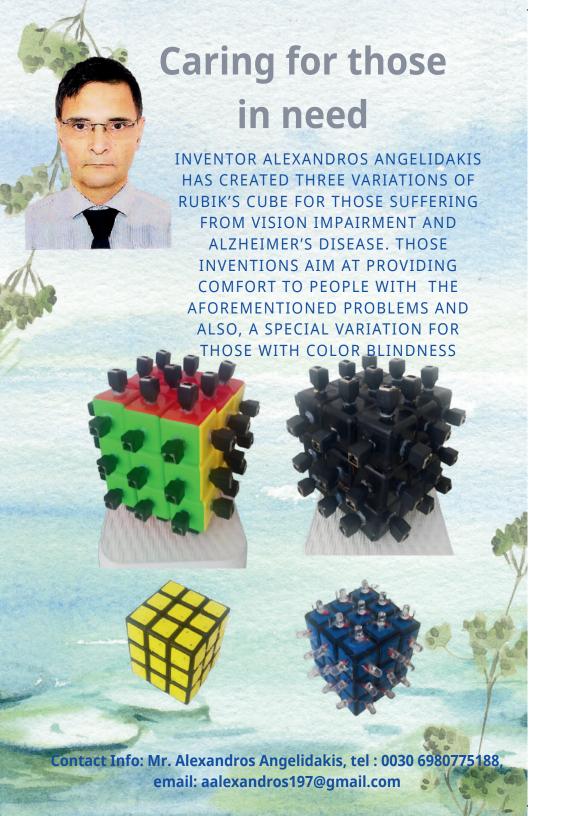
BETA OIL; Antihypertension Agent from Rice Bran Peptide and oil (oryzanol)

Invention Description:

The dietary supplement contained rice bran of Jasmin 105 and Black rice peptide extracts and oil (oryzanol) as active ingredient, use as reducing hypertension agent that alkaline extraction is composed of peptides (MW10 kDa) which was extracted by co-process with amylase in both Jasmin and Black Rice Bran. In addition, this product could help benefit to protected pancreatic β cells (RIN-5F) cell apoptosis, leading to maintain insulin secretion and glucose uptake on Diabetic type II. It's had properties as inhibitory of ROS species, ACE, triglyceride production activities, that could significantly lead to the decrease of blood pressure in rat when inducing by L NAME, and L-DL, triglyceride without side effected at dose level of 2,000 mg/kg body weight in Wistar rat

Category:

Q) Paramedical - Health - Foodstuffs - Drinks - Cosmetics





Invention ID: TH - 6610

Inventor(s):

U. Rerk-am, K. Thisyakorn, A. Yokyingyong, O. Vorahirun, T.Wongsaeang and S.Laovitthayang-goon / Thailand Institute of Scientific and Technology

Invention Title:

BETAHERB Dietary Supplement for Diabetes Wellness from Momordica charantia

Invention Description:

The BETAHERB dietary supplement contains Momordica charantia, which includes charantin and momordicine I as its active ingredients. The extract can inhibit glucosidase and amylase activities, protect RIN-5F cells from apoptosis, and enhance insulin production and secretion. In addition, this product may help rejuvenate the pancreas to support insulin production in SDT/Jcl rats, a model for Type II diabetes.

Category:

Q) Paramedical - Health - Foodstuffs - Drinks - Cosmetics



Invention ID: TH - 6611

Inventor(s):

S. Wattanasirichaigoon, P. Wongwitthayakool, C. Pechyen, S Noisanong and C. Somjitkul / Thai Biomedical Engineering Association

Invention Title:

Lipid Nanocarriers as a Novel Platform for Genistein-Based Anti-Wrinkle Therapy

Invention Description:

Lipid nano-genistein boosts collagen, smooths wrinkles, and hydrates skin—enhanced with olive oil and hyaluronate. Fast-absorbing and skin-safe.

Category:

M) Medical Technology - Medical Engineering - Medicine - Hygiene



Invention ID: TH - 6612

Inventor(s):

A. Khantachawana, S. Thammasirikul, P. Rittarwet, S. Amornthitipong and J.Sengnongban / Thai Biomedical Engineering Association

Invention Title:

Development of Orthodontic Devices Using Smart Materials Combined with Engineering Techniques to Improve Clinical Efficiency

Invention Description:

The NiTi archwires, NiTi spring and FSP orthodontic screw with material and mechanical properties enhanced for improving clinical outcomes and patient accessibility

Category:

M) Medical Technology - Medical Engineering - Medicine - Hygiene



Invention ID: TH - 6613

Inventor(s):

S. Wattanasirichaigoon, D. Wattanasirichaigoon, P. Wongwitthayakool and C. Somjitkul / MD-products & service Co..ltd.

Invention Title:

A Green Nanotechnology-Based Broad-Spectrum High-Level Disinfectant for Clinical Use

Invention Description:

Broad-spectrum antiseptic powered by Bio-AgNP from Boesenbergia rotunda. Destroys drug-resistant pathogens and biofilms. Skin-safe, eco-friendly, and globally scalable.

Category:

M) Medical Technology - Medical Engineering - Medicine - Hygiene



Invention ID: TH - 6614

Inventor(s):

S. Wattanasirichaigoon, P. Wongwitthayakool and C. Somjitkul / MDproducts & service Co.,Ltd.

Invention Title:

Topical Fast-Acting Black Galingale Nano-Gel for Enhancing Penile Erection

Invention Description:

Fast-acting gel with black galingale & Bio-AgNP to enhance blood flow, boost NO, and improve vasodilation effective for ED within 6 minutes.

Category:

M) Medical Technology - Medical Engineering - Medicine - Hygiene



Invention ID: TH - 6615

Inventor(s):

P. Damrongrat, K. Damrongrat and J. Jitrotjanarak / Lens and Smart Classroom Co., Ltd.

Invention Title:

Music Without Barriers Bringing joy and connection to all!

Invention Description:

The project reimagines music education by creating one-note instruments paired with a color-coded note system for individuals with disabilities, children and the elderly.

Category:

O) Teaching Research – Pedagogical Items



Invention ID: TH - 6616

Inventor(s):

P. Tieanworn, C. Lertvachirapaiboon, J. Jitrotjanarak and S. Ekgasit / Lens and Smart Classroom Co., Ltd.

Invention Title:

Crafting Freedom Design for life

Invention Description:

The project provides trainings for women migrant to craft functional products from local materials, sold under the brand toprovide income and prevent exploitation.

Category:

L) Games – Sports – Hobbies



Invention ID: TH - 6617

Inventor(s):

A. Wanglee, N. Khupsathianwong, J. Jitrotjanarak and S. Ekgasit / Lens and Smart Classroom Co., Ltd.

Invention Title:

TouchTales Touch to learn

Invention Description:

TouchTales is a wireless sensory tile system made from recycled tennis balls that plays sounds when touched, aiding blind children's learning.

Category:

O) Teaching Research - Pedagogical Items



Invention ID: TH - 6618

Inventor(s):

A. Prathumpuang, N. Keawprak, D. Kantha, W. Prathumpuang and S. Ekgasit / Sustain Innotech Co., Ltd.

Invention Title:

BioProtex: A Highly Efficient Bio-Insecticide Working under Physical Mechanism that Safe to Environment

Invention Description:

BioProtex is an organic insecticide from mussel shells Its plate-shaped micro-CaCO3 disrupts pest surface, causing dehydration. Safe for bees, pets, and human.

Category

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



Invention ID: TH - 6619

Inventor(s):

P. Charoenrat, N. Keawprak and S. Ekgasit / Sustain Innotech Co., Ltd.

Invention Title:

BrewNutrient: Plant Nutrients from Brewery Wastes

Invention Description:

BrewNutrient transforms brewery waste to liquid and granular fertilizers; rich in amino acids. Enhancing fruit sweetness, improving soil – ideal for sustainable organic farming.

Category:

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



Invention ID: TH - 6620

Inventor(s):

R. Kongcharoen, J. Patthanavarit and S. Ekgasit / Sustain Innotech Co., Ltd.

Invention Title:

SmokeOut: Chitosan Aerosol Naturally Eliminating Cigarette Smoke Scent in Hotel Rooms

Invention Description:

Smokeout is a natural chitosan aerosol that safely removes cigarette odors in hotel rooms, boost room turnover, and supports clean, eco-friendly hospitality.

Category:

D) Sanitation - Ventilation - Heating



Invention ID: TH - 6621

Inventor(s):

P. Chomchey, S. Ekgasit and D. Proprasit / Mahasinsap 69 Co., Ltd.

86

Invention Title:

SmartSalt+ BioTech: Nanochitin ProdInnovation for Saltiness Enhancement and Sodium Reduction in Functional Foods and Patient Nutrition

Invention Description:

Enhances saltiness perception using nanochitin technology Reduces sodium intake without compromising taste Supports healthier diets in food and patient nutrition Category:

Q) Paramedical - Health - Foodstuffs - Drinks - Cosmetics



Tunisian Association for Scientific Research, Innovation and Intellectual Property (ATRSIPI)

atrsipiassociation@gmail.com +216 97 356 865 & +216 53 255 244 Address: 5 R. Garibaldi BP: 516 3018 Sfax, Tunisia



Invention ID: TN - 2161

Inventor(s):

Ben Abdallah Taoufik

Invention Title:

Tim'ess

Invention Description:

Tim'ess is a solid biofuel derived from dry, fallen pine needles. The composition is 100% natural and exhibits hydrophobic properties, allowing ignition within 30 seconds after full water immersion. The 10g unit ignites in 6 seconds and sustains combustion for up to 20 minutes.

Category:

P) Energy - Renewable and green energy



Invention ID: TN - 2162

Inventor(s):

Amine Elgheryeni

Invention Title:

Biolivart II

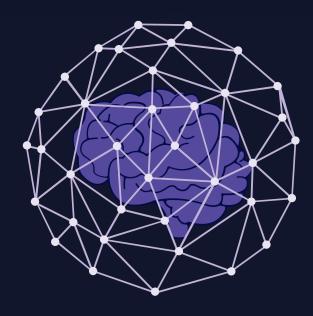
Invention Description:

The Cerebral Engraving project is the radical evolution of the Biolivart approach. It explores how intelligently guided bacteria can participate in the process of direct engraving on brain tissue, from an artistic, cognitive, and technological perspective.

Category:

M) Medical Technology – Medical Engineering – Medicine – Hygiene

DREAMS MADE REAL



INVENTIONS ARE NOT JUST TOOL
THEY ARE REFLECTIONS OF HUMAN DREAMS
TURNED INTO REALITY.



ALI HUMAID ALLOGHANI AL-ALI

alialali2011aa@gmail.com +971 56 629 9711 Address: United Arab Emirates



Invention ID: UAE - 9711

Inventor(s):

Ali Humaid Alloghani Al-Ali

Invention Title:

Hydropower

Invention Description:

Hydropower is a crucial part of the global energy mix, providing stable and renewable electricity supplies. According to international reports from the International Renewable Energy Agency (IRENA) and the International Energy Agency (IEA), hydropower plays a key role in achieving global carbon reduction targets.

Category:

P) Energy - Renewable and green energy



Invention ID: UAE - 9712

Inventor(s):

Ali Humaid Alloghani Al-Ali

Invention Title:

Ship Accident Prevention System

Invention Description:

The Ship Accident Prevention System tackles maritime safety issues like collisions, underwater cable damage, offshore structure impacts, illegal waste dumping, and shipping route dangers. It features an ROV with a waterproof camera, three pressure-resistant motors, and a communication system for real-time underwater inspection. A Small Monitoring Boat with ultrasonic and pollution sensors, a high-resolution camera, and a communication system detects obstacles, monitors water quality, and identifies incidents using machine learning.

Category:

J) Traffic - Transport - Car Accessories



OMAR ALJABERI

omaraljaberi@gmail.com +971 50 742 2441 Address:Abu Dhabi, United Arab Emirates



Invention ID: UAE - 9713

Inventor(s):

Omar Aljaberi

Invention Title:

Real-Time Data Integrity for Oil and Gas Control Rooms

Invention Description:

Revolutionizes oil and gas control rooms with unmatched real time data integrity, transparency and compliance. It boosts safety and efficiency by ensuring data authenticity.

Category:

B) Electronics - Electricity - Methods of Communication



United Inventors Association (UIA)

www.uiausa.org info@uiausa.org Address: 1025 Connecticut Ave, NW, Washington, DC 20036, USA



Invention ID: US - 101

Inventor(s):

Derek Conlon / Anchor Works

Invention Title:

Anchor Works AnchorOne

Invention Description:

Beach Umbrella with a beach umbrella anchoring system that uses the weight of the sand to anchor beneath the sand

Category:

L) Games – Sports – Hobbies



Invention ID: US - 102

Inventor(s):

Sally Connolly / Napa Valley Toys USA

Invention Title:

NightBuddies

Invention Description:

Night Buddies is an enchanting nightlight designed with children in mind, creating a soothing atmosphere to help promote wellness and foster good sleep habits. Child activated with its playful patterned exterior, with whimsical designs and vibrant colors, captures the imagination of little ones, making bedtime a much-anticipated part of their day

Category:

B) Electronics – Electricity - Methods of Communication



Invention ID: US - 103

Inventor(s):

Assem Elbadawi / Aseem Painting/

Invention Title:

Handheld or Tabletop Device for Creating Paint Samples

Invention Description:

The invention is a modular paint mixing device with an integrated color matching sensor, designed to create custom paint samples by mixing base paint with pigments. Users can obtain the desired color by placing an existing color sample in front of the sensor, which then analyzes the color and generates the precise pigment formula for replication

Category:

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



Invention ID: US - 104

Inventor(s):

Nicole Haragutchi / Sustainable Technology Solutions LLC

Invention Title:

Disaster Alarm System

Invention Description:

The Disaster Alarm System has two main components: the wildfire alarm system and the earthquake alarm system. Both systems are designed to detect a disaster and alert a command center that will verify the threat.

Category:

E) Security - Rescue - Alarm



Invention ID: US - 105

Inventor(s):

Bao Tran / PowerPatent Inc.

Invention Title:

Al Patent Software - Power Patent

Invention Description:

The AI software helps inventors and companies protect their IP as provisional applications without attorney. It is fully capable of generating 40-50 pages non-provisionals ready for submission or patent lawyer review. The cost is \$499, a fraction of attorney costs.

See how it works at powerpatent.com

Category:

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



Invention ID: US - 106

Inventor(s):

Aisha Mccain / Casual Recovery Enterprises inc

Invention Title:

Electronic material sleeve for medical devices

Invention Description:

An electronic sleeve adapted to fit over an emergency medication dispensing device comprising: an elastic sleeve formed by a tubular wall having a length and diameter; a microprocessor and associated circuitry encapsulated within a thickness of the wall of the electronic sleeve, the circuitry including at least wireless communications capability.

Category:

M) Medical Technology - Medical Engineering - Medicine - Hygiene



Invention ID: US - 107

Inventor(s):

Robert Briganti / Comfy-Snug LLC

Invention Title:

Comfy-Snug Drawstring Bed Sheets

Invention Description:

This is a bed sheet that has a drawstring fitted sheet in stead of elastic so that the sheet stays tighter on the mattress with far less wrinkles under the sleeper and never pops off the mattress

Category:

F) Housekeeping - Nutrition



Invention ID: US - 108

Inventor(s):

Alain Niama

Invention Title:

Zero gram of carbon atoms along with its zero emission proportionally converted into an indelible watermark carbon to eliminate digital fraud of accounting documents and falsification of all kinds of civil status certificates as well as diplomas

Invention Description:

It involves converting zero grams of carbon or its dust into an ink that transforms into a watermark to reduce carbon pollution and simultaneously produce finished products with environmentally friendly effects.

Category:

E) Security - Rescue - Alarm



Invention ID: US - 109

Inventor(s):

Leotora Watson / Computerized Digital Resources LLC

Invention Title:

Computerized Digital Remote Device

Invention Description:

Computerized Digital Remote is intended to work like a mini digital television. CDR is a three-in-one remote. This device is the next evolution in remote control technology, designed to revolutionize your work and entertainment experience.

Category:

B) Electronics – Electricity – Methods of Communication



Invention ID: US - 110

Inventor(s):

Thomas Eichstetter / ImagiNew Playhome GmbH

Invention Title:

Stickflip

Invention Description:

Stickflip is the action-packed, flip-counting game stick that turns tossing into a high-score showdown! Just grab it, chuck it in the air, and try to catch it after it flips — the built-in motion sensors instantly count your rotations, and a colorful LED bar displays the number of flips after catching.

Category:

L) Games – Sports – Hobbies



Invention ID: US - 111

Inventor(s):

Jason Dinkins / Dinkins LLC

Invention Title:

BanBox

Invention Description:

The BanBox is an upper extremity, integrated fitness, therapy, sensory, and rehabilitation device. The BanBox is also a game for children derived from an ancient method using a bucket filled with rice, a sensory bin. This device works for professional athletes, gamers, typers, and anyone using their hands.

Category:

L) Games – Sports – Hobbies



MARYAM SADAT TAHOURI

maryam.tahouri1987@gmail.com

+1 949 424 9405

Address:249 Christopher Dr., San Francisco, USA



Invention ID: US - 112

Inventor(s):

Maryam Sadat Tahouri

Invention Title:

Interchangeable Mechanical Covering Device for Dental Unit with Digital Counter and Suction Volume Regulator in Suction

Invention Description:

This device automates dental unit cover replacement and intelligently adjusts suction power while recording data-improving hygiene, efficiency, and treatment quality.

Category:

M) Medical Technology - Medical Engineering - Medicine - Hygiene



History:

IFIA launched on November 1999 ,15, a virtual showcase and online exhibition of inventions and new products, called 1000 inventions

International Federation of Inventors' Associations (IFIA) has developed this online platform titled "Virtual Hall of Inventions" in 2016 for the further support of inventors and the wider visibility of the innovations for the market place.

The platform provides an opportunity for the virtual display of inventions and sharing the stories of invention development with other inventors, investors, businessmen, and manufacturers. A description is provided on how the inventors have come up with the idea and developed it, what challenges they have faced, and how they have marketed the idea along with a short description of the function of inventions, a biography of the inventor, and a photo of the invention. The page is linked to the website of the invention so that the prototype can be seen and purchased. This platform actually helps the idea owners to become familiar with the invention development procedure and increase the visibility of the inventions which leads to the commercialization of inventions.

The provided stories will be disseminated via IFIA Professional Publication including the Newsletter and Magazine.

For more information visit the:

https://www.ifia.com/vitual-inventions-hall/

94

95

SVIIF-2025

Uzbekistan

Tashkent State Technical University

www.matykubova.uz tgtu_mss@rambler.ru Address: 100060, flat 12, house 13, Nukus street, Mirobod region, Tashkent city, Republic of Uzbekistan



Invention ID: UZ - 9981

Inventor(s):

Parakhat Matyakubova, Jamshidbek Shamuratov, Patkhulla Ismatullayev

Invention Title:

Vibration viscometer for measuring the viscosity of a liquid

Invention Description:

The invention relates to the field of measuring the viscosity of liquids (viscometry) and can be used to determine the viscosity of chemical solutions, petroleum products, alcohols, and other low-viscosity liquids in various fields of technology and production.

Category:

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



Institute of Innovation Research and Attribute Verification

info@riva.global +84 93 606 9999 Address: 2nd Floor, N3 Building, 109 Ho Tung Mau, Vietnam National University UEB, Hanoi, Vietnam



Invention ID: VN - 8401

Inventor(s):

Le Nguyen Bao Han, Bui Minh Ngoc, Tran Gia Khanh, Tran Van Vinh Thai, Nguyen Hoang Ngan Linh

Invention Title:

Fabrication of Ni-doped TiO₂/CNTs for wastewater treatment in traditional handicraft villages in Northern Vietnam

Invention Description:

Fabrication of Ni-doped TiO $_2$ /CNTs for wastewater treatment in traditional handicraft villages in Northern Vietnam

Category:

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



Invention ID: VN - 8402

Inventor(s):

Truong Dinh Trung, Nguyen Thuong Minh, Bui Sy Nguyen, Do Nhat Quang, Do Nhat Minh, Tang-phadungrutch Thakorn

Invention Title:

Al, Finance, and the Vietnam Stock Market

Invention Description:

Al, Finance, and the Vietnam Stock Market

Category:

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



Invention ID: VN - 8403

Inventor(s):

Tri Nam An, Pham Ngoc Tin, Nguyen The Anh, Tran An Phu, Nguyen Gia Hung, Vo Quang Tien Bao **Invention Title:**

Al-Integrated Nutritional Care Software with Online Specialists

Invention Description:

Al-Integrated Nutritional Care Software with Online Specialists

Category:

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



Invention ID: VN - 8404

Inventor(s):

Tu Minh Khoi, Le Ngoc Bao Chau, Nguyen Hoang Ngan, Mai Ngoc Khanh

Invention Title:

Polyamine-impregnated mesoporous silica materials as high-capacity CO2 adsorbents

Invention Description:

Polyamine-impregnated mesoporous silica materials as high-capacity CO2 adsorbents **Category:**

P) Energy - Renewable and green energy



Invention ID: VN - 8405

Inventor(s):

Mai Duc Huy, Nguyen Minh Chau

Invention Title:

Safe herbal deodorizing wax

Invention Description:

Safe herbal deodorizing wax

Category:

F) Housekeeping - Nutrition



Invention ID: VN - 8406

Inventor(s):

Institute of Innovation Research and Attri bute Verification (RIVA)

Invention Title:

Bio-fibers from snake plant leaves

Invention Description:

Bio-fibers from snake plant leaves

Category:

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



Invention ID: VN - 8407

Inventor(s):

Research Institute of Creative Education (RICE)

Invention Title:

Recycled Glass from Agriculture

Invention Description:

Recycled Glass from Agriculture

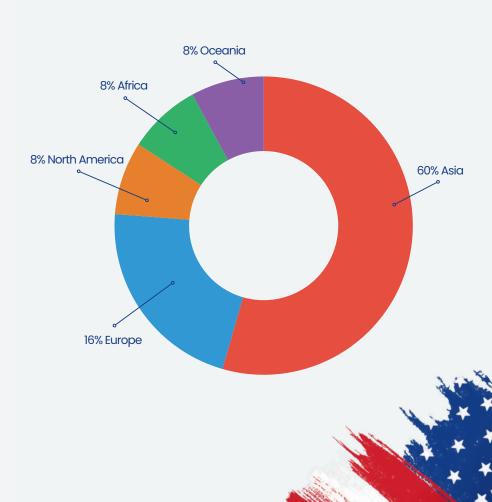
Category

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





Continental Representation of Participating Nations



Silicon Valley International Invention Festival www.SVIIF.com



Bangkok, Thailand

Bangkok International Intellectual Property, Invention, Innovation and
Technology Exposition
www.ipitex.nrct.go.th/
2 to 6 February 2025



Kuwait City, Kuwait

IIFME International Invention Fair in the Middle East www.iifme.com 16 to 19 February 2025



Kuala Lumpur, Malaysia

MTE Malaysia Technology Expo www.mtexpo.mte.org.my/ 20 to 22 February 2025



Geneva, Switzerland

Geneva Inventions The 50th International Exhibition of Inventions of Geneva www.inventions-geneva.ch/en/home-en/ 9 to 13 April 2025



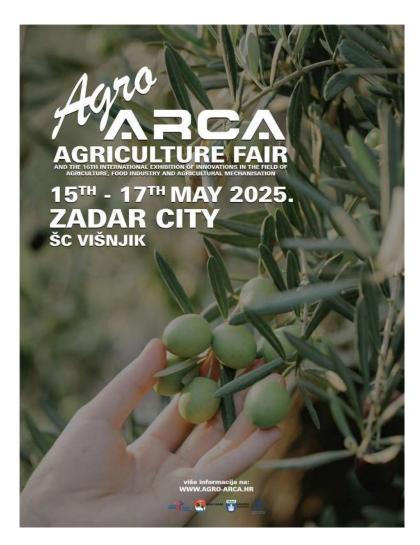


Online

BRICS INVENTIONS 2025 worldwide online competition for Inventors & Innovators www.brics-inventions.org 1 May to 30 June 2025

lasi, Romania

EUROINVENT
European Exhibition of Creativity and Innovation
www.euroinvent.org/
8 to 10 May 2025



Zadar, Croatia

AGRO ARCA International Fair on Innovation in Agriculture, Food Industry and Agricultural Machinery www.agro-arca.com 15 to 17 May 2025



Gyeonggi-do, South Korea

KIWIE
Korea International Women's Invention Exposition
www.kiwie.or.kr/eng/
22 to 24 May 2025





Kuala Lumpur, Malaysia

Χ

36[™] International Invention, Innovation, Technology Competition & Exhibition www.itex.com.my/ 29 to 30 May 2025

Katowice, Poland

INTARG®

18th International Invention and Innovation Show www.intarg.haller.pl/home.html?jezyk=1 3 to 5 June 2025



Virtual and Online Event - Geneva, Switzerland

INV Members Competition The 5th International Invention and Innovation Competition for IFIA INV Members 15 to 17 August 2025



Guangzhou, China

IEI 2025 11th International Exhibition of Inventions 22 to 24 August 2025



Special Online Edition - Toronto, Canada

iCAN

The 10TH International Invention Innovation Competition in Canada www.tisias.org/ican-2024.html August 30th, 2025



Belgrade, Serbia

INVENTION WEEK 2025

38th International Exhibition of Inventions, New Technologies & Design www.inventbg.org/inventionweek2025/

2 to 9 September 2025



Jakarta, Indonesia

IID 2025 Indonesia Inventors Day www.iid-official.com/ 11 to 14 September 2025



Zagreb, Croatia

ARCA International Exhibition of Inventions www.arcahr.com 16 to 18 October 2025







OCT. 16-18, 2025 TWTC HALL 1

www.InvenTaipei.com.tw



Supervised b

Ministry of Economic Affairs National Science and Technology Council Ministry of Agriculture Ministry of National Defense Ministry of Education Ministry of Labor Ministry of Environment Ministry of Environment

Hosted by

Intellectual Property Office, MOEA
Industrial Development Administration, MOEA
Energy Administration, MOEA
Department of Industrial Technology, MOEA
Small and Medium Enterprise and Startup Administration, MOI
Department of State-owned Enterprise Affairs
Institute of Labor, Cocupational Starty and Health, MOL

) reconstrate

Taiwan External Trade Development Council (TAITRA)

Co-organizer:

World Invention Intellectual Property Associations Taiwan Invention Association Taiwan International Invention Award Winner's Association Taiwan Invention Products Promotion Association Chinese Innovation & Invention Society The Excellent Inventions Society of The Republic of China The Union Association of Taiwan Innovations and Invention

Taipei, Taiwan

HE

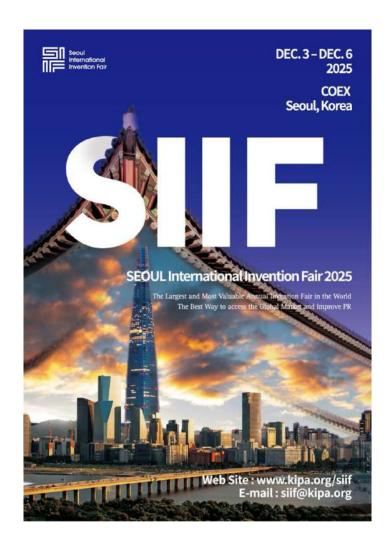
Taiwan Innotech Expo www.inventaipei.com.tw/zh-tw/index.html 16 to 18 October 2025



Nuremberg, Germany

iENA

International Trade Fair, Ideas, Inventions, and New Products www.iena.de/en/
1 to 3 November 2025

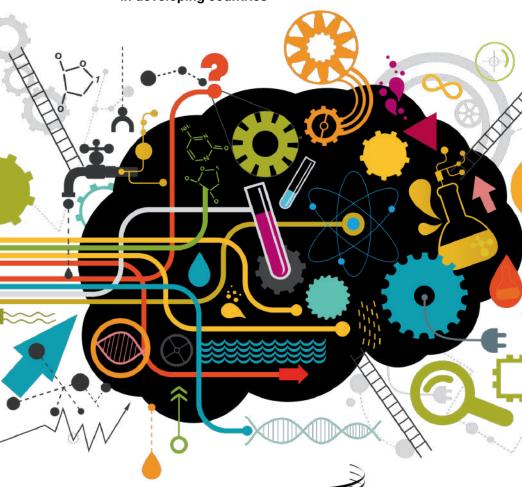


Seoul, South Korea

SIIF Seoul International Invention Fair www.kipa.org/siif 3 to 6 December 2025

Inventor Assistance Program

Bringingtogetherinventorsandpatent attorneys in developing countries



For more information, visit: www.wipo.int/iap

WIPO
WORLD
INTELLECTUAL PROPERTY
ORGANIZATION

Note:



PARTNERING WITH THE FUTURE

SANTA CLARA, A CITY FOR INNOVATORS

www.santaclaraca.gov Q