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2014 Highlights

2014 精選照片



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2012 鉑金獎 Platinum Awards

專利技術名稱

耐高溫多功能溶磷鉀微生物及其生物肥料製作

Thermo-Tolerant Multiple-Functional Phosphate-and Potassium-Solubilizing Microbes and Its Biofertilizer Preparation

Patent No : (R.O.C. 優先) 中華民國發明第 I 424979 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：張政雄、蔡宇柔、楊盛行 / Cheng-Hsiung Chang, Yu-Ruo Tsai, Shang-Shyng Yang



專利技術介紹：

由不同禽畜糞堆肥和生物肥料製備過程中分離得多功能耐高溫溶磷鉀細菌分離株 *Bacillus licheniformis* A3 和分離株 *Bacillus subtilis* H8，可以在 25° 和 50° C 下生長並溶解磷酸鈣、磷酸鋁、hydroxyapatite、磷礦石、長石活性、溶依利石及高嶺石活性外，同時具有澱粉質分解酵素活性、纖維素分解酵素活性、幾丁質分解酵素活性、果膠質分解酵素活性、蛋白質分解酵素活性和脂質分解酵素活性。當其接種至農業廢棄物及禽畜糞廢棄物等原料基質時，可加速腐熟、提升生物肥料品質與增加中溫和耐高溫溶磷和溶鉀微生物族群及其於中溫和耐高溫菌族群之比例。接種不同多功能溶磷和溶鉀活性菌株製備生物肥料可提升磷和鉀移動及溶磷和溶鉀菌族群，且可提升生物肥料品質為永續農業上可行方式深具發展潛力。

Patented technology introduction:

Bacillus licheniformis A3 and *Bacillus subtilis* H8 were isolated from preparation of agricultural waste and livestock waste composts and biofertilizers. Both can grow at 25°C and 50°C, solubilize tricalcium phosphate, iron phosphate, aluminum phosphate, hydroxyapatite, Israel rock phosphate, feldspar, illite and kaolinite, and have amylase, cellulose, chitinase, pectinase, protease, and lipase activities. Inoculation of these multi-functional therm-tolerant phosphate- and potassium-solubilizing microbes into agriculture, livestock, and poultry wastes biofertilizers preparation increased the biofertilizer temperature, decreased the total organic carbon and C/N ratio, increased the total nitrogen content and germination rate of alfalfa seed, elevated the soluble phosphate and potassium contents, accelerated the maturity rates, improved the quality of biofertilizers, and increased the populations of mesophilic and thermo-tolerant phosphate- and potassium-solubilizing microbes, cellulolytic microbes, proteolytic microbes and lipolytic microbes during the preparation of composts and biofertilizers. Therefore, the therm-tolerant multiple-functional phosphate- and potassium-solubilizing microbes *Bacillus licheniformis* A3 and *Bacillus subtilis* H8 are very important in bioresources recycling, agricultural applications, environmental protection and prospective for sustainable agriculture.

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專利技術名稱

具有生態環保功能之植草鋪面結構

Eco-Friendly Featured Grass Pavement Structure

Patent No: (R.O.C. 優先) 新型 M412182 號

專利權人：陳瑞文 / CHEN JUI WEN

發明人：陳瑞文 / CHEN JUI WEN



專利技術介紹：

本專利創作採用回收塑膠製成塑膠導水管架構取代鋼筋，架構設置透空狀植草盒，與混凝土結合成一結構體，形成表面具有透水透氣孔洞及植草穴的混凝土結構的 JW 透水植草鋪面。

本專利創作讓雨水藉由孔洞迅速排入鋪面下碎石層，透水率每分鐘達 200mm 免除水災發生，並讓鋪面上下空氣產生對流，具有降溫減碳效益；鋪面下微生物生態活躍，並分解空氣污染物提供植物養份，使植物生長茂盛，淨化水質及空氣及捕捉二氧化碳等重要的環保效益。長期保持平整，保水力高於傳統鋪面 6 倍，並可節省 5~10 次的維護費用，具安全、便利及永續性。

因應目前極端氣候所衍生的環境危害，JW 生態工法專利技術提供解決之道，打造安全、永續、健康、樂活的宜居 JW 生態都市。

Patented technology introduction:

This patent creation uses recycled plastic-made plastic-aqueduct architecture to replace steel rods. The architecture combined with hollow grass boxes and concrete becomes a solid structure and forms the JW grassing-planting permeable pavement which has permeable and breathable holes and grassing cavities on its surface.

This patent creation lets rain fall through holes quickly into the gravel layer under the pavement with the rate of permeability reaching 200mm/min, so as to exempt flood disaster and make air circulating up and down the pavement. It has the benefit of cooling and reducing carbon dioxide. The microorganisms under the pavement are active in decomposing air pollutants for providing nutrients to plants, which leads to lush and healthy plants. Also, the activity purifies both the water and air quality and captures carbon dioxide. Those are important benefits for environmental protection. In the meantime, the JW pavement has a water-reserving capacity about six times higher than traditional pavement, with maintenance costs 5 to 10 times lower than traditional concrete. In all, the JW grass pavement possesses the characteristics of safety, convenience and sustainability.

In response to the recent environmental hazards arising from extreme weather, the patented JW eco-technology provides a good solution to create a safe, sustainable, healthy, livable JW urban ecology.

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專利技術名稱

用於廢氣處理之溶劑組成物及其應用

Patent No: (R.O.C. 優先) 100116113

專利權人：王志銘；陳詩揚

發明人：王志銘；陳詩揚



專利技術介紹：

本發明係提供一種用於廢氣處理之溶劑組成物，其包含水以及溶解促進劑，藉由溶解促進劑的選擇與洗滌塔的操作，以使得該溶解促進劑可以有效的使廢氣與水互溶；另一方面，藉由洗滌塔循環功能，可將廢氣冷凝，並且令溶解劑與廢氣充分結合溶解，以達到妥善處理廢氣以及污染防治之目的。

Patented technology introduction:

This invention provides a solvent composition for the treatment of exhaust gases, which comprises water and a dissolution accelerator, a dissolution accelerator by the selection and operation of the scrubber. The solubility enhancers and the exhaust gas can effectively be water-dissolved. By the scrubber cycle function, the exhaust gas condensate allow the agents to dissolve the exhaust gas in order to achieve proper handling and control of waste gas and pollutants.

漢揚環保機械股份有限公司／國立聯合大學

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專利技術名稱

固態氧化物燃料電池及其製作方法

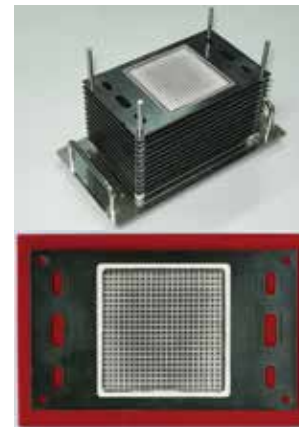
Solid Oxide Fuel Cell and Manufacture Method Thereof

Patent No: (R.O.C. 優先) I373880, US 8241812B2

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：黃振興、蔡俊煌 / Chang-sing Hwang, Chun-Huang Tsai



專利技術介紹：

固態氧化物燃料電池 (SOFCs) 是一種發電裝置，相較於火力發電或其他類型燃料電池，具高發電效率、低污染與燃料選擇多樣化等優點。金屬支撐型 SOFCs 因為具高機械強度與抗熱震特點，使其無論是在定置型或移動型燃料電池發電應用中都備受矚目。本專利主要揭露一種具奈米結構 SOFCs，依序包括金屬框架、多孔性金屬底材、陽極層、電解質層、陰極介面層以及陰極電流收集層。根據本專利所得到的 10x10 cm² 電池片，於 750°C 測試溫度下可得到 48 瓦的功率輸出。此外，製備前述 SOFCs 之方法亦被提出。本技術除可做為燃料電池發電使用外，亦可應用於氧氣穿透薄膜組與固態氧化物電解電池之製備，創造富氧燃燒條件，有助於燃煤發電時進行碳捕集動作，以及將二氧化碳與水還原成可再利用的氫氣與一氧化碳。

Patented technology introduction:

Solid oxide fuel cells (SOFCs) have unique advantages on other types of fuel cells or traditional power generation technologies, including inherently high efficiency, low gas pollution and high fuel flexibility. Due to such advantages as high thermal shock resistance and mechanical robustness in comparison with anode-supported cells (ASCs), the metal-supported cells (MSCs) have attracted more and more attention for stationary and mobile applications. In this patent, a solid oxide fuel cell including a metal frame, a pre-treated porous metal substrate, an anode layer, an electrolyte layer, a cathode interlayer and a cathode current collecting layer in sequence is provided. The prepared 10 x 10 cm² MSCs single cell can deliver 48 watts power output at 750 °C . Moreover, a manufacturing method of the SOFC mentioned above is also provided. This technique could be also used in manufacturing oxygen transport membrane (OTM) and solid oxide electrolysis cells (SOECs). The OTM device can increase the oxygen partial pressure during a coal-fired power generating process to enhance the efficiency of carbon capture. The SOECs device can transfer the carbon dioxide gas and water into hydrogen and carbon monoxide gases for further utilization.

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專利技術名稱

防盜裝置及其多功能鑰匙及鎖座

A Fingerprint Recognition Key and Burglarproof Lock Mechanism

Patent No: (R.O.C. 優先) M375107 號

專利權人：蘇炎坤 (代表人) / YAN-KUN SU

發明人：王平、郭溥村、樊鈺承、蔡豐州、黃琬筠、謝金村、陳郁詠、廖柏森
PING WANG, PU-TSUN KUO, YU-CHENG FAN, FENG-CHOU TSAI, WAN-YUN HUANG,
CHIN-TSUN HSIEH, YU-YONG CHEN, PO-SEN LIAO



專利技術介紹：

本創作係為一新的防盜機構，其結具指紋驗證功能之鑰匙、鎖座及防盜鎖具，其主要優點在於較傳統的鎖具有雙重的安全性，因採用保護機制結合可攜性指紋辨識裝置的技術，當鑰匙插入鎖座，先比對鎖具與鑰匙，正確後再透過指紋辨識裝置，進行指紋特徵比對身份；本發明因結合生物特徵的可攜性、數位保護機制及鎖座保護機制，相較於傳統鎖座，將不易被盜用，大幅提升安全性。此外，指紋擷取裝置與鑰匙結合具有可攜性，使用範圍為可運用於各式傳統鑰匙之裝置。

Patented technology introduction:

Our invention is a new burglarproof mechanism which aggregated with a fingerprint recognition key and a lock and a burglarproof lock mechanism. The advantage of this invention is that fingerprint recognition key integrated lock protection can check both the match result between lock and key as well as the identity of user when inserted in the lock so that it generates the double security over traditional locks. Compared to the security of the traditional locks, our invention is not easy to be unlocked and stolen, due to its biometrics portability, digital safety protection and lock function. Moreover, the portable security feature that key combined fingerprint extraction mechanism is capable of expanding the existing application to many fields.

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專利技術名稱

氣嘴結構 (商品名稱: uCushion 系列之坐墊、靠墊、枕頭、枕墊)

Gas Control Device

Patent No: (R.O.C. 優先) M387930

專利權人：鄭美麗 / CHENG MEI LI

發明人：鄭美麗 / CHENG MEI LI



專利技術介紹：

本專利運用大氣壓力物理性特徵及觸控式氣嘴可快速便利補充及微調氣墊氣體，使氣墊體可利用人體重量釋放氣體，構成正負交換，可完全服貼於使用者抵靠之部位，如頭、頸、肩、臀部等，更兼備高、低、軟、硬、塑形皆可調整之功效，可供使用者身體各部位及不同姿勢使用，完全符合人體工學，且使氣墊體具有絕佳的氣密性。

本專利不需電力之創新氣嘴環保節能設計，便於對氣墊體進行快速按壓式的進氣或洩氣，以及形成構造簡易之模組化結構，具有降低製造成本、便於組裝等特點。更可應用產出健康、美麗產業的系列新產品如：坐墊、靠墊、枕頭、枕墊等產品，目前廣受國內外消費者之好評，世界各國的訂單陸續湧入，亦是本技術所創造出的專利附加經濟價值。

創新技術：

- 1) 簡易模組化結構，具有降低製造成本、便於組裝等特點之
- 2) 觸控式氣壓調整鈕，使用簡單、快速微調個別化黃金需求
- 3) 免電力！自動對氣墊體補充或釋放氣體，效能長的綠色環保設計

Patented technology introduction:

Our special designed "gas control valve" adjusts the air bag inflated or outgassing, to achieve the required "high, low, soft, hard" of the cushion and the pillow, to make the health pillow and the cushion turn into the most perfect personal tailor-made.

Easy and quick adjustments to the elevation angles: dual-use pads designed for users suffering from back pains resulted from bad sitting postures by allowing micro-adjustments for buttock lifting and back comfort.

Innovated design of automatic move to equalize the air pressure, omnibearing soft and comfortable, help our neck relax inside out, 3D perfect arch design of patented could keep up the head and protect the cervical vertebra, to promote the quality of sleeping and health.

闊腦有限公司 / Kuo Nao Co., Ltd.

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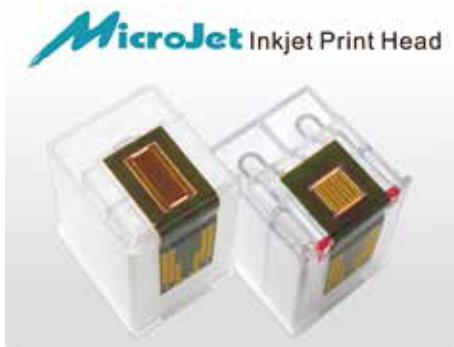
適用於加熱晶片之噴墨控制電路及其驅動電壓控制電路

Inkjet Control Circuit for Heating Chip and Driving Voltage Control Circuit

Patent No: (R.O.C. 優先) I 314514

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

發明人：歐享沛



專利技術介紹：

熱氣泡式噴墨頭的核心技術包括加熱晶片，本發明專利之控制電路為研能科技噴墨頭所創新，藉由可調控制電壓來調整固定驅動電壓以相對應輸出驅動功率電晶體之輸出驅動電壓。

研能科技是台灣噴墨頭之領導廠商，並開自主開發噴墨列印引擎，應用於各式列印領域。研能科技的噴墨頭在設計時即考慮操作簡便，並符合 ISO 9001、RoHS、Reach 等認證要求，且適用於多種印表機。噴墨頭電路力求印量極大化，以節省能源消耗。

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

Patented technology introduction:

MicroJet Technology is a leading Taiwanese manufacturer supplying inkjet Print cartridges with high standard and consistent quality.

MicroJet has developed the Inkjet Printhead solutions and is one of our most competitive products to offer to the market. Inkjet Print Engines are integrated with our own Inkjet Printheads, which are one of our most competitive products. On the basis of our own developed printing system, we could offer custom Inkjet Print Engine depends on your requirement and concerns. The flexibility of our Inkjet Print Engines makes it suitable for applications in platform/flatbed printers, standalone printers and in-line production equipments. Microjet Technology's Inkjet Print Engines make printing easy and efficient. Most of all, you do not need to concern about lots of limitation while using our Inkjet Print Engines, compare with others in the market, because we are the Original Equipment Manufacturer not reseller or remanufacturer.

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

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

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專利技術名稱

轉換機構及具有轉換機構之燈扇

Transform Mechanisms and Transformation Mechanism of Light Fan

Patent No: (R.O.C. 優先) 101120608

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

發明人：陳家偉，黃社振 / Chen Jia-wei, Hwang Shen- Jenn



各種造型變化之設計 (Changes in the design of various Configurations)



燈扇轉換之機構展開與收合 (Light-Fan transform mechanisms expand and collapse)

專利技術介紹：

本發明係為一種轉換機構及具有轉換機構之燈扇，其包括 N 組連動機架、一連動架及一光源部，該連動架係被一馬達驅動，並用以連動 N 組連動機架；藉由該馬達驅動該連動架所產生之離心力大小，即可控制該連動機架之展開、收合，達到風扇與燈之轉換；故，本發明兼具燈扇轉換、安全性高、模組化設計及可依設定達到律動等優點及功效。

Patented technology introduction:

The present invention is a transformation mechanism with a light-fan of the transformation action. Its composition of n bar linkage is driven by a motor. The centrifugal force generated by the motor to drive the turret, you can even control the motivation to start the frame, collapse, to transfer fans and lights. The invention is both lamp fan transformation, high security, modular design and can be adapted depending on achievement advantages of rhythm and function.

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專利技術名稱

007III 無煙環保烤肉爐

007III Smokeless BBQ Grill

Patent No: (R.O.C. 優先) I 348355

專利權人：呂見長 / Chien Chang Lu

發明人：呂見長 / Chien Chang Lu

007 無煙環保烤肉爐 (行動廚房) IQ GRILL



專利技術介紹：

本作品不同一般烤肉爐僅能室外使用木炭烘烤，而是能於室內外利用其遠紅外線加熱器由上而下正對食材上方燒烤，不會產生油煙造成環境汙染（無煙、無毒、低油、低脂肪），同時藉由側板、背板及蓋板三面擋風，集中熱度提昇烘烤效率，防止煙灰、蚊蠅或懸浮雜物沾黏於食材上，杜絕木炭烘烤火勢竄升危險，該食材油汁可滴落於底部集收，以保持衛生及使用安全。本作品採鋁合金 #5052 及不鏽鋼 #304 無毒材質製作，永不生鏽。一提成型，免組裝、免工具即可迅速展開使用。收合後，可將遠紅外線加熱器朝上，達到煎煮之瓦斯爐功能，形成一種行動廚房，烤肉、烤鋼管雞、烤箱、瓦斯爐功能，一爐全部搞定。搭配置物板，避免食材落地不破壞草皮及室內地毯。

Patented technology introduction:

Foldable Eco-Friendly Smokeless BBQ Grill

This Far Infrared Ray grill is rustproof & toxicant free. Transform into stove or oven in seconds. Preheat in 45 seconds, can be used both indoors and outdoors.

紐倫堡實業有限公司 / Nuremberg Enterprise Co., Ltd.

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專利技術名稱

動態測速方法

Dynamic Speed Finding Method

Patent No: (R.O.C. 優先)

專利權人：結合 GPS 的智慧型測速裝置 / An Intelligent Speed Detecting Device with GPS function

發明人：許毅然 / Yih-Ran Sheu



Fig. 1 An Intelligent Dynamic Speed Detecting Device

Fig. 2 An Intelligent Dynamic Speed Detecting Device

專利技術介紹：

目前交通警察使用雷達測速或雷射取締超速，在執行舉證時測速系統一定要靜止。本產品之目的在於解決警方利用手持式測速照像先天的限制，提供一種具有動態量測的測速裝置，使得警方在行進移動中進行動態測速變得可能，並且已取得美國、大陸、台灣等多國發明專利。本產品更透過自行撰寫的 APP 軟體，以智慧型可攜式裝置經由無線傳輸整合訊息命令與影像訊息，使得操作更加簡單人性化，具有遏阻並取締違規超速者，而使開車者更能遵守行車規定，增加用路人道路行駛的安全。並且已獲得台北國際發明展鉑金獎、美國匹茲堡發明展金牌等大獎。

Patented technology introduction:

As we all know, police officers enforce the speed limit by using radar and laser speed detectors. These instruments, currently in use, are required to be stationary when detecting the speeding vehicle. This invention enables police to calibrate the speed of the target vehicle, while driving at the same time. This device has already been patented in US, China and Taiwan. An APP Program is used to integrate the interfaces of the intelligent dynamic speed detecting system. It is user friendly for operation. A series of the associated technologies have won Platinum Award at 2012 INST Taipei in Taiwan, Gold Prize at 2013 INPEX, etc.

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專利技術名稱

尼龍共聚物及其製造方法

Nylon Block Copolymer and Preparing Method Thereof

Patent No: (R.O.C. 優先) I432620

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

發明人：陳泰佑、曾毓麒、陳寶祺、莊環綾

Ta-Yo Chen、Yu-Chi Tseng、Pao-Chi Chen、Ai-Ling Chuang



專利技術介紹：

本專利技術以高分子共聚方法，合成一種親水型的尼龍共聚物，由於是將親水單體以共聚合的手段嵌入尼龍高分子，因此是一種針對本質改變，永久性的改質方法；利用這種改質型尼龍所做成的纖維，具有優於傳統尼龍 2 倍以上的吸濕與放濕能力，其吸濕率與棉相當，放濕率比棉更佳，而應用這種纖維所做成的紡織品，可以快速吸附人體皮膚表面的汗氣，並迅速隨環境氣流帶離體表，讓穿著者感受到如酒精蒸發般的長效涼爽感受。這項發明不只可以應用在衣著服飾上，也可以應用在寢具，袖套等紡織產品。親水型尼龍纖維如今已成功落實商業化，有超過 20 項的產品在市場上販售，並建立「Aquatimo」做為本技術的商標識別。

Patented technology introduction:

This invention is about a hydrophilic nylon and its applications. The hydrophilic nylon is synthesized by the monomer of regular polyamide and a hydrophilic compound by copolymerization. This method changed the nature of nylon and is a permanent treatment. The moisture adsorption ability of fibers which made by hydrophilic nylon are as good as cotton, and the desorption ability are even better than cotton. Fabrics made of this innovated nylon could absorb the sweat of skin and release it rapidly, and this evaporation phenomenon will provide the wearer a long term cool feeling. This invention can be applied not only on clothes but also bedding and other textiles. The hydrophilic nylon fiber is already commercialized, and there are over 20 products on the markets now. We also obtained the right of trademark, Aquatimo, for this brand new invention.

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

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2013 鉑金獎 Platinum Awards



專利技術名稱

衣服的衣領結構、遮陽手套以及包含該遮陽手套的衣袖結構、可摺成隨身衣袋的衣服結構

The Clothes Collar Structure, Shading Gloves and Sleeve Structures with Shading Gloves. The clothes can be folded into a portable backpack.

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

專利權人：游紫彤 / TZU-TUNG YU

發明人：游紫彤、曾昭雄、曾子庭

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



專利技術介紹：

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

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

Patented technology introduction:

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

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

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

三緯服飾公司 / 3D KING Clothing company

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Fax :



專利技術名稱

噴嘴陣列無分隔室之微液珠噴射裝置及其液珠之噴射方法

Micro-Droplet Injector Apparatus Having Nozzle Arrays without Individual Chambers and Ejection Method of Droplets Thereof

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

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

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

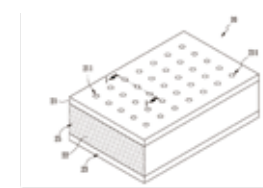


Fig. 1: The perspective view of a part of a micro-droplet ejection apparatus

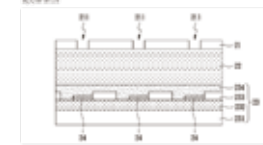


Fig. 1: The sectional view of FIG. 1 taken along the section line A-A

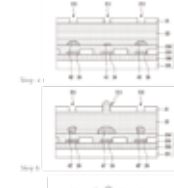


Fig. 2: The schematic view of the bubble growth and the droplet ejection of the micro-droplet ejection apparatus

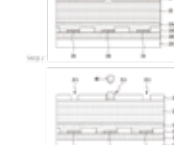


Fig. 2: The schematic view of the bubble growth and the droplet ejection of the micro-droplet ejection apparatus

專利技術介紹：

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

Patented technology introduction:

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

中華科技大學 / China University of Science and Technology

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專利技術名稱

一種注射式骨填補組成物

Patent No: (R.O.C. 優先) I436795

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

發明人：黃若曄、陳柏仰、張根源、張至宏、許元銘



專利技術介紹：

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

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

Patented technology introduction:

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

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

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

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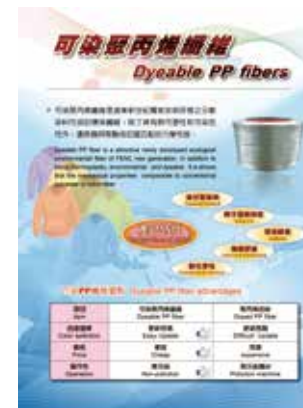
專利技術名稱

具可染性及良好水洗牢度的聚丙烯纖維

Patent No: (R.O.C. 優先) I367966

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

發明人：褚智偉、陳世雄、江昭遠



專利技術介紹：

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

Patented technology introduction:

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

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

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

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

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

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

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專利技術名稱

攜行式遠紅外線濾水器

Portable Far Infrared Water Filter

Patent No: (R.O.C. 優先) M422429

專利權人：遠東科技大學 / Far East University

發明人：陳智成、陳俊良、朱清俊、陳柏州、蔡政琨

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



專利技術介紹：

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



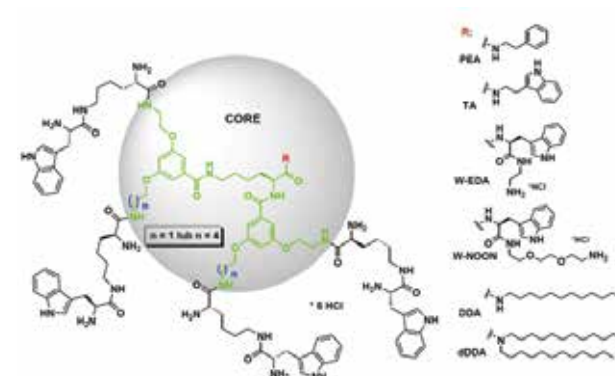
專利技術名稱

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

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

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

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



Patented technology introduction:

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

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

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Institute of Organic Chemistry, Polish Academy of Sciences

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Tel : 48-22-3432207

專利技術名稱

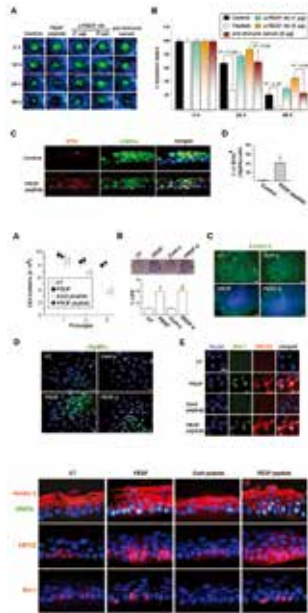
色素上皮衍生因子衍生之多胜肽於促進幹細胞增殖與傷口癒合之用途

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

Patent No: (R.O.C. 優先) I 449708

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

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



專利技術介紹：

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

Patented technology introduction:

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

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專利技術名稱

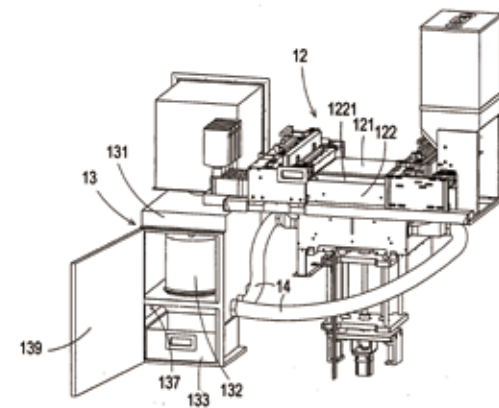
粉末過濾裝置

Powder Filtering Device

Patent No: (R.O.C. 優先) I371310

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

發明人：奚國元、黃科銘



專利技術介紹：

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

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

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

Patented technology introduction:

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

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

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

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專利技術名稱

適用於立體成型機構之切層方法

Slicing Method of Three Dimensional Prototyping Apparatus

Patent No: (R.O.C. 優先) I 385076

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

發明人：陳偉鈺；施學冠



專利技術介紹：

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

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Patented technology introduction:

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專利技術名稱

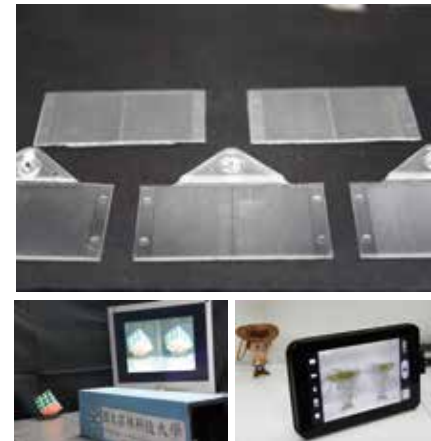
立體影像擷取裝置及其應用之對稱式稜鏡陣列

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

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

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

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



專利技術介紹：

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

Patented technology introduction:

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

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

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專利技術名稱

具有煞車分配器之腳踏車煞車結構

Brake Distribution Structure

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

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

發明人：張震華、吳志伯、林文賢、黃文毅、游福裕

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



專利技術介紹：

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

Patented technology introduction:

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

光啟高中 / Paul Hsu Senior High School

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專利技術名稱

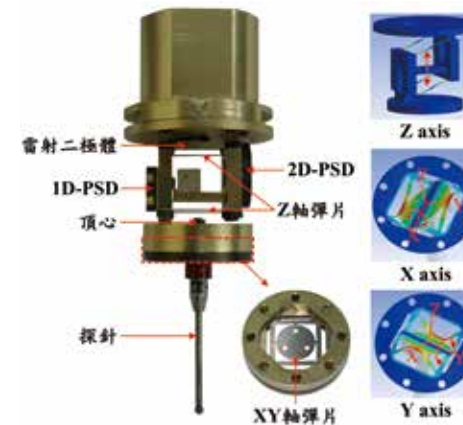
三次元接觸式掃描探頭

Three Dimensional Scanning Touch Probe

Patent No: (R.O.C. 優先) 101140557

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

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



專利技術介紹：

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

Patented technology introduction:

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

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專利技術名稱

LED 感應控制照明裝置

LED Lighting Luminary Controlled by Capacitance Sensing

Patent No: (R.O.C. 優先) M445822

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

發明人：陳宜秀 / CHEN, YI-HSIU



專利技術介紹：

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

Patented technology introduction:

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

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

國立聯合大學 / National United University

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專利技術名稱

工業用之硬管直式內視鏡

Industrial Rigid Type Probe.

Patent No: (R.O.C. 優先) 新型第 M411574 號

專利權人：曾湘德 / Tseng, Hsiang Te

發明人：曾湘德 / Tseng, Hsiang Te

專利技術介紹：

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



Patented technology introduction:

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

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

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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. 無水斷電磁力感應棒，結合逆止閥及過濾網設計，不會因結構及功能設計關係，導致管徑縮小，而影響出水流量。
3. 圓弧型濾網連結活動式逆止閥，除了防止泥沙雜物卡住磁力感應棒導致無法正常開關之外，並可藉由逆止閥開啓時，水壓沖刷將雜物順水流排去，因此不會使濾網阻塞，影響進出水流量。
4. 電子式磁簧感應無接點開關，經 100 萬次以上開關測試。
5. 耐壓程度 12Kg/c m²。



Patented technology introduction:

Ultra-low noise provides quality living style.

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

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

Triple power safe protection

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

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

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

The new patented electronic regulator controller features

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

Switch will automatically switch off after 15 seconds without water flow

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

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

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

Stands water pressure up to 12kg/c m², 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，夾具需求種類繁多大幅增加成本支出；而使用 CNC 車床加工時亦具上述諸多缺點。

Patented technology introduction:

The innovative invention on application of special function mechanisms, most uses CNC lathes must have XZ axial machining energy for the cutting process for the crank shaft.

The reasons are difficulty in crank shaft machining, cumbersomeness of the cutting process, shortage of machinery and equipment and other issues, which often cause problems in shortage of materials on the machine assembly line.

Currently, CNC horizontal milling machines or CNC lathes are commonly used to do the cutting process for the crank shaft. Nonetheless, direct use of a CNC horizontal milling machine to process orders has the following disadvantages: (1). Working hours are too long. (2). CAM program is too long and takes time to write. (3). It is difficult to get a true circle from milling an eccentric shaft. (4). Making multiple eccentric cuts needs regular replacement of fixtures, positioning is not easy. (5). Production of special fixtures for clamping is required for each kind of eccentric shaft. A wide range of jigs in demand substantially increases costs.

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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，也只需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.

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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 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

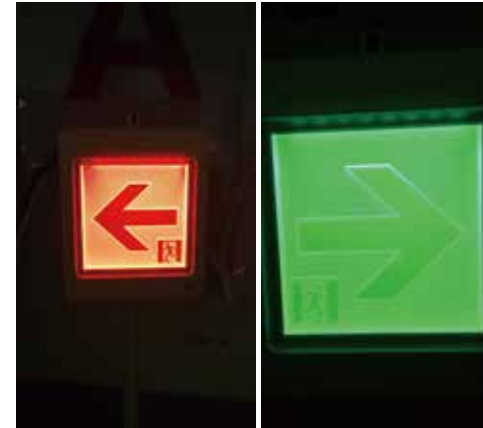
Patent No: (R.O.C. 優先) App. No. 103113186 (R.O.C.)

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、葉婉瑄、陳文城及林廷彥

G. J. Sheu, E. R. Sheu, J. S. Lin, C. C. Chiang, C. C. Yang, Z. Y. Chen, P. S. Ye,

W. C. Chen and T. Y. Lin



專利技術介紹：

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

Patented technology introduction:

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

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

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專利技術名稱

減能結構

Stress Relief Structure

Patent No: (R.O.C. 優先) 201421639

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

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



專利技術介紹：

堆疊晶片系統中的熱機械問題一向是設計者或是製造者所遇到的重大挑戰，其中最嚴重的問題在於在製造過程以及操作過程中會碰到的熱循環。由於材料的機械性質之差異，對溫度的反應也有顯著的不同，例如 TSV 的熱膨脹係數約為 17 ppm / ° C，矽晶片的熱膨脹係數約為 2.3 ppm / ° C，二氧化矽的熱膨脹係數約為 0.5 ppm / ° C。但是晶片的內應力卻對晶片造成的破壞，因此本專利設計了在晶片上以及在 interposer 間的架構，此發明裝置特徵在彼此裝置所環繞之 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。

Patented technology introduction:

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

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

Also, SmartKey has four major features as follow:

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

- C. 具有檔案加密的功能，非授權狀況下無法存取檔案。
3. 立即管控：
 - A. 即時監視狀況。
 - B. 遠端設定與控制。
 4. 掌控全局：
 - A. 資訊集中方便管理者使用。

- B. Safe and definite ID authentication mechanism.
2. Information security defense
 - A. Password is unrevealed to users to reduce the possibility of information leakage and password theft.
 - B. Offline recording mechanism can ensure the information security level without connecting with SmartKey server.
 - C. File control and encryption can guarantee files against illegal accesses.
 3. Instant control
 - A. Real-time monitoring users.
 - B. Remote setting and controlling computers.
 4. Overall control
 - A. Administrators can easily manage and audit the centralized logs and records.

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台北市中正區大埔街 25 巷 1 號 1 樓

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專利技術名稱

即時監測標靶位置之放射治療系統

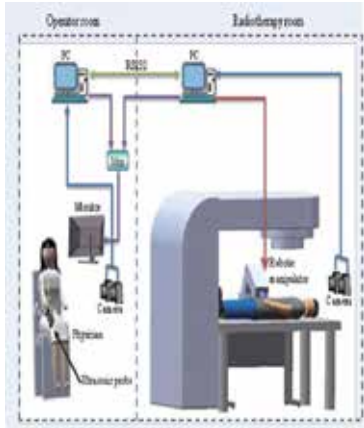
Radiotherapy System Adapted to Monitor a Target Location in Real Time

Patent No(申請案號): 100135708

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

發明人: 陳裕仁、張文中、劉家源、陳金聖

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



專利技術介紹:

目前臨床順形放射治療,在執行治療時,是以在治療前一段時間所做的電腦斷層數位影像,經複雜運算重組產生之射束眼,做為引導放射治療照射病灶之唯一依據。這種方式,有著無法於治療中即時重組影像進行影像對位驗證,與很難確定病灶標靶是否能於療程中,完全位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畫之射束眼範圍,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T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.

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

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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、吳金涓、黃士晉

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



專利技術介紹：

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

Patented technology introduction:

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

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專利技術名稱

耐隆複合纖維及其織物

Nylon Composite Fiber and Fabric Thereof

Patent No: (R.O.C. 優先) 102131343

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

發明人：陳威宏、林維朋、陳泰佑、柯達、鄭筱雯、安大中

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



專利技術介紹：

發明是一種以植物成分為原料的生質耐隆纖維與紡織品，利用生質耐隆本身的特點，結合複合紡絲技術，研製出自發捲縮率超過 30% 的新耐隆纖維，採用這種纖維所做成的紡織成品布，無須添加 SPANDEX 彈性纖維，就能具備高達 92% 的彈性回復率，搭配紡織所與業者共同開發的十字斷面與高中空率兩種機能性生質耐隆纖維，開發出多項生質系統紡織產品，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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