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SEP 29 ~ OCT 1

TAIPEI WORLD TRADE CENTER HALL 1

2016

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  www.inventaipei.com.tw
2015 Highlights

2015 精選照片
三締服飾公司 .......................................................... 7
3D KING Clothing Company

中華科技大學 ......................................................... 8
China University of Science and Technology

遠東新世紀股份有限公司 ........................................... 9
Far Eastern New Century Corporation

遠東新世紀股份有限公司 ......................................... 10
Far Eastern New Century Corporation

遠東科技大學 .......................................................... 11
Far East University

Institute of Organic Chemistry, Polish Academy of Sciences ............................................. 12

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 .......................... 13
Mackay Memorial Hospital

研能科技股份有限公司 ............................................. 14
MicroJet Technology Co., Ltd.

研能科技股份有限公司 ............................................. 15
MicroJet Technology Co., Ltd.

國立雲林科技大學 .................................................. 16
National Yunlin University Of Science And Technology

光啟高中 ................................................................ 17
Paul Hsu Senior High School

南臺科技大學 .......................................................... 18
Southern Taiwan University of Science and Technology

益群科技股份有限公司 / 國立聯合大學 ................................. 19
Yu-Chyun Technology Co., Ltd. / National United University

德盟儀器製造有限公司 ............................................... 21
Adronic Instrument Manufacture Co., Ltd.

錩鴻企業股份有限公司 ............................................... 22
Chang Hong Enterprise Co., Ltd.

陳朝陽 .................................................................. 23
Chen, Chao-Yang

建國科技大學 .......................................................... 24
ChienKuo Technology University

中科實業股份有限公司 ............................................. 25
Chu-Ka Industrial Co., Ltd.

遠東科技大學 .......................................................... 26
Far East University

Foundation for Research and Technology - Hellas (FORTH) ............................................. 27

Institute of Computer Science

修平學校財團法人修平科技大學 ................................ 28
Hsiuping University of Science and Technology

工業技術研究院 ......................................................... 29
Industrial Technology Research Institute

英威康科技股份有限公司 .......................................... 30
Inwellcom Technology Co., Ltd.

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 / ........................................... 31
國立臺北科技大學

MacKay Memorial Hospital / National Taipei University of Technology

國立勤益科技大學 ..................................................... 32
National Chin-Yi University of Technology

國立臺灣海洋大學 ..................................................... 33
National Taiwan Ocean University

財團法人紡織產業綜合所 ........................................... 34
Taiwan Textile Research Institute

衡奕精密工業股份有限公司 ........................................ 35
Transverse Industries Co., Ltd.
<table>
<thead>
<tr>
<th><img src="Platinum_Awards" alt="2015鉑金獎" /></th>
<th><img src="Platinum_Awards" alt="2015鉑金獎" /></th>
</tr>
</thead>
<tbody>
<tr>
<td>Chung Yuan Christian University</td>
<td>.......................................................</td>
</tr>
<tr>
<td>Microjet Technology Co., Ltd.</td>
<td>.......................................................</td>
</tr>
<tr>
<td>National Taichung University of Science and Technology</td>
<td>.......................................................</td>
</tr>
<tr>
<td>CITUS d.o.o.</td>
<td>.......................................................</td>
</tr>
<tr>
<td>National Center For High-Performance Computing, National Applied Research Laboratories</td>
<td>.......................................................</td>
</tr>
<tr>
<td>Southern Taiwan University of Science and Technology</td>
<td>.......................................................</td>
</tr>
<tr>
<td>National Chin-Yi University of Technology</td>
<td>.......................................................</td>
</tr>
<tr>
<td>Institute of Nuclear Energy Research, Atomic Energy Council, Executive Yuan</td>
<td>.......................................................</td>
</tr>
<tr>
<td>Da-Yeh University</td>
<td>.......................................................</td>
</tr>
<tr>
<td>National Taiwan University of Science and Technology</td>
<td>.......................................................</td>
</tr>
<tr>
<td>Heatingtec Co., Ltd.</td>
<td>.......................................................</td>
</tr>
<tr>
<td>Yuan Shine Enterprise Co., Ltd.</td>
<td>.......................................................</td>
</tr>
<tr>
<td>Kao Yuan University</td>
<td>.......................................................</td>
</tr>
<tr>
<td>National Formosa University</td>
<td>.......................................................</td>
</tr>
<tr>
<td>Chun-Hung Wu</td>
<td>.......................................................</td>
</tr>
<tr>
<td>THAMMASAT UNIVERSITY</td>
<td>.......................................................</td>
</tr>
<tr>
<td>Samoa Providers FUJIAIFANG Restaurant Management Consultants Ltd. Taiwan Branch</td>
<td>.......................................................</td>
</tr>
<tr>
<td>National Yunlin University of Science and Technology</td>
<td>.......................................................</td>
</tr>
<tr>
<td>Hsiuping University of Science and Technology</td>
<td>.......................................................</td>
</tr>
<tr>
<td>True Ten Industrial Co., Ltd.</td>
<td>.......................................................</td>
</tr>
<tr>
<td>Department of Civil Engineering, National Taiwan University</td>
<td>.......................................................</td>
</tr>
<tr>
<td>I-Shou University</td>
<td>.......................................................</td>
</tr>
<tr>
<td>Institute of Nuclear Energy Research, Atomic Energy Council, Executive Yuan</td>
<td>.......................................................</td>
</tr>
</tbody>
</table>

**Notes:**
- The table lists the institutions and companies that received the 2015 Platinum Awards.
- Each entry includes the name of the institution or company and its corresponding page number.
- Some entries also include the specific department or branch within the organization.
2013 Platinum Awards

TAIPEI INT’L INVENTION SHOW & TECHNOMART

TAIPEI WORLD TRADE CENTER HALL 1

2016 SEP. 29~OCT. 01
Patent No: (R.O.C. 優先) M445351, M447096, M447097

專利權人: 三緐服飾公司 / 3D KING Clothing Company

專利技術介紹:

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.

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.
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 setting 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.

Patented technology introduction:

The polypropylene (PP) fiber with the advantages of light, high strength, antifriction, 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℃ 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.
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

Institute of Organic Chemistry, Polish Academy of Sciences
E-mail: ocrys@icho.edu.pl
Web: http://www.icho.edu.pl
Tel: 48-22-3432207

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 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.
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）短肽組具有顯著促進角膜傷口癒合的效力。免疫組織染色顯示，PEDF短肽可促進輪部幹細胞增殖。此外，PEDF短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短肽組具有開發治療眼表面疾病或協助眼科術後恢復新穎藥物的潛力以及可能成為眼鏡保護液或人工淚液之成份。

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.
適用於立體成型機構之切層方法
Slicing Method of Three Dimensional Prototyping Apparatus

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，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並直接上色，然後在後處理過程中用高溫或是冷凍，將石膏基複合粉末固化，最後再經由噴印機的切割與移動，將石膏基複合粉末與切層的圖案結合在一起，形成完整的3D模型。研能科技之噴墨式3D列印技術不僅可以快速製作出原型實體，而且可以輕鬆取得立體影像對，且具有低成本、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！

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
No.6, Rong Gong S. Rd., Guanyin Industrial Park, Guanyin Hsien 32849, Taiwan
聯絡人：鄭石宏 / Rocky Cheng
E-Mail：rocky.cheng@microjet.com.tw
Web：http://www.cometrue3D.com
Tel：+886-3-4831000 ext.383
Fax：+886-3-4833300

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.

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

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，且具有低成本、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！

國立雲林科技大學 / National Yunlin University Of Science And Technology
雲林縣斗六市大學路三段 123 號 電子工程學系
聯絡人：陳建宇教授
E-Mail：chencyue@yuntech.edu.tw
Tel：+886-5-5342601#4327

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.
**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

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.

**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, Jhih-Sian Ke

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

工業用之硬管直式內視鏡
Industrial Rigid Type Probe.

專利技術介紹:
這是一款不鏽鋼管直管的內視鏡，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，可直接對準目標物導視鏡表，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 65 ~110 度的反射鏡，了解於測項的情況。另一款獨特的 90 度側視鏡頭設計，鏡頭中心至底端僅 4mm，讓使用者清楚的看清底部四周的側邊的情況。本公司任何一款內視鏡都可靠您本公司自行研發的 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 及錄影檔案 MPEG4，利於使用者作後續報案。也可以將內視鏡的影像傳輸到任一電幕，是一套廣泛使用於工業的檢測儀器，例如空圧機、汽機車業、模具製造業、機械業、製藥業、空調業等等。

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

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開關，無水 15 秒內自動斷電。
2. 不銹鋼桶內附防水溫度控制器，50℃過載斷電保護。
3. 馬達線圈內附 100℃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，結合進水閥及過濾網設計，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. 圓弧型過濾網連結活動式進水閥，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，並可藉由進口閥開啓時，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㎡。

德盟儀器製造有限公司 / Adronic Instrument Manufacture Co., Ltd.
429 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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鍾鴻企業股份有限公司 / Chang Hong Enterprise Co., Ltd.
高雄市仁武區仁心路 313 號
No.313,Rexin Rd., Renwu Dist.,Kaohsiung City 814 ,Taiwan (R.O.C.)
E-Mail: jian-jo@jian-jo.com.tw Web: //www.jian-jo.cm.tw Tel: +886-7-3729507 Fax: +886-7-3727159

專利技術介紹:
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
2 Stainless steel barrel with 50℃ waterproof temperature control device to avoid overload.
3 Motor overload coil with 100℃ 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 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㎡, over million times switch test to prove long durable life.

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 90º, 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.
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% dust collection—let 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!

專利技術介紹:

1. 本集塵罩產品有 46 國專利。
2. 產品榮獲 2014 年台北國際發明競賽最高獎—鉑金獎。
3. 產品集塵效果 100%，使用簡單，只要將集塵罩套上電鑽，即可輕鬆使用，省時又省力，產品系列適用各種頭銑電鑽。
4. 車床多偏心切削工具採用設計，易於設定及使用。
5. 車床多偏心夾具 }

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, cumbersoness 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.
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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Patent No: (R.O.C. 優先) M476433

專利權人: 陳清峰 / CHEN, CHING-FENG

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) 103109806, 103204457

專利權人: 遠東科技大學 / Far East University

發明人: 鍾明吉、陳智成、蔡俊欽、朱清俊、吳俊毅、陳柏州、張振飛、陳詠璿、戴昭民

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: 鍾明吉、陳智成、蔡俊欽、朱清俊、吳俊毅、陳柏州、張振飛、陳詠璿、戴昭民

發明人: 鍾明吉、陳智成、蔡俊欽、朱清俊、吳俊毅、陳柏州、張振飛、陳詠璿、戴昭民

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Bone Conduction Hearing Aid

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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

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

骨傳導式無線音訊傳輸系統

Bone Conduction Hearing Aid
**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 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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**Smart Emergency Exit System**

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

具有安全逃生指引機制之火災警示系統及其運作方法


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，錯誤的出口將造成人員傷亡甚至死亡。而避免在錯誤的逃生出口，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通過視覺，快速正確火場狀況，提醒逃生者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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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.

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, 记录各項使用行為。
   B. 安全且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) 記錄機制,伺服器無法連線時, 仍確保資訊安全強度。
   C. 具備檔案加密的功能,非授權狀況下無法存取檔案。
3. 立即管控:
   A. 直接監視狀況。
   B. 遠端設定與控制。
4. 全局掌控:
   A. 管理者可以輕易管理及稽核集中式的日誌及紀錄。

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.

工業技術研究院 / Industrial Technology Research Institute
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**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
發明人: 陳裕仁、張文中、劉家源、陳金聖

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.

**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

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.
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.

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

專利權人: 国立臺灣海洋大學 / National Taiwan Ocean University
發明人: 龔紘毅、陳鳴泉、吳金洌、黃士晉
Hong-Yi Gong, Ming-Chyuan Chen, Jen-Leih Wu, Shih-Chin Huang

Patented technology introduction:

Nylon is one of the most important man-made fibers in the world. This invention, we developed a high self-crimping bio-based nylon fiber 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.

專利技術名稱: 耐隆複合纖維及其織物
專利技術介紹:

耐隆複合纖維及其織物

專利技術介紹:

This invention is a biobased polymer of the transformable enzyme-type creatine kinase \(ckmb\) 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.

Patent No: 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
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.

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Web：http://www.transverse.com
2015 Platinum Awards

**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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**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.
**Slide Operation Method for Touch Screens**

**專利技術名稱**

2015 鉑金獎
台北國際發明暨技術交易展 2015 Platinum Awards

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"開啓相機"，"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時，聽到音階"RE"手指離開螢幕即啟動「啟動相機」。
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」。

**SOUND TOUCH YOUR SMART PHONE!**

This invention introduces a method of sliding operation in which multiple sound signals are employed (e.g. the musical notes "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".

**Patented technology introduction:**

**BOY! CAN 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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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 an 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 element with the rotating mechanism motor’s driver, it can achieve five-axis measurement control and complex surface measurements.

**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.
**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.

**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。
**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 (β-1, 3-D-glucanase) 水解雲芝肽 (PSP) 得到易被人體吸收 (3 kDa) 之高保溼以及抗氧化性美容保養品添加原料 - 雲芝寡醣肽 (TOPTM)。其保溼度較玻尿酸高出 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) 支持技術轉移與生技業者進行生醫保養品產品開發。

**Patented technology introduction:**

**A Method to Produce Oligosaccharide Peptides with Moisturizing Capabilities and Formula**

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 β-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.
**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.

**Patent No (R.O.C. 優先) M498298**

**專利技術名稱**

電熱水器

Electrical Water Heater

專利權人: 麗源光電（股）公司 / HEATINGTEC CO., LTD.

發明人: 劉佳琪 / Chia-Chi Liu

**Patent 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.

**Patent No (R.O.C. 優先) M479307**

**專利技術名稱**

氣壓式開瓶裝置新結構

Pneumatically Operated Wine Bottle Opener

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

發明人: 高瑋彤 / Wei-Tung Kao

**Patent technology introduction:**

This 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.
**2015 Platinum Awards**

**Fixed Floating Water Turbine Power Generation Unit**

**Patent No:** (R.O.C. 優先) M457070  
**Patentee:** Kao Yuan University  
**Inventors:** Chin-Chao Wang, Bang-Jia Chen

**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.

**Kao Yuan University / Kao Yuan University**  
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E-Mail: s005618@cc.kyu.edu.tw  
Web: www.kyu.edu.tw/kyunews3/allkyu.html

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**Variable Speed Device**

**Patent No:** (R.O.C. 優先) 104113594  
**Patentee:** National Formosa University  
**Inventors:** Shen-Jenn Huang, Zhi-Wei Lai

**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.

**National Formosa University / National Formosa University**  
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E-Mail: pgs@nfu.edu.tw  
Web: www.nfu.edu.tw

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**Fixed Floating Water Turbine Power Generation Unit**

**Patent No:** (R.O.C. 優先) M457070  
**Patentee:** Kao Yuan University  
**Inventors:** Chin-Chao Wang, Bang-Jia Chen

**Patented technology introduction:**  
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。

**Kao Yuan University / Kao Yuan University**  
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Web: www.kyu.edu.tw/kyunews3/allkyu.html

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**Variable Speed Device**

**Patent No:** (R.O.C. 優先) 104113594  
**Patentee:** National Formosa University  
**Inventors:** Shen-Jenn Huang, Zhi-Wei Lai

**Patented technology introduction:**  
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，易組裝並將可補償背隙、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。
**Patent No (R.O.C. 申請) M495968**

**專利技術名稱**

**頭枕結構**

*Headrest Structure*

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**專利技術介紹：**

據國際心臟學會資料，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，當救難時抽出頭枕座位使用，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。

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**專利技術名稱**

**寶寶呼吸安控系統（BBS）**

*Baby Breath Safe (BBS)*

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**專利技術介紹：**

寶寶呼吸安控系統（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。

顯示器將測量寶寶每分鐘的呼吸頻率，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，顯示器將觸發警報功能；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，亦可於嬰兒在呼吸暫停的第一時間啓動警報，並同時向導護人員發出警報，促使嬰兒恢復呼吸功能，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:

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：陳獻楨 / Hsien-Chen Chen

One Pot! Many Functions!
The multi-purpose cookware, invented by the founder of Fujiayifang, 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.

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：陳獻楨 / Hsien-Chen Chen
**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.

**Fly Catcher**

Patent No (R.O.C.優先) M480875

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: 張兆村 / Chao-Tsun Chang

**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 OF SCIENCE AND TECHNOLOGY

發明人: 張兆村 / Chao-Tsun Chang

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 and send data to the smart device via Bluetooth device. The smart device estimates and shows the swing track, the strike point and strength.

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

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.
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.

Multi-Layer Fan Means

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.
2015 Platinum Awards

台北國際發明暨技術交易展

台北國際發明暨技術交易展

專利技術名稱

Use of Fluorescent Saccharide-Based Derivative

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

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.

義守大學 / I-Shou University

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專利技術名稱

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:

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.

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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<table>
<thead>
<tr>
<th>Event Name</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAIPEI CYCLE</td>
<td>Mar. 2-5</td>
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<tr>
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<td>Mar. 2-5</td>
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<tr>
<td>TAIPEI PACK</td>
<td>June 22-25</td>
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<tr>
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<td>June 22-22</td>
</tr>
<tr>
<td>TCFB</td>
<td>July 15-18</td>
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<td>TICA</td>
<td>July 28-Aug. 1</td>
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<td>TAIPEI PLAS</td>
<td>Aug. 12-16</td>
</tr>
<tr>
<td>SEMICON Taiwan</td>
<td>Sept. 5-7</td>
</tr>
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<td>INST</td>
<td>Sept. 29-Oct. 1</td>
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<tr>
<td>AUTO EXPO MYANMAR</td>
<td>Sept. 29-Oct. 2</td>
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<tr>
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</tr>
<tr>
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<td>Nov. 10-13</td>
</tr>
</tbody>
</table>

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