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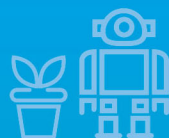
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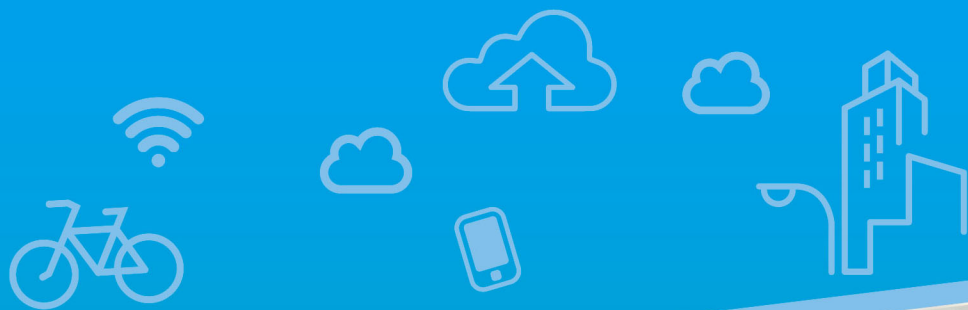
2014-2016
Platinum Awards
鉑金獎



2016 Highlights

2016 精選照片





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2014
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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：

這是一款不鏽鋼管直管內視鏡，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.

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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. 無水斷磁磁力感應棒，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/cm²。

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/cm², 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) 針對每種偏心軸皆需製作特殊夾具做夾持，夾具需求種 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.

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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.

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

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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，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. 不需散熱鰭片，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.

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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、葉媚瑄、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.

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專利技術名稱

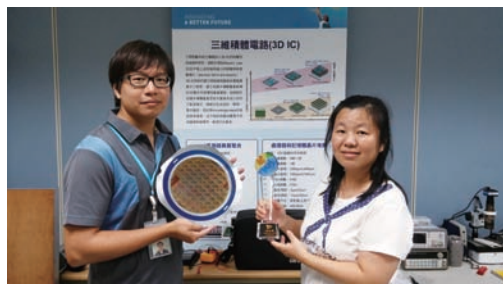
減能結構

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 $17 \text{ ppm}/^\circ\text{C}$ ，矽晶片的熱膨脹係數約為 $2.3 \text{ ppm}/^\circ\text{C}$ ，二氧化矽的熱膨脹係數約為 $0.5 \text{ ppm}/^\circ\text{C}$ 。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，此發明裝置特徵在彼此裝置所環繞之 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。

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。

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.

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

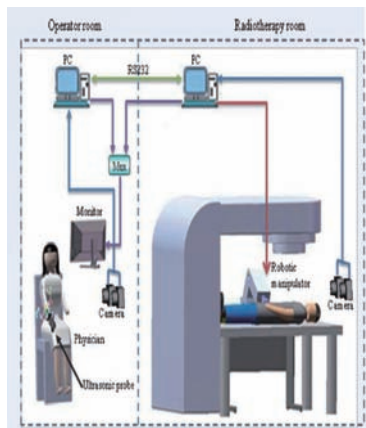
Radiotherapy System Adapted to Monitor a Target Location in Real Time

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臨層數位影像，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，完全位於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-Jhih



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组蛋白或生物材料。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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2015
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Platinum Awards



專利技術名稱

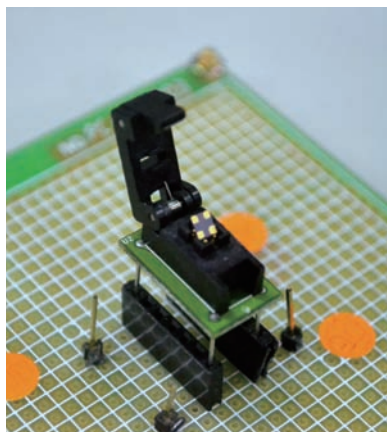
振盪器模組及其訊號校準方法

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, Weiyou 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



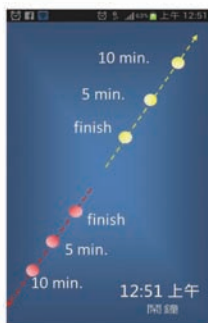
EX. 手機鬧鈴響時, 使用者僅需:

1) 任意滑動 / 聽聲辨能

說明: finish > 關閉鬧鈴

5 min. > 五分後響

10min. > 十分後響



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 “Eyes-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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Dragutina Golika 63, Dragutina Golika 63, 10000 Zagreb, CROATIA

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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

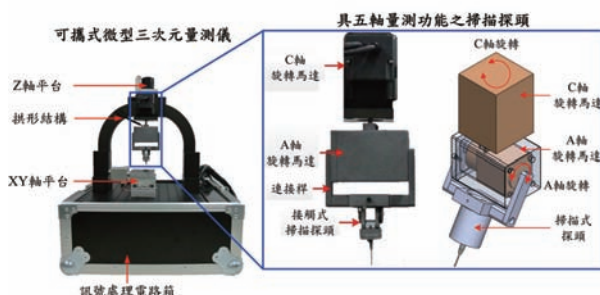
Patent No: (R.O.C. 優先) I495839

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

專利技術介紹：

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。



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.

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

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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，實難符合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.

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

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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-Yih Lin, Chuan-Yi Chien, Hung-Man Yu, Reiko Takasaka Lee, Yuan-Chuan Lee



專利技術介紹：

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：謝昌衡、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 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.

大葉大學 / Da-Yeh University

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專利技術名稱

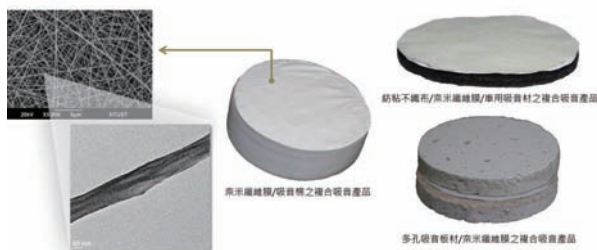
吸音材料

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



專利技術介紹：

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 μm . 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：華矽製造有限公司 / YUAN SHINE ENTERPRISE CO., LTD.

發明人：高瑋彤 / 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.

華矽製造有限公司 / Yuan Shine Enterprise Co., Ltd.

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專利技術名稱

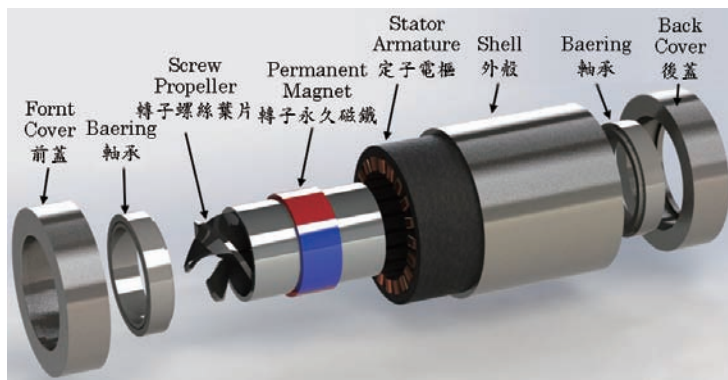
節能螺旋推進器

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.

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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。若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 a 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、燜、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.

薩摩亞商富呷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；稻殼香氣粉末體是為由高溫乾燥後、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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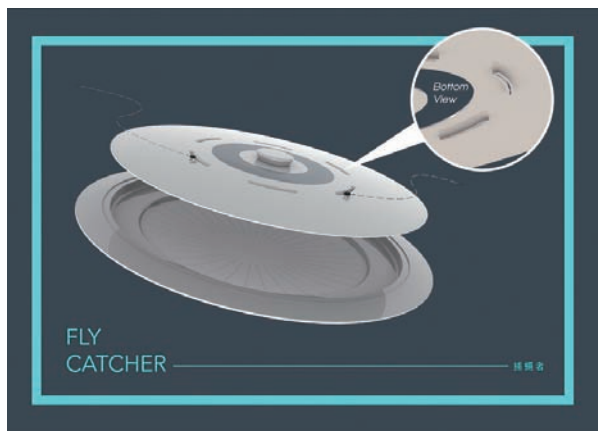
專利技術名稱

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

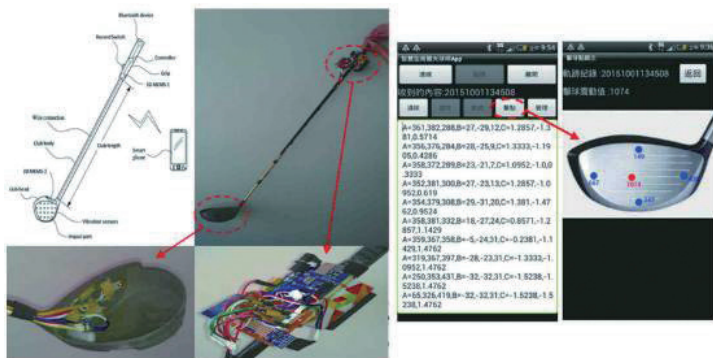
內嵌式相對軌跡偵測裝置及方法

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.

修平科技大學 / Hsiuping University of Science and Technology

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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



主典興業股份有限公司
TRUE TEN INDUSTRIAL CO., LTD.
環保綠能系統

發明人：盧順從

風力、人力、獸力發電機
Wind, human, animal power generators

高效率 輕啟動 高扭力 高發電量
Efficient light Light starts High torque High power output

美觀造型設計與都市景觀相容
Beauty type design Integration in the urban landscape

DIY式昇降裝置 組裝容易 可調整高度
DIY-type lifting device Easy to assemble Adjustable height

優良輸送裝置，適應各種地形及風力變化的好幫手
Excellent conveying device, adapting to various terrain and wind force changes

風水電就是源源不絕的綠色能源
Wind is an endless supply of green energy

本產品榮獲2015年美國發明暨技術交易展金牌獎

300W-5000W

Quality first. Customer satisfaction. Sustainable management

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Skype: true-ten Skype: tschu3140 Mobile: 0988-240619

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.

台中市大里區東興路 511 號

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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.

國立臺灣大學土木工程學系 / Department of Civil Engineering, National Taiwan University

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專利技術名稱

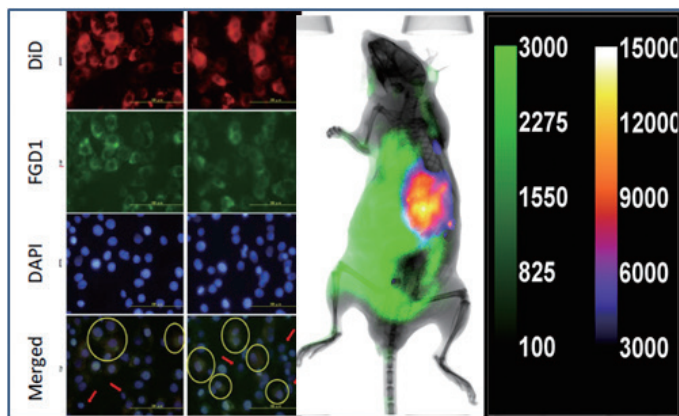
螢光醣類衍生物之用途

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

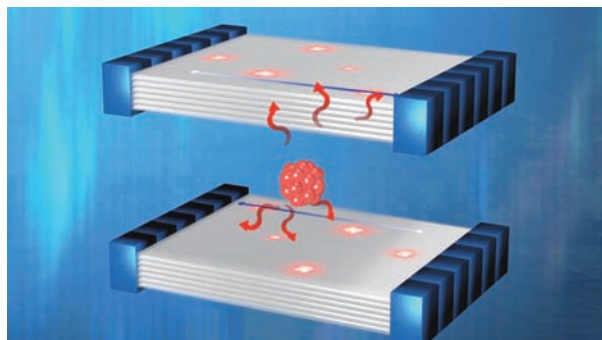
三維位置資訊之加馬平面成像探頭裝置

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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2016
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專利技術名稱

於上鏈傳輸系統中解決射頻不完美之聯合估測補償方法

Joint estimation and compensation methods to solve the RF imperfections for the uplink communication systems

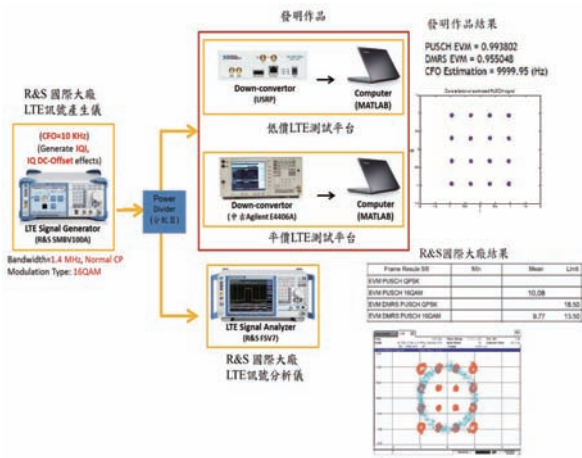
Patent No : (R.O.C. 優先) 104110066 (申請案號)

專利權人：鄧俊宏、黃正光 / Juinn-Horng Deng, Jeng-kuang Hwang

發明人：鄧俊宏、謝宏陽、黃正光、林怡欣、黃勝陽、林光敏 / Juinn-Horng Deng, Hung-Yang Hsieh, Jeng-Kuang Hwang, Yi-Hsin Lin, Sheng-Yang Huang, Kuang-Min Lin

專利技術介紹：

LTE/LTE-A是4G行動通訊系統之重要技術，目前LTE測試儀器價格均昂貴，本作品即開發平價的測試LTE之軟體無線電平台，此平台核心技術即為專利申請之發明技術：「於上鏈傳輸系統中解決射頻不完美之聯合估測補償方法」。本發明具有高精度度與低複雜度之獨特優點。該技術可與國際大廠R&S LTE分析儀比較，在射頻不完美嚴重影響下，R&S LTE分析儀星座圖性能嚴重衰減至10%，相較之下，本發明作品之聯合估測補償方法之性能依然有1%優異性能，如下圖作品照片所示。由本作品完整照片得知，此平台包含平價的降頻儀器與筆記型電腦，並可搭配各種不同更低價位模組，皆可完成LTE測試功能。



Patented technology introduction:

LTE/LTE-A is the important technology of the 4G mobile communication system. The international LTE measurement instruments are more expensive. The product is to use the software defined radio (SDR) scheme to develop the low cost LTE measurement platforms. The core technology of the platform is the patent technology: Joint estimation and compensation methods to solve the RF imperfections for the uplink communication systems. The high accuracy and low complexity designs are the advantages of the proposed technology. The proposed scheme can be compared with the international R&S LTE analyzer. In the serious RF impairments, the constellation performance of R&S LTE analyzer is degraded to 10% error. For our technology, it still involves better performance with 1% error. As shown in the following Figures, the platform contains the cheap used instrument, low cost modules, and laptop, which can complete the LTE measurement functions.

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專利技術名稱

心電圖輔助之身分辨識系統

ELECTROCARDIOGRAPH (ECG)-BASED IDENTITY IDENTIFYING SYSTEM

Patent No : (R.O.C. 優先) I555507

專利權人：國立中興大學 / National Chung Hsing University

發明人：林俊良、陳決億 / Chun-Liang Lin, Yang-Yi Chen



圖一、一導程量測儀器及辨識系統



圖二、心電圖身分辨識之應用

專利技術介紹：

本創作開發之身分辨識系統是以受測者的心電圖 (ECG) 資訊為基底，透過一導程心電圖量測介面取得資訊，經訊號處理並擷取 30 個個別特徵及重組複合數個特徵後，導入特殊演算法，經電腦、平板、手機或手持裝置等計算顯示身分辨識結果。本發明的關鍵技術是，可針對受測者疾病或姿態變化也能提供穩定的辨識結果。本辨識系統與現今任何一種身分辨識或加密系統並無衝突，因此可與其作雙重搭配，如指紋、密碼、磁卡辨識等。而本創作之辨識系統配合性高，對硬體設備要求也低，只需簡單的量測模組外加二個導電片即可，因此可運性高。實用上，可利用心電圖量測模組配合行動裝置，將即時量測之心電圖信號，經處理及辨識後，應用於 ATM 提款、行動付款、海關通關、遠端監控等。

Patented technology introduction:

This invention presents an electrocardiograph (ECG) based identity identifier to be used in mobile devices, ATM or computer. Accompanied with a simple ECG measurement interface, computer, notebook or intelligent cell phone, and a key computational algorithm, it is able to identify the tested object's identity in real time with an acceptable identification rate. Because ECG changes dramatically with the object's physical or psychological status, there exists significant variations while adopting it as the information source for personal identity identification. This invention conquers the hard-to-overcome difficulty proving that using ECG for personal identity identification in practical applications, such as access control, is possible.

國立中興大學 / National Chung Hsing University

台中市國光路 250 號電機系

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專利技術名稱

測試裝置及其測試方法

TESTING DEVICE AND TESTING METHOD THEREOF

Patent No: (R.O.C. 優先) I510913

專利權人：財團法人資訊工業策進會 / Institute for Information Industry

發明人：林敬文 / Ching-Wen Lin



專利技術介紹：

本發明專利提供一種獨特的自動化測試機制，使用者進行測試腳本製作時，無需學習程式語言或是撰寫任何的描述語法 (Script)，可直接於裝置上透過操作錄製，自動完成測試案例腳本建立，單一測試腳本即可提供多裝置進行測試，大幅縮短測試腳本撰寫時間，並支援多種測試結果比對方法，如：系統事件 (ANR, Exception)、系統記錄檔以及影像比對功能。

本作品特色：

- 容易學習，無需撰寫程式
- 測試腳本一次建立，多裝置使用
- 支援多種測試驗證功能
- 無需應用程式原始碼，裝置也無需擁有特殊權限

本專利衍生之自動化測試解決方案，已實際協助多家國內業者進行產品測試，經客戶使用回饋可有效縮減 20% 測試時間與 15% 測試成本。

Patented technology introduction:

The present invention relates to a testing device and a testing method. More particularly, the present invention provides a novel testing mechanism for testing GUI objects. The testing mechanism of the present invention is a technique in combination of the coordinate-based technique and the object-based technique. The testing mechanism includes recording steps and testing steps. Recording steps includes receiving operational commands and the object properties of the terminal device, converting the object properties into the coordinate commands, and generating a testing script file. Testing steps includes finding abnormalities of the tested terminal devices according to the testing script and verification testing GUI. In addition, the physical button testing and cross-platform testing are supported by the testing method in the present invention, i.e. the created script file of the present testing method is capable of using in multiple platforms. Comparing to the conventional GUI testing method, the present testing method provides an easier and faster way to testing GUI objects. The conventional manually operation steps, such as settings and composing the description files, compiling objects and transforming program codes, may be obviated with using the present invention. In this way, GUI objects of terminal devices can be tested efficiently and effortlessly.

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專利技術名稱

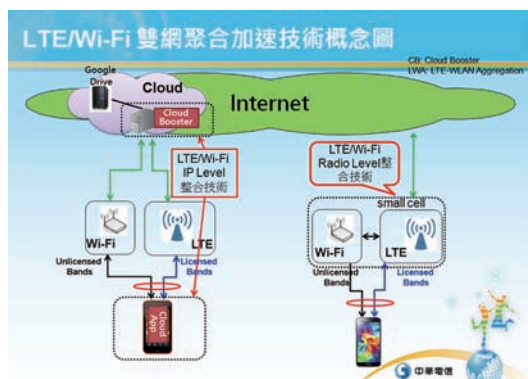
異質網路整合方法及裝置

Method and Apparatus of Heterogeneous Network Aggregation

Patent No: (R.O.C. 優先) 104130884 (申請案號)

專利權人：中華電信股份有限公司 / CHUNGHWA TELECOM CO., LTD.

發明人：王中和、吳思賢、劉家宏 / Wang, Chung-Ho / Wu, Sz-Hsien / Liu, Chia-Horng



專利技術介紹：

一種異質網路整合方法及裝置，係在行動網路與無線網路涵蓋範圍重疊的環境中，異質網路整合終端同時利用行動網路與無線網路傳送下行訊務的技術，當異質網路整合終端傳送下行訊務時，同時開啓行動網路與無線網路空中介面，並向行動網路要求同時利用行動網路與無線網路傳輸，行動網路分配異質網路整合終端下行訊務至行動網路與無線網路，藉由同時利用行動網路與無線網路頻寬的特點，可達到加快下行訊務傳輸速率及縮短使用者等待時間的進步性。

Patented technology introduction:

Method and Apparatus are provided for aggregation of heterogenous networks, for the scenario of the mutual coverage of both mobile and WLAN networks. The device enables the radio interfaces of mobile and WLAN, and requesting the mobile network to transmit the data traffic through mobile and WLAN networks simultaneously. By means of using the bandwidth of mobile and WLAN networks simultaneously, the data transmission rate can be enormously enhanced, and the latency of user application can be greatly minimized.

中華電信股份有限公司 / CHUNGHWA TELECOM CO., LTD.

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專利技術名稱

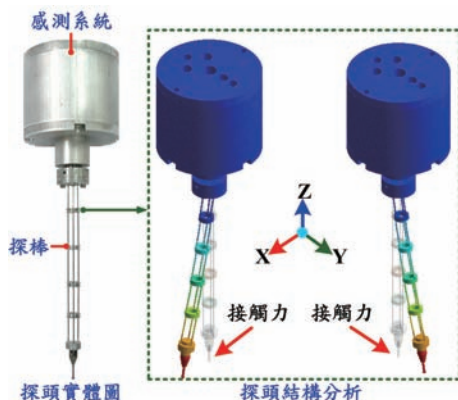
探棒前端感測式探頭

Probe tip sensing probe

Patent No: (R.O.C. 優先) 105115250 (申請案號)

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、陳柏霖 / Chih-Liang Chu, Hung-Chi Chen, Bo-Lin Chen



專利技術介紹：

本產品僅用三根微細鋼管即突破現有三次元掃描探頭結構設計上的瓶頸，並使用探棒前端的光路設計感測工件表面的形狀變化，如此感測方式將排除探棒變形誤差，更能確保量測的精度，且整合自行研發的超精密光學 1D 位移與 2D 角度感測系統，成功地設計出一低成本、高精度之「探棒前端感測式探頭」。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表面形貌。

Patented technology introduction:

This product uses only three pieces of fine steel that break through the bottleneck of the existing three dimensional scanning probe structural design. At the time of actual measurement, measuring probe is to use optical design of probe tip to sense the change in shape of the workpiece surface measured, so sensing mode will be able to better ensure the accuracy of measurement. By integrating the structure with a self-developed ultra-precision optical 1D displacement and 2D angle sensing system, a low-cost and high precision of probe tip sensing 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 surface topography 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

光纖廣告裝置

Advertising Equipment with Plastic Optical Fiber

Patent No: (R.O.C. 優先) I408629

專利權人：台灣光纖股份有限公司

發明人：游朱義 / YU, CHU YIH



專利技術介紹：

1. 全球第一個能做出背投面板的透光水泥。
 2. 全球唯一能做透光立體產品的公司。
- 我們技術創新領先歐美先進國家 10 年以上。歐美透光水泥的技術仍停滯在透光度 4%，而我們創新研發的技術已將透光度提昇到 10%~50%，更甚至於結合背光投影技術創造出全球唯一無尺寸限制之透光水泥影像螢幕。若與市面一般大型 LED 看板相較，透光影像螢幕具有以下優勢：(1) 影像柔和無熱源無炫光；(2) 超級節能可省下 90%~94% 用電量；(3) 耐 5,000 磅壓力；(4) 施工容易；(5) 接收全光譜陽光讓身體健康；(6) 抗 UV 降低室內溫度；(7) 耐用壽命長；(8) 免維修費用及超高解析度等。

關鍵性 – 透光水泥製作出可撓性 3D 立體造型。與一般的大型 LED 看板相比，透光影像螢幕的營運成本比大型 LED 看板減少 89%。舉例來說 (1) 醫療院所重症病房與 (2) 植物工廠之全光譜採光；(3) 取代 LED 看板之缺點；(4) 運動場館播報影像螢幕；(5) 5D 電影城；(6) 建築藝術採光宛如透光壁畫；(7) 藝術透光 3D 立體造型佛像；(8) 透光地磚、導引步(車)道、透光舞台；

(9) 實擬實境遊戲螢幕等等。未來設計創意 – 全球最大觸控光學螢幕、建造發光大佛像與飛天菩薩等。

工程實績與新聞發佈會在中國肇慶舉行，中國媒體新聞 43 家報導，電視新聞 2 家報導。

Patented technology introduction:

1. Due to energy shortages and climate extremes factors, if the human let sunlight through the building body directly into the home interior, it can save a lot of lighting energy and also promote good health, reduce artificial light irradiation. But so far, without any of the material at the same time have building strength and would allow light transmission.
2. Business Conduct and LED development, combined with the development of outdoor advertising signs, actually the large LED billboard is very power consumption, fragile and short life. But the human is no better large screen replaced by technology, so large LED billboard is commercials on a single show. In fact, the largest outdoor plane of human society is building facade. If the entire building exterior wall is a screen, not only building body can be lively, commercials can also find a better platform.

Two requirements above all be solved by the present invention [Image Wall] translucent cement bricks (Light Brick) with 6,200 pounds of strength, light transmission rate of 20%, the light spot can be neat array, a good resolution, as the building exterior wall use, not only during the day can lighting, can also be used as a commercial movie play panel at night, do not afraid of the wind and sun, the same area of the player need only 6.2 percent of the power consumption of the LED billboards. Without any maintenance costs, no installation technology, combined the traditional architecture and the image panel perfectly.

Business needs of large panel billboards the Image Wall unlimited extension combinations, regardless of how much advertising panel. Do not need to make any investment in factories to mass production, this is the dream of the construction industry of science and technology materials, it is the only global impact resistance, has super-strength image panel.

捷威科技股份有限公司 / Mesure Technology Co., Ltd.

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專利技術名稱

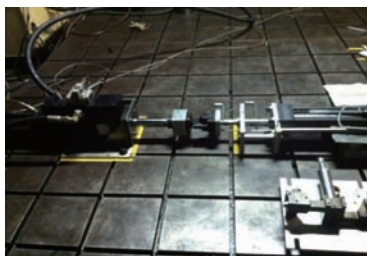
火工品負載模擬校正裝置及變容測試裝置及測試方法

LOAD SIMULATION AND CALIBRATION DEVICE FOR PYROTECHNICS AND
VARACTOR TEST APPARATUS FOR THE SAME AND TEST METHOD FOR THE SAME

Patent No : (R.O.C. 優先) 105120329 (申請案號)

專利權人：中華學校財團法人中華科技大學 / China University of Science and Technology

發明人：石大明、戴進福、王弘逸 / Shih,Ta-ming, Dai, Chin-fu, Wang, Hung-Yi



校正機構 Calibration system



測試機構 Test measurement system

專利技術介紹：

開發變容輸出壓力之量測裝置，模擬真實系統機構之阻力特性，且可重複使用，驗證裝置可即時量測火工件輸出壓力、裝置阻力、容積變化等。以一磁流阻阻尼器伺服系統（反應快，動作確實）來模擬輸出的負荷曲線，藉由動態調整阻尼係數，模擬背壓的出力狀況。可藉由電流控制負載驗證與負載關係，並參考相關曲線提供作為控制器的控制輸入。

Patented technology introduction:

The system is used to simulate the resistance characteristic of the real force system and can be reused. The developed device can be used to measure the output pressure of the workpiece, the resistance of the device, the volume change simultaneously. The load curve of the output is simulated with a magnetoresistance damper servo system (faster and accurate response), and the output condition of the back pressure is simulated by dynamically adjusting the damping coefficient. The load relationship can be verified by the current control load and the control input as a controller is provided with reference to the relevant curve.

中華學校財團法人中華科技大學 / China University of Science and Technology

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專利技術名稱

促進第五型磷酸二脂酶抑制劑經皮吸收的醫藥組成物

Improved Pharmaceutical Composition for Enhancing Transdermal Delivery of PDE-5 Inhibitor

Patent No : (R.O.C. 優先) I422399

專利權人：群泰生物科技股份有限公司 / Trittech Biopharmaceuticals Co Ltd

發明人：劉一劍、吳沛玲 / Yee-Chien Liu, Pei-ling Wu



專利技術介紹：

全球性功能障礙人口超過 4 億人，治療藥物 (威而剛、犀利士、樂威壯) 的總銷售額也超過 40 億美金。雖然他們的臨床效果良好，不過副作用廣為人所詬病，尤其在 40 歲以上的中老年使用者。因此如何避免藥物的心血管及猝死風險，將是這類醫藥開發的終極目標。本發明的目標為改良第五型磷酸二脂酶抑制劑的劑型及吸收方式，讓藥物從陰莖吸收產生臨床效用，又因為組織可以當做貯存器官，藥物可以在陰莖吸收後達到飽和，因此塗藥後可達到緩慢釋放的效果，隨時可以促進勃起。

Patented technology introduction:

Over 400 million males suffer from erectile dysfunction (ED). Currently, phosphodiesterase type 5 (PDE5) inhibitors such as sildenafil (Viagra), tadalafil (Cialis) and vardenafil (Levitra) are used to treat ED orally and their annual sales are up to 4 billion USD. Although PDE5 inhibitors show a satisfied efficacy in treatment of ED syndrome, the undesired side effects somehow happen after consumption. Therefore, to find the useful methods or dosages for elimination of cardiovascular side effects and sudden death, especially in aged users over 40 years old, becomes a straightforward improvement of PDE5 inhibitors. In this study/invention, Trittech focused on the development of new dosage and transdermal delivery to increase the clinical values of PDE5 inhibitors. We selected unique transdermal enhancers to formulate vardenafil as a topical gel for local application on penile groove. The results demonstrated that vardenafil can be absorbed transdermally and restored in tissue to reach plateau concentration. Functional assay also showed topical vardenafil can enhance penile rigidity and sexual activity in rat. Hence, the improved dosage might locally deliver vardenafil into penile. The penetrated vardenafil could saturate in tissue and in turn long-lastingly release to facilitate erectile once acceptance of sexual stimuli.

群泰生物科技股份有限公司 / Trittech Biopharmaceuticals Co Ltd

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專利技術名稱

一種提升檸檬多酚含量的檸檬發酵方法

A new lemon fermentation method for increasing the content of lemon polyphenols

Patent No: (R.O.C. 優先) 201510086881.8

專利權人：健茂生物科技股份有限公司 / JIAN MAO BIOTECH CO.,LTD.

發明人：陳啟楨、許長祿 / CHEN CHEE-JEN, HSU CHANG-LU



專利技術介紹：

本發明為關於一種提升檸檬多酚含量之發酵方法，是將整顆檸檬含皮含籽榨成汁，並添加益生菌進行發酵，不僅發酵後口感風味更佳，益生菌在檸檬皮汁籽的發酵過程中可有效分解釋出檸檬皮汁中的多酚含量，多酚含量比發酵前明顯提高。

Patented technology introduction:

The Invention relates to a new fermentation method: "do not add any sugar, but only add probiotic into lemon juice, which was squeezed from whole lemon, includes lemon skin (peel), lemon seeds. The result of the new fermentation method: taste of lemon juice, not only taste better, but also shows that probiotic can effectively ferment lemon peel and release more polyphenol. Polyphenol content was significantly higher than other fermentation method.

健茂生物科技股份有限公司 / JIAN MAO BIOTECH CO.,LTD.

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專利技術名稱

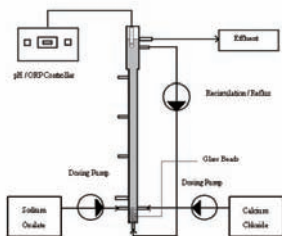
以流體化床結晶技術合成均質草酸鹽結晶物之方法

A METHOD OF SYNTHESIZING HOMOGENEOUS GRANULAR OXALATE CRYSTALS BY USING FLUIDIZED-BED CRYSTALLIZATION TECHNOLOGY

Patent No: (R.O.C. 優先) 105113462 (申請案號)

專利權人：嘉南藥理大學 / Chia Nan University of Pharmacy and Science

發明人：盧明俊 / Ming-Chun Lu



專利技術介紹：

本技術不需要在流體化床反應槽內使用擔體，乃利用操作條件與反應槽設計的改變使晶體在流體化床反應槽內形成，可應用於廢水處理或化工產品合成。本發明利用造粒的方式將草酸廢水中的草酸根離子與含鈣離子反應生成草酸鈣，從而避免使用氧化劑之高成本以及沉澱法所產生之高污泥量問題。本發明之創新點在於將習知傳統技術所需要之多個單元之功能，垂直整合在單一裝置，使用均質結晶的方式去除水中之草酸鹽，藉以提供一種能夠減少佔地空間，可減少土地費用，設備建造費只有傳統程序之三分之一，並減少大量產生污泥量，進而減少處理成本並達到環保與淨水功效之目的。本發明採用全球獨步之均相成核結晶技術，有別於一般傳統非均相結晶，因此，所獲得結晶物純度高，可做為原料出售。本技術也可以應用在中含重金屬廢水之處理。

Patented technology introduction:

This invention applied a fluidized-bed homogeneous crystallization reactor to synthesize oxalate crystals. This method overcomes the limit of adding carriers at the initial operation stage. By changing the operation conditions and reactor design, crystals are formed in the reactor directly. The process can produce calcium oxalate with high purity and therefore has potential to be applied in product synthesis and wastewater treatment. The process especially can be applied to treat the wastewaters from the rinsing or etching processes with oxalic acid in the semiconductor industries. The fluidized-bed homogeneous crystallization process, which is a unique technology in the world, can generate calcium oxalate granules with high purity instead of high-moisture sludge or consuming too much oxidant. Therefore, this process integrates several traditional units in a single reactor to remove oxalate from wastewaters. There are several advantages: (1) saving space, (2) reducing sludge, (3) cost down, (4) higher efficiency. Compared with conventional heterogeneous process, this new one can generate high-purity product. This technology can be also applied for treatment of heavy metal-containing wastewater.

嘉南藥理大學 / Chia Nan University of Pharmacy and Science

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專利技術名稱

抗氧化導電銅膠及其製備方法

Antioxidant conductive copper paste and method for preparing the same

Patent No: (R.O.C. 優先) 104134447 (申請案號)

專利權人：張瑋辰、馬維揚、翁芳維、梁竣翔、鍾承桓、莊棋凱、楊村農 / Wei-Chen Chang, Wei-Yang Ma, Li-Wei Weng, Jun-Xiang Liang, Cheng-Huan Chung, Chi-Kai Chuang, Tsun-Neng Yang

發明人：張瑋辰、馬維揚、翁芳維、梁竣翔、鍾承桓、莊棋凱、楊村農 / Wei-Chen Chang, Wei-Yang Ma, Li-Wei Weng, Jun-Xiang Liang, Cheng-Huan Chung, Chi-Kai Chuang, Tsun-Neng Yang

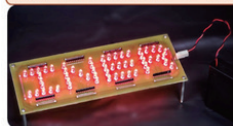
銅油墨應用於穿戴式裝置



銅油墨可圖案化應用設計



銅油墨藉由噴墨修補PCB電路



導電銅膠應用於太陽能電池



專利技術介紹：

根據 IDTechEx 市調機構的最新報告 "Printed, Organic & Flexible Electronics Forecasts, Players & Opportunities 2016-2026" 顯示，軟性電子市場將於 2016 年達到 260 億美元，並於 2026 年大幅成長至 690 億美元，其中具有廣泛應用端的金屬導電油墨將扮演著關鍵的角色。

目前市場上的金屬導電油墨係以銀油墨為主，未來如能以低成本的抗氧化銅油墨來取代昂貴的銀油墨，將可大幅降低軟性電子產品之成本。

本發明提供一種具有優良抗氧化特性之銅油墨商品，製程簡單、快速、環保且容易量產，其成本僅為奈米銀的 1/20。不但可應用於可印式電子市場，亦可應用於電子標籤、印刷電路板、3D 列印及太陽能電池等產品。

Patented technology introduction:

According to the latest IDTechEx Research report "Printed, Organic & Flexible Electronics Forecasts, Players & Opportunities 2016-2026", the total market for printed, flexible and organic electronics will grow from \$26 billion in 2016 to \$69 billion in 2026. The conductive pastes used for a wide range of applications will play a critical role in this market.

Silver pastes have dominated the market of conductive ink for years. If the expensive silver pastes can be substituted by low-cost antioxidative copper pastes, the cost of the flexible electronics will be reduced largely.

The patent can provide a kind of conductive copper paste, featuring excellent antioxidant capability, simple processes, eco-friendly ingredients, easy mass production, and low cost. It can be applied not only to the printed electronics, but also to electronic labels, printed circuit boards, 3D printing, solar cells, etc.

核能研究所 / Institute of Nuclear Energy Research

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專利技術名稱

瓦斯預警遮斷裝置

Intelligent gas safety system

Patent No: (R.O.C. 優先) M513973

專利權人：林揮明 / Hui Ming Lin

發明人：林揮明 / Hui Ming Lin



專利技術介紹：

智慧瓦斯預警遮斷裝置，系針對瓦斯烹煮之使用者開發設計，忘記關瓦斯是所有人的經驗，尤其是上年紀人更是頻繁，因為忘記關瓦斯造成生命財產損失，時有所聞。本系統共有四大安全功能：一、智慧遮斷二、定時遮斷三、瓦斯外洩遮斷四、地震遮斷，堪稱全球最智慧瓦斯安全裝置。

1. 智慧功能－透過智慧感應，人離開廚房超過 15 分鐘，自動關閉瓦斯。（不怕忘記關瓦斯）
2. 定時功能－可設定爐火關閉時間 1~99 分鐘，關閉瓦斯前 3 分鐘提醒通知。
3. 斷漏功能－瓦斯外洩警報自動關閉瓦斯。（主機內鍵日本製瓦斯感測器）
4. 防震功能－複合式瓦斯安全閥，震度達到 5 級（200gal）自動關閉瓦斯。（無需電力提供）

Patented technology introduction:

Intelligent gas safety system

The world's most intelligent gas safety technology

1. <Intelligent> With its intelligent sensors, the system will turn off the gas automatically, if no human beings are detected in the kitchen for 15 minutes or more. (Never afraid of forgetting turning off the gas)
2. <timer> Gas stove can be set to be turned off with a 1 to 99 minutes timer. A reminder will sound three minutes before the pre-set time is up.
3. <leakage detection> Alarm will sound and gas will be automatically shut off if leaking gas is detected. (Build in Japanese made gas detector)
4. <Earthquake fire proof> Composite gas safety valves can stand magnitude 5(200gal) earthquakes and can still safely shut off gas. (No power required)

城安瓦斯器材有限公司 / ChenAn Gas Appliance co., LTD.

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Fax : 05-3752760



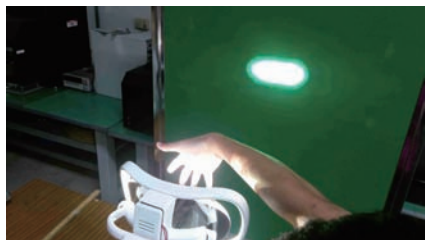
專利技術名稱

牙科燈之反光罩 REFLECTOR OF DENTAL LAMP

Patent No : (R.O.C. 優先) I503506

專利權人：國立高雄第一科技大學 / National Kaohsiung First University of Science and Technology

發明人：謝其昌、李彥輝、唐誠燦 / Hsieh, Chi-Chang、Li, Yan-Huei、Tang, Cheng-Tsan



專利技術介紹：

本專利提出多平面反射結構設計之方法適用於應用 LED 光源之牙科醫療燈，利用多平面結構技術控制光線分佈焦點，令使 LED 反射式牙科燈表現可達到 ISO-9680 法規對牙科燈光斑特性的測試標準。照明表現的檢測結果可同時達到國際法規與現今醫療機構採購標準；均勻度佳並消除鬼影現象，突破 LED 反射式牙科燈無影度不足的現況。LED 燈使用量減少 33%，用電量亦節省 30% 以上，反射式設計提供足夠的工作距離，此要求是為降低醫療過程中因燈具上下位移而造成的光斑變化，避免造成醫療失誤。使用效率更高、材料更少，可提高燈具產品的使用壽命與效率，且能減少資源的消耗，進而降低成本，提高競爭力；因此 LED 反射式牙科燈將擁有廣大的 LED 醫療燈具核心關鍵元件市場。

Patented technology introduction:

The surface of reflective modules in LED reflective dental lamps is equipped with numerous reflectors oriented at various angles. Such reflectors are interconnected, presenting a checkerboard configuration. Structural technology (i.e, continuous multiplanar reflectors) can be employed to reflect a light source onto a target plane. The reflection angles of the various surfaces are calculated according to the size of the target light spots and their corresponding coordinate positions on the independent surfaces in the various sectors of the reflector. After the angle of each independent reflective plane is adjusted, the LED reflection forms an illuminated rectangle, satisfying the requirement of International Organization for Standardization 9680. The results are then illustrated using a 3D component, which is incorporated into optical simulation software for verification. The LED reflection is superior to the illuminance of traditional dental lamps and supplements the inadequate performance of LED dental lamps.

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專利技術名稱

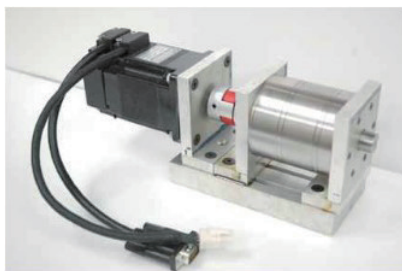
滾珠螺旋連續曲線變速傳動裝置

Variable speed transmission device of ball screws with continuous curve

Patent No : (R.O.C. 優先) 104122192 (申請案號)

專利權人：虎尾科技大學 / National Formosa University

發明人：黃社振、蔡翼鴻 / Hwang Shen Jenn, Tsai Yi Hung



專利技術介紹：

具有徑向與軸向面之特殊連續曲線滾珠螺旋變速傳動裝置，不但具有滾動接觸之圓滑傳動，並具有體積小，高減（增）速比、高扭轉剛性與低傳動誤差等特點。

可任意 層之彈性設計，其輸入至輸出之傳動速比為 $i = (\frac{T_2}{T_1})^n$ 。多層設計更能有效提升剛性與減少傳動誤差，並可依實際設計需求隨變速模組之增加而提高速比。

Patented technology introduction:

A ball screw transmission device on radial and axial plane with special continuous curve , not only have the smooth transmission of rolling contact, and has small volume, high decrease (increase) ratio, high torsional rigidity and low transmission error, etc. Can be arbitrary combination of n layer flexible design, the transmission ratio of input to output as

Multilayer design can more effectively improve rigidity and reduce the transmission error, and can be in accordance with the actual design requirements increase with the increase of transmission module of the speed ratio.

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專利技術名稱

C 型鋼組合套件結構

THE ASSEMBLY SET STRUCTURE FOR THE C-CHANNEL STEEL

Patent No: (R.O.C. 優先) M 517221

專利權人：劉泰佑 / Taiyo Liu

發明人：劉泰佑 / Taiyo Liu



專利技術介紹：

輕鋼構建屋的關鍵技術乃在於建立一個經濟快速有效的連接系統。金緯綠建材有限公司劉泰佑總經理所研發『C 型鋼組合套件結構』專利，係一盒狀連接器，在建屋時從頭到尾只須用這種連接器與 C 型鋼連接，一般人使用普通工具，就可以快速、簡單、輕鬆地鎖上螺絲完成輕鋼構屋的骨架；鎖固之鋼構堅固耐腐蝕，正常使用壽命百年以上。日後如有需要拆、增或改建，只需拆或裝鋼構連接處之盒狀連接器，再連接或拆除 C 型鋼，容易快速，不會破壞牆體，材料可再使用。

本技術是目前全球輕鋼構同業中唯一具有可計算結構力之輕鋼構工法，可建造耐 8 級以上強震、抗 17 級以上強颱風之建物，具有安全健康、環保節能、舒適美觀、耐久、自然和諧等特性，具極優異之競爭力。

Patented technology introduction:

A breakthrough construction-efficient and cost-effective connection system for C-Channel steel used in building is developed by Taiyo Liu of JINWEI GREEN MATERIAL CO., LTD.

Using a prefabricated box-type connector and general tools, the non-technical people can rapidly build a LGS structural house simply by connecting the connector with the C-Channel steel and fasten the screws. The connecting point once fastened, is reinforced and becomes much stronger as a whole system of the building. To extend or modify the building structure is also easy and simple, just install or remove the connectors and C-Channel steels with no risk of damaging the connector. All the materials can thus be reused.

This connector technology is the only one that can be used to calculate the strength for the column-beam system in LGS industry. Using this connector technology, a building can be designed to withstand above VIII seismic intensity scale and above 184 KM/hr wind speed. A dream house that is safe and healthy, environmentally friendly and energy saving, cozy and beautiful, long life span, and natural and harmony is easy to achieve using this extremely powerful and competitive technology.

金緯綠建材有限公司 / JINWEI GREEN MATERIAL CO., LTD.

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專利技術名稱

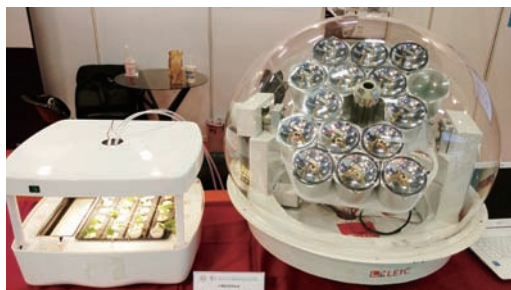
太陽能照明系統

A SOLAR LIGHTING SYSTEM

Patent No: (R.O.C. 優先) I522584

專利權人：正能光電股份有限公司 / LATTICE ENERGY TECHNOLOGY CORPORATION

發明人：李昆益、簡達益、許海音、陳冠宇、胡芬綾、李偉裕、林晏瑞、陳建君、高千勛、林旻翰、郭佳瑜、曾詩涵、張勤煜 / LEE, KUN YI; CHIEN, TA YI; HSU, HAI YIN; CHEN, KUAN YU; HU, FEN LING; LEE, WEI YU; LIN, YEN JUEI; CHEN, CHIEN CHUN; KAO, CHIEN HSUN; LIN, MIN HAN; GUO, CHIA YU; TSENG, SHIH HAN; CHANG, CHIN YU



專利技術介紹：

本發明創新提出一種太陽能照明系統，收集並導引太陽的自然光，至所需要的場所。本發明具有如下述之特點及功能：

1. 可以將太陽光導引至需要照明的場所。在一般情況下，不需要耗費電能，符合節能環保的趨勢。
2. 本發明在太陽光不足的情況下，可以利用太陽能自動補充照明的亮度，因此更能節能減碳的目的，提升本太陽能照明系統之使用效率。

本發明實施例包括：自行設計開發之集光器、導光模組及放光單元，能增加使用太陽光之效率。配合太陽能薄膜電池、控制暨儲放電設備及發光裝置 (LED) 作為自然光不足情況下之補充照明。

Patented technology introduction:

A solar lighting system, for providing light to a specific place, includes at least one light-gathering device, a light-guiding module, at least one light-emitting unit, at least one thin film solar cell and at least one illuminating device. The light-gathering device is disposed outside the specific place for receiving the outer light. The light-guiding module is connected to the light-gathering device for guiding the light from the light-gathering device to guiding and transmitting the received light. The light-emitting unit is connected to the light-guiding module and disposed in the specific place for emitting the light from the light-guiding module. The thin film solar cell is disposed under the light-gathering device to receive the light passed through the light-gathering device and convert the light into electricity to be saved in electricity saving device. The light-emitting unit is disposed above the light-gathering device, which can provide light to the light-gathering device with the saved electricity, when the outer light is not enough.

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專利技術名稱

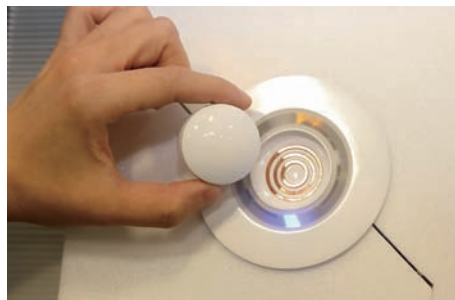
電聯結裝置

Electric Coupler Device

Patent No: (R.O.C. 優先) I463753

專利權人：陳宏宇 / Hung Yu Chen

發明人：陳宏宇 / Hung Yu Chen



專利技術介紹：

一種無方向性、易插拔，且具高安全性與廣泛延伸應用特性之磁吸式電聯結裝置。裝置本體不僅為新式的插頭與插座模組，更可應用於任何電聯結介面。以無方向性插接頭，與無方向性全封閉面插接座，配合同心圓電極的方式設計，藉由弧線封閉面插座槽與磁吸，導引使用者快速地找到插接的位置並完成連接。即使處在視線死角，也能夠以任何方向或角度輕鬆地將插頭吸附插接於插座上，時尚便利。全封閉式弧形插接面設計，加上插座內安裝磁力栓鎖安全開關的應用，讓相對應的插座與插頭在未聯結時自動形成斷路保護，能有效防水、防塵、防漏電、防觸電、防誤插，使安全性再升級。

Patented technology introduction:

A non-polarized, easy to plug and unplug, safe, and universal magnetic Electric Coupler Device guides users to quickly locate the socket and complete connection using a non-polarized plug and a non-polarized socket in a concentric design with magnet on the sealed concave socket. Even in a blind spot, users can easily plug in a socket from any directions or at any angles, convenient and modern. Its sealed concave socket design together with the magnetic latch safety switch forms an open circuit as protection when the plug is not connected to the socket. This design delivers effective resistance to water, dust, electrical leakage, electric shock, and misconnection to enhance safety.

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專利技術名稱

太陽能桌

The solar power table

Patent No: (R.O.C. 優先) 104124108 (申請案號)

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

發明人：鄭文達 / JHENG, WERN DARE



專利技術介紹：

若能讓世人方便取得潔淨的電力，減少對電廠的依賴，將有機會改變地球生態的浩劫。本產品導入獨步全球的彩圖太陽能技術與無線充電裝置，把輕巧方便的桌子變成取得太陽能的美麗載體。未來在居家或戶外活動都可以利用它取得免費的太陽能電力，提供給照明、風扇、手機、音樂等 3C 產品使用。本產品結合多項專利與技術，開發出具商品化價值的產品，已具有布局全球市場的潛力。

Patented technology introduction:

If we can let the world have convenient access to clean electricity, reduce dependence on power plants, will have the opportunity to change the Earth's ecological catastrophe. This product is the introduction of the world's leading colorful solar cell and a wireless charging system, and then the table becomes easy to obtain green solar energy products. Future in the home or outdoors can use it to obtain free solar electricity, to provide lighting, fans, mobile phones, music and other 3C products.

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專利技術名稱

無動力榨汁兼具茶水分離結構改良

Improved structure with unpowered juicing function and tea leaves and water separating function

Patent No: (R.O.C. 優先) M495171

專利權人：陳漢綜、陳維福 / CHEN, HAN-TSUNG / CHEN, WEI-FU

發明人：陳漢綜、陳維福 / CHEN, HAN-TSUNG / CHEN, WEI-FU

專利技術介紹：

一、

泡茶時為避免茶葉長時間浸泡，影響口感，一般使用茶壺(罐)沖茶，並在適宜的時間將茶水倒至公杯，再由公杯分裝至各人茶杯來飲用。因而習慣用多種泡茶罐，是為方便茶水泡茶而設計的，都是長久浸泡無法茶水分離。茶葉浸泡過久會影響口感。

突破傳統，集合：茶壺、茶杯、茶盅、過濾、水壺、排氣、榨汁等七種功能的「茶水分離蝴蝶杯」合為一體。能茶水分離，免浸泡苦澀的困擾，茶水濃淡自己控制，茶香處處飄，一般茶葉也能泡出上等好茶喝。杯身上創新設計有一榨汁器，方便榨檸檬、柳橙、橘子、奇異果…等，寬口徑設計容易清洗，特具獨創特性、創新性。

二、

人體追求健康、方便，茶水分離蝴蝶杯造型時尚，符合人體工學，男性顏色-經典藍，女性顏色-櫻花粉，整體材質採用德國拜耳(Bayer Makrolon)最先進食品級材料及高級耐高溫矽膠、304不鏽鋼濾網。經SGS檢驗報告測出無害塑化劑、雙酚A、重金屬…等無毒檢測，可耐酸，耐高溫126°C，耐低溫-20°C，同時可抗壓622公斤，耐摔耐用安全實用。

Patented technology introduction:

Unpowered Juicer Exhaust Type Tea Pot

- Material used Germany Bayer Makrolon.
- Combining juicer, filter, exhaust, teacup.
- Pass SGS tests. Not contain plasticizers, bisphenol A, heavy metals.
- High temperature+ 126 °C, Low temperature -20 °C.
- Have International patents.
- Won International awards.

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專利技術名稱

挖掘暨回收系統

Digging and recovery system

Patent No: (R.O.C. 優先) I539065

專利權人：正修科技大學 / Cheng Shiu University

發明人：張法憲、吳忠義、吳三連、許仕 / Fa-Shian Chang, Chung Yi Wu, San Lian Wu, Shih Hsu



專利技術介紹：

本發明為一種應用於城市建設管路挖掘創新裝置，具有運用監控系統操作自動化設備以達到地下管線開挖，或下水道淤塞挖掘工作，降低路面開挖與減少人員進入危險區域工作發生意外之機率。同時可使用自動化裝置取代人工作業之方式，進行下水道或是溝渠清潔工作，大幅降低工作危險與避免人員受到各種工安意外與傷害，其中履帶行走機構設計，可依排水溝圓弧形底部設計，可使用於各種管道，縮短施工時間，提高工作效率。可以結合各種口徑清淤車，抽取淤泥進行自動化清理，提高工作效率，確保排水溝之通暢。

Patented technology introduction:

The invention is an innovative device applied to the excavation of urban construction pipeline, and has the possibility of using the monitoring system to operate the automation equipment to achieve the underground pipeline excavation, the sewer excavation work, the road excavation and the personnel entering the dangerous area. The use of automated devices to replace the manual mode of operation, the sewer or ditch cleaning work, significantly reduce the risk of work and to avoid personnel by a variety of accidents and injuries, including track walking body design, Can be combined with a variety of calibers to clean up the car, take the sludge for automated cleaning, improve work efficiency, to ensure the smooth drains.

正修科技大學載具及電子科技中心 / Cheng Shiu University Vehicle and Electronic Science Technology Research Center

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專利技術名稱

活動感知地墊及其總成

ACTIVITY-SENSING GROUND PAD AND ASSEMBLY THEREOF

Patent No : (R.O.C. 優先) I519702

專利權人：世大福智科技股份有限公司、世大化成股份有限公司 / SEDA G-Tech, SEDA

發明人：徐業良、王為寬、張凱維、劉育璋、張維益

Hsu, Yeh-Liang; Chang, Kai-Wei; Liu, Yu-Wei; Chang, Wei-Yi



專利技術介紹：

本產品技術創新重點為「巧拼」形式活動感知地墊，將整片地墊材料製作成為壓阻式壓力感測單元（而非另行嵌入機電式感測器），使用者在居家環境中依其需求形狀與面積自由拼接，拼接完畢後韌體程式即能自動建立單元間相對地圖（auto mapping）。每組地墊使用 I2C 串列通訊建構單元間通訊傳輸，以內建 wi-fi 和低功率藍牙（BLE）將感壓訊息傳送至雲端伺服器與行動裝置，搭配雲端程式和行動裝置 App 撰寫，提供室內定位、活動力監測、跌倒偵測等基本功能，更能獨立發展多元互動應用產品。

Patented technology introduction:

The motion sensing mat is developed in the form of “puzzle floor mat”, which allows the users to DIY assemble the units according to their desired shape and area. The auto mapping firmware identifies relative positions of all units after assembly. I2C bus is used for data transmission between units, and built-in Wi-Fi and low-power blue-tooth transmit sensing data to the cloud server and mobile devices. Programs built in the cloud server and mobile device App provide functions of localization, mobility monitoring and fall detection. Many interactive devices are also to be developed based on this platform.

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專利技術名稱

口罩結構

Multi-function Mask

Patent No : (R.O.C. 優先) M505944

專利權人：胡衍榮 陳貴民 胡衍富 / Yen-Jung Hu, Gui-Min Chen, Yen-Fu Hu

發明人：胡衍榮 陳貴民 胡衍富 / Yen-Jung Hu, Gui-Min Chen, Yen-Fu Hu



專利技術介紹：

過敏原、塵蟎及 PM2.5 以下之微粒子等空污問題，愈趨嚴重並困擾著大眾之家居生活，病從口入長久以來一直是醫療體系頗為關注之話題。為改善人們之生活品質與維護身體健康，做到積極照護呼吸系統，是本發明創作之目的，其解決方法在於將高效率空氣過濾功能 (0.075 微米粒子過濾效率達 99.97%) 及加熱空氣的功能 (石墨烯技術與隨身充電器) 等兩項高新科技整合在一起。即搭配 3D 立體高效可洗式防護口罩，於其鼻樑位置前加裝熱超導石墨烯熱片。此項產學合作創新之鼻樑加熱式溫暖清淨裝置具備有舒適透氣、輕薄柔軟、遠紅外線放射、高效過濾、保濕及熱敷等功能，且具備有可重複使用、收納容易、產品耐用及環保等優點。

Patented technology introduction:

Allergens, dust mites and PM2.5 micro particle following the air pollution problems getting worth and plaguing the public's home life. Disease from the mouth has long been a topic of considerable concern to the health care system. It is the purpose of this invention to improve people's living quality and maintaining in a healthy state, we try to develop a device which could be used for taking care the respiratory system of people positively. Our solution was proposed that a combination of the high efficiency filtration function (99.97% particulate will be rejected) with the air heating function. That means a super heat transfer element of graphene was attached on the nose position of the 3D high filtration efficiency mask. This is a joined innovation between the industry and academy. With this mask, a cleaning and warming air was heated with a tiny heating element and keeping in a warm and moistening state for the mask wearer. There are several functions which included comfortable and breathable, light and soft, far infrared radiation, high efficiency filtration, moisturizing and hot compress etc. for this multi-functional masks. Furthermore, with the reusable, easy to store, durable and environmentally friendly products etc. advantages.

逢甲大學 / 合堂瑋有限公司 / Feng Chia University / HTT Company Ltd.

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專利技術名稱

穿戴式溫控裝置

PORTABLE THERMORAGULATOR

Patent No: (R.O.C. 優先) M530977

專利權人：奇岩電子股份有限公司 / Moai Electronics Corporation

發明人：蕭景中、林宜養、周育德、何政衛、洪明順、黃佑任 / CHING-CHUNG HSIAO, YI-YANG LIN, YU-TE CHOU, CHEN-GWEI HO, MING-SHUN HUNG, YU-JEN HUANG



專利技術介紹：

奇岩電子全球首創具有與手機無線通訊功能之穿戴式溫控裝置 (G2T-N2)，包括本體、溫控、多媒體、無線通訊、監測以及線控模組。

G2T-N2 可將適宜的溫度作用於人體頸動脈，藉由血液溫度的緩和改變，可調節人體的核心溫度。使用者可藉由無線通訊模組進行裝置溫度設定，以增加溫控操作的便利性，更適合在居家及工作環境中使用。亦能搭配多媒體模組可進行訊息傳遞如免持接聽電話服務、音樂，且可整合人體健康資訊與物聯網系統連結，藉以達到健康照護的效果。再者，當使用者無法使用無線通訊或無線控制情境下，無需取下本創作之穿戴式溫控裝置本體，可透過線控模組操控，特別適合運動間、行進間的即時操作。

Patented technology introduction:

G2T N2 - portable air conditioning with a personal sound space

Wearable Electric Scarf G2T-N2 provides full time cooling and heating system for individuals to have temperature control anytime and both indoor and outdoor. It works as a personal air-conditioner. Differ from traditional air-conditioner, G2T does not need coolants, ice or water. G2T has the capability to offer cool and warm without great energy consumption; therefore, it helps to care for the earth and save money for users.

Besides, not only does G2T-N2 regulate your body temperature so that you stay healthy, but it also encourage safer listening habit. G2T-N2 is Bluetooth 4.0+ compatible which means is easily paired with any iOS or Android device. Once connected, the user can enjoy the following:

- hands free phone calls
- stream live music, radio, podcast and online music services
- speaker source for watching your favorite YouTube videos
- GPS access directions while riding your bike

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專利技術名稱

具有固定結構的排水口濾罩

FILTER GRID HAVING A FIXING STRUCTURE FOR A DRAIN INLET

Patent No: (R.O.C. 優先) 104137772

專利權人：簡佑家 / Yu-chia Chien

發明人：簡佑家 / Yu-chia Chien



專利技術介紹：

- (1) 活動柵欄 - 可將落葉及泥沙阻隔於排水罩外，不會產生排水吸力而導致異物阻塞排水口造成積水或淹水，活動柵欄可隨地勢改變完 貼合地面，密合度高無死角。
- (2) 圓弧柵欄 - 具擾流效果，可降低排水管内產生漩渦，增加排水速度。
- (3) 簍空邊條 - 為菱形設計可降低風阻，底部固定器設計經風洞測試可耐 17 級強風 (風速 58.2 公尺 / 秒)。
- (4) 整體為全 PC 塑料材質 (汽車燈罩材質相同)，經檢驗單位測試耐日照、耐寒 (-40°C) 及耐熱 (70°C)，皆無任何損壞。
- (5) 反光上蓋 - 於夜間可快速辨別位置，也可加裝標桿，於大雪後可快速地找到排水口位置。
- (6) 無須施工，調整固定器 (1~5 英吋大小都適用) 直接覆蓋於排水口上。

Patented technology introduction:

- (1) Movable filter grid – blocks leaves, mud and debris outside drain inlet without affecting draining capacity as well as not causing water stagnation or flood arising from drain inlet clogged by foreign matter, and seamlessly close fit the ground regardless of ground surface conditions.
- (2) Dome-shaped grid structure – separates water flow to suppress generation of whirlpool and increases drainage speed.
- (3) Hollow-out grating – has multiple ribs being diamond-shaped and reducing the effect of wind drag, and a bottom seat capable of withstanding wind at Beaufort wind force scale 17 (equivalent to wind speed 58.2 m/s) generated in a wind tunnel test.
- (4) Fully made with polycarbonate plastic material (same material used by vehicle headlight cover) and tested by certification authority with damage-free assurance and weathering endurance to sunlight, low temperature (-40°C), and high temperature (70°C).
- (5) Reflective top cover – can be quickly identified where is the filter grid at night. Aside from this, stick the marker on top cover of the filter grid for easy found the location of the drain inlet in bad sight weather.
- (6) No construction required, and the bottom seat (applicable to the diameter for 1" to 5") can be adjusted to help direct placed on top of drain inlet.

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專利技術名稱

尿酸偵測電極與其製法

ELECTRODE FOR URIC ACID AND METHOD OF PRODUCING THE SAME

Patent No: (R.O.C. 優先) I504891

專利權人：中原大學 / Chung Yuan Christian University

發明人：鄭建業 / CHENG, CHEAN YEH



專利技術介紹：

一種新世代便宜的電流式電化學銅線尿酸偵測工作電極，其製作過程簡單容易方便並簡短(30小時)。藉由電鍍金於銅線上，再以化學鍵結方法將尿酸酵素(酶)及氧化還原媒介物二茂鐵甲醛共同鍵結在電極上，避免傳統之氧氣氧化尿酸之偵測方式以降低外加電壓使干擾信號減少，提高偵測準確性。此尿酸偵測工作電極偵測速度快，感應時間僅5秒，靈敏度佳具有0.403 ppm 偵測極限值，具廣大的線性偵測範圍(0.403-800 ppm)遠超過正常人血清及尿液中尿酸，並可長期重複使用(> 209天)，減少廢棄物處理降低環境汙染，屬綠色環保產品。此工作電極已應用於人體尿液中之尿酸檢測，其檢測準確度佳(85.6-95.5%)、精確度極高(97.6-99.7%)。此尿酸偵測工作電極可商品化製作成尿酸偵測試片及實驗室尿酸檢測計。

Patented technology introduction:

A new second generation uricase electrode for urinary uric acid determination has been developed by chemically binding both uricase and redox mediator ferrocene carboxaldehyde to inexpensive copper wire through simple electrodeposition of gold on copper surface and subsequent functionalization of the gold with L-methionine. During a 209-day testing period, the overall electrode performance exhibits in average a low oxidation potential of 0.33 V, a response time of 5s, a widest linear calibration concentration range (0–2.38 mM, $r^2 > 0.9952$), a sensitivity of 50 mA mM⁻¹, and a detection limit of 2.4 mM. Because it is long-term reusable as to reduce the waste disposal, it is an environmentally friendly product. The measurement accuracy and precision for the determination of uric acid in human urine specimens were 85.6–95.5% and 0.3–2.4%, respectively. The developed uricase electrode is potential for clinical applications. This uric acid detection working electrode can be commercialized to make uric acid test stripe or laboratory uric acid meter.

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專利技術名稱

快速心電圖檢測裝置

Ultra-rapid electrocardiogram device

Patent No: (R.O.C. 優先) M513674

專利權人：高雄榮民總醫院 / Kaohsiung Veterans General Hospital

發明人：黃偉春 / Wei-Chun Huang



專利技術介紹：

創新性：

目前本專利在國內及美國專利均無此設計。傳統十二導程心電圖檢查需依標準位置逐一黏貼，相當耗費時間。第一代用於十二導程心電圖檢查的輔助裝置，上面有 10 個孔洞，導線片需要依序移除離形膠紙，易浪費診斷時間，不易做定位及整理；無外側接孔可連接心電圖機；研發第二代快速心電圖檢查裝置使用透明矽膠材質，舒適感受性佳，透明材質易看清楚定位點，傳導線包埋於產品中，因此不需再接其他傳導線，外側會有接孔，可連接心電圖機器，另外再進行離形紙整合，採用一次移除離形紙設計，更將易於操作，讓即使不熟悉心電圖電極片黏貼位置人員可以快速且準確的貼附電極片。此突破性的創新設計，解決救護車上執行效率核心問題，因而成功推動高雄市正式建置全台灣第一個救護車「即時無線傳輸 12 導程心電圖」系統，且為全亞洲第一個救護車「行動傳輸 12 導程心電圖」系統，得以提升心肌梗塞病人照護品質，提供國人優質的心臟照護。

商品化程度與市場性：

目前台灣有七個消防隊配置 12 導程心電圖裝置有高雄市、屏東縣、宜蘭縣、台中市、雲林縣、彰化縣、台北市建立到院前心電圖系統，仍有 13 個縣市尚未成立到院前心電圖系統，且亞洲市場除新加坡外均未配備 12 導程心電圖裝置，估計有十萬組之市場，依每組一千元進行推估，此專利具有超過千萬元之拓銷潛力，若拓展至歐美市場，更具市場價值。

機能與實用性：

傳統十二導程心電圖檢查需依標準位置逐一黏貼，相當耗費時間。

- 1) 本專利設計使用透明矽膠材質，舒適度較柔軟，感受性較佳，透明材質易看清楚較容易做定位之準備。
- 2) 將傳導線包埋於本專利產品中，因此準備上不需再接其他傳導線，外側會有接孔，可連接心電圖機器，此產品將更易於操作，增加多樣性，更具市場價格。
- 3) 進行離形紙整合設計，採用一次移除離形紙設計，與目前需移除十個離形紙設計比較，使用本專利產品將更為方便。
- 4) 本新型讓操作者可以快速且準確的貼附電極片，時間可由 252 秒減少至 30 秒內即可完成十二導程心電圖檢查，尤其是應用於救護車上或急診室內分秒必爭的急救狀況上，更突顯出其效率及價值，故確實能達成本新型之目的

審美性：

本專利適用於不同材質，目前選定透明柔軟矽膠材質，更易定位；更環保，減少耗材的浪費；安全無副作用。定心布上標示高雄榮總心臟血管中心，以呈現本企業之識別形象。本專利操作介面完全以使用者為中心來思考，簡化流程，並利用愚巧法利用不同顏色辨識，加速檢查之進行。

Patented technology introduction:

- Ultra-rapid electrocardiogram device has transparent silicone material to put the device on patients' chest easily according to anatomy.
- Breakthrough innovative cross mark design by mid-sternum line and inter-nipple line
- Embedded conductive wire design hidden the 10 electrocardiogram cables inside the product and connect the device with single adapter.
- Smart design requires removing the tape once and makes electrocardiogram exam quickly.
- Because the ease of operation, anyone can quickly and accurately complete electrocardiogram within 30 seconds
- First design in the world

高雄榮民總醫院 / 輔英科技大學 / 國立陽明大學 / Kaohsiung Veterans General Hospital / Fooyin University / National Yang-Ming University

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