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TAIPEI WORLD TRADE CENTER HALL 1

2016



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TAIPEI INT'L  
INVENTION SHOW &  
TECHNOMART  
台北國際發明暨技術交易展



2013-2015  
Platinum Awards  
鉑金獎

TWTC EXHIBITION HALL 1

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# 2015 Highlights

2015 精選照片



2013 鉑金獎  
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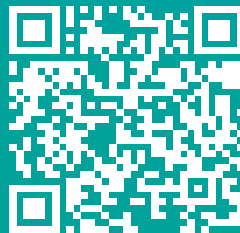
# TAIPEI INT'L INVENTION SHOW & TECHNOMART



TAIPEI WORLD TRADE CENTER **HALL 1**

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Small and Medium Enterprise Administration, MOEA  
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World Invention Intellectual Property Associations



# 2013 鉑金獎 Platinum Awards



專利技術名稱

**衣服的衣領結構、遮陽手套以及包含該遮陽手套的衣袖結構、可摺成隨身衣袋的衣服結構**  
The Clothes Collar Structure, Shading Gloves and Sleeve Structures with Shading Gloves. The clothes can be folded into a portable backpack.

Patent No: (R.O.C. 優先) M445351、M447096、M447097

專利權人：游紫彤 / TZU-TUNG YU

發明人：游紫彤、曾昭雄、曾子庭

TZU-TUNG YU, CHAO-HSIUNG TSENG, TZU-TING TSENG



專利技術介紹：

本創作為防護用途之多功能變形衣共有三種新型專利，且每個專利都有第六級技術報告。第一種專利為衣服的衣領結構，可利用製成結構將領子變成 3D 立體口罩，並有隱藏式耳掛，避免顯露於外，而增進衣領結構的完整性及提升質感；第二種專利為遮陽手套的衣袖結構，使衣袖可變成手套，並利用夾層的設計原理，使手套具有手部全部包覆或手指半露等功能；第三種專利指衣服本體的内面下方設置有一收納袋，可將衣服摺疊後變成背包。

本創作結合機能性科技布料具有防風、防塵、遮陽與抗紫外線等功能，特點是將衣服、口罩、手套整合在一起，讓使用者可隨身所欲地將衣服變形為附帶口罩、手套；甚至變形為側背包等，不但出門運動、休閒逛街等可一件搞定，更是服裝界的一大創舉。

Patented technology introduction:

The creation of the deformation clothing is for the purpose of protection. There are three new patents in the creation, and each patent has a sixth grade technical report. The first patent features the clothes collar structure. The second patent features the sleeve structures with shading gloves, and the third one claims the clothes to be folded into a portable backpack.

The multi-functional protective jacket inspires your life with convenience, technology, fashion and creativity. In this design, the collar can turn into a mask, the sleeves can turn into a pair of gloves, and it can be folded into a backpack to protect from wind, dust, sun, and UV. The feature of this design is to integrate clothing, mask and gloves.

The users can carry the clothing transformed as desired with mask and gloves or even transformed into backpacks. Not only for going out but also sports, leisure shopping, etc. It is multi-functional, and a pioneering work in the fashion industry.

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專利技術名稱

**噴嘴陣列無分隔室之微液珠噴射裝置及其液珠之噴射方法**  
Micro-Droplet Injector Apparatus Having Nozzle Arrays without Individual Chambers and Ejection Method of Droplets Thereof

Patent No: (R.O.C. 優先) 台灣發明第 I322085 號、US8287102B2

專利權人：國立清華大學 / National Tsing-Hua University

發明人：曾繁根、楊宜達 / Fan-gang Tseng、I-da Yang

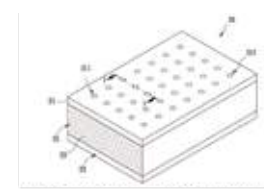


Fig. 1 The perspective view of a part of a microdroplet ejection apparatus

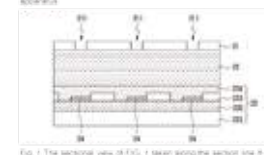


Fig. 1 The sectional view of FIG. 1 taken along the section line A-A



Fig. 2 The schematic view of the bubble growth and the proper position of the microdroplet ejection apparatus

專利技術介紹：

一種噴嘴陣列無分隔室之微液珠噴射裝置包含一基材、一液珠噴出層及複數個泡產生器，其中該基材及該液珠噴出層間形成一儲存液體空間。該儲存液體空間中並無分隔物由該基材上連接至該液珠噴出層，意即該儲存液體空間無分隔室。該液珠噴出層具有複數個排成陣列狀之通孔，又各該通孔可作為推出墨水之噴嘴。該複數個氣泡產生係設於該基材上方，並相對於各該通孔之下方。一被指定之該氣泡產生器之兩側的氣泡產生器會產生至少一限位氣泡，又該限位氣泡會限制被指定之該氣泡產生器產生一主氣泡之成長。

Patented technology introduction:

A micro-droplet ejection apparatus includes a substrate, a droplet-ejecting layer, and a plurality of bubble generators. A liquid storage space is formed between the substrate and the droplet-ejecting layer. The liquid storage space has no spacer connecting the substrate and the droplet-ejecting layer. That is, the liquid storage space has no individual chambers. The droplet-ejecting layer has a plurality of through holes arranged in pattern, and each through hole is used as a nozzle for pushing out ink. The plurality of bubble generators is disposed above the substrate, and corresponds to and is disposed under the through holes. The bubble generators on two sides of a designated bubble generator generate at least one limit bubble, limiting the growth of a main bubble generated by the designated bubble generator.

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專利技術名稱

## 一種注射式骨填補組成物

Patent No: (R.O.C. 優先) I436795

專利權人：遠東新世紀股份有限公司 / Far Eastern New Century Corporation

發明人：黃若曄、陳柏仰、張根源、張至宏、許元銘



### 專利技術介紹：

骨水泥材料主要應用於填補生物體之骨骼缺陷，填補後可支撐患部以避免二度傷害，並使其逐漸恢復原有功能。遠東開發之 NuROs 骨水泥材料包含由骨骼替代材料組成物和調劑用之水劑，於使用前均勻混合使其具有流動性，注射至患部時可緊密的填充，並可在短時間內固化，方便醫師操作。且固化後的結構強度亦足夠支撐患部，避免造成二次傷害。

本發明的注射式骨水泥具有以下特性：(1) 操作方便性：加水調製後具有適當黏度及良好的流動性，使其易於自注射筒中被擠出；(2) 適當的調製時間：醫師操作時有充分的時間進行骨水泥調製，不致因固化速度過快，而無法自注射筒中被擠出；(3) 注入骨缺損部位時，具有足夠之黏度，且可快速固化，避免骨水泥被體液沖散而流失。

### Patented technology introduction:

The primary application of bone cement is to treat osteogenic fractures by providing a mechanical support at the fixation site to prevent secondary injury and to improve recovery for the patient. NuROs bone substitute consists of bone graft substitute powder and saline solution. When the powder is mixed with the saline solution, an injectable paste forms with an optimal viscosity and fluidity. The newly formed paste has an inherent fast-setting characteristic with a delivery system designed to inject the paste into the site of fractures. During healing, the bone cement is degraded and absorbed by the host to enhance osteoblast ingrowth and ultimately, replaced entirely by the new bone tissue.

Our present invention relates to a novel porous bone substitute applicable in treating dental and bone defects. The porous bone substitute has better mechanical strength with higher porosity and interconnected pores to provide necessary structural support while enhancing osteoblast migration into the site. Our invention has the following characteristics: (1) Ease of operation: mixing the bone graft substitutes powder with saline solution forms a paste of optimal viscosity, making it easier for injection via the delivery device. (2) Suitable working time: suitable setting speed makes it easier to prepare prior to injection; (3) Proven mechanical strength: the bone cement has the suitable mechanical strength to support the fracture site while still maintaining its fluidity during injection.

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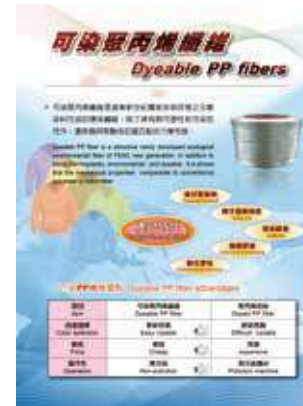
專利技術名稱

## 具可染性及良好水洗牢度的聚丙烯纖維

Patent No: (R.O.C. 優先) I367966

專利權人：遠東新世紀股份有限公司 / Far Eastern New Century Corporation

發明人：褚智偉、陳世雄、江昭遠



### 專利技術介紹：

由於聚丙烯纖維具有比重輕、强度高、耐磨、導濕、柔軟等優點，且原料與製作成本低廉，故能適用於各類的織物。惟，聚丙烯分子之結構中因不具極性基團且結晶度高，使得純聚丙烯纖維難以染色，進而影響聚丙烯纖維之應用範圍。目前較為簡單之有色聚丙烯纖維的生產方式，係利用色母粒著色方式製作，但僅能製得單色的聚丙烯纖維，不能在織造時進行染色加工，使得以其形成的織物顏色單調，缺乏顏色多樣性。因此，本發明提供一改善聚丙烯，其係藉由於聚丙烯中混入一改善共聚酯及相容劑，藉以改善聚丙烯之可染性。本發明聚丙烯纖維可於 100 ~130°C 溫度用分散性染料染色，且具有優異之染色力度與染色水洗牢度。此外，本發明之改善聚丙烯纖維並不影響其可紡性。因此，製造者可藉由各種不同的加工製程將該聚丙烯組合物紡絲成聚丙烯長纖維及短棉纖維，例如半延伸絲 (POY)、假撚加工絲 (DTY)、全延伸絲 (FOY) 或短棉等。對於 Outdoor 運動功能性衣服、雪衣、泳衣等之市場擴展具有相當大之幫助。

### Patented technology introduction:

The polypropylene (PP) fiber with the advantages of light, high strength, antifricition, soft feeling, and low cost. However, the PP fiber is less polar and with high crystallinity, its hard solution constrains usage.

The way to color PP fiber is with doped dye, but the flexibility of production will be limited and the colors are monotonous.

This innovative invention blends a modifier into PP, and provides the low temperature for dyeability. So the PP fiber can be dyed 100~130 °C with disperse dye with good spinning performance, high color strength, and good wash fastness.

From production point of view, the dyeable PP is suitable for POY, FDY and DTY and for staple fiber.

The end uses of the PP fiber are ski wears、swimming wear and outdoor sports. We had sold 30 tons of this modified PP and energetic to find business partners to make this product more popular.

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專利技術名稱

## 攜行式遠紅外線濾水器

Portable Far Infrared Water Filter

Patent No: (R.O.C. 優先) M422429

專利權人：遠東科技大學 / Far East University

發明人：陳智成、陳俊良、朱清俊、陳柏州、蔡政琨

Chen Chun-Liang, Chung Min-Chi, Chen Chih-Cheng, Chu Ching-Jiun, Chen Po-Chou, Tsai Cheng-Kun



### 專利技術介紹：

本產品為可攜帶型的遠紅外線淨水器，裝置手提伸縮拉把及滾輪方便移動攜帶且具機動性。以陶瓷濾心作為本體，改善市面濾材只能過濾雜質的缺點，本濾心具有遠紅外線、負離子功效，同時可釋放出對人體有益之微量礦物質除此之外，當水透過磁化棒將水質磁化後可將水分子團變得更小有益人體吸收。本濾心之孔隙在 0.4~0.8 μm，具多重陶瓷過濾效果，可過濾微細之細菌，並可重複清洗使用無須丟棄。

### Patented technology introduction:

This product is portable for infrared water filters. It looks like a pull rod suitcase which is easy to carry. Current filters on the market can only filter the water to remove some impurities. But our filter uses cermaic as our filter materials which can slove the shortcoming of the normal filters. Our far infrared ceramic filters produce far infrared and negative ions. They also release trace amounts of useful minerals. Filters can be produced in a variety of models to meet the specific demands of customers. The filter pores are in 0.4 ~ 0.8 μm, with multiple ceramic filter effects, fine filtration of bacteria, and is washable and can be re-used. Today, people are increasingly concerned about clean, healthy drinking water. Personal health is a growing sector that will provide many opportunities to market this product.

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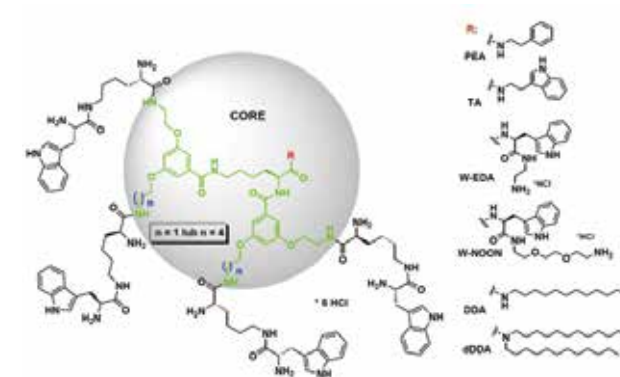
專利技術名稱

## Non-Toxic Tryptophan-Rich Dendrimers with Antimicrobial and Anticancer Properties

Patent No: (please state the country) POLAND – Patent Application: P. 404 885

Patent Owner: Institute of Organic Chemistry Polish Academy of Sciences, Warsaw, Poland

Inventor: Marta Sowinska, Zofia Urbanczyk-Lipkowska, Anna Laskowska, Jolanta Solecka, Marta Bochynska, Andrzej W. Lipkowski



### Patented technology introduction:

An increasing emergence of microbial pathogens that are resistant to conventional antibiotics, press for the discovery of new compounds targeting specific pathogens, e.g. Gram (-) bacteria that would enjoy great demand. In the present invention, we present the design of novel cationic, Trp-rich dendrimers with hydrophobic interior and non-specific membranolytic activity.

These compounds are non-toxic and highly active against a statistically significant collection of antibiotic susceptible and antibiotic resistant (ESBL) clinical isolates of E. coli strains. For several derivatives therapeutic index is higher that that of Polimyxin B - antibiotic clinically used for treating E. coli infections. Moreover, they retain activity in human serum. Currently active substances are under evaluation for their respective applicability in the clinic.

### Institute of Organic Chemistry, Polish Academy of Sciences

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Tel : 48-22-3432207



專利技術名稱

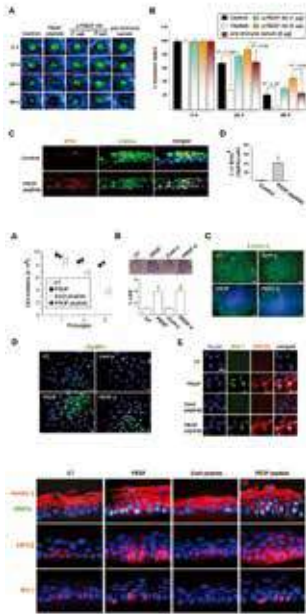
色素上皮衍生因子衍生之多胜肽於促進幹細胞增殖與傷口癒合之用途

Use of PEDF-Derived Polypeptides for Promoting Stem Cells Proliferation and Wound

Patent No: (R.O.C. 優先) I 449708

專利權人：財團法人臺灣基督長老教會馬偕紀念社會事業基金會馬偕紀念醫院  
Mackay Memorial Hospital

發明人：曹友平、何宗權 / Yeou-Ping Tsao、Tsung-Chuan Ho



專利技術介紹：

輪部幹細胞 (limbal stem cell; LSC) 的數量為眼表面重建成功的關鍵。我們的動物實驗顯示色素上皮衍生因子 (PEDF) 短胜肽具有顯著促進角膜傷口癒合的效力。免疫組織染色顯示，PEDF 短胜肽可促進輪部幹細胞增殖。此外，PEDF 短胜肽於細胞培養中可以增加輪部幹細胞的數目及保持輪部幹細胞的分裂潛力。目前的研究顯示 PEDF 短胜肽具有開發成治療眼表面疾病或協助眼科手術後恢復新穎藥物的潛力以及可能成為眼睛保養液或人工淚液之成份。

Patented technology introduction:

Disclosed herein is a synthetic peptide, which has an amino acid sequence that has 20-39 amino acid residues. The synthetic peptide has at least 80% amino acid sequence identity to SEQ ID NO: 1, and includes at least 20 consecutive residues that have at least 90% amino acid sequence identity to residues 11-30 of SEQ ID NO: 1. Also disclosed herein are compositions containing the synthetic peptide and applications thereof. According to various embodiments of the present disclosure, the synthetic peptide is useful in promoting stem cells proliferation or wound healing.

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專利技術名稱

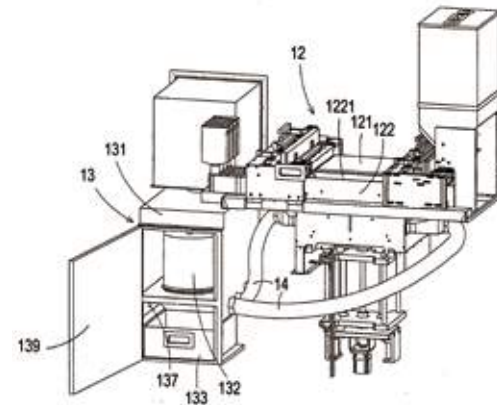
粉末過濾裝置

Powder Filtering Device

Patent No: (R.O.C. 優先) I371310

專利權人：研能科技股份有限公司 / MicroJet Technology Co., Ltd.

發明人：奚國元、黃科銘



專利技術介紹：

本專利研發應用於 3D 列印之粉末過濾裝置，並藉由掌握能自主設計的噴墨頭，打破過去獨家公司壟斷此類 3D 列印技術的局面。

研能科技全球首創垂直整合自有噴墨頭與黏結劑的 3D 列印技術。先用系統提供的列印軟體，將 3D 檔案做切層。再逐一將各切層的圖案，在石膏基複合粉末上噴印上膠並直接上色，然後再佐以後處理劑增加強度或光澤，以快速製作出原型實體。研能科技之噴墨式 3D 列印機在設計時即考慮操作簡便、並符合 ISO 9001、RoHS、Reach、EMC、Safety 等驗證要求。

研能科技多次得到智慧財產局「本國法人發明發證前百大排名」、科學園區研發成效獎、科學園區創新產品獎之肯定。

Patented technology introduction:

Microjet integrated own designed inkjet printhead and rapid prototyping technology in 3D Printing. 3D Printing builds up parts layer-by-layer by depositing a liquid binder onto thin layers of plaster-based powder. Finally, the completed model will also be infiltrated with different infiltrants to make parts tough and polished.

MicroJet Technology prides itself on hundreds of granted and pending patents, worldwide, and the list is still growing. MicroJet Technology also ranks among the Top-100 Taiwan companies in Patents application.

研能科技股份有限公司 / MicroJet Technology Co., Ltd.

328 桃園縣觀音工業區榮工南路 6 號

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聯絡人：鄭石宏 / Rocky Cheng

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專利技術名稱

## 適用於立體成型機構之切層方法

Slicing Method of Three Dimensional Prototyping Apparatus

Patent No: (R.O.C. 優先) I 385076

專利權人：研能科技股份有限公司 / MicroJet Technology Co., Ltd.

發明人：陳偉鈺；施學冠



專利技術介紹：

研能科技全球首創垂直整合自有噴墨頭與全彩科技的 ComeTrue 3D 列印技術。先用系統提供的列印軟體，將 3D 檔案做切層。再逐一將各切層的圖案，在石膏基複合粉末上噴印上膠並直接上色，然後再佐以後處理劑增加強度或光澤，以快速製作出原型實體。本專利研發適用於立體成型機構之切層方法，並藉由掌握研能自主設計的噴墨頭，打破過去獨家公司壟斷此類 3D 列印技術的局面。研能科技之噴墨式 3D 列印機在設計時即考慮操作簡便、並符合 ISO 9001、RoHS、Reach、EMC、Safety 等驗證要求。

研能科技多次得到智慧財產局「本國法人發明發證前百大排名」、科學園區研發成效獎、科學園區創新產品獎之肯定。

Patented technology introduction:

Microjet integrated own designed inkjet printhead and rapid prototyping technology in 3D Printing. ComeTrue 3D Printing builds up parts layer-by-layer by depositing a liquid binder onto thin layers of plaster-based powder. Finally, the completed model will also be infiltrated with different infiltrants to make parts tough and polished.

MicroJet Technology prides itself on hundreds of granted and pending patents, worldwide, and the list is still growing. MicroJet Technology also ranks among the Top-100 Taiwan companies in Patents application.

研能科技股份有限公司 / MicroJet Technology Co., Ltd.

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Web : http://www.cometrue3D.com

Fax : +886-3-4833300

專利技術名稱

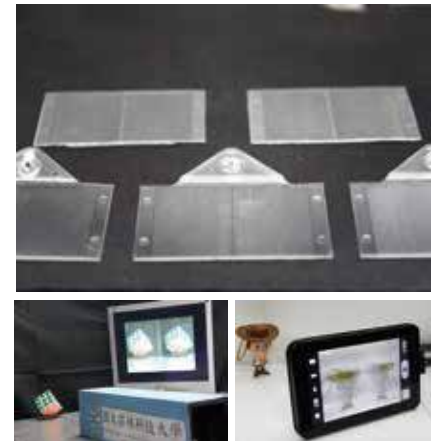
## 立體影像擷取裝置及其應用之對稱式稜鏡陣列

3D Image Capture Device and Symmetric Prism Array for the same

Patent No: (R.O.C. 優先) I393991, US 8681206 B2

專利權人：國立雲林科技大學 / National Yunlin University Of Science And Technology

發明人：陳建宇、程志勝、鄧清龍 / Chien-Yue Chen, Zhi-Sheng Cheng, Qing-Long Deng



專利技術介紹：

本發明將對稱式稜鏡陣列影像擷取裝置裝設於智慧型手機的單鏡頭上，不需雙鏡頭與複雜電路，僅以簡單的光學方式來拍攝出立體影像對，對稱式稜鏡陣列所組成之單鏡頭攝影系統不僅可以輕鬆取得立體影像對，且具低成本、體積小、重量輕等優點，適用於任何市售 Android 智慧型手機。再經由 Android 之影像處理軟體後，手機螢幕即可顯現生動的 3D 影像，給予截然不同的視覺體驗！

Patented technology introduction:

We design a symmetric micro prism-array which can mount in front of the single lens camera from the smartphone. This invention can make smartphone users take needed stereo displays optically without using double lens and complex circuits. After the image processing on Android, users can see a lifelike 3D image on the screen of the smartphone. A symmetric prism array for the 3D image capture device not only catches a stereo image pair easily but also has advantages such as low cost, lighter and smaller. Moreover, this invention can be applied to any Android device.

國立雲林科技大學 / National Yunlin University Of Science And Technology

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專利技術名稱

## 具有煞車分配器之腳踏車煞車結構

Brake Distribution Structure

Patent No: (R.O.C. 優先) 新型專利第 M 454370 號

專利權人：光啟學校財團法人桃園縣光啟高級中學 / Paul Hsu Senior High School

發明人：張震華、吳志伯、林文賢、黃文毅、游福裕

Chang, Chen-Hua, Wu, Chih-Po, Lin, Wen-Hsien, Hoang, Wen-Yi, Yu, Fu-Yu



### 專利技術介紹：

本發明提出一種包括兩個滑動塊及一個圓柱筒之新型煞車分配器結構。將兩個滑動塊分別連接到後輪煞車線與前輪煞車線。當煞車制動發生時，第一個滑動塊因位移而煞住後輪，然後帶動第二個滑動塊移動煞住前輪，防止刹車鎖死提高自行車的安全性。

### Patented technology introduction:

Provided is a brake distribution structure including a first sliding block, a second sliding block, and tube. The first sliding block connects to a rear brake line of a bicycle. The second sliding block connects to a front brake line of the bicycle. The first sliding block moves to brake a rear wheel of the bicycle, and then the first sliding block drives the second sliding block to move and thereby brake the front wheel of the bicycle. The brake distribution structure ensures that the rear wheel is always braked first, prevents brake lockup, reduces hazards otherwise arising from errors to maximize rider safety.

### 光啟高中 / Paul Hsu Senior High School

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專利技術名稱

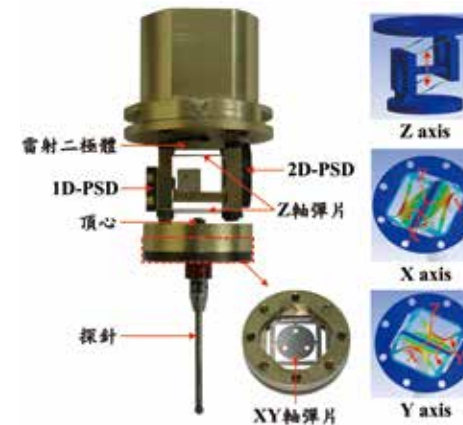
## 三次元接觸式掃描探頭

Three Dimensional Scanning Touch Probe

Patent No: (R.O.C. 優先) 101140557

專利權人：南臺科技大學 / Southern Taiwan University of Science and Technology

發明人：朱志良、陳泓錡、柯志憲 / Chih-Liang Chu, Hung-Chi Chen, Jih-Sian Ke



### 專利技術介紹：

本產品利用微細樑之特性，設計出一 XY 軸系統與 Z 軸系統，並配合一頂心設計，進一步完成三自由度大範圍量測。並設計一探針機構以方便探針快速交換。並整合自行研發的超精密光學式位置感測系統，成功地設計出一低成本、具大範圍量測之三次元接觸式掃描探頭。整體探頭系統從結構設計、感測系統、電路製作...等皆自行研製，搭配三軸定位平台，即可量測微小模具與元件之三維形貌。

### Patented technology introduction:

Using micro beam characteristics, an XY axis system and a Z-axis system were designed into this product. With an live center design, it further achieves a wide range of three dimensional free movement. A stylus mechanism was designed in order to facilitate the rapid exchange of the probe. Integrating with a self-developed ultra-precision optical position sensing system, a low-cost wide range of three-dimensional measurements of contact scanning probe was also successfully developed. The overall probe system was independently developed from the structural design, the sensing system, the circuit design, etc. Accompanying a three-axis position stage, the probe can be measure the three-dimensional morphology of micro molds and components.

### 南臺科技大學 / Southern Taiwan University of Science and Technology

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專利技術名稱

## LED 感應控制照明裝置

LED Lighting Luminary Controlled by Capacitance Sensing

Patent No: (R.O.C. 優先) M445822

專利權人：益群科技股份有限公司 / Yu-Chyun Technology Co., Ltd.

發明人：陳宜秀 / CHEN, YI-HSIU



### 專利技術介紹：

本發明主要利用最精簡的控制電路（僅有兩組可調變訊號）及特殊的 LED 配置機構來完成一個全可見光頻譜及全週光之 LED 光源並可直接整合感應技術以提供觸控或手勢操控等人性化直覺控制介面。LED 配置方面採用高效率白光 LED 為基本光源加上參組或更多不同波長組合之輔助光源，再加上不同的電控模式，即可完成可調強度、色溫度及各種顏色可見光，再加上特別的機構配光模式可對 360 度空間進行合計 900 度的均勻配光，不僅提高 LED 燈具之演色性、可調光譜範圍及均勻度卻較傳統之方法約減少 33% 之可調變訊號及 25% LED，且可調整範圍更大，真正完成一全彩、全週光之 LED 光源，可以讓照明燈具的設計達到更多彩、更高品質的境界。

### Patented technology introduction:

The main targets of the present invention are providing a full spectrum of visible light and a omni-directional light distribution but only use the simplest control circuit(only two tunable signals) and a special LED configuration mechanism to complete. The control circuit can be directly integrated sensor technology to provide touch or gesture manipulation and other human intuition control interface. The LED module uses high-efficiency white LED light source as a fundamental and couples with 3 or more sets of auxiliary light source in different wavelengths together. The simplest control circuit provide different modes to complete adjustable intensity, color temperature and various colors of visible light and the LED models placement mechanism can distribute the light total 900 degrees for space of 360 degrees. It means a very uniform light distribution. The invention combined electronic circuit and mechanical structure not only to improve the color rendering index, adjustable spectral range and uniformity at the same time, it reduces by about 33% compared with the traditional method of the tunable signal and 25% LED. The invention really completed a full color, omni-directional LED light source. The new LED light source can make lighting design to achieve more color, higher quality level.

益群科技股份有限公司 / Yu-Chyun Technology Co., Ltd.

國立聯合大學 / National United University

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8F.-2, No.2, Sec. 4, Zhongyang Rd., Tucheng Dist., New Taipei City 236, Taiwan (R.O.C.)

苗栗縣苗栗市恭敬里聯大 1 號

1, Lienda, Miaoli36003, Taiwan, R.O.C.

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# 2014 鉑金獎

## Platinum Awards

專利技術名稱

## 工業用之硬管直式內視鏡

Industrial Rigid Type Probe.

Patent No: (R.O.C. 優先) 新型第 M411574 號  
專利權人：曾湘德 / Tseng, Hsiang Te  
發明人：曾湘德 / Tseng, Hsiang Te



### 專利技術介紹：

這是一款不銹鋼管直管內視鏡，具有高硬度及高耐用性應用於檢視壓縮機，引擎或渦輪機的葉片的耗損狀況。可直接對準目標物準確探測，45 萬高解析度像素，鏡頭可 360 度旋轉，可搭配 35 ~70 度、45 ~90 度以及 55 ~110 度的反射鏡，利於了解側邊的狀況。另外一款獨特的 90 度側視鏡頭設計，鏡頭中心至底端僅 4mm，讓使用者清楚檢視底部四周側邊的情況。本公司任何一款內視鏡都可透過本公司自行研發的 3.5 吋或 7 吋彩色錄像系統以及任一桌上型電腦或是筆記型電腦達到拍照及錄影功能，記錄圖像 MPEG3 以及錄影檔 MPEG4，利於使用者作後續追蹤。也可以將內視鏡的影像傳輸到任一螢幕。是一套廣泛使用於工業的檢測儀器，例如航空業、汽機車業、模具製造業、槍械業、製鎖業、空調業等等。

### Patented technology introduction:

This is a stainless steel rigid probe designed for hardness and durability use purposes. Particularly to inspect compressors, engines or the blades of turbines to check the wear conditions with lens 360 degree rotation. The 450,000 pixels high resolution lens allow attach 3 type degree mirror adapters from 35 ~ 70, 45~ 90, 55 ~110, allowing users to see side-view from the pipe or wall. An unique camera design of 90°, center lens to head-edge distance only 4mm provide bottom-surroundings 360 degree rotation scenario view. All types of Adronic Tube can link to 3.5" or 7" (developed by Adronic), PC and lap top (allow user snapshot /recording), additional tube's video can link to any kind monitor. Widely use in many industries, for example aviation, automotive, molding manufacture, gunsmith, locksmith, ventilation ... etc.

### 德盟儀器製造有限公司 / Adronic Instrument Manufacture Co., Ltd.

429 台中市神岡區大富路 61 巷 53 號

No. 53, Ln. 61, Dafu Rd., Shengang Dist., Taichung City 429, Taiwan (R.O.C.)

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Web : http://www.adronic.com.tw

Fax : +886-4-25204906

專利技術名稱

## 無負壓密封型電子式穩壓控制加壓機

Sealed Electronic Regulator Ultra-Quiet Pump

Patent No: (R.O.C. 優先) 新型第 M468576 號  
專利權人：黃順治 / SHUN CHIH HUANG  
發明人：黃順治 / SHUN CHIH HUANG



### 專利技術介紹：

- (一) 超低噪音值，經台灣工研院，空機運轉測試，1/3HP 噪值 40DbA。
- (二) 三重斷電保護
  1. 電子式磁簧開關感應偵測，無水 15 秒內自動斷電。
  2. 不銹鋼桶內附防水溫度控制器，50°C 過載斷電保護。
  3. 馬達線圈內附 100°C 過載溫控斷電保護。
- (三) 無負壓功能，符合自來水法，免設蓄水池。
- (四) 電子穩壓控制器功能特色
  1. 電子式磁簧感應壓力開關，除開關控制，並能確保小水量時水壓恆穩，不會忽大忽小。
  2. 無水斷電磁力感應棒，結合逆止閥及過濾網設計，不會因結構及功能設計關係，導致管徑縮小，而影響出水流量。
3. 圓弧型濾網連結活動式逆止閥，除了防止泥沙雜物卡住磁力感應棒導致無法正常開關之外，並可藉由逆止閥開啓時，水壓沖刷將雜物順水流排去，因此不會使濾網阻塞，影響進出水流量。
4. 電子式磁簧感應無接點開關，經 100 萬次以上開關測試。
5. 耐壓程度 12Kg/c m<sup>2</sup>。

### Patented technology introduction:

Ultra-low noise provides quality living style.

Noise level is 40DbA, tested by Taiwan's Industrial Technology Research Institute

No sudden change in flow and temperature stable water pressure elevates bathing quality.

Triple power safe protection

1 Electronic control, automatically switched off after 15 seconds without water flow.

2 Stainless steel barrel with 50°C waterproof temperature control device to avoid overload.

3 Motor overload coil with 100°C temperature control device.

The new patented electronic regulator controller features

Stable water pressure will not have sudden change in flow and temperature

Switch will automatically switch off after 15 seconds without water flow

Patented dry off magnetic rods, combined with hollow valve and filter, special structural design. Magnetic wand will adjust according to water pressure.

Arc-type filters, combined with hollow valve to prevent debris stuck magnetic rods.

Electronic reed sensor switch is seamless, so it won't make noises.

Stands water pressure up to 12kg/c m<sup>2</sup>, over million times switch test to prove long durable life.

### 錫鴻企業股份有限公司 / Chang Hong Enterprise Co., Ltd.

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專利技術名稱

## 鑽孔機集塵罩

Dust Collection Cover

專利權人：陳朝陽 / CHEN, CHAO-YANG  
發明人：陳朝陽 / CHEN, CHAO-YANG



### 專利技術介紹：

1. 本鑽孔集塵罩產品有 46 國專利。
2. 產品榮獲 2014 年台北國際發明展競賽最高獎 - 鉑金獎。
3. 產品集塵效果 100%，操作簡單，只要將集塵罩套上電鑽，即可施工使用，省時又省力，產品系列適用各種廠牌電鑽。
4. 產品附有尺規，孔要鑽多深，尺就先設定多少公分。

### Patented technology introduction:

1. The World-wide Patent, Drill Dust Collector cover.
2. Winner of the 2014 International Exhibition of inventions Competition Platinum Award
3. 100% drill dust collection – lets your customers be worry-free, and keeps you healthy.
4. Simply attach directly to the drill and it is ready to use Fast & Easy, Saves time and energy.
5. Don't worry, this product fits all drill brands.
6. When finished drilling there is no need to clean up. Save sweeping up time.
7. With the easy-to-use guide you get the right depth every time!

### 陳朝陽 / Chen, Chao-Yang

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專利技術名稱

## 車床多偏心夾具

Lathe Multi-eccentric Cutting Fixture

Patent No: (R.O.C. 優先) 發明申請案號：102140627 號  
專利權人：建國科技大學 / ChienKuo Technology University  
發明人：周波 郭鴻耀 陳泓任 / Po Chou, Hong -Yao Guo, Hong-Ren Chen



### 專利技術介紹：

本實用性之創新發明，可透過徑向偏心量及環向角度偏移量之調整結構，即能使僅具備 XZ 雙軸向加工能量之 CNC 車床，進行多角度偏心加工如圖所示。  
市面上曲柄軸加工定單多，利潤高，而有能力接訂單的廠商卻不多，其原因就在於曲柄軸加工不易、切削製程煩雜、機具設備不足等問題，因此常造成工具機業者機床組裝生產線上缺料之問題。  
目前，製造業者曲柄軸普遍使用 CNC 臥式銑床或 CNC 車床進行切削加工，惟，直接使用 CNC 臥式銑床加工，具有下述缺點：(1) 工時過於冗長。(2) CAM 加工程式撰寫耗時。(3) 銑削偏心軸難以得到真圓度。(4) 製作多重偏心需經常更換夾具，精度定位不易。(5) 針對各種偏心軸皆需製作特殊夾具做夾持，夾具需求種類繁多大幅增加成本支出；而使用 CNC 車床加工時亦具上述諸多缺點。

### Patented technology introduction:

The innovative invention on application of special function mechanisms, most uses CNC lathes must have XZ axial machining energy for the cutting process for the crank shaft.  
The reasons are difficulty in crank shaft machining, cumbersomeness of the cutting process, shortage of machinery and equipment and other issues, which often cause problems in shortage of materials on the machine assembly line.  
Currently, CNC horizontal milling machines or CNC lathes are commonly used to do the cutting process for the crank shaft. Nonetheless, direct use of a CNC horizontal milling machine to process orders has the following disadvantages: (1). Working hours are too long. (2). CAM program is too long and takes time to write. (3). It is difficult to get a true circle from milling an eccentric shaft. (4). Making multiple eccentric cuts needs regular replacement of fixtures, positioning is not easy. (5). Production of special fixtures for clamping is required for each kind of eccentric shaft. A wide range of jigs in demand substantially increases costs.

### 建國科技大學 / ChienKuo Technology University

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專利技術名稱

## 骨傳導式無線音訊傳輸系統

Bone Conduction Hearing Aid

Patent No: (R.O.C. 優先) M476433

專利權人：陳清峰 / CHEN, CHING-FENG

發明人：陳清峰 / CHEN, CHING-FENG



### 專利技術介紹：

骨傳導式聽覺輔助裝置，專為不喜歡配戴傳統式助聽器，又有聽力困擾的人士使用，有別於傳統耳掛式產品，不需藉由耳內式或耳道式傳遞聲音，讓使用者可以輕鬆使用，輔助聽力障礙。

其原理為將聲音轉化為不同頻率之機械震動，透過頭骨等部位（如下頁圖一所示）直接震動中耳內三個聽小骨-槌骨（malleus），砧骨（incus）以及鐮骨（stapes），此震動會促使內耳中耳蝸的液體波動，進而刺激神經纖維產生神經電訊號後，傳至聽神經再由大腦判讀為聲音訊號。

使用方式為發話者持發話裝置，藉由藍芽無線傳輸至如話機外型之收話裝置。

收話者只需將 RX 上之喇叭，輕貼於臉頰即可清楚聽到發話者之聲音，可由 RX 上之音量鍵調整大小聲，使用完畢後，也只須關閉開關放回充電座充電即可再次進行使用。

### Patented technology introduction:

Bone conduction hearing aid device is designed for those who have hearing problems but don't want to wear traditional hearing aids. Different from the traditional ear-hook products, voice is neither transmitted by in-ear type nor by ear canal type headphone. The user-friendly design can greatly reduce inconvenience.

The design concept is to transform sound into mechanical vibrations in different frequency. Hammer bone (malleus), anvil (incus) and stapes (stapes) of the middle ear can receive the vibration through skull (as shown in Figure 1). The vibrations will fluctuate the liquid in the cochlea of the inner ear and then stimulate the nerve fibers to cause nerve electric signal which will be transmitted to the auditory nerve and interpreted by the brain as sound signals.

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專利技術名稱

## 多向式之發光散熱板材及燈具

A Multi-Directional of Lighting Heat Dissipation

Patent No: (R.O.C. 優先) 103109806、103204457

專利權人：遠東科技大學 / Far East University

發明人：鐘明吉、陳智成、蔡俊欽、朱清俊、吳俊毅、陳柏州、張振飛、陳詠璿、戴昭民  
Chung Min-Chi、Chen Chih-Cheng、Tsai, Chun-Chin、Chu Ching-Jiun、Wu Jun-Yi、  
Chen Po-Chou、Chang Chi-Chieh、Chen Yong-Xyuan、Dai Zhao-Min



### 專利技術介紹：

本創作將 LED 結合透明基板及遠紅外線散熱，使 LED 的照明不再侷限於單一方向，能作全方位之照明，使 LED 的發光效能被充分利用，大幅提升 LED 的照明效率。本創作將遠紅外線材料披覆於透明基板，以輻射的方式將 LED 發光產生之熱能輻射出去，可避免過高的工作溫度導致的發光效率下降及使用壽命縮短。

### 特點

1. 可多向發光，提高 LED 的發光效率
2. 遠紅外線輻射散熱效率高，可提高 LED 壽命
3. 不需散熱矽片，成本低
4. 發光散熱模組為插片狀，更換瓦數與換修容易
5. 遠紅外線對人體健康及植物生長有益，可作為植物燈

### Patented technology introduction:

This invention is LED integrated with transparent substrate and FIR radiation heat-dissipation so that LED is all orientation illumination. Thus, LED emission efficiency could be significantly raised up to enhance LED illumination efficiency.

### Features:

1. Multi-directional transmission to enhance illumination efficiency of LED.
2. Raise up LED lifetime by high heat-dissipation efficiency through infrared Radiation.
3. The cost is lower without heat sink.
4. The LED lamp is slot-type module for easy maintenance.
5. Far infrared light beneficial to human health and plant growth can be as plant lamps.

### 遠東科技大學 / Far East University

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專利技術名稱

## Interactive Wall

Inventor: Foundation for Research and Technology - Hellas (FORTH)  
Institute of Computer Science



### Patented technology introduction:

The Interactive Wall supports games that can be played by one, two or more players simultaneously, using their entire body. Players control the game using their virtual shadows which are projected on a large projection area and follow their body movements. This approach allows for maximum flexibility regarding the number, posture and size of players, as well as instantly joining and leaving the game, thus maximizing the opportunities for social interaction. Players have to use their shadows to direct specific items in (e.g., products) or away from (e.g., garbage) their baskets. Also, in some game variations players may also have to put different items in each different basket. During the game, the players get photographed by the system. At the end of the game a small printer prints out a voucher containing score information, a web address from which players can download their game photos as well as information about items for gifts or promotions earned during the game. In some installations an additional touch screen is also used as a means of seeing and immediately sending the photos to an e-mail address.

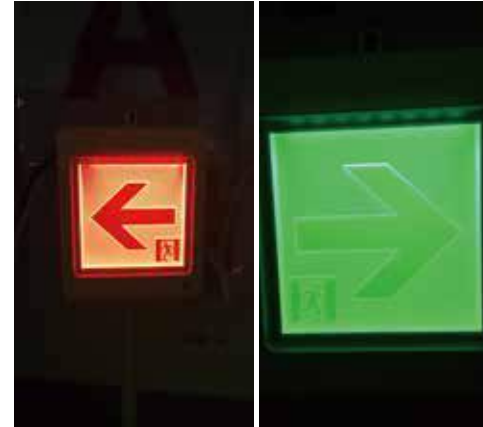
### Foundation for Research and Technology - Hellas (FORTH) Institute of Computer Science

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專利技術名稱

## 具有安全逃生指引機制之火災警示系統及其運作方法 Smart Emergency Exit System

Patent No: (R.O.C. 優先) App. No. 103113186 (R.O.C.)  
專利權人：修平學校財團法人修平科技大學 / Hsiuping University of Science and Technology  
發明人：許耿禎、許恩睿、林助訓、蔣忠誠、楊基鑫、陳政郁、葉嫻瑄、陳文城及林廷彥  
G. J. Sheu, E. R. Sheu, J. S. Lin, C. C. Chiang, C. C. Yang, Z. Y. Chen, P. S. Ye,  
W. C. Chen and T. Y. Lin



### 專利技術介紹：

因為火場溫度看不到，一旦發生火警，雖然當下有很多逃生出口可選擇，但並不是每一個出口都是安全的，倘若該出口是高溫危險的，錯誤的出口將造成人員傷亡甚至死亡。為避免逃往錯誤的逃生出口，本作品針對火場溫度分佈提供具安全評估及資訊傳遞的顏色導引，利用「紅、黃、綠」三種顏色來代表「危險、警告、安全」，提供逃生者於火場中透過視覺，快速判斷火場狀況，提醒民眾迅速前往安全的逃生出口，將人員的傷亡降至最低。

### Patented technology introduction:

A smart emergency exit system with security evaluation index, which comprises a temperature sensing unit disposed in an exit indicator for sensing the environmental temperature, in case of fire, a central processing unit will display different colors (green, yellow and red) warnings according to the nearby temperature to illustrate the security evaluation index, such that the trapped people can quickly determine the temperature distribution of the environment and the best escape exit, thus improving traditional escapes.

### 修平學校財團法人修平科技大學 / Hsiuping University of Science and Technology

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專利技術名稱

## 減能結構

Stress Relief Structure

Patent No: (R.O.C. 優先) 201421639

專利權人：工業技術研究院 / Industrial Technology Research Institute

發明人：錢睿宏、龍巧玲 / Jui-Hung Chien, Chiao-Ling Lung



### 專利技術介紹：

堆疊晶片系統中的熱機械問題一向是設計者或是製造者所遇到的重大挑戰，其中最嚴重的問題在於在製造過程以及操作過程中會碰到的熱循環。由於材料的機械性質之差異，對溫度的反應也有顯著的不同，例如 TSV 的熱膨脹係數約為 17 ppm/°C，矽晶片的熱膨脹係數約為 2.3 ppm/°C，二氧化矽的熱膨脹係數約為 0.5 ppm/°C。但是晶片的內應力卻對晶片造成的破壞，因此本專利設計了在晶片上以及在 interposer 間的架構，此發明裝置特徵在被此裝置所環繞之 TSV 不具電性連接至此裝置，同時此裝置也不具電性連接至其他主動元件。這樣設計的好處在於會使得溫度均勻度增加，在操作時的溫度即可迅速降低；同時已經利用錫球來平衡 TSV 的應力，將使得周圍的應力大幅降低。

### Patented technology introduction:

Stacking die technology using interposer with through-substrate-via technology has attracted a lot of attention due to various advantages in performance and integration. Interposers with through-silicon-vias (TSVs) are widely studied due to their excellent electrical properties. However, a high temperature environment during the fabrication process of TSV leads to uncontrollable thermal expansion, which then causes a serious reliability problem. In this patent, we present an efficient device and methodology to place micro bumps to reduce stress surrounding TSVs in appropriate positions that can minimize the total number of micro bumps needed. The applications of this patent show that significant reduction on the maximum stress can be achieved. Not only the proposed design can lower the maximum temperature of the hotspot, but improve the thermal uniformity of the test chip.

### 工業技術研究院 / Industrial Technology Research Institute

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專利技術名稱

## 電子鑰匙系統

Computer System With Electronic Lock

Patent No: (R.O.C. 優先) 台灣：發明第 I 438643 號。美國：US 8356348 B2

專利權人：英威康科技股份有限公司、林建志、黃科森

INWELLCOM TECHNOLOGY CO., LTD. LIN, JAIR JR. HUANG, KE SEN

發明人：林建志、黃科森、鄧易展 / LIN, JAIR JR. HUANG, KE SEN. TENG, I CHAN



### 專利技術介紹：

電子鑰匙系統 (SmartKey) 為軟硬體整合的資安防護系統，以特殊 USB 硬體取代傳統密碼輸入的方式登入電腦系統。SmartKey 已商品化並運用於：

1. 一般電腦：企業、政府機構、學校、個人。
2. 伺服器：檔案伺服器、機電系統（如電力、監視與消防系統）控制電腦、生產線控制電腦。

SmartKey 同時具備以下四大特點：

1. 記錄舉證：
  - A. 新一代系統安全稽核，記錄各項使用行為。
  - B. 安全與明確的身份認證機制。
2. 確保資安：
  - A. 使用者不需知道電腦帳號密碼，降低人為洩密或被竊取密碼的機率。
  - B. 具離線 (off-line) 紀錄機制，伺服器無法連線時，仍確保資安強度。

### Patented technology introduction:

Electronic lock (SmartKey) is a hardware-software integrated information security system. SmartKey uses the specific USB hardware to log-in computer systems instead of the traditional password authentication. SmartKey is a commercialized product and applied into two commercial areas as following:

1. General computers: Enterprise, government, school, and person.
2. Servers: File servers, electromechanical systems (e.g., electric power system, surveillance systems, and so on), and production-line control systems.

Also, SmartKey has four major features as follow:

1. Evidence recording
  - A. New generation of the systematic security auditing function that records each user behavior.

C. 具有檔案加密的功能，非授權狀況下無法存取檔案。

3. 立即管控：
  - A. 即時監視狀況。
  - B. 遠端設定與控制。
4. 掌控全局：
  - A. 資訊集中方便管理者使用。
  - B. Safe and definite ID authentication mechanism.
2. Information security defense
  - A. Password is unrevealed to users to reduce the possibility of information leakage and password theft.
  - B. Offline recording mechanism can ensure the information security level without connecting with SmartKey server.
  - C. File control and encryption can guarantee files against illegal accesses.
3. Instant control
  - A. Real-time monitoring users.
  - B. Remote setting and controlling computers.
4. Overall control
  - A. Administrators can easily manage and audit the centralized logs and records.

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專利技術名稱

## 即時監測標靶位置之放射治療系統

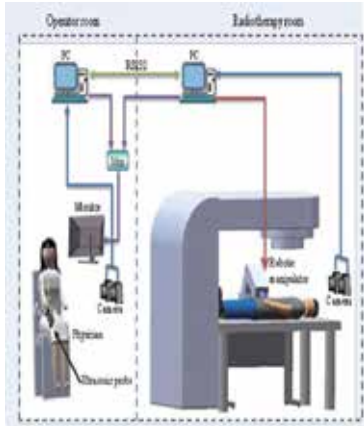
Radiotherapy System Adapted to Monitor a Target Location in Real Time

Patent No( 申請案號) : 100135708

專利權人：財團法人臺灣基督長老教會馬偕紀念社會事業基金會馬偕紀念醫院 / 國立臺北科技大學  
MacKay Memorial Hospital / National Taipei University of Technology

發明人：陳裕仁、張文中、劉家源、陳金聖

CHEN, YU JEN; CHANG, WEN CHUNG; LIU, CHIA YUAN; CHEN, CHIN SHENG



### 專利技術介紹：

目前臨床順形放射治療，在執行治療時，是以在治療前一段時間所做的電腦斷層數位影像，經複雜運算重組產生之射束眼，做為引導放射治療照射病灶之唯一依據。這種方式，有著無法於治療中即時重組影像進行影像對位驗證，與很難確定病灶標靶是否能於療程中，完全位于於射束範圍內等缺點。本發明結合六軸力量感測器之多自由度機械手臂、整合即時影像擷取器、視覺伺服及力量控制系統、影像對位系統等多種工具。在與放射治療設備結合後，將可以達到以適當醫學影像系統（如超音波），在執行順形放射治療實，即時監控放射病灶標靶之位置，確認放射病灶標靶是否已被涵蓋於各放射線角度組合之射束眼中。運用此專利技術，醫師能準確即時監測腫瘤位置，並可運用此系統提供之資訊，隨時調整照射參數。如此，臨床醫師將能夠把傳統放射治療計畫中，因彌補移動或其他不確定因素，於腫瘤外圍預留足夠安全邊界所需擴大的照射範圍明顯縮小，降低傳統放射治療對周圍正常組織的傷害，提升放射治療之安全性。尚能藉由多自由度機械手臂操作適當醫學影像系統，即時進形影像對位，監控確認腫瘤已正確被涵蓋於先前計劃之射束眼範圍，將可明顯降低傳統放射治療之不確定性，改善放射治療之準確度，達到提升療效的目的。

### Patented technology introduction:

This invention provides a radiotherapy system that can monitor a target location in real time. The radiotherapy system includes a remote control system operable to actuate a real-time image capturing device to acquire images in real time for monitoring the target location. The system includes an image registration system that can register the acquired image with an images previously captured for the treatment plan, whereby it can be determined whether the patient's tumor is in the beam's eye view of the treatment plan. By confirming that the tumor is in the range of the beam's eye view, the accuracy of the treatment can be improved, and the irradiated area can be reduced, which makes the radiation treatment safer.

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專利技術名稱

## 太陽能面板之表面塗覆方法

The Surface Coating Method of Solar Panel

Patent No: (R.O.C. 優先) 101149003

專利權人：國立勤益科技大學 / National Chin-Yi University of Technology

發明人：鄭文達、徐建智 / Jheng,Wern Dare、Hsu,Chien-Jhhih



### 專利技術介紹：

本研究發明成功地領先世界開發出一款極具市場競爭力的“彩圖太陽能板”，它的圖案可以隨顧客需求千變萬化的烙印於太陽能電池表面，擺脫掉原本太陽能電池常因美觀不足，難登大雅之堂的窘境。想像如果大樓的裝飾牆、公共區域裡的藝術看板、道路兩旁吸睛的廣告丁壩，都可以源源不絕地產出大量的太陽能電力，將是綠能的最佳實踐範例。在創新性上，現階段的太陽能相關產品都僅強調具發電之功能，並未著墨於美學的考量，本創作導入錯置圖層與奈米偏光薄膜的技術後，做出了全世界第一個兼具美麗圖案與高效率轉換的太陽能電池。在技術成熟度方面，經完整的學理探討與多次的作品測試後，已驗證有充分的技術成熟度可投入該產業。

### Patented technology introduction:

We are proud to introduce you our industry leading innovation, “The Colourful Solar Panel”, which the photographic overlay can be customised according to the variety of client needs, removing itself from the stereotyping abyss in lack of aesthetic beauty in conventional solar panels. Imagine the panel decoration of building and monument walls, artistic panel display in public domains, billboards on the side of roads and on buildings, the endless production of power through solar will be the actualisation of green energy with high practicality. Currently, solar panels have been focusing on power generation and has not focused as much on the aesthetic aspect of it. This creation integrates “misplaced layers” and “nano-polarized film” technology which results in the world's first solar panel with visually pleasing photographic overlay while maintaining high powered generation performance. In technical maturity, the technology has been deemed by academic studies and extensive prototypes and tests to be fully mature and commercially viable.

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專利技術名稱

## 新穎肌肉增強子序列及其應用

A Novel Muscle Enhancer Sequence and Applications Thereof

Patent No: I 402343 (Taiwan, R.O.C.); 1369854 (China)

專利權人：國立臺灣海洋大學 / National Taiwan Ocean University

發明人：龔紘毅、陳鳴泉、吳金冽、黃士晉

Hong-Yi Gong, Ming-Chyuan Chen, Jen-Leih Wu, Shih-Chin Huang



### 專利技術介紹：

本發明係關於一種來自斑馬魚肌肉型肌酸激酶 *ckmb* 基因之新穎肌肉增強子序列及其應用。本專利技術之肌肉專一性表現單元，包含一個肌肉專一性啟動子及一至數個可提升啟動子活性之強烈肌肉增強子，可驅動螢光蛋白或功能性蛋白基因在斑馬魚、神仙魚及尼羅吳郭魚之肌肉強烈表現。應用此新穎魚類肌肉專一性表現單元成功開發出全世界第一個表現臺灣軸孔珊瑚紅色螢光蛋白之粉紅神仙魚品系。並可進一步應用於發展基因轉殖吳郭魚做為生物反應器，以肌肉做為表現組織生產水產養殖產業及醫藥用之重要重組蛋白或生物材料。此專利技術之應用可包含新穎中大型螢光觀賞魚開發、促進生長或抗病之功能性飼料添加物開發、開發吳郭魚大鱗片（直徑大於 2 公分）做為人工生物眼角膜之生物材料，及 DNA 疫苗開發等。

### Patented technology introduction:

This invention patent relates to a novel muscle enhancer sequence identified from zebrafish muscle-type creatine kinase gene *ckmb* and its applications. The technology "muscle-specific expression element" composed of a muscle-specific promoter and one to several copies of strong muscle enhancer to enhance promoter activity, can be used to strongly express fluorescent protein or functional protein genes in the muscles of zebrafish, angelfish (*Pterophyllum scalare* var.) and Nile tilapia. This technology was successfully applied to establish the world's first transgenic pink angelfish line expressing Taiwan Acropora coral red fluorescent protein. Furthermore, it can be applied to establish transgenic tilapia as bioreactor by using skeletal muscle as expression tissue to generate critical recombinant proteins or biomaterials for aquaculture or biomedical industry. Applications of this patented muscle enhancer expression technology can include establishment of novel middle- or large-sized fluorescent ornamental fish, development of functional feed supplement to promote growth or disease-resistance, development of large scales (diameter >2cm) of tilapia as biomaterials for artificial bio-cornea and DNA vaccine development.

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專利技術名稱

## 耐隆複合纖維及其織物

Nylon Composite Fiber and Fabric Thereof

Patent No: (R.O.C. 優先) 102131343

專利權人：財團法人紡織產業綜合所 / Taiwan Textile Research Institute

發明人：陳威宏、林維朋、陳泰佑、柯達、鄭筱雯、安大中

Wei-hung Chen, Wei-peng Lin, Ta-Yo Chen, Ta Ko, Hsiao-wen Cheng, Ta-chung An



### 專利技術介紹：

發明是一種以植物成分為原料的生質耐隆纖維與紡織品，利用生質耐隆本身的特點，結合複合紡絲技術，研製出自發捲縮率超過 30% 的新耐隆纖維，採用這種纖維所做成的紡織成品布，無須添加 SPANDEX 彈性纖維，就能具備高達 92% 的彈性回復率，搭配紡織所與業者共同開發的十字斷面與高中空率兩種機能性生質耐隆纖維，開發出多項生質系紡織產品，如輕量型保暖外套，口袋式雨衣與環保瑜珈服等。利用生質耐隆纖維製作的紡織品，不僅具備比傳統耐隆紡織品更輕，更耐磨的機能特性，以蓖麻油取代石油做為原料來源，也能減少石油消耗，降低產品的碳足跡，是未來重要的環保低碳技術。

### Patented technology introduction:

The global market for plant-based products, or so called bio-based products is anticipated to grow greatly. More and more brands have chosen bio-based materials to produce their products for environmental sustainability and corporate identity. On the other hand, some certification authorities, ISCC for example, had already prepared a lot of regulation rules for sustainability and industrial carbon footprints. Nylon is one of the most important man-made fibers in the world. This invention, we developed a high self-crimping bio-based nylon ber and elastic textiles. The crimp rate of this bio-based nylon fiber is over 30%, and the percentage fabric growth after static extension is 92% without Spandex. We also innovated a hollow fiber which has hollow ratio over 20%, and a cross section fiber. With these innovative fibers, we developed lot kind of bio-based nylon textiles, for example, warm jackets, yoga clothes and pocket rain coats.

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專利技術名稱

## 光波治療裝置

“TRANS” Infrared Laser Light Irradiation Instrument

Patent No: (R.O.C. 優先) M463128

專利權人：何國梁 / HO KO-LIANG

發明人：何國梁 / HO KO-LIANG



### 專利技術介紹：

一種光波治療裝置，包括機台、支架、燈罩及數個光源模組，該支架包含一固定桿、一活動桿、一轉動桿及一多向調整機構，該固定桿設置於該機台，該活動桿可上、下擺動的樞接於該固定桿，該轉動桿可轉動的樞接於該活動桿，該多向調整機構連接於該轉動桿與該燈罩之間，該些光源模組設置於該燈罩。燈罩及光源模組可隨使用者需求任意調整高度及角度，使用上更為方便。

### Patented technology introduction:

This creation shows the effect of interaction between Laser Light Irradiation and the tissue. It is composed of many light source modules to irradiate a large area with the purpose of providing a Laser Light Irradiation Treatment over a large area which is aimed at the diseased part of the human body, such as mitigation of inflammation, muscle pain, neuralgia and other pains.

Simplifying the device can reduce not only the cost of production at the side of manufacturer but also the consumables at the side of customer, resulting in significant cost-down therapy.

The efficacy of the device can reduce the time of patients seeking treatment, easy operation and maintenance.

The auxiliary wheels at the end provide easy movement of the device. The irradiation plate is adjustable in height and angle. It is very comfortable in operation for irradiation of large areas or the head.

### 衡奕精密工業股份有限公司 / Transverse Industries Co., Ltd.

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專利技術名稱

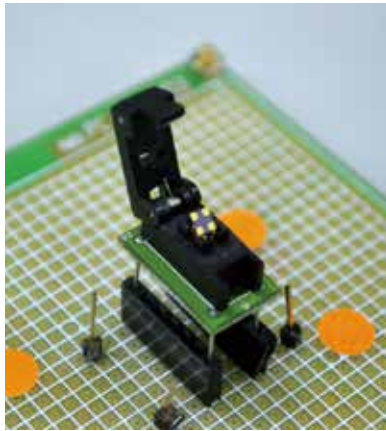
## 振盪器模組及其訊號校準方法

Oscillator Module and Signals Calibrating Method

Patent No (R.O.C. 優先) 103146411

專利權人：中原大學 / CHUNG YUAN CHRISTIAN UNIVERSITY

發明人：陳世綸、段閔鈞 / Shih-Lun Chen, Min-Chun Tuan



### 專利技術介紹：

振盪器是電子產品中非常重要的關鍵零組件，每隻智慧型手機約需 6~8 個振盪器，全球需求量 100 億顆。本發明係由一頻率產生器、一訊號校準器、一多工器及一控制器所組成。本產品之振盪器模組利用頻率與相位相同於振盪器所產生之介面控制訊號，進行振盪器內部參數及校正功能設定，相較於傳統振盪器晶片設計，本發明能有效省卻一個進行非同步訊號處理之電性腳位，能有效達到降低百分之二十以上之晶片成本與提高二倍以上頻率校準效率之進步性。

### Patented technology introduction:

#### DOUBLE YOUR OSCILLATOR PERFORMANCE!

Oscillator is a kind of significant components in electronic products. World demand for oscillators is more than 10-billion pieces per year. The Oscillation module in this invention is calibrated by using interface control signals to set calibration parameters and functions, in which the frequency and phase are the same as the reference clock pulse signal generated by the oscillator. As a consequence, an electronic pin used in processing asynchronous signals can be saved. This invention reduces by more than 20% the cost of the oscillator chips and doubles performance when calculating the frequency of oscillators.

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專利技術名稱

## 立體成型機構之控制方法

Control Method of Three-Dimensional Make-UP Machine

Patent No (R.O.C. 優先) I424917

專利權人：研能科技股份有限公司 / MICROJET TECHNOLOGY CO., LTD.

發明人：奚國元、林景松、羅宏權、吳瑞益、陳偉鈺 / Kuoyuan Si, Jinsoung Lin, Hongchuang Lo, Ray-Yi Wu, Wei-yu Chen



### 專利技術介紹：

研能科技全球首創垂直整合自有噴墨頭與全彩科技的 3D 列印技術。將落地型粉末機台簡化成桌面級的尺寸，並利用 APP 遠端監控能輕鬆掌握列印進度及機台狀況，使 3D 列印更加智慧與生活化。保有原有落地型機台的高效列印效能，利用系統提供的列印軟體，將 3D 檔案做切層。再逐一將各切層的圖案，於石膏基複合粉末上噴印上膠，利用印刷四分色 (CMYK) 以作調和，達到真正全彩 3D 列印效果，然後再佐以後處理劑增加強度或光澤，以快速製作出原型 3D 實體。

### Patented technology introduction:

#### GET THE APP ON REMOTE PRINTING!

ComeTrue® T10 is an innovative 3D printer integrated with Microjet's own designed inkjet printhead and rapid prototyping technology. In pursuit of user-friendly benefits, we take advantage of the APP remote monitor to control the printing process and the condition of the machine while retaining high efficiency with the stand-alone desktop 3D printer depositing a liquid binder onto thin layers of plaster-based powder with CMYK model to achieve full-color effect. Then, the completed work will be infiltrated with varied infiltrates to make parts tough and polished.

### 研能科技股份有限公司 / Microjet Technology Co., Ltd.

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專利技術名稱

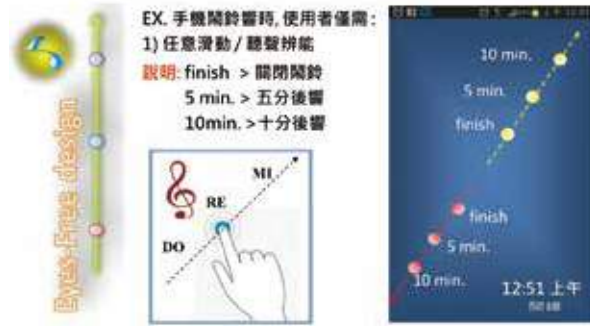
## 觸控螢幕之滑動操作方法

Slide Operation Method for Touch Screens

Patent No: (R.O.C. 優先) I493411

專利權人：國立臺中科技大學 / NATIONAL TAICHUNG UNIVERSITY OF  
SCIENCE AND TECHNOLOGY

發明人：李國璋、李應註 / Kuo-Wei Lee, Ying-Chu Lee



專利技術介紹：

本發明係在一滑動操作中嵌入複數個聲音訊號 (如音階“DO”，“RE”，“MI”)，該複數個聲音訊號再連結複數個產品功能 (如“DO”連結“播放音樂”、“RE”連結“開啟相機”、“MI”連結“連上網路”)。當使用者手指在螢幕任意滑動時，聽到音階“DO”手指離開螢幕即啟動「播放音樂」；當使用者手指繼續滑動聽到音階“RE”時手指離開螢幕即啟動「開啟相機」(音階“MI”亦類推)。如此使用者可藉由「聽覺辨識」而非「視覺辨識」操作智慧型手機各種功能，故該設計稱為「Eye-free design」。

Patented technology introduction:

### SOUND TOUCH YOUR SMART PHONE!

This invention introduces a method of sliding operation in which multiple sound signals are employed (e.g. the musical note “DO”，“RE”，“MI”)。These multiple sound signals are linked to multiple product functions (e.g. the musical note “DO” linked to the function of “music player”，“RE” linked to “camera”，“MI” linked to “Internet”)。When a user slides his finger on the screen, the musical note “DO” is heard. If the user releases his finger when the sound “DO” is heard, the function of “music player” will be executed. If the sliding is continued, a sound signal “RE” is heard. If the user releases his finger when the sound “RE” is heard, the function of “camera” will be executed (the musical note “MI” is deduced by analogy)。Thus, the users can execute the product functions for smart phones based on auditory instead of visual recognition. Therefore, it is all called “Eye-free design”。

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專利技術名稱

## 面部表情、情緒、姿勢偵測軟體

C@N eMotion - Face Expression and Emotion Recognition Software

Patent No: (R.O.C. 優先) P20140943A

專利權人：CITUS d.o.o.

發明人：CITUS d.o.o.



專利技術介紹：

非觸控式的螢幕互動軟體，偵測面部表情和情緒，運用在多媒體互動的電子產品，使用者無須用手指碰觸螢幕，僅用手勢、面部表情等即可變換畫面以查詢資訊或玩遊戲，或變換廣告畫面。當偵測到消費者即將離開現場，此發明系統會馬上發出“特賣訊息”以挽留消費者繼續駐足觀看廣告。

Patented technology introduction:

### BOY! C@N MAKES YOUR BODY LANGUAGE INTERFACE!

C@N eMotion is part of C@N Motion – Interactive Multimedia Solution with Gesture Controlled User Interface. C@N Motion provides an innovative and attractive way to use the body to control user interface on multimedia that can provide an information, advertising and entertainment in public places, without the need for a person to touch it! C@N eMotion is one of the latest additions to the list of the different modules that C@N Motion provides – it enables face expression and emotion recognition. C@N eMotion enable the following scenarios:

- 1) Use of content according to recognized emotions – if a user is sad, module will show “cheer up” content; if a user is confused, module will offer a “help” etc.
- 2) The evaluation and ranking of content to the achieved customer reaction – if the specific content thrilled users, module will rank that content positively and will offer it more often; if the specific content has caused negative responses from the user module it will hide that content.
- 3) „Last-second-offer “ – detection when person move her/his head in an effort to leave, C@N Motion can draw person's attention and provide “last-second-offer” like: “If you choose to buy this mobile phone now, we will offer you 10% discount!”

CITUS d.o.o.

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專利技術名稱

## 遠距離量測裂縫之方法及其裝置 Device for Measuring Cracks Remotely

Patent No: (R.O.C. 優先) I482943 / US 8908195 B2

專利權人：財團法人國家實驗研究院 / NATIONAL APPLIED RESEARCH LABORATORIES

發明人：張文鎰、林聖峰、李隆正、蕭宏達、陳守義、宋裕祺、廖泰杉、陳志彥 / Wen-Yi Chang,

Franco Lin, Lung-Cheng Lee, Hung-Ta Hsiao, Shou-I Chen, Yu-Chi Sung, Tai-Shan Liao, Chih-Yen Chen



### 專利技術介紹：

本產品「雲端光學遠距離裂縫測量儀」係整合雷射光點投射定位技術與智慧型手機/相機行動運算技術，能遠距離拍攝裂縫及立即影像分析，精確度高且具安全性。Android 手機版輕巧實用，適合一般民衆居家使用；Android 相機版 (21 倍光學變焦) 量測精度高，適合專業檢測人員業務使用。而兩款機型均搭配專業之裂縫影像辨識 APP 軟體，能讓使用者拍照後立即進行裂縫影像分析，操作既簡單又快速，為房屋安全鑑定及橋梁裂縫檢測的量測利器。

### Patented technology introduction:

#### SEE ALL THE CRACKS FROM THIS CLOUD!

Integrating the unique laser-positioning technique with the computing ability of Android devices, this product "Cloud-based optical remote crack-measuring device" can accurately measure cracks remotely and safely. The Android smart-phone version is light and handy, being suitable for general use. The Android camera version (21x optical zoom) can measure cracks precisely, being suitable for professional use and is equipped with its own-developed professional crack-recognition APPs, users can immediately spot crack images with ease. It is especially useful for crack measurements in building safety assessments or bridge crack inspection at anytime and anywhere.

### 財團法人國家實驗研究院國家高速網路與計算中心 / National Center for High-Performance Computing, National Applied Research Laboratories

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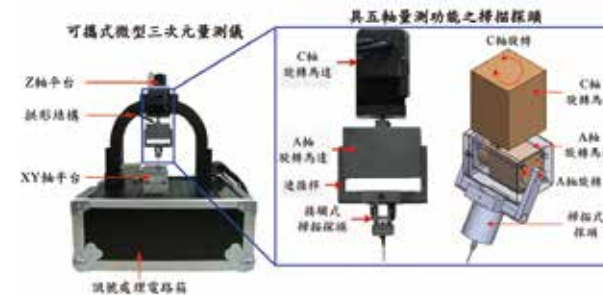
專利技術名稱

## 具五軸量測功能之掃描探頭 Scanning Touch Probe with 5-axis Measuring Functions

Patent No: (R.O.C. 優先) I495839

專利權人：南臺科技大學 / SOUTHERN TAIWAN UNIVERSITY OF SCIENCE AND TECHNOLOGY

發明人：朱志良、陳泓錡、賴冠文 / Chih-Liang Chu, Hung-Chi Chen, Kuan-Wen Lai



### Patented technology introduction:

#### MICROBEAM SCANNER MAKES IT BETTER!

The development of the scanning touch probe consists of three parts: mechanism design, optical path design and rotation structure design. The mechanisms of probe have three parts: the XY-axis system, Z-axis system and stylus agency. The design of the XY axis system is used by micro beams, also a live center is installed in the center of the structure to inhibit the Z-axis displacement error, and to guide the displacement to the Z-axis system. This causes only XY-axis angle changes and Z-axis vertical movement as the probe contacts with the work piece, so as to achieve the three functional measures. In a optical path design, a laser diode is used as a light source as well as PSD (Position Sensor Detector). They are adopted as sensing components that are integrated with the aforementioned mechanisms. A servo motor is used as a driver in rotation structure, a ball bearing is used as a guiding elements with the rotating mechanism motor's driver, it can achieve five-axis measurement control and complex surface measurements.

本發明為一具低成本、高精度、低觸力與五軸量測功能之掃描探頭，於量測探頭部分突破現有接觸式探頭設計上的瓶頸，將量測誤差與全方向等剛性的概念應用於探頭結構設計上，並採用自行研發的超精密光學式位置感測系統，再整合以 AC 軸伺服馬達回授控制系統為驅動源之旋轉機構，此設計能達到三次元量測儀獨立量測，使三次元量測儀在掃描量測時，因本身結構、重量所導致的動態誤差降到最小，有效提升量測精度。

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專利技術名稱

## 具無線充電之太陽能行動電源

Solar Wireless Portable Power

Patent No (R.O.C. 優先) M507104

專利權人：國立勤益科技大學 / NATIONAL CHIN-YI UNIVERSITY OF TECHNOLOGY

發明人：鄭文達 / Wern-Dare Jheng



### 專利技術介紹：

本發明首創 - 彩圖 + 太陽能電池 + 行動電源 + 無線充電。  
結合無線充電裝置的行動電源是一項便利的發明，將會隨著近期 Apple Watch、智慧型手機等產品的導入而大放異彩。但無線充電雖為便利卻會比傳統接線式充電法更為耗電許多，實難符當前世界倡導節能的前題。因此，本產品將導入太陽能電池去取代市電，使綠能電力源源不絕的注入行動電源中。另外，會將美麗的彩色圖樣以特殊的奈米技術塗佈於太陽能電池表面，使該產品能集美觀、實用與節能於一體。

### Patented technology introduction:

#### SOLAR RECHARGER FOR ALL WEARABLES!

First create - Colorful pattern + Solar cell + Portable power + Wireless charging

The wireless charging and portable power combination is a convenient invention. It is compatible with the recent Apple Watch, smart phones and other products widely used. Although wireless charging technology will be more convenient, it also uses more electricity. Therefore, this product uses solar cells as a source of power, so an endless supply of green electricity can be injected for portable power.

In addition, the product uses nanotechnology to solar cells combined with the color pattern for integrated appearance and practical energy saving.

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專利技術名稱

## 一種定量肝殘餘功能的檢驗方法與其新穎肝受體造影檢驗藥劑

A more Sensitive Liver Reserve Measurement for Decision Making of Liver Surgery

Patent No (R.O.C. 優先) I391144

專利權人：行政院原子能委員會核能研究所 / INSTITUTE OF NUCLEAR ENERGY RESEARCH, ATOMIC ENERGY COUNCIL

發明人：王美惠、林武智、簡傳益、于鴻文、李玲子、李遠川 / Mei-Hui Wang, Wu-Jyh Lin, Chuan-Yi Chien, Hung-Man Yu, Reiko Takasaka Lee, Yuan-Chuan Lee



運用新穎具肝標靶特性之肝受體造影劑與肝殘存功能定量之方法，作為臨床判定肝衰竭預後之檢驗指標，可及時篩檢出急性肝衰竭急需換肝的病患，特別是針對那些無法康復的病患才給予肝移植手術，以避免有潛力存活者卻必須終生吃抗排斥藥的痛苦。

### Patented technology introduction:

#### DO YOU NEED A LIVER JOB?

A novel liver targeting agent for measurement of functional liver reserve. It is a reliable indicator of medical decision for a liver transplant or hepatectomy, and particularly beneficial for selection of real patients in need of liver failure for liver transplants and preventing patients from usage of anti-rejection drugs because of unnecessary surgery.

### 行政院原子能委員會核能研究所 / Institute of Nuclear Energy Research Atomic Energy Council, Executive Yuan

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專利技術名稱

## 具有保濕功能之寡醣肽、其製造方法及其保濕配方

A Method to Produce Oligosaccharide Peptides with Moisturizing Capabilities and Formula

Patent No (R.O.C. 優先) I477293

專利權人：大葉大學 / DA-YEH UNIVERSITY

發明人：謝昌衛、黃義翔、蔡佳君 / Chang-Wei Hsieh, Yi-Hsiang Huang, Chia-Chun Tsai



專利技術介紹：

多醣肽 (PSP) 特殊的結構帶來了如抗發炎、保濕等生理功能。本研究利用專一性酵素 ( $\beta$ -1, 3-D-glucanase) 水解雲芝醣肽 (PSP) 得到易被人體吸收 (3 kDa) 之高保濕以及抗氧化性美容保養品添加原料 - 雲芝寡醣肽 (TOPTM)。其保濕度較玻尿酸高出 1.2 倍，抗氧化能力可達到維他命 E 之 3 倍且不會對皮膚產生刺激性並減少紅斑等情況。此研究報告已發表於國際研究期刊，通過兩項中華民國專利認證 (I437999; I477293)。並藉由科技部研究計畫 (102WFD1100178) 支持技術轉移國內生技業者進行生醫保養品產品開發。

Patented technology introduction:

**A NEW LOOK IN SKIN CARE!**

The present innovation is supported by the Ministry of Science and Technology (102WFD1100178). Also, this innovation is the first time for use of special enzyme engineering. We apply the specificity  $\beta$ -1, 3-D-glucanase hydrolysis T. versicolor PSP, and control molecular weight can be absorbed into the skin (3 kDa) of T. versicolor Oligosaccharide peptide (TOP). For TOP, functional evaluation testing and human clinical trials. According to the result of antioxidant activity, TOP is better than other normal antioxidant activities, such as Vitamin E and Vitamin C. After the safety and smear test by human skin, the results show that TOP does not produce skin irritation, its also can reduce erythema irritation and related problems. Its moisturizing ability can partly substitute hyaluronic acid (extract from animals) and be used in skin care products. It also makes functional emulsions and has received 95% positive consumers feedback and more than 90% of the people feel improvements. It has the two patents (I437999; I477293), the results of which have also been reported in international journals. The recognition of the patent and rigorous empirical effects, prove this material is a useful skin care product.

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專利技術名稱

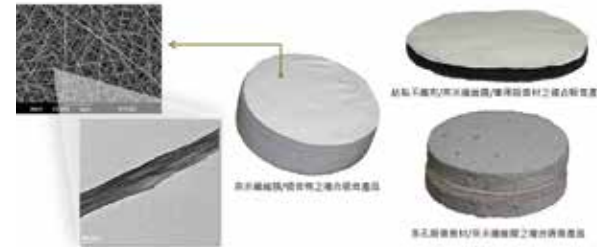
## 吸音材料

Acoustic Absorbing Material

Patent No (R.O.C. 優先) 104107705 (專利審核中)

專利權人：國立臺灣科技大學 / NATIONAL TAIWAN UNIVERSITY OF SCIENCE AND TECHNOLOGY

發明人：吳昌謀、周珉卉、李俊毅 / Chang-Mou Wu, Min-Hui Chou, Jiunn-Yih Lee



本發明具有壓電特性的靜電紡絲奈米纖維膜，不需透過複雜的結構設計即可達到中低頻段的噪音吸收，與傳統型的吸音材料相比，此材料的厚度非常薄。當本發明之具有壓電特性的靜電紡絲奈米纖維膜與其他具有吸收高頻特性之材料相互結合，可達到絕佳優異的全頻段聲音的吸收，成為一種具有極高潛力之新穎吸音材料。

Patented technology introduction:

**CUT THE NOISE WITH THESE MEMBRANES!**

The invention of electrospun piezoelectric nanofibrous membranes can absorb sound at low and middle frequency without complex structures. Compared with traditional materials, the thickness of electrospun piezoelectric nanofibrous membranes is only 300  $\mu$ m. Furthermore, when this invention combines with other sound absorbing materials the composite materials can absorb sound at full frequency. It's a unique material with high potential.

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專利技術名稱

## 電熱水器

Electrical Water Heater

Patent No (R.O.C. 優先) M498298

專利權人：麗源光電(股)公司 / HEATINGTEC CO., LTD.

發明人：顏家欣



### 專利技術介紹：

本發明專利係於電熱水器之內部加熱體採用石英薄膜加熱管技術，石英加熱管發熱升溫快，不易結水垢，石英絕緣體無漏電問題，且具耐高溫耐酸鹼特性，熱轉換效應達98%，比傳統的發熱器省電，加熱更迅速。

### 產品優點：

- 負離子功能：有效淨化環境空氣。
- 加熱器耐用期限長，可保固三年：石英加熱管發熱技術採石英管耐高溫、耐酸鹼特性，故電熱器發熱品質穩定。
- 變頻技術：電腦會偵測需求溫度與入水溫度自動調整成適當的用電功率。
- 玻璃觸控面板技術：LED 數位觸控面板可依需求調節水溫高低。
- 專利薄膜加熱管技術：不同於傳統金屬發熱管，無重金屬釋出也不會結水垢。

### Patented technology introduction:

#### QUARTZ WATER HEATING IS FASTER, GREENER AND SAFER!

This patented internal water heater applies a quartz heating tube tech to heat water faster than traditional electric water heaters. The quartz insulator has no water leakage problems and offers high heat efficiency through its acidic properties. Most important, it cuts energy use by 98% on traditional heaters!

#### Product Benefits

- **Anion:** Effectively purifies ambient air
- **Durable quality:** Quartz heating tube heating tech suited for high temperatures and acids for stable heating.
- **Inverter technology:** Computer detects needs incoming water temperatures and adjusts to required heat.
- **Glass touch panel technology:** Easily adjusts to required temperature with use of LED touch panel.
- **Patented film heating tech:** Unlike traditional metal heat pipes, no heavy metals are released.

### 麗源光電(股)公司 / Heatingtec Co., Ltd.

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專利技術名稱

## 氣壓式開瓶裝置新結構

Pneumatically Operated Wine Bottle Opener

Patent No (R.O.C. 優先) M479307

專利權人：華稜製造有限公司 / YUAN SHINE ENTERPRISE CO., LTD.

發明人：高璋彤 / Wei-Tung Kao



### 專利技術介紹：

本創作係有關於一種氣壓式開瓶裝置新結構，由握持部、氣閥部、灌氣部、套合部所組成。當將套合部套合於酒瓶瓶口處，使灌氣針刺穿瓶口處的軟木瓶塞而伸至酒瓶內，使高壓氮氣瓶中的氮氣由灌氣針進入酒瓶中，將軟木瓶塞往瓶口方向推出，可輕鬆省力的將酒瓶打開飲用。

### Patented technology introduction:

#### A BETTER CORK CREW ARRIVES!

A pneumatically operated wine bottle opener includes a holding unit, an air valve unit, an air injection unit, and a mounting member. The holding unit includes a hollow grip and a high pressure nitrogen bottle. The air valve unit includes a valve seat and a compressed nozzle module. The air injection unit includes a hollow air duct, a hollow push rod, and an air injecting needle. The mounting member has a through hole and a hollow slot, and the hollow push rod of the air injection unit is extended through the hole of the mounting member. Thus, the cork is pushed upward by the thrust force of nitrogen from the high pressure nitrogen bottle and is detached from the wine bottle smoothly so that the cork will not be broken and will not produce chips during the opening process.

### 華稜製造有限公司 / Yuan Shine Enterprise Co., Ltd.

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專利技術名稱

## 節能螺旋推進器

Fixed Floating Water Turbine Power Generation Unit

Patent No (R.O.C. 優先) M457070

專利權人：高苑科技大學 / KAO YUAN UNIVERSITY

發明人：王俊超、陳邦家 / Chin-Chao Wang, Bang-Jia Chen



專利技術介紹：

本作品係將內嵌有螺旋葉片之轉子，置於定子電樞內，因此節能螺旋推進器整體之體積有效地縮減，深具節能及高效率。

Patented technology introduction:

### SAVE ENERGY WITH THIS PROPELLER!

This innovative energy-saving screw propeller uses a rotor system with a hollow multi-pole permanent magnet ring element embedded with high efficient hollow helical blades.

專利技術名稱

## 變速裝置

Variable Speed Device

Patent No (R.O.C. 優先) 104113594

專利權人：國立虎尾科技大學 / NATIONAL FORMOSA UNIVERSITY

發明人：黃社振、賴志維 / Shen-Jenn Huang, Zhi-Wei Lai

專利技術介紹：

本發明技術在於提供一種變速裝置，此一兼具體積小及高速比變速的新發明，應用範圍廣泛、均可增速與減速、易組裝並可補償背隙、多偏心設計降低振動及可提高滑動順暢性等優點。特別是多偏心的設計可降低單偏心產生的振動，雙乘積之高變速比及錐度的設計使組裝容易，並可補償背隙，齒形設計的創新曲線更具有低接觸力與耐疲勞功能。



Patented technology introduction:

### PUT AN END TO BACKLASH WITH THIS VARIABLE SPEED DEVICE

This invention is a variable speed device that combines the compact size of high-speed ratio transmission with a wide range of applications to increase and decrease speed. It is easy to assemble and compensates for backlash with a multi-eccentric design that reduces vibration and improves smoothness and prevents sliding. Its multi-eccentric design reduces vibration generated by a single eccentric, double product of high speed ratio and its tapered design makes it easy to assemble to mitigate back lash. Its innovative tooth profile curve design has low contact force and resists fatigue.

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專利技術名稱

## 頭枕結構

Headrest Structure

Patent No (R.O.C. 優先) M495968

專利權人：吳俊宏 / CHUN-HUNG WU

發明人：吳俊宏 / Chun-Hung Wu



### 專利技術介紹：

據美國心臟學會資料，每年 36 萬例到院前心跳驟停，僅 9.5% 存活。如立即急救並以自動體外心臟去顫器 (automated external defibrillator) 電擊心臟，使心臟恢復正常心律，病患就能存活下來。若未能在 4 到 6 分鐘內急救，即使存活其腦部留下不可恢復傷害。

交通載具與人活動軌跡重合，若有高機動性去顫器設於其上將是醫療急救利器。本發明將自動體外心臟去顫器設置於座椅頭枕結構中，當救難時抽離座位使用，增加 AED 實用性，於第一時間內及時對心臟驟停患者進行急救處置。

### Patented technology introduction:

#### IT'S PORTABLE AED SAVE LIVES!

According to the American Heart Association, some 360,000 out-of-hospital cardiac arrests occur each year, with only 9.5 percent surviving. Those patients can survive if they are given cardiopulmonary resuscitation (CPR) immediately and receive electroshock by the automated external defibrillator (AED) to terminate the state of ventricular fibrillation to lead the heart back into normal rhythm. Additionally, if the patient cannot be treated properly in 4 to 6 minutes, even if they can survive this cardiac arrest, their brain will suffer unrecoverable damage which may result a persistent vegetative state. The fixedly assembled AEDs installed in buildings are immobile, thus reducing significantly the usefulness of the AEDs.

Transportation has enabled humans to travel to almost anywhere in the world. Consequently, assembly of high mobility AED apparatuses onto the transportation for better implementation of the AED apparatuses is an urgent necessity. The invention is related to a headrest structure with AED assembled therein.

According to the invention, the AED is installed in the body of the headrest structure, and the headrest structure can be detached from the seat when necessary. Therefore, the applicability of the AED can be improved, and victims of sudden cardiac arrest can be treated promptly and properly.

### 吳俊宏 / Chun-Hung Wu

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專利技術名稱

## 嬰兒呼吸安控系統 (BBS)

Baby Breath Safe (BBS)

Patent No (R.O.C. 優先) 1503001695

專利權人：泰國法政大學 / SUPAWADEE TUBGAM

發明人：Ms. Supawadee Tubglam (Leader)



### 專利技術介紹：

寶實呼吸安控系統 (BBS) 是設計來監控嬰兒的呼吸頻率和在嬰兒呼吸暫停時，產生刺激使嬰兒恢復呼吸功能。

BBS 是由三個部分組成，顯示器、警報功能和刺激功能。

顯示器將測量寶實每分鐘的呼吸頻率，警報系統用以檢測呼吸頻率是過快或過慢，如果嬰兒出現呼吸暫停時，顯示器將觸發兩種功能：警報功能迅速提醒工作人員緊急處理及提供輔助信號刺激嬰兒的腳和背部，促使嬰兒恢復呼吸。

BBS 的發明設計將即時顯示嬰兒呼吸速率並將數據發送到智慧型手機或電腦。BBS 提供一個實用有效的監控系統，平時可記錄嬰兒的呼吸頻率，亦可於嬰兒在呼吸窘迫的第一時間啟動警報，並同時以溫柔的觸覺刺激嬰兒運動功能，提醒嬰兒呼吸，能及時救回嬰兒生命。此一 BBS 發明的好處是可於最短時間 (幾秒鐘內) 救回生命、使用簡易、價位合理、易於普及。

### Patented technology introduction:

#### BABY CAN NOW BREATHE SAFE AND EASY

The Baby Breathe Safe (BBS) is designed to monitor both a baby's respiratory rate and to stimulate resumed respiratory function in an apnea condition. BBS is composed of three components, a monitor, an alarm trigger and stimulator. The monitor will measure the baby's breathing and includes an alarm program to detect if the respiratory rate is either too fast or too slow. Conversely, if apnea is presented then the monitor will trigger two functions; an alarm to alert staff and a supplementary signal to the stimulators. The BBS device shows real-time respiratory rates and offers the option to transmit data to a Smartphone application or computer. BBS provides a practical system of monitoring, alerting, and initiating a first response for babies in respiratory distress. Longitudinal monitoring provides an improved recording of a baby's respiratory rate and initiates an immediate potent lifesaving response for the baby through stimulation. The value benefit of a BBS system is the speed of notification, response, and life saving action. The affordability and simplicity in application of the BBS will encourage improved monitoring of babies to provide life-saving first aid within seconds.

### 泰國法政大學 / Thammasat University

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專利技術名稱

## 美國多功能鍋具 USA Multi-Purpose Pot

Patent No (R.O.C. 優先) M488276  
專利權人：富呷一方 / FU JIA YI FANG  
發明人：陳猷楨 / Hsien-Chen Chen



### 專利技術介紹：

富呷一方陳猷楨創辦人發明的多功能鍋爐組，目前已取得台灣、大陸、日、韓、德、英、法、港、新、越南、烏克蘭、澳洲...等國家多項 10 至 25 年專利權 (其他卅餘國已申請陸續核准中)。不僅榮獲 2015 台北國際發明展最高榮譽鉑金獎，同年亦獲得德國紐倫堡國際發明展 IENA 銀牌獎及波蘭國家評審團唯一特別獎。同時把蒸、涮、燻、燒等料理方式完全融合在一個小方鍋裡，改寫千百年的鍋具史，也締造了餐飲歷史上的傳奇！

### Patented technology introduction:

#### ONE POT! MANY FUNCTIONS!

The multi-propose cookware, invented by the founder of Fujiyifang, Chen, Hsien-Chen, has obtained many patents over numerous countries such as Taiwan, China, Japan, Germany, Hong Kong, Singapore, Vietnam, the UK, France, Ukraine, Australia and Korea.

It not only acquired a gold medal award in the Taipei International Invention Show and at Technomart 2015, but also a first runner up award and a special award from Polish representatives in IENA NÜRNBERG 2015.

Our cookware combines steam, shabu, stew and fried, all in this one small pot. It rewrites the history of cookware and opens a new era in catering.

### 薩摩亞商富甲一方餐飲管理顧問有限公司台灣分公司 / Samoa Providers Fujiyifang Restaurant Management Consultants Ltd. Taiwan Branch

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專利技術名稱

## 3D 列印環保膠條結構改良 3D Printing Recycle Strip Modified Structure

Patent No (R.O.C. 優先) M510239  
專利權人：高苑科技大學 / KAO YUAN UNIVERSITY  
發明人：吳進三、鄭新助、蔡育軒 / Chin-San Wu, Xin-Zhu Zheng, Yu-Xuan Cai



### 專利技術介紹：

本產品在於提供一種有效利用農業廢棄物，同時降低成本的具天然稻殼香氣之 3D 列印用環保膠條。其特徵在於 3D 列印用環保膠條包括有一膠條體，其內含有環保性聚乳酸與稻殼粉組合。稻殼經加工處理後，能均衡分佈於膠條體內的稻殼香氣粉末體；稻殼香氣粉末體是由高溫乾燥後、具天然稻殼香氣的稻殼回收物所研磨後而製成。通過高溫熔融 3D 列印用環保膠條的過程，讓香氣粉末體中的香氣被發散出來，滿室生香，同時列印完成的 3D 列印品，更具有餘韻飄香。

### Patented technology introduction:

#### NEW SCENT WITH GREENER HUSKS!

The goal of this product is to provide an efficient use of rice husks by reducing costs, and to become environmental friendly by merging natural rice husk aroma with 3D printing.

The environmental tape has a strip body containing environmental protection compositions of polylactic acid and rice husks. After processing, the rice husks aroma powder can be fairly distributed through the strip. The powder owns natural rice husk aroma and is made of ground dried rice husk residue which is dried at high temperatures. These environmental protective strips are processed through high melting temperature with 3D printing. The aroma can be spread in all rooms that emanated from the strips.

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專利技術名稱

## 捕蠅者 Fly Catcher

Patent No (R.O.C. 優先) M480875

專利權人：國立雲林科技大學 / NATIONAL YUNLIN UNIVERSITY OF SCIENCE AND TECHNOLOGY  
發明人：王清良、洪瑞元、張世勳 / Ching-Liang Wang, Jui-Yuan Hung, Shih-Hsun Chang



專利技術介紹：

該頂蓋之各通孔系呈上寬下窄之漏斗型態，使果蠅無法順利飛出該艙室，導致果蠅因無法進行攝食而死於該艙室內，進而達到誘捕果蠅並消滅之效果。

Patented technology introduction:

### A BETTER FLY TRAP!

By instinct, fruit flies follow the smell that emanates from rubbish. Fly Catcher contains an inner space that traps the fruit flies as they try to enter the bin. Slits on the bottom of the lid allow the smell of the rubbish to emanate to attract the flies. Small openings on the top of the lid allow the flies to enter the inner space, from which they cannot easily escape. Eventually, they will starve inside the lid. An acrylic window on the top of the lid allows the user to see if the flies are still moving. When they are dead, the upper and lower parts of the lid can be separated and the dead flies emptied out.

國立雲林科技大學 / National Yunlin University of Science and Technology

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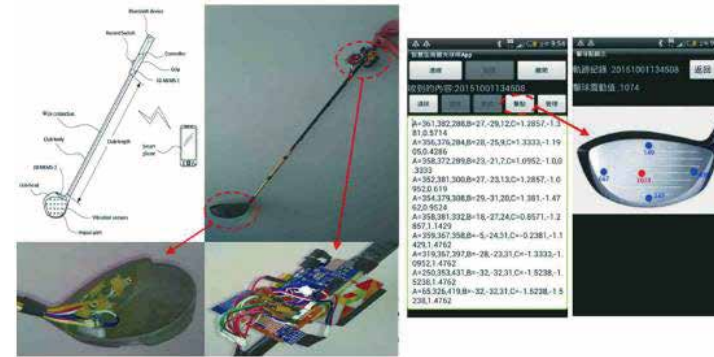
專利技術名稱

## 內嵌式相對軌跡偵測裝置及方法

A Device and Method for Embedded Relative Tracking

Patent No (R.O.C. 優先) I440493

專利權人：修平學校財團法人修平科技大學 / HSIUPING UNIVERSITY  
發明人：張兆村 / Chao-Tsun Chang



專利技術介紹：

將相對軌跡偵測器裝在球拍、球棒、高爾夫球桿內，可收集、辨認揮拍、揮棒、揮桿軌跡，達到隨時修正揮桿姿勢效益。

Patented technology introduction:

### BECAME A PRO WITH THIS TECHI-TEACHER!

This technology can be used in a smart racket, bat, or golf club. The smart golf club enables learning on the course, which is equipped with controller, 3D MEMS, Bluetooth device, and vibration sensors. The club can sense the swing status and strike strength then send data to the smart device via Bluetooth device. The smart device estimates and shows the swing track, the strike point and strength.

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專利技術名稱

## 多層式風葉裝置 Multi-Layer Fan Means

Patent No (R.O.C. 優先) M421385

專利權人：主典興業股份有限公司 / TRUE TEN INDUSTRIAL CO., LTD.

發明人：盧順從 / Shun-Tsung Lu



專利技術介紹：

能以各傾斜扇葉攔截風力產生轉動進而驅動軸心旋轉，配合能正面攔截風力的各個環繞扇葉，能有效提升本創作受風力帶動旋轉的效率。

Patented technology introduction:

### BEST WIND HARVESTING NOW!

Inclined blades of wind generation turn drives on the rotation axis. Intercepted wind of the wind energy front surround each fan to effectively enhance the creation of efficiency.

主典興業股份有限公司 / True Ten Industrial Co., Ltd.

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專利技術名稱

## 雙核心預力拉伸自復位消能支撐裝置 Dual-Core Self-Centering Energy Dissipation Brace Apparatus

Patent No (R.O.C. 優先) I454608

專利權人：財團法人國家實驗研究院國家地震工程研究中心 / NATIONAL CENTER FOR RESEARCH ON EARTHQUAKE ENGINEERING (NCREE)

發明人：周中哲、陳映全、鍾秉庭 / Chung-Che Chou, Ying-Chuan Chen, Ping-Ting Chung



專利技術介紹：

在建築物內安裝能自復位的斜撐消能裝置，當地震發生時，可有效地減低地震劇烈搖晃造成建築物的側向變形及殘餘變形，並大幅避免建築物因地震而發生地傾斜或破壞。

Patented technology introduction:

### QUAKE PROOFING WITH A DC-SCB!

A steel dual-core self-centering brace (DC-SCB) is proven to provide both energy dissipation and self-centering properties for building structures. When a building that is equipped with DC-SCBs is subjected to large earthquakes, the DC-SCB can minimize lateral drifts and residual deformations of the building frame, to prevent costly repairs.

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專利技術名稱

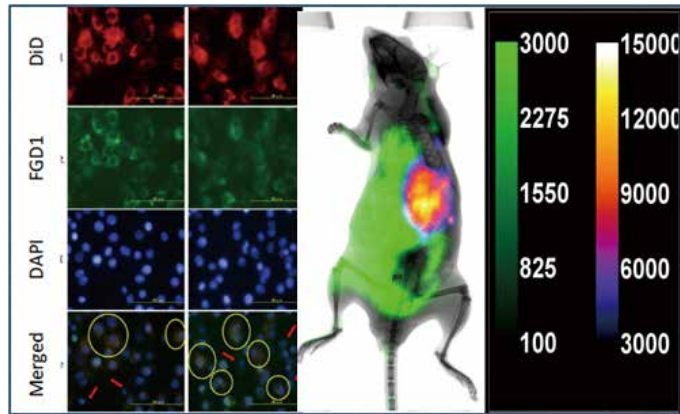
## 螢光醣類衍生物之用途

Use of Fluorescent Saccharide-Based Derivative

Patent No (R.O.C. 優先) US8895261B2 / I506269

專利權人：義守大學 / I-SHOU UNIVERSITY

發明人：吳昭燕、劉麗芬 / Jau-Yann Wu, Li-Feng Liu



專利技術介紹：

本發明提供一種螢光醣類衍生物之合成方法及其應用。由於具有類葡萄糖之結構，本螢光衍生物可廣用於與細胞葡萄糖吸收能力相關之檢測，如癌細胞之檢測、微生物之檢測、具調控細胞攝取醣類能力相關之藥物篩選、環境毒物之檢測等生醫領域之用途。由於產物無毒性、成本低、且可搭配現有螢光檢測設備，本專利為細胞葡萄糖吸收能力檢測相關應用領域，提供了一種安全簡易的新方法。

Patented technology introduction:

### FIRST CHECK FOR GLUCOSE ABSORPTION ACTIVITY

This invention relates a new class of fluorescent materials derived from saccharides and its applications. With its glucose-analog structure, the non-cytotoxic, fluorescent material can be used as an optical imaging probe for glucose uptake, which can be applied to the detection of cancer cells, the screening and identification of new regulators of glucose uptake, obtaining information relating to changes in viability of living cells with external stimulations. With various commercially available instruments, the present invention provides a simple and cost-effective alternative to image glucose uptake activity at the cellular level, and consequently facilitates the studies or evaluations in related fields.

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專利技術名稱

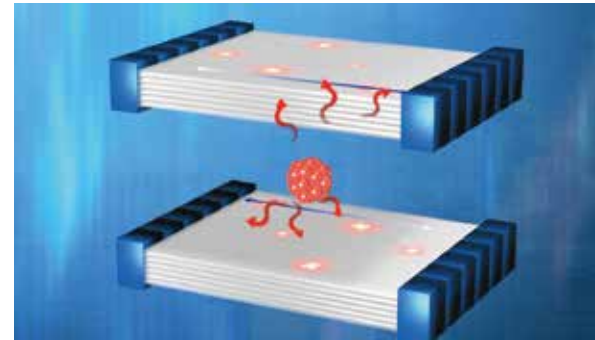
## 三維位置資訊之加馬平面成像探頭裝置

Method for Determining Location of Gamma Interaction and Flat Panel Gamma Imaging Apparatus Using the Same

Patent No (R.O.C. 優先) I356689

專利權人：行政院原子能委員會核能研究所 / INSTITUTE OF NUCLEAR ENERGY RESEARCH, ATOMIC ENERGY COUNCIL, EXECUTIVE YUAN

發明人：梁鑫京 / Hsin-Chin Liang



專利技術介紹：

本發明採用創新核醫偵檢成像探頭之結構設計，有效解決習用探頭容易造成之視差 (Parallax error) 現象，提升成像位置辨識準確度，並大幅節省光電陣列元件使用，除降低成本外，可使核醫檢驗儀器系統設計更具彈性，應用於多種醫用 / 非醫用儀器開發，如核醫正子、單光子造影、攜帶式加馬相機、質子治療即時監控、小動物造影系統等，市場發展性高。

Patented technology introduction:

### SUPER MONITOR GIVES BIG PICTURE!

Bring fresh vision to nuclear imaging with this patent-pending nuclear imaging detector. This cutting edge architecture can effectively solve the parallax error which disrupting conventional face-on design to provide high quality images. The advantages of reduced amount of required photon detectors for such architecture makes cost cutting possible for building such scanners. Also its high flexibility for assembling imaging scanners makes it possible to develop high performance nuclear imaging devices, including PET, SPECT, hand-held gamma cameras and in-line proton-therapy monitors. Its advantages include high image quality, reduced costs, and high applicable flexibility for high market value.

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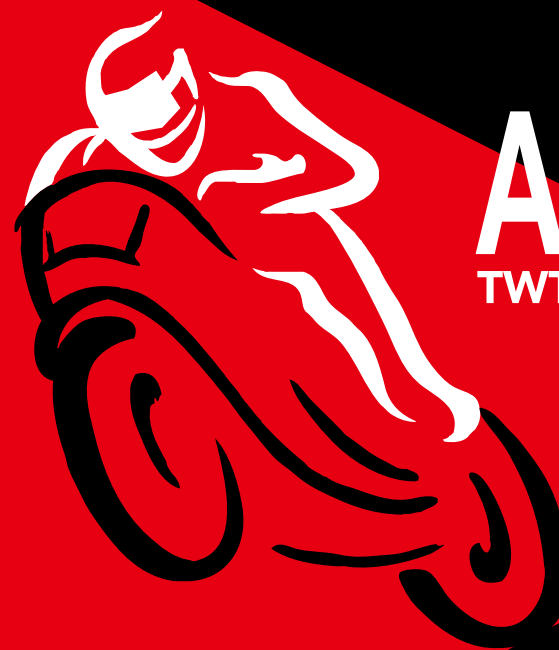
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<b>TAIPEI CYCLE</b> <small>台灣自行車展</small> ★ Taipei Int'l Cycle Show	<b>Mar. 2-5</b>	<b>Foodtech &amp; Pharmatech TAIPEI</b> ★ Taipei Int'l Food Processing & Pharm. Machinery Show	<b>June 22-25</b>
<b>TaiSPO</b> Taipei Int'l Sporting Goods Show	<b>Mar. 2-5</b>	<b>TAIPEI PACK</b> ★ Taipei Int'l Packaging Industry Show	<b>June 22-25</b>
<b>SPOMODE</b> Taipei Int'l Sports Textile & Accessory Expo	<b>Mar. 2-5</b>	<b>Taiwan HORECA</b> Taiwan Int'l Hotel, Restaurant and Catering Show	<b>June 22-25</b>
<b>DiWaS</b> Taiwan Int'l Diving and Water Sports Show	<b>Mar. 2-5</b>	<b>HALAL TAIWAN</b> Taiwan Int'l HALAL Expo	<b>June 22-25</b>
<b>Taiwan Int'l Boat Show</b> Taiwan International Boat Show	<b>Mar. 10-13</b>	<b>TCFB</b> Taichung Int'l Tea, Coffee and Bakery Show Greater Taichung Int'l Expo Center	<b>July 15-18</b>
<b>TICFE</b> 17 <sup>th</sup> Taipei Int'l Chain and Franchise Spring Exhibition	<b>Mar. 11-14</b>	<b>TICA</b> Taipei Computer Applications Show (Domestic Market Show)	<b>July 28-Aug. 1</b>
<b>TIOS</b> Taiwan Int'l Orchid Show Taiwan Orchid Plantation (Tainan)	<b>Mar. 12-21</b>	<b>TAIPEI PLAS</b> <small>台灣塑膠展</small> ★ Taipei Int'l Plastic & Rubber Industry Show	<b>Aug. 12-16</b>
<b>TAIPEI AMPA</b> <small>台灣汽車零件展</small> ★ Taipei Int'l Auto Parts & Accessories Show	<b>Apr. 6-9</b>	<b>SEMICON Taiwan</b> ★ Semiconductor Industry Show	<b>Sept. 7-9</b>
<b>AutoTronics Taipei</b> ★ Taipei Int'l Automobile Electronics Show	<b>Apr. 6-9</b>	<b>INST</b> ★ Taipei Int'l Invention Show & Technomart	<b>Sept. 29-Oct. 1</b>
<b>MOTORCYCLE TAIWAN</b> Taiwan Int'l Motorcycle Industry Show	<b>Apr. 6-9</b>	<b>AUTO EXPO MYANMAR</b> Myanmar Int'l Auto Parts & Accessories Exhibition TATMADAW Exhibition Hall	<b>Sept. 29-Oct. 2</b>
<b>EV TAIWAN</b> Taiwan Int'l Electric Vehicle Show	<b>Apr. 6-9</b>	<b>POWER MYANMAR</b> Myanmar Int'l Electrical, Electronics & Electric Power Equipment Fair TATMADAW Exhibition Hall	<b>Sept. 29-Oct. 2</b>
<b>Fastener Taiwan</b> Taiwan Int'l Fastener Show	<b>Apr. 11-13</b>	<b>TAITRONICS</b> ★ Taipei Int'l Electronics Show	<b>Oct. 6-9</b>
<b>TILS</b> ★ Taiwan Int'l Lighting Show	<b>Apr. 13-16</b>	<b>eCommerce Expo Asia</b> ★	<b>Oct. 6-9</b>
<b>LED Taiwan</b> ★	<b>Apr. 13-16</b>	<b>PV Taiwan</b> ★ Taiwan Int'l Photovoltaic Exhibition	<b>Oct. 12-14</b>
<b>TIS</b> Taipei IN Style Taipei	<b>Apr. 14-16</b>	<b>TIGIS</b> ★ Taiwan Int'l Green Industry Show – Energy, Environment, Water Technology & Urban Planning	<b>Oct. 12-14</b>
<b>Giftionery Taipei</b> ★ Taipei Int'l Gift & Stationery Show	<b>Apr. 22-25</b>	<b>TITAS</b> ★ Taipei Innovative Textile Application Show	<b>Oct. 17-19</b>
<b>TAIWAN SOUVENIR</b> Taiwan Souvenir & Handicraft Show	<b>Apr. 22-25</b>	<b>Aqua Taiwan</b> Taiwan Int'l Water Show	<b>Oct. 20-22</b>
<b>Houseware Taiwan</b> Taiwan Houseware & Home Décor Show	<b>Apr. 22-25</b>	<b>PHILATAIPEI</b> World Stamp Championship Exhibition	<b>Oct. 21-26</b>
<b>MTduo</b> ★ Taipei Manufacturing Technology Show	<b>May 5-8</b>	<b>Kaohsiung Food Show</b> Kaohsiung Food Show	<b>Oct. 27-30</b>
<b>YODEX</b> ★ The 35 <sup>th</sup> Int'l Young Designers' Exhibition	<b>May 13-16</b>	<b>Kaohsiung Horeca</b> Kaohsiung Int'l Hotel, Restaurant, Baking and Catering Show	<b>Oct. 27-30</b>
<b>COMPUTEX TAIPEI</b> <small>台灣資訊展</small> ★ Taipei Int'l Information Technology Show	<b>May 31-June 4</b>	<b>Taiwan Fishery</b> Taiwan Int'l Fisheries & Seafood Show	<b>Nov. 9-11</b>
<b>MEDICARE TAIWAN</b> Taiwan Int'l Medical & Healthcare Exhibition	<b>June 16-19</b>	<b>TIS</b> Taipei IN Style Taipei	<b>Nov. 10-13</b>
<b>SENCARE</b> Taiwan Int'l Senior Lifestyle and Health Care Show	<b>June 16-19</b>		
<b>FOOD TAIPEI</b> ★ Taipei Int'l Food Show	<b>June 22-25</b>		

\*Please Check Website for Updated Information. 2015.11 (Ver. 3)

[www.TaiwanTradeShows.com.tw](http://www.TaiwanTradeShows.com.tw)

Organizer:  
**Taiwan External Trade Development Council (TAITRA)**  
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Tel: 886-2-2725-5200 www.taitra.org.tw  
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Venues:  
● **TWTC Exhibition Hall**  
5, Xinyi Rd., Sec. 5, Xinyi District, Taipei 11011, Taiwan  
★ **Taipei Nangang Exhibition Center, Hall 1**  
1, Jingmao 2<sup>nd</sup> Rd., Nangang District, Taipei 11568, Taiwan

● **Taipei International Convention Center**  
1, Xinyi Rd., Sec. 5, Xinyi District, Taipei 11049, Taiwan  
● **Kaohsiung Exhibition Center**  
39, Chenggong 2<sup>nd</sup> Rd., Cianjhen District, Kaohsiung 806, Taiwan

