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- 26 名躍國際健康科技股份有限公司 Strength Master Fitness Tech Co., Ltd.
- 27 明昌國際工業股份有限公司 Machan International Co., Ltd.
- 28 勁鑽科技股份有限公司 Awin Diamond Technology Corp.
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根據2009年中小企業白皮書指出,中小企業在研發經費的 投入已連續2年成長,2006年顯著成長13.78%,2007年亦成長 了12.90%,成長幅度高於大企業,顯示中小企業不但積極升 級轉型,更體認到「創新」與「研發」仍是企業核心優勢的根 源。

「中小企業創新研究獎」迄今已辦理16屆,本屆報名參 選標的共計127件,分為「資訊與電子類」、「機械與自動化 類」、「材料與製程類(含生物化學)」、「服務類」及「綜 合類」等5大類組。經過嚴謹的資格審查、初審、實地訪查、



決審等過程,總計有30件標的物(30家企業)獲此殊榮,得獎企業將獲頒30萬元獎勵金及獎狀乙紙。

處 長 序 文

在本次獲獎企業中,許多企業都提出嶄新的技術,這些技術不僅在國內,甚至在全球市場都是 數一數二的創新技術,例如綜合類組提出利用「鑽石電極」進行廢污水處理,提供零污染的處理技 術,就是綠能產業在日常生活中的實際應用;而服務類組提出的GPS技術服務,在今(98)年太平公 主號被撞毀時,即透過此系統所發出之異常信號,成功救出11位船員。

此外,本次創新產品及技術尚包含:電子與資訊類組所提出的可結合消費性數位相機之可攜式 顯微鏡及國內第一台具有高畫質及可互動的藍光碟片播放器等;機械與自動化類組所提出的LMAP 空氣軸承線性馬達定位平台、取代傳統氫氨鋼套可回收利用的「輕量化低成本架構之圓盤式刀 庫」、適用於特殊衣料的「雙差動」曲臂四針六線併縫車等;材料與製程類所提出的生活創意陶瓷 用品、解決現有膠合製程在大尺寸面板產生之介面空氣層問題的濕式製程技術等。

隨著全球知識經濟的發展,各產業科技皆已朝向建立技術創新機制,而「創新」一直以來是企 業生存不變的法則,尤其面對知識經濟與科技產業的發展,經濟學大師約瑟夫·熊彼得就曾說過「創 新是經濟發展的原動力」,這反映出技術創新是帶動經濟發展的方式。有鑑於企業創新研究之重要 性,中小企業處自1993年起即辦理本獎項,獎勵近600家從事創新研究有具體成效的中小企業,在 政策環境面積極推動創新研發風氣,以帶動更多中小企業藉由創新研發而升級轉型。

在此除向本屆得獎企業恭賀之外,亦期許中小企業仍能秉持靈活及彈性,掌握全球產業發展趨勢,發揮高度興業的精神,突破侷限,持續不斷地進行創新與研發,以強化技術水準,提升競爭力,開拓市場新商機。

經濟部中小企業處 處長



Foreword

According to 2009 White Paper on Small and Medium Enterprises in Taiwan, the investment of SMEs in Taiwan made to R & D had shown a growing tendency in two successive years. In 2006, there was growth of 13.78%, and growth of 12.90% was accomplished in 2007, both superior to that of the large enterprises in the same years. This not only indicates that SMEs are striving for business upgrade and transformation, but also demonstrates that "innovation" as well as "R&D" continue to be the source of businesses' core advantages.

This year, we have the 16th "Taiwan SMEs Innovation Award". A total of 127 applications were received this year in five categories, namely "Information and Electronics", "Machinery and Automation", "Materials and Processes" (including biochemistry), "Services" and "General". Thirty subject matters from 30 enterprises were ultimately chosen for this honor through a rigorous process of qualification review, preliminary judging, on-site inspection and final judging. Each winner will be rewarded with NTD 300,000 and a certificate of award.

Many of the winners have made breakthroughs in their industries, and these breakthroughs are unparalleled not only nationally but also internationally. For instance, a winner in the category of "General" innovatively proposed a pollution-free wastewater treating means using "diamond electrodes", thereby realizing green technology in our daily life. Another example would be the prize GPS service technology in the category of "Services", which gave warning signals and successfully saved 11 crew members of Princess TaiPing during the junk's accident this year (2009).

Other awarded notable innovations include: in the category of Information and Electronics, the portable microscope integrated with a consumer digital camera and Taiwan's first high-definition, interactive consumer Blu-ray disc player; in Machinery and Automation, the linear motor air bearing platform, the recyclable "lightweight and low-cost structure disk type ATC" substituting for the traditional Cyglas Tool pots, and the "dual differential ratio feeding" feed-off-the-arm flatseaming machine designed for particular kinds of cloth; in the category of Materials and Processes, the innovative ceramics for use, and wet process that solves the problems related to intermediate air layers occurring when the traditional adhesive bonding process id applied to large-size panels.

With the global progress of knowledge-based economy, all industries have been developed toward the mechanism for ceaseless technical innovation, and during this process, "innovation" is always the one and only way for businesses to survive. Particularly, in view of the developments of the knowledge-based economy and technical industries, the famous economist Joseph Alois Schumpeter proposed in his theory that innovation was the driving force behind economic development. This reflects that technical innovation is indeed the way to drive economic advancement. Whereas the importance of innovative research initiated by the enterprises, the SMEA first began organizing the "Taiwan SMEs Innovation Award" in 1993. As of 2009, the award has been granted to almost 600 SMEs that exhibited substantive performances in innovative research. The purpose of the award is to politically create a climate promoting innovative R&D, so as to encourage SMEs to accomplish upgrade and transformation by means of innovative R&D.

I, on behalf of the SMEA, not only want to congratulate all the winners but also expect SMEs in Taiwan to continuously bring their flexibility and adaptability into full play, thereby aligning with the global industrial trend, well performing Taiwan's venture spirit, breaking all limitations, and continuously conducting innovation as well as research and development, in order to strengthen the technical level, enhance competitiveness, and open up new market niches.

Lai, Sun-Quae

Director General Small and Medium Enterprise Administration Ministry of Economic Affairs NOV. 20, 2009

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智慧型太陽能LED標誌 ISLTS (Intelligence Solar LED Traffic Sign)

簡 介

本標的除了結合太陽能與LED,將其應用於交通 標誌上,最重要之創新在於輕薄之附加式設計 ,可應用於各式大型牌面,並點亮各式資訊內 容,突破了以往太陽能LED標誌產品之尺寸與內 容限制,爲目前世界上首創之太陽能LED標誌產 品。

本標的之最大創新價值在於利用此一產品可大 大提升交通標誌於夜間或天候不良時之辨識度 ,特別是大型指示標誌,可清楚指引駕駛人, 降低危險駕駛之情況發生,進而減少交通事故 ,於提升交通安全大有助益。

評 語

- 本標的為LED燈組成的標示板,直接附加在道路標誌鋁板上,取代傳統的另外架設一LED看板,安裝容易、成本低又節能。
- 以太陽能供電,並具有雨霧自動啓用功能,適 合高速公路、快速道路之交流道出入口之警 示用。

Introduction

This product is the pioneer among all the solar-powered LED traffic signs in the world. In addition to utility of solar power and LED in traffic signs, the innovative slim surface-mounting technology provides a solution to break size and content limitation of existing solarpowered LED traffic signs.

As a result, it can be applied to large-sized traffic signs, lighting up every kind of information for road users. The valuable innovation is greatly improving legibility of traffic signs, especially large ones during nighttime and under bad weather conditions. This technology provides road users with brighter and clearer traffic signs to help them find their way safely. When traffic safety is enhanced, safer roads are promised.

- The present subject matter relates to a sign board composed of LEDs. The sign board is configured to be directly attached to the existing aluminum boards as road traffic signs for substituting an additional LED board. The present subject matter is easy to install, economical and beneficial to energy saving.
- The present subject matter is powered by solar energy, and is equipped with the self-triggering function that works in rainy or foggy environments, thus being specially suitable for use at entrances or exits of interchanges on expressways as a means of warning.



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TITC低成本、低耗能與超高速無失真影音壓縮技術專利IP Near Lossless Image Compression Technology (so called "TITC-NLS" IP) for Reducing the Frame Buffer Memory Cost and the Power Consumption

簡 介

沛錦科技自行開發出全球最技低成本、低耗能 與超高速近似無失真影音壓縮技術專利IP智權(產品名稱"TITC-NLS") 用途涵蓋數位影像與數位 音訊的相關IP產品 IC 設計,包括數位電視與液 晶顯示器、數位相機、網路攝影機、數位視訊、 網路影音、智慧型手機(Smart Phone)、DVD、 DV/DVR、LCD-DTV audio codec等各種先進多 媒體消費性電子資訊產品的應用. 此技術優勢包 含:大幅降低系統成本 低耗能與超高速 減低 EMI問題 並有效提升影像品質。此技術不但已 獲 6項美國專利獨步全球,領先各大積體電路與 半導體業者而,更已陸續量產出貨包括全球最 大的影像視訊解碼IC公司德國Micronas、日本 SONY、Panasonic, Sharp、Kawasaki、Renesas韓 國 Samsung、LG 等國際大廠-我國半導體設計專 利技術成功外銷先進國家的典範。

評 語

- 本標的為一種創新影像資料壓縮方法及其衍生 智財,當應用於高解析度之影像系統如數位電 視機、攝影機等系統時,透過其特殊資料預測 方式及較少的資料量技術,可降低系統硬體需 求數,在影像品質上仍能保持無失真。
- 目前已被歐、日幾個大廠驗證採用,並已開始給付技術授權金,創下難得的我國技術授權給先進國家的事蹟。

Introduction

TITC has developed world lest expensive, lowest power lossless compresspion IPs (so named"TITC-NLS") which is applied to digital image/video related IC/System products including Digital TV, LCD display panel, digital camera, WebCam, SmartPhone, DVD/BR, DV/DVR and mobile phone consumer electronic products. This IP solves bandwidth issue which not only reduces system cost, but also sharply cuts down the power consumption and eases of system EMI headache. This IP, a far leading technology has been granted 6 US patents (another 40+ pending), and has successfully realized in world top companies products including German Micronas(Trident now), Japanese SONY, Panasonic, Sharp, Kawasaki, Renesas and Korean Samsung and LG. TITC has set a model of licensing technology to world top companies.

- The present subject matter is a novel image data compression and the derivative intellectual property thereof. When applied to a high-definition image system, such as a digital TV set, or a video camera, the present subject matter performs its special data predicting method for a relatively small amount of data, so as to reduce the hardware demands of the system while keeping the resultant image undistorted.
- This technology has been licensed to many leading manufacturers in the US and Japan for their adoption, being an infrequent case where a technology originated from Taiwan is successfully licensed to those advanced countries.

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107时背投觸控互動系統 107" Rear Projection Interactive Touch System

簡 介

107时(3:1)無接縫寬螢幕多點觸控互動系統提昇 觀賞沉浸溶入感,直覺式多點觸控互動功能與 互動多媒體內容整合相容度高,一體成型且模 組化設計易於組裝、運送及維修服務,並具備 未來擴充彈性,背投機身厚度縮短至87公分可 增加應用。本系統可應用於文化創意及數位典 藏之「數位互動展示」及「數位互動導覽」、 數位互動學習、衛教與醫學資訊傳播、公共展 場導覽及廣告宣傳等,深具未來國際市場發展 潛力。

評 語

- 本標的為「無接縫大型寬銀幕107吋投影顯示」
 與「直覺式多點觸控互動功能」整合為一體成型之系統,適用於數位互動展示、互動導覽、互動學習等應用。
- 產品較市面銷售之平面顯示器更寬廣(約3:1 之螢幕),可增加觀賞者之沈浸融入感,營造 「身歷其境」的數位體驗,其多投影機無接 縫技術層級高,可投射在非平面的螢幕,而 看不出接縫,技術領先其它廠商。

Introduction

The 107" Rear Projection Interactive Touch System is 3:1 widescreen enabled better immersive viewing experience. The multi-touch functionality supports intuitive usability and is highly compatible with different forms of multi-media contents. The 'All-in-One' Modular Design has ensured good manufacturability, transportability, and easy maintenance delivery, as well as enabled future function extendibility. The system thickness is narrowed to 87cm requiring less space and enabling more applications. The system application includes interactive display and introduction systems in museums, e-Learning systems, medical display and introduction systems, public signage systems, etc. with strong business potentials in global markets.

- The present subject matter is a system integrating the technology of "projection on a seamless large wide screen that is 107 inches" and "intuitional multi-point touch control interaction function", suitable for many applications such as digital interactive exhibition, interactive guide, and interactive learning.
- The present subject matter is broader than the existing flat display device (with a rate of about 3:1), thus improving the audiences' telepresence and giving the audiences a "being there" experience. The technology of multi-projector seamless image is of high end and adaptive to projection on non-planar screens without showing a seam. The technology is leading the industry.

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可攜式數位顯微鏡X-Loupe G系列 Portable Microscope X-Loupe G Series

簡 介

- 以可替換倍率顯微物鏡的設計概念,結合數位 相機的便利與可攜性;鏡筒崁入內外雙圈持續 光源;0.5秒內自動對焦、擷取影像,清楚拍 攝六毫米到二微米畫面;含最大鏡頭總重僅約 600克。
- 鏡頭內建三段式的低角度光源投射,提供不同 光源方向,抑制反光;可變換組合的照明提供 陰影,強化被觀察物表面凹凸處以呈現立體感 ;六段式亮度調節設定。
- 多重應用於工業品管/航太工業/醫學美容/ 考古田野調查/精品古董鑑定/刑事鑑定等專 業研究領域

評 語

- 本標的為可結合消費性數位相機之可攜式顯微
 鏡,與一般顯微鏡相比較,本產品具輕巧、高效能、價格低並可應用於許多不同的領域。
- 本標的為該公司第二代產品,相較於第一代產品在產品功能上有大幅提昇,例如解析度更高、抗反射光源照相方式...等,而且零件自主研製的比例達到100%,進步幅度相當大。

Introduction

- Combining of the digital camera as well as its convenience and portability, and a microscope module and replaceable objective lenses in the design concept. Maximum weights 600g
- Two different built-in light sources with internal and external rings enhance to capture tiny objects as small as 6mm-2microns image only in 0.5 second.
- The camera built-in Low-angled Lighting for threesettings can provide light from different directions to reduce reflection of specular objects.
- Applied to Industrial Quality Control / Aviation Industries / Medical Cosmetology/ Archaeology and Field Study/ Fine Works and Antique Authentication/ Forensic Investigation

- •The present subject matter allows integration of a consumer digital camera and a portable microscope.As compared with the known microscopes, the product is light, compact, highly effective, inexpensive and extensively applicable.
- •The present subject matter is the second generation of its series. As compared to its predecessor, the present subject matter significantly improves the functions by providing higher divination, allowing photographing resisting reflective light source and more. In the device, the components of the maker's independent development are 100%, showing significant progress.

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數位式正弦波調光器 DMX SineWave Dimmer

簡 介

Lite-Puter 最新開發的SineWave正弦波調光器 ,將成為新一代的調光技術。傳統SCR調光器 使用相位控制,切割電源波形來調整燈光明暗 ,但每半週的突波造成燈絲振動,產生雜音, 產生電磁干擾其他電子設備,降低能源效率。 Lite-Puter 最新一代的的SineWave正弦波調光器 使用PWM控制方式,可輸出純淨的正弦波,完 全消除SCR相位控制的缺點,不會干擾音響系統,沒有燈絲振動雜音,大幅延長燈泡壽命, 並能改進功率因數99%以上,大幅提升電源效 率,提高調光器的電能利用率,諧波失真在 3% 以下,輸出純淨的正弦波交流電壓,讓燈泡只 發光而不出聲,提升演出的效果。是未來新世 代環保節能的調光新科技。

評 語

- 本標的為一種採用AC/AC轉換技術之數位式正 弦波調光器,與傳統採用相位控制之SCR調光 器相比,具有正弦波失真小、噪音干擾小,較 省電及燈泡壽命較長等優點。
- 產品技術目前居國際領先地位,具國際競爭力,可應用於攝影棚、劇場等場所之燈光控制, 實用性佳,且已成功打入日本市場(如NHK電 視公司),市場潛力大。

Introduction

Lite-Puter introduces the next generation dimmer, SineWave Dimmer, delivering the most advanced dimming technology in an energy-saving way. Traditional phase control dimming technology (SCR, IGBT) controls the brightness of lamps by chopping AC waveform. The peak voltage and surge current cause the filament noise and shorten the life of the lamps. In addition, the harmonic distortion generated from phase control dimmers will interfere with the surrounding electronic devices and reduce power efficiency.

With pure sine wave AC voltage and low harmonics, Lite-Puter's SineWave Dimmer produces no filament noise and extend the life of the lamps. The power factor of Lite-Puter's SineWave dimmer is over 99%, so there is no more energy wasted. Just enjoy the performance without any audible noise as well as the green dimming technology by Lite-Puter SineWave Dimmer.

- The present subject matter is a digital sine-wave dimmer adopting the AC/AC conversion technology. As compared with the known SCR dimmers depending on traditional phase control, the present subject matter has the advantages of less distortion of sine wave, less noise, better powersaving efficiency and longer bulb life.
- The novel technology is internationally leading and competitive. It is applicable to light control in film studios and theatres; being highly utilized, it has been successfully introduced into Japan (for example, NHK), having great commercial potential.



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HitHot全方位網路行銷平台 HitHot Web Marketer

簡 介

- HitHot全方位網路行銷平台包含四大功能:
- 多維度精確搜尋
 以單一搜尋介面貫穿網站所有頻道,並以多維
 度分類方式呈現,協助網友以點擊縮小搜尋範
 園,快速找到最感興趣之內容。
- 多面向自動推薦
 系統自動推薦重要關鍵字、相關文章或商品資
 訊,便於網友以點擊方式延伸瀏覽,有利於提高網站流量與網友停駐時間,增加潛在行銷收益。
- 多語系即時百科 自動標示出關鍵詞組,並透過點擊帶出摘錄自 維基百科中的字詞解釋,增加網友閱讀深度與 廣度。
- 多元化整合廣告
 可整合各種網路廣告平台,透過自動推薦技術
 ,媒合與網頁內容最相關的廣告、商品或活動
 資訊,增加廣告收益。

評 語

- 本標的為一網路平台,提供搜尋功能結合了多 維度分類、推薦線上百科及廣告輔助功能;可 有效提高網站流量與增加客戶黏著度。
- 有獨特的三贏經營模式--Google接受廣告,本 案提案廠商碩網資訊公司提供免費平台給合作 夥伴,透過所提供之平台點閱Google的廣告, 其所收的廣告收益,三者拆帳,達到三贏。

Introduction

HitHot introduces a viable and innovative business model for the site owner, advertising service provider, and technology developer to expand their business and share a common success on the web.

- Multi-faceted search interface Dynamic clustering and guided browsing. Synthesized with keyword suggestion. Suitable for mobile devices. Appropriate for cross site/cross channel search
- Multi-parameter auto-recommendation Automatically extraction of important keywords. Recommendationof relevant articles/object/products. Diverse recommendation algorithms for different business scenarios. Improving the web traffic and users' timeon-site for better advertising revenue.
- Multi-language SmartWiki service An intelligent keyword extraction and encyclopedia service with a cloud computing technology. Based on millions of wikipedia entries in over 10 major languages. (English, Chinese, Japanese, German…). Expanding the depth and breadth of reading for users.
- Multi-platform Advertising server Supporting various kinds of online advertising platform and maximize ad revenues. Matching your web content with most relevant ads or events. Expands your reach to more advertisers with an easy-to-use interface.

- •The present subject matter relates to a web-based platform, which provides a search function incorporating multidimensional sorting, on-line encyclopaedia recommending, and auxiliary advertising, so as to effectively increase website traffic and improving visitor duration.
- The present subject matter provides a unique win-winwin mode, where, for example, Google sells advertising, and SMARTPLUS provides a free platform for its partners, so that the ad profits earned by clicking the advertisement posted by Google through the provided platform can be shared by the three interested parties, thus achieving a win-win-win effect.

福彦電子股份有限公司 Forworld Electronics Co., Ltd.

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高畫質互動式藍光播放器 Interaction Blu-ray Disc Player

簡 介

福彥藍光播放器支援Blu-ray光碟,享有Blu-ray 光碟特有的高畫質、高音質內容。另外,還能讀 取DVD或CD的各種格式。是一款支援多種光碟 的藍光播放機。支援HDMI輸出功能,直接透過 高解析度的顯示器設備,播放藍光高畫質影音電 影,並體驗藍光電影Full HD 1080p的畫質震撼! 使用 BonusView 功能開啓切換子母畫面與聲音 ,此功能亦可以在播放電影觀看導演或演員評論 內容時使用,即使是電影院也不具備這項互動性 功能,唯有 Blu-ray Disc光碟才有!BD-Live 為 新一代的互動性功能,只要將藍光播放器連接至 網際網路後,同時播放與 BD-Live 相容的光碟, 即能享受到電影製片公司的額外驚喜內容;可提 供下載與線上播放加值內容。

評 語

- 本標的為國內設計及生產之第一台具有高畫質 (1920*1080)及互動式(透過Internet連線)的消費 性藍光碟片播放器,提供50GB高容量,可播 放近4小時的高畫質影片。
- 採用自有專利獨特設計之吸入式碟片裝置及機
 蕊設計達到省電及省成本目的。

Introduction

Blu-ray Disc(BD) player delivers the full 1080P picture quality and up to 7.1 channels of surround sound. Home theater will never be the same as usual! What's more, your DVD's will look and sound better than ever when you play on Forworld BD player.

Blu-ray Disc technology is compatible with many different types of discs, such as BD, DVD, and CD. The new type BD player will feature an Ethernet port and USB port for connecting external storage. You could also use the function of "Bonus View" picture-in-picture to view other information about the movie and playing the movie at the same time. Even better, "BD-Live" will make the user have more fun with extra function such as movie trailer, games, or movie review.

- The present subject matter is the first high-definition (1920*1080), interactive (via the Internet connection) consumer Blu-ray disc player designed and produced in Taiwan. It provides a capacity up to 50GB, accommodating a high-definition video of nearly 4 hours.
- The present subject matter adopts the slot-in design and main mechanism according to the maker's own patents, so as to be power-saving and cost-saving.

大銀微系統股份有限公司

Hiwin Mikrosystem Corp.

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簡 介

大銀微系統所設計製造之LMAP (Linear Motor Air Bearing Platform) 是一種空氣軸承線性馬達 定位平台,應用於需要奈米級定位高階半導體、

平面顯示器與太陽能〔SFS: Semiconductor, Flat Panel Display, Solar〕生產設備上如:半導體曝光 設備、晶圓缺陷檢查機、IC尺寸量測設備、微機 電微細加工設備,平面顯示器彩色濾光板檢測設 備、面板關鍵尺寸量測設備、面板噴墨列印生產 設備與大尺寸太陽能薄膜雷射劃線機。

其極簡設計價值訴求:

- 穩定可靠:採非接觸驅動與空氣軸承,減少摩 擦與零件數,提高可靠度。
- 奈米定位:配置雷射光學式位置回饋。
- 延伸共用:模組化,可衍生多種系列產品。

評 語

- 本標的完全自主發展,整合關鍵零組件如線性 馬達,空氣軸承、高精度導軌與平台,其工 作台行程450mm*450mm,重現性精度0.3μm, 定位精度1μm,皆不亞於美國領導廠商 (Aerotech)。
- 可廣泛運用於半導體、光電、醫療等高科技產業,已開始為國內、外廠商採用,深具潛力, 且相關技術已獲國內外專利。

Introduction

LMAP (Linear Motor Air Bearing Platform), designed and manufactured by HIWIN Mikrosystem (HIWIN), is a air bearing linear motor stage targeted for highend SFS equipment (SFS: Semiconductor, Flat panel display, Solar) which requires nano-positioning accuracy, for instances: Lithography equipment, wafer defect inspection machines, IC critical dimension measurement equipment and micro-machining for MEMS (Micro Electro Mechanical Systems), Flat panel color filter inspection equipment, panel metrology machines, panel inject printing production equipment and Large area solar thin film laser scribing machine.

LMAP Minimalism design has following SNS value proposition:

- Stable: Use non-contact linear motor drive and air bearing, eliminate friction and reduce part counts, and hence increase system reliability.
- Nano-positioning: Equip with laser optical position feedback.
- Scalable: adapt modular design and can be easily extended for several applications in target-markets.

- The present subject matter is self-contained developed by integrating key components such as the linear motor, air bearings, high-precision slideways and platform. The travel of the workbench is of 450mm*450mm, while the system performs the repeatability of 0.3μ m and the positioning precision of 1μ m, all not inferior to Aerotech, the US leading manufacture.
- The present subject matter is extensively applicable to various high-end technologies, such as semiconductors, photonics, and medical applications and has been widely adopted by domestic and international device makers. The present subject matter is highly potential and the technology it depends on has been granted many patents in Taiwan and other countries.

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輕量化暨低成本架構之圓盤式刀庫 Lightweight and Low-cost Structure Disk Type Automatic Tool Changer

簡 介

- 簡易輕量化刀庫結構,較傳統型刀庫減輕100
 公斤
- 刀盤尺寸規格精準一致,刀套安裝簡單快速
- 專利輕量化塑鋼刀套,長期使用損耗度低
- 節能、環保、無粉塵、可回收之塑鋼刀套
- 可分離式、易於更換之拉栓承座
- 雙滾子方式驅動,動力傳遞效率更高
- 全周包覆式軌道工程塑膠,提供刀套完全保護
- 專利刀套倒刀夾緊結構,倒刀過程迅速穩定
- 煞車電子板通過CE與ECMG認証
- 擁有四項七國專利權
- 可延伸配合機械式同動打刀快速換刀1.1秒(含 主軸夾/鬆刀)

評 語

- 本標的以塑鋼刀套取代傳統氫氨鋼套可回收利用,製造過程簡單一體成型,創新之拉栓承座 使不同規格之刀具互換性強,刀盤設計尺寸精 準組裝容易,刀套固鎖不需螺絲替換快速,刀 盤馬達於正面更換利於維修,整體設計具特色。
- 諸多具專利的創新設計,使重量減輕成本降低,操作方便已行銷國內外具市場競爭力。

Introduction

- The simplified structure will be 100kgs lower than traditional design of ATC.
- Disk plate is designed unified specification and easy for tool pots assembling.
- Light tool pot with patent has long duration life and low wearing out during operation.
- The glass and plastic fabric material for the tool pot can be recycled and safe for the environment.
- Separate tool holding base can be easy replaced according to the different pull stud requirement.
- Double bearing driven system can work more efficient.
- Completely covered with engineering plastic track around the disk can give full protective to the tool pots.
- The tool falling and clamping structure with patent can lead a fast and stable motion.
- Electric brake board has CE and ECMG certificates.
- The ATC has 4 kinds of patent in seven different countries.
- The tool to tool exchange time is 1.1sec.which includs the spindle clamping / unclamping time.

- The main purpose for this innovation is recycled material, unified structure, convenient for after sales services, save the labor time on assembling and flexible pot replacement for different tool requirement.
- A lot of new design combined together with many patent. Light weight, decreasing the cost and easy operation let it be more competitive in the global market.

名匠縫紉機股份有限公司

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雙差動比四針六線併縫車創新研究 Innovative Dual differential ratio feeding mechanism flatseaming machine

簡 介

創新的進給機構,將原始日本品牌單差動比變 易為雙差動比,因多了一組後送料具差動比機 身外調整機構,使得差動送布供應量提升一倍 ,使得昂貴併縫車更能夠充裕應付各種布質、不 同編織、不同厚薄、不同伸縮彈性之布料。此多 增之差動比機構位於機身外,完全無需如日本大 廠牌須要動用工具打開機身在機內調整;相反的 ,只靠一支機外搖桿前後調整即可將機器調整到 最適合所車縫之布料,其簡易度之創新將User-Friendly之設計發揮到極至!此外,創新後擋針 器由原本鎖在可移動的後送料具之機構改為固定 鎖在機身內壁,此創新完全避免老舊日本設計因 活動式後送料具損耗件日久鬆動移位而造成四支 直針也移位,車縫時無法精準讓下鉤針鉤到車縫 線,撞斷針或跳針跳線等車縫不良現象。此外, 原始日本擋針器因固鎖在後送料具上,調整時因 機構內空間非常狹小陰暗,作業非常困難;相反 的,我方獨創的後擋針器因是固鎖在機身內壁, 調整或更換時,可以先將前後送料具卸下,提供 內部更大維修空間,換好後再裝上前後送料具, 簡便輕易又可順利調整到所需精準度!

評 語

- 本標的針對特殊布料材質如尼龍、特多龍、伸縮布等在送布的給進機構,具有特殊設計,使差動量比之調整更方便,車縫後之平整性及品質提高,且在防針偏移的擋針器結構設計可改善使用的方便性。
- 創新的設計已獲包括日本之國內外專利,且已 行銷國內外市場,深具競爭力。

Introduction

The innovative dual differential ratio feeding mechanism is different from original Japanese branded machine which has only single differential ratio feeding. Because of this innovative difference, our easy-access external dual differential ratio adjusters can provide a wider range of fabric feeding amount, enabling this kind of costly flatseamer to deal with various fabrics. Because the adjusters are located outside the machine, which is featured of easy access and adjusting by moving forward or backward the lever for required amount of differential ratio, and is superior to Japanese machine which needs efforts in opening the machine and do the adjustment in a very small and dark area with screwdriver. This is an extreme example for excellent user-friendly design. Besides, the innovative fixed Needle Guard is superior to the old design which is put together on moving Feed Dog. This innovation can totally avoid deviation of the Needle Guard position caused by high consumption of moving Feed Dog and result in the collision between Needles and Looper or thread breaking caused by the scratch between Needles and Looper.

- The present subject matter is a cloth feeding mechanism specially designed for feeding particular cloth, such as nylon, polyester, and elastic cloth. The cloth feeding mechanism allows more convenient adjustment at a differential rate and facilitates improving post-sewing evenness and quality. Also, the needle guard serves to prevent deflection of the needle with improved manageability.
- The novel design has been granted with patents in Taiwan, and Japan among other countries, and the product has shown its outstanding competitiveness domestically and internationally.

第16屆創新研究獎 The 16th Taiwan SMEs Innovation Award

威士頓精密工業股份有限公司 WEXTEN Precise Induatries CO., LTD.

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高精度變頻式冷卻機 High Precision Inverter Chiller



簡 介

這是台灣第一也是目前唯一自製的工業用高精 度變頻式冷卻系統,其品質及效能已經達到歐 美日國際大廠的技術水準,溫度控制精度達到 ±0.1℃的超高水準。並且是目前唯一曾獲得 「台灣精品獎」的工業用冷卻系統。

採用高精度PID溫度控制器,確保機械加工環境 維持±0.1℃恆溫狀態,提升精密機械的加工精 度及運作效能。冷卻效能高,可避免機械在加 工過程中因溫升產生熱變位而失去精度。

使用變頻壓縮機,無瞬間啓動大電流耗電,節 省電源消耗達30%,於低負荷運轉下,更能達 到省能源與高精度目標。產品採用新型高效率 環保冷媒,不污染環境。並有獨家設計人因工 程液晶控制面板,操作便捷且判讀簡便。

評 語

- 本標的具有自主開發之溫控器,可快速反應溫度變化,並驅動變頻器修正頻率指令,進而將溫度精確控制在0.1℃的恆溫狀態。創新設計之冷卻系統可去除冷卻液中的氧分子,降低氧化作用,管路震動及延長壽命。
- 人機介面操作安全,已有15項故障偵報功能與 相關創新技術獲國內外專利,除已有行銷實績 外,更深具市場擴大潛力。

Introduction

WEXTEN's industrial high precision inverter cooling system is at present the first and the only one made in Taiwan. The quality and efficiency have already matched with international companies, and the precision of temperature control can reach to high level that maintain temperature to ± 0.1 °C.We are also the only one who won the national award of "Taiwan Excellence" for industry cooling system.

Adopt high precision PID temperature controller to make sure working environment maintain ± 0.1 °C constantly and develop machining precision and working accuracy. High efficiency could avoid lowering machining precision by high temperature when processes.

By using the inverter compressor with no instantaneous current can save energy to 30%. Under the low load, it could reach to the goal with high precision and saving energy. Filling the high-efficiency environmental refrigerant is without pollution. Besides, we have human engineering liquid crystal panel by own designed, which is easy to read and operate.

- The present subject matter has the temperature controller that is independently developed by the maker and serves to quickly answer to the temperature variation by driving the frequency converter to correct the frequency reference, so as to accurately maintain the temperature at a consist level with a tolerance less than ±0.1 °C. The novel cooling system can remove the oxygen molecules in the coolant, thereby retarding oxidation, reducing pipe vibration and lengthening the service life.
- The user interface specially ensures safety in operation and there have been 15 malfunction detection and alarm features as well as related technologies patented in Taiwan and other countries. In addition to the existing sales performance, its potential for expanding the market share is also recognizable.

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TG-5 Plus精密五軸CNC工具磨床之整機自動化系統 TG-5 Plus 5 Axis CNC Tool Grinder with Robot loading system

簡 介

此TG-5 Plus 精密五軸CNC工具磨床之整機自動 化系統之主要技術為機械手臂的分析設計、機電 整合技術、主軸溫昇熱變位補正系統、自動化技 術與HMI設計。藉由這些關鍵性技術,將可提升 工作效率與加工精度,並降低客戶端之人工需求 與時間成本,讓客戶更能提升市場競爭力。除此 之外,藉由HMI的開發,使得客戶不需要重新學 習不同的控制器,便可快速的熟悉工具磨床,降 低學習的時間,並提高操作穩定性。藉此,整機 自動化系統的開發,有助於本公司CNC工具磨床 性能與價值的提升。

評 語

- 本標的為整合工具機主軸溫昇熱變位補正,
 3D探針自動量測與刀具再研磨、機械手臂快速換料、及匯集標準研磨刀具資料庫搜尋等自動化系統,可大幅降低刀具設計、刀具研磨及上下料的時間。
- 相關創新技術已獲專利,且已有行銷國內外三部的實績,具擴大市場潛力。

Introduction

TG-5 Plus 5 Axis CNC Tool Grinder with Robot loading system consists of ROBOT system analysis, electromechanics technology, thermal displacement compensation for spindle, automatic technology and HMI design. It can improve working efficiency and machining accuracy, and also reduce the manpower demand together with time cost. The automatic system will make the customers to enhance their competitiveness on the market. Besides, for the innovation of HMI design that makes customers are unnecessary to learn different types of controllers and also can be familiar with using tool grinder rapidly. Furthermore, it can reduce the learning time and also enhance the stability of operating. Therefore, developing the automatic system can advance the facilities and values of CNC tool grinders.

- The present subject matter integrates automatized systems including thermal displacement compensation for spindle, 3D probe for automatic measurement and tool resharpening, rapid material change by the robot arm, and search in collected databases of standard tools, so as to significantly reduce time consumed by tool designing, tool sharpening and material loading as well as unloading.
- The related novel technologies have been patented and three of the apparatuses have been sold in Taiwan and to other countries, with great potential for expanding the market share.

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扣件輪裂篩選機 Wheel Crack Sorting Machine

簡 介

高科技產業不論是3C產品、太空科技、車輛工 業等都必須使用高精密的扣件,如果沒有經過嚴 格品檢,無法達到客戶的品質要求,而本產品以 獨特的錐形反射鏡機構及光學影像處理軟體技術 ,以一支攝影機即可超越原先3支攝影機才能達 到的100%良品檢驗目標,且能檢測目前市售篩 選機難以檢測的扣件頭部全周部份,達到提升檢 測效率及產能,滿足市場環境及使用者之需求。

評 語

- 本標的震動送料盤的創新設計使扣件形成特殊 震動排列軌道,分度盤獨特的磁吸設計可穩固 扣件,利用錐形反射鏡機構及光學影像處理軟 體技術,即可用一隻CCD取像達到100%全像 功能。
- 具專利的創新設計,提高扣件檢測準確率及 速度且降低成本,已成功推展到市場,深具 競爭力。

Introduction

High-tech industries, no matter the Computer, Communication & Consumer Electronics product, aerospace science and technology or Motor vehicles industry, all must use highly precision fasteners inside, however, if the fastener has not passed through strictly QC, is unable to meet the customer quality requirements, our product with unique cone-shaped mirror and optical image processing software technology, 100% nondefective examination goal which by a camera surmounts the original 3 cameras can achieve, and can inspect the fastener head entire part which the current market sorting machine examines with difficulty, achieves the promotion examination efficiency and productivity to satisfy the market and the user demand.

- The present subject matter has a specially designed vibration plate that allows fasteners to form a particular vibration rail. The unique magnetic catch system of the index plate serves to stabilize the fastener. By using the conical reflector mechanism and optical image processing software, only one CCD is enough to take images to 100% hologram.
- The patented novel design improves the accuracy and speed of fastener detection and reduces the manufacturing cost. The device has been usefully commercialized and has high potential in the market.

聯成電機股份有限公司 Lan Chang Electric Co., Ltd.

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DC無刷變頻控制式馬達 BLDC (Brussless Direct Current) MOTOR

簡 介

傳統馬達之加工為內繞式捲線,缺點為產能低且 生產設備價格高,售價上無法與日本廠商競爭。 本公司創新採取積木式捲線組合,生產設備價格 低、加工方式簡便且產能高。研發程度可分以下 4點說明:

- 定子矽鋼片積木式結構--100%獨立研發模具 投資。
- 定子繞線組合採積木式組立線圈--可以大量繞 線後與定子後組立,不僅節省工時,加速生產
 時效且生產機台價格低,易購自市場常用機台
 ,可以採購數台以因應更大量生產。
- 轉子與軸心結合方式--100%獨立研發,達到避 震最佳、減低傳導噪音。
- 定子成型-- 採用BMC熱固性塑膠,以模具射 出包覆成型。

評 語

- 本標的以創新之積木式卷線組合取代內繞式卷線或鏈條式卷線生產方式,設備價格低且產能高,轉子內置橡膠之設計可消除噪音,對爾後之市場推廣助益甚大。
- 除多項創新設計已取得專利外,也獲得國內歌林、東元、聲寶等公司採用,深具競爭力。

Introduction

Processing of the traditional motor winding is the type volume line for, which caused low capacity but higher cost in production equipment that the selling price is unable with the Japanese manufacturer competition. Lan Chang innovates the building block system including bellowed R&D:

- Stator silicon steel building block system structure--100% independent mold investment.
- Stator Winding by block system Winding massively to combine as requirement, not only saves time & cost of machine and easy to purchase regular winding machine from local. Can purchase more of machines by in accordance to mass productions.
- Rotor and Shaft combination --100% independent R&D by Lan Chang, can avoid shock proof best and decrease the conduction noise.
- Stator formation-- Use the BMC thermosetting injection by the mold.

- The present subject matter uses the novel building-block line winding assembly in place of the traditional interior circuit winding and chain winding, so as to have the advantages of low cost and high capacity. The rubber inside the rotor helps to eliminate noise, and facilitate future promotion of the product.
- While many novel features have been patented, the technology has also been adopted by some leading manufacturers in Taiwan, including Kolin, Teco, and Sampo, showing its outstanding competitiveness.

九垚精密陶屬工業股份有限公司 AnOR Precision Ceramic Industrial Co., Ltd.

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生活陶瓷結合陶瓷射出成型之發展與突破 Development of Common Ceramics Combining with Ceramics Injection Molding

簡 介

創先導入科技陶瓷製程生產「生活陶瓷品」,以 精密陶瓷射出技術取代傳統成型方法,並克服原 先產品生產上的諸多限制與缺陷,有效的降低成 本、提高產能,更促進了利潤空間的彈性。

- 「近實成型」之燒結技術,可降低陶瓷燒結
 成型後的加工成本。
- 可依照客戶需求大量生產。
- 同時整合a.陶瓷材料。b.射出成型技術。c.超精 密研磨加工技術。d.產品結構與製程之專利。

評 語

- 本標的與同業生活陶瓷相比,其製程以射出成型為主,加工速度快,可製作複雜形狀產品; 高壓成型,使製品緻密性高,耐壓性強。此外 其產品成型厚度薄,使後加工需求達到最小, 成本可具競爭性。
- 公司掌握核心技術包括配方、混煉、射出成型 和精密燒結,可以解決陶瓷射出成型,收縮時 維持一定之形狀之挑戰,並克服陶瓷脆性之 問題。

Introduction

Importing technology pioneered Ceramic Injection Molding process "life ceramic products" using precision ceramic injection molding technology to replace the traditional methods, and to overcome many of the original products on the limitations and defects, effectively reduce costs, maximize productivity, but also contributed to profit margins flexibility.

- Sintering process reduces post process cost as the "Near-Net-Shape Forming"
- Rapid forming process can satisfy customer's mass production requirement.
- we also combined the process as follow: a. ceramic materials.
 - b.Injection Molding Technology.
 - c. Ultra-precision grinding processing.
 - d.The patent application of the product structure and process.

- As compared with the existing ceramics in use, the present subject matter implements the injection-molding technology, which is advantageous of its short process cycle and capability of molding products with complex shapes. The products, molded under high pressure, are highly dense and highly resistant to pressure. Furthermore, the molded products have relatively small thickness, thus minimizing the need of post-molding process and in turn achieving competitive costs.
- The maker, mastering all the core technologies such as formula, mixing, injection-molding and precision sintering, is capable of retaining molded ceramics at the desired shaped from deformation due to post-molding shrinkage overcoming and overcoming the problems related to brittleness of ceramics.



大瓏企業股份有限公司

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骨科及關節微創(內窺鏡)手術電燒刀 Orthopedics Procedure Minimally Invasive Electrosurgical Pencil

簡 介

本標的骨科及關節微創(內窺鏡)手術電燒刀係由 不同尺寸精密金屬刀頭附吸水功能設計與筆刀本 體(pen body)所組成。刀頭形狀尺寸有三種設計 並配合有管及無管的抽吸功能等多種電燒刀頭, 可依病人關節病變治療需要切除不必要薄膜組織 的大小及位置來決定使用的刀頭形狀。

同時採用單極(Monopolar)電極設計,因此本標 的可以直接使用於一般較普遍被使用的單極電燒 機。電燒刀插入電燒機(Electrosurgical Generator) 後,另外透過內窺鏡的輔助,醫生可進行身體各 種關節之微創手術讓病人在最小的傷口下達到精 準治療。也因手術過程對骨關節周邊組織所造成 的損傷較少,且傷口較微小可縮短病人復原的時 間。

評 語

- 本標的主要創新性在新型刀頭及一體式抽吸管 及單極式設計,可有效將分解組織移除,確保
 手術靶組織點的可視度,利用等離子體(Plasma) 技術,相較於傳統之電燒刀或雷射技術,具有
 工作溫度低,組織損傷深度淺,且術後疼痛度 低之優點。
- 微小刀頭設計,可處理傳統器械難以達到的部位,可於小面積達到放電均匀,使電子強度極大化,達到精準的手術切割治療,改善手術時間,並適用於大部份市售電燒機(Electrosurgical Generator)。

Introduction

The orthopedic/arthroscopic ablation device consists of a precision metal electrode, aspiration tube, and handle. The electrode design includes a number of tissue ablation/coagulation probes in aspirating and nonaspirating configurations. With the comprehensive line of probes, surgeons can choose the probe to use based on the type of operation and the size of tissue.

This monopolar device can be used in conjunction with standard electrosurgical generators. With the assistance of a laparoscope, surgeons can perform minimally invasive surgery to cure patients without creating unnecessary damages to tissue not targeted for ablation. There would be less chance for collateral tissue damage and patients can recover in a shorter amount of time.

- The present subject matter that has its primary innovation relying on the novel Electrode, the integrated suction line and the monopolar structure, is capable of effectively removing decomposed tissues, so as to ensure the visibility of the surgical target tissue. The present subject matter implements the plasma technology, which, as compared with the traditional technologies related to electrosurgical units or laser, is more advantageous for its lower working temperature, less injury depth of tissue, and raising less postoperative pain.
- The microminiaturized Electrode is capable of reaching out positions hard to be reached by the traditional tools, and realizing the homogeneity of discharge in small areas, so as to maximize the charge of electrons, thereby accomplishing precise surgical cutting treatment, and shortening operative time. The present subject matter is adaptive to most of the commercially available electrosurgical generator.

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Vimost 简介



顯示與觸控元件之光學級精密膠合技術 VIMOST

簡 介

山太士公司因應越來越多的光學級精密膠合需求,特別結合自身的材料技術和精密自動化技術,研發出高清晰精密膠合技術:Vimost。

Vimost採用高透光高信賴度膠合劑,經由精 密設計的自動化程序,提供高準位及高清晰的 膠合服務。使用Vimost的終端商品,可有效減 低環境光的干擾,並增加產品本身釋出的亮度 ,使陽光下的您,依然能輕鬆優雅地檢視您的 螢幕。

評 語

- 以解決現有膠合製程在大尺寸面板產生之介面 空氣層問題,研發濕式製程技術,相較傳統的 膠合技術良率(約75%),本案標的容許重工, 整體良率可達95%。
- 本案標的之創新除了光學膠之獨特配方外,在 製程設備上之設計和自動化上亦有創意。

Introduction

Accommodating to the special needs of optical bonding, AMC combined material technology with precision automatic technology for developing high definition laminated technology : *Vimost* •

Vimost is made to be of high pervious to light with high confidence level and can provide high accuracy and definition bonding service through precision automatic procedure. Product using *Vimost* can reduce the interference of the light from environment and enhance the brightness for viewing the display screen easily under the sunlight.

- The traditional adhesive bonding process when applied to large-size panels may cause intermediate air layers. In order to solve this problem, a wet process is developed. As compared with the traditional adhesive bonding process whose yield rate is about only 75%, the present subject matter allows reworking and thus improves the overall yield rate to 95%.
- The present subject matter shows its innovation not only by the unique formula of the optical adhesive, but also by the creative design of processing equipments and automation.



磁量生技股份有限公司

MagQu Co., Ltd.

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磁性免疫分析儀 Magnetic Immunoassay Analyzer

簡 介

磁性免疫分析儀,再搭配上磁性試劑,提供使用 者能定量地檢測出待測生物分子(如蛋白質、病 毒、藥物殘留等)的濃度。該磁性免疫分析儀具 有許多量測上的優勢,如其操作相當簡易、高準 確度、高靈敏度、電腦自動化分析、亦可檢測小 生物分子等。因此,該磁性免疫分析儀不僅可作 爲研究使用,亦可用在實際或臨床檢驗;而可應 用的領域,更含括農業(如蘭花病毒)、漁業(如用藥殘留)、林業、畜牧(如豬流感病毒)、 食品及人體醫學(如感染因子)檢測等。

評 語

- 本案標的「磁性免疫分析儀」係運用「磁減量 檢測法」開發具創新性之磁性免疫分析儀,解 決現有磁性免疫分析儀之缺點(需兩種抗體、 兩次接合反應、兩次清洗程序),本案標的只 需一種抗體、一次接合反應、且免清洗程序。
- 本案標的可運用於多樣化生化活性檢體(例如 抗體、蛋白質、核酸),應用範圍包括農、林
 、漁、牧、食品、人體醫學等之檢測。

Introduction

Magnetic Immunoassay Analyzer is capable of quantitatively detecting the concentration of bio-targets, such as proteins, viruses, chemicals, etc., with aids of regents having adequate bio-functionalized magnetic beads. Magnetic Immunoassay Analyzer shows many merits, e.g. easy operation, high-speed assay process, high accuracy, high sensitivity, computerization, validity for small molecules, etc. Thus, Magnetic Immunoassay Analyzer is ideal not only as a clinical assay tool, but also as a research instrument for quantitatively detecting biomolecules. Therefore, Magnetic Immunoassay Analyzer is powerful as used in aspects of agriculture (e.g. orchid virus), aquaculture, veterinary (e.g. swine virus), food, and human diagnostics (e.g. inflammatory factor), and so on.

- The present subject matter is a novel "magnetic immuno-chromatographic tester" that uses magneto reduction assay method to remedy the defects of the known magnetic immuno-chromatographic testers (such as requiring two kinds of antibodies, double ligation, double cleaning). Advantageously, the present subject matter only needs one antibody, and single ligation, without any cleaning work.
- The present subject matter is adaptive to various biochemical active samples (e.g. antibodies, proteins, nucleic acids), and may be widely applied to assay applications for scopes of agriculture, forestation, fishing, husbandry, food science, human medicine.

聯發生物科技股份有限公司 Advanced Green Biotechnology Inc.

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黑殭菌生物製劑量產技術之建立 Establishment of Techniques for Mass Production of *Metarhizium anisopliae*

簡 介

黑殭菌為一蟲生眞菌,可藉由分生孢子的傳播 ,於田間重複形成有效感染源,長期施用下可 降低作物害蟲族群數量,減緩蟲害的發生。本 產品所含之菌種是由大自然中所分離之菌種, 因此對人畜並無傷害之顧慮,且無殘留之問題 ,適用於無毒的農業栽培上。

評 語

- 本案標的為「黑殭菌生物製劑量產技術」,該 公司建立獨特之機械化固態量產設備及其生產 技術,可以增加黑殭菌發芽率、孢子保存期間 、並建立低成本之快速生產方法,已取得兩件 專利。
- 本案標的是國內第一家黑殭菌之商業化產品,
 本案產品在農用生物製劑領域具潛力,符合減少化學農藥使用之農作物生產趨勢。

Introduction

Metarhizium anisopliae is a kind of entomogenous fungi which has great potential for the biological control of pests. After contact, the spores germinateing and the hyphae penetrate the insect's body, develop inside the body eventually killing the insect. *Metarhizium anisopliae* is safe for humans and applicable to organic farming and gardening.

Commentary

• The present subject matter relates to the technology for "mass manufacture of *Metarhizium*-based biological preparation". The method provider has developed unique mechanized equipment and technologies for solid state mass production, thereby improving the germination percentage and spore storage time of *Metarhizium anisopliae*. The derivative low-cost fast manufacturing

method has been granted two patents.

• The present subject matter is the first successfully commercialized *Metarhizium*-based product in Taiwan. It has high potential for biological preparation for agricultural purpose, and well answers to the trend of agricultural industry that seeks reduction of use of chemical pesticide.

艾微科技有限公司 AIWeb Technology Ltd.

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淘評分眾聯播網 AITopping Advertisement Network

簡 介

「語意分析」是「淘評分眾聯播網」的關鍵核心 技術,而平台合作卻是「淘評分眾聯播網」的關 鍵價值。透過「語意分析」的關鍵核心技術吸引 了國內百大強勢網路平台合作,讓廣告曝光總 數與效益領先其他品牌(如:中華電信Xuite部落 格、Yam天空部落格、新浪部落格等),使得每 則廣告資訊曝光效果極大化。

「淘評分眾聯播網」以文章本體的標題與內文做 為廣告媒合的依據,從超過百萬篇的BLOG文章 中,判斷適合投放的廣告類型,以達到以下主要 目的訴求

- 在對的地方找到對的人
- 用最快的方式找到最適合投放的族群
- 讓廣告成為有用資訊佈達

評 語

- 本標的運用語意分析技術,導入Blog的文章分析,進行文意剖析,找尋與行銷標的相關的 評論文章,提供行銷標的相關的行銷資訊,以 進行廣告行銷,有助於鎖定目標客群,提昇廣告效果。
- 以擁有的語意分析技術為基礎,所建置的文意 資料庫,隨著使用者的增加,將不斷成長,可 持續拉高競爭優勢。

Introduction

"Semantic analysis" is the core technique of "AITopping network advertisement" whereas cooperation of different platforms is the core value of "AITopping network advertisement". By integration of involved network platforms and blogs(CHT Xuite blog, Yam sky blog and Sina blog), it makes our system perform better than other brands of appearance times of customers' advertisements and its benefits. By this way, we can maximize effects of each appearance of advertisements in order to enhance qualities and quantities of advertisements.

"AITopping network advertisement" uses titles and abstracts of articles' ontology for base of advertisements' matching. By techniques of semantic analysis developed by Aiweb, system can get titles and contents of articles clearly from several blogs' articles and judge suitable advertisement types for broadcast in order to get following objects:

- Find correct people from correct places.
- Find the most suitable groups for broadcast by the fastest way.
- Let advertisements to become useful ways of information sharing.

- The present subject matter applies the semantic analysis technology to articles in Blogs for analyzing semantics of the articles in order to identify commentaries directed to the object to be marketed as a target to provide marketing information of the marketed object in the form of advertisements. Thus, the present subject matter helps in locking the target audience and improving the effectiveness of advertising.
- Based on the existing semantic analysis technology, the built semantics database will keep growing with the growth of the number of users, thereby ceaselessly improving competitive advantage.

易而得股份有限公司 Yield Technology Co., Ltd.

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主動式求救裝置與網路服務之硬體裝置 SuperGuard – PT03 Tracking/Security System

簡 介

超級警衛-是一個在全球皆可以使用的定位系統 ,不論是車輛,人員 船舶或飛行器.位置資料可 利用GSM網路或雙向衛星網路傳遞至伺服器中並 以網頁方式呈現至社會大眾。功能包含電子地圖

各種報表以及代理商所須要個各種工具。
 您可以用最簡單方便的方式得知位置,例如上
 網登入您的帳號,或使用手機簡信等等。

超級警衛非常簡單使用,在GSM涵蓋區內的通 信成本低,在無GSM的地區,例如海上,天空 或是沙漠地區UT03亦可與雙向衛星通信,保持 通信暢通,讓您無後故之憂。

就如同我們的產品政策" SuperGuard, 什麼都不怕"

評 語

- 整合GPS、Iridium衛星通信、GSM網路通信技術建置的自動回報定位系統,並以信息定位器形式出售,再提供網路追蹤管理服務,提高不易仿製性。
- 產品及服務發展性強,目前已經擴大市場至美國、東南亞,甚至於非洲地區,擁有數項專利,在防盜器、保全、行車安全等方面具有應用 潛力,並具有技術與營運模式創新性。

Introduction

SuperGuard – that's the worldwide recognized brand for GPS/ GSM/ GPRS vehicle, personal and asset tracking, designed to work everywhere, through GSM 2.5G, 3G or 2-way satellite communication. All positions, user information, and additional data are stored in secure databases and can be accessed through online tracking website utilizing a great variety of maps, reports and management tools.

You can track and manage your devices over web browsers, mobile phone per SMS or via voice prompt through phone call.

SuperGuard is easy to use, at low operation costs within GSM coverage. A special UT03 model integrating twoway satellite communication is available for urban, aviation or marine applications running in areas without GSM coverage.

Just as the company slogan says: "No Matter Where You Go, SuperGuard is Always With You !"

- The present subject matter relates to an automatic position reporting system that integrates thetechnologies of GPS, Iridium Satellite communication, GSM network communication, and is commercialized in the form of an information locator, that serves in company with subsequent web-based tracking and managing services, thereby adding difficulty to bad-will counterfeiters.
- The potential of both the products and the service is great. The current market coverage has been expanded to the USA, South East Asia, and even Africa. This novel technology has been granted with several patents and shown potential for being applied to burglar alarms, security devices, diving safety devices. It provides innovation to technical and operational modes.



聯凱國際生醫資訊股份有限公司

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負責人: 顏志展 總經理

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DRG Digester互動型病例管理決策分析系統 DRG Digester - Clinical Supporting System

簡 介

根據中央健康保險局公告指出,將自99年1月1日 起實施「全民健康保險住院診斷關連群」之支付 通則,聯凱所開發之「DRG Digester互動型病例 管理決策分析系統」,將醫院所需之資料整合與 資訊管理需求,與醫療院所慣用之HIS病例資料 系統雙向連結,節省資訊銜接耗損的成本,並避 免人工謬誤。同時結合DRG碼試算、編碼判斷以 及報表產出等功能,協助醫護人員有效管控醫療 資源,維持醫療品質並達成治療安全之目的。

評 語

- 本標的導入成本與效率管理於醫師之醫療行為
 ,有助於提升病患之滿意度及增進醫院經營之
 財務效率。
- 結合健保給付制度及衛生署之相關規定,並結
 合醫院之HIS系統,可提升醫院整體之資訊管
 理方案。
- 可協助建立全國醫療行為相關資料的收集與分析,提昇整體的服務效率。

Introduction

According to the Bureau of National Health Insurance, the "Tw-DRGs payment standard would be carried out on Jan. 1 10. LinkMed Asia, Inc. has developed a new DRG Digester – Clinical Supporting System enables the hospital to manage its wide variety of data and information. Besides, it can also interact with HIS (hospital information system) to reduce the cost and mistakes. After intergration procedure, all of the data such as DRG code, coding estimation, and report would turn out and can effectively maintain high quality of medical record management to reach the goal of cure safety.

- The present subject matter introduces management of cost and efficiency into doctors' medical behavior so as to facilitate promoting patients' satisfaction and improving the final efficiency of the hospital.
- The present subject matter, when incorporating the reimbursement system of the current National Health Insurance and the relevant regulations provided by the Department of Health, and working with the HIS system of the hospital, facilitates improving the overall information management strategy of the hospital.
- The present subject matter may be used to help with collecting and analyzing information related to nationwide medical behavior, thereby improving the overall service efficiency.

名躍國際健康科技股份有限公司 Strength Master Fitness Tech Co., Ltd.

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橢圓機 elliptical trainer



簡 介

本產品Intelli key™設計,藉由按鍵指引,使用者 不再陷入一堆按鍵之中而不知所措,操作簡易方 便;扶手符合運動時手臂自然擺動之角度設計, 讓運動更符合人體動作之律動;當進行橢圓機運 動踩踏時,使用者之腳掌通常會向前施力,而足 跟會隨著離開踏板,本產品之設計可解決此問題 ,並提供更換式之不同形狀、高度及顏色之緩衝 墊,以適合不同之使用者;本產品設計有USB介 面,可儲存個人運動資訊,搭配健康管理系統, 專業群提供個人化之運動處方,讓運動更有效; 本產品並擺脫橢圓機給人大且長之刻版印象,實 現輕薄短小之工藝品。

評 語

- 踏板設計可扭轉並具緩衝功能,貼近使用者腳
 部之自然運動型態。
- 扶手之擺動設計符合人體工學。
- 操作介面使用電子控制與顯示,易於操作 辨識。
- 結合線上即時個人化健康管理系統可達到隨時 監控與管理。

Introduction

The Intelli key[™] design of the SM elliptical trainer provides user with simple and quick access operation by means of clear key direction so that the user is no longer confused by a lot of buttons & feeling helpless. The handlebar operation pattern is completely fitting human arm's natural swinging in back and forward and much more matching with human body rhythm. When stepping on the elliptical trainer, usually the user workout strength will be focused on his half sole and the heel will be up from the pedal without support. However, not only have the SM elliptical trainer solved this problem, but also offers various cushions with different shapes, height, colors for different build's users. The SM elliptical trainer is equipped with USB interface to store up individual workout data. In addition, with the health management system that provided user with individual workout courses, the trainer makes workout much more efficient and scientific. Finally, the lightness, thinness, shortness and minimization of SM elliptical trainer totally turns over the traditional & heavy design image.

Commentary

The present subject matter has the novel characters of: 1. the pedals being twistable and providing a buffing function, so as to enable the exercise similar to the natural movement of human lower limbs; 2. the armrests swinging in the way complying with ergonomics; 3. the user interface implementing electronic control and display, thus being manageable and recognizable; and 4. the apparatus being capable of associating with an on-line real-time personal health management system, thereby achieving timely monitoring and management of users' personal health conditions.

明昌國際工業股份有限公司 Machan International Co., Ltd.

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安全型電子鎖控之專業工具箱 Professional storage with digital security lock

簡 介

工具車在眾多專業用的工具及器具,提供了分類 存放管制的運用,更能方便隨您推移至目的地, 在這基本的主要功能外,您還欠缺什麼呢?您是 否還在找不到鑰匙來開啓工具車嗎?您是否還在 擔心有人會開啓多數的抽屜而使導致過重傾倒嗎 ?您是否還在想要如何推移時,小心防撞到人或 物體嗎?此產品讓您無此後顧之憂,並且提升了 工作效率,在你管理個人的工具時,不需要再浪 費時間來找尋您的鑰匙,讓您隨時隨地都能快速 使用,並且在產品的安全操作上,更是多加一層 把關,畢竟生命安全是無價的。

評 語

- 將機械式開鎖抽屜方式結合電子密碼鎖控裝置,
 免除攜帶鑰匙的麻煩。
- 抽屜連動止開裝置,可避免同時打開太多抽屜,
 造成工具箱重心不穩而傾倒的意外。

Introduction

The function of storage is no more than just a space for storage and a cart can be moved everywhere. What else do you expect? Do you still look for the key to open? Do you still worry the cart stability when opening drawers? Do you still care the safety when moving around?

This product can meet your needs and increase the working efficiency. You do not need to waste time and can make good use of the storage quickly at any time. The digital lock provides you the extra security and convenient usage. After all, the safety is the first priority.

Commentary

The present subject matter has the novel characters of: 1. the drawers having the mechanical locking system combined with the electronic cryptogram lock control device, thereby eliminating the inconvenience of carrying keys; and 2. the drawers being equipped with a linkbased security device that prevents the tool box from being unbalanced and overturned due to simultaneous opening of drawers equal or more than a preset number.



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綠色環保先進鑽石廢水處理系統 Environmentally friendly EAOP wastewater treatment using boron doping diamond electrode

簡 介

目前台灣處理工業廢水的普遍方法,是以加入化 學藥劑做中和、快混或慢混後,再將沉澱物(亦 即是污泥)轉運至他處處理,因而造成了極可怕 的二次環境汙染。本系統利用先進鑽石科技技術

,能將H2O輕易地轉換成強氧化劑OH自由基, 此OH自由基在不須添加任何化學藥劑的情況下

,即能立即分解廢水中的有機物,不會造成二次 污染,安全又環保。

本系統具有:(1)高效處理能力;(2)成本低;(3) 節省能源;(4)操作簡單及(5)客製化模組設計等 多項優異特性,處理成效達98%,是目前水資源 處理方法中最環保、又經濟的處理方法。

評 語

- 本標的利用導電鑽石組成電極模組,經由極少 量電流產生具強氧化之OH自由基,再藉由強 氧化劑破壞分解水中有機物,降低水中化學需 氧量(COD),使其不產生污泥及其他二次污染 物,極具環境友善特性之廢水處理系統。
- 產品以模組微電腦控制及整合系統等標準化技 術設計,使其能以最佳化條件處理不同性質之 廢水,維修容易且電極材料損耗率低,致廢水 處理成本比傳統化學處理法低。

Introduction

The high efficient electrochemical oxidation properties bring a great opportunity to support common wastewater treatment plant. This innovation involves new material and module design, mechanical, electrical, and system integration design. The electrochemical generation of oxidation can reduce quantities of pollutants that might be discharged into the environment. The competitive advantages of this system are: (1) Efficient COD reduction (2) Low operating and maintenance costs (3) Energy saving (4) User- friendly (5) Module design with system customization. It is the most economical and environmental-protected water treatment system.

AWN

- The present subject matter utilizes conductive diamond to form an electrode module, which employs very little electric current to allow production of strong oxidative hydroxyl (OH) free radicals. Then the strong oxidative agent breaks and decomposes the organic matter in water, thereby reducing chemical oxygen demand (COD) in the water, and preventing the generation of sludge or other secondary pollutants. Therefore, the present subject matter is a highly environmentally friendly wastewater treatment system.
- The present subject matter implements standardized design elements such as the modulized microcomputer control and the integrated system structure, enabling itself to treat wastewater of various naturals under the optimized conditions. The system is easy to maintain and its electrodes have a very low attrition rate. As compared with the traditional chemical treatment system, the present subject matter significantly reduces the costs for treating wastewater.

首君企業股份有限公司

Stand Tools Enterprise Co., Ltd.

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數位扭力扳手 Digital Torque Wrench

簡 介

數位扭力扳手採用最新的半導體技術,結合台 灣3C科技的技術製作了SENSOR和CPU。與他 款傳統的扭力扳手比較之下,可以呈現更精準 的扭力。

直覺式操作介面,(一個按鈕一個功能),操作簡 單又便利。

超大LCD螢幕和穩定的數值增加速度避免判讀扭 力錯誤。

防滑的橡膠方型手柄讓使用者操作時更舒適。 2段式的蜂鳴聲讓使用者在操作時方便辨認。

許多的創新,例如正確的數值顯示、長時間使 用、操作簡單,省電等。此產品非常適合應用 在汽機車維修、航空、機械、引擎、及電子設 備等。

評 語

本標的為改善機械式扭力扳手之量測不準確及 判讀不易等缺失,因此在創新研究上,整合了 MEMS技術、半導體技術及IC設計,做為「受力 感應與運算轉換」之操作依據;有效提升扭力扳 手之高精密性和方便性。(ISO6789為6%,本標 的為2.5%)

Introduction

The Torque Wrench utilizes the latest semiconductor technology and the most recent Taiwan computer techniques to make the special sensor and a super CPU that is applies to fasten screws precisely. Compared with a traditional torque tool, DG[®]-II can show the exact applied torque.

A LCD and a stable torque increment avoid misreading that is occurred with a mechanical torque wrench.

A square handle with non-slip rubber provides a comfortable and ergonomic grip.

Two tones of a loud buzzer are easily recognized during work.

This Torque Wrench has various advantages including showing an accurate value, long-term and easy use, and small power consumption. It is perfect for automobile, motorcycle, aircraft, engines, electronic equipment, and machines.

Commentary

For overcoming the disadvantages of the traditional mechanical torque wrench such as inaccurate measurement and unrecognizable readings, the present subject matter, on the ground of novel researches, integrates MEMS technology, semiconductor technology and IC design to form the operational basis of "reaction force detection and arithmetic conversion", so as to effectively improve the preciseness and manageability of the torque wrench. (While ISO6789 is $\pm 6\%$, the present subject matter is $\pm 2.5\%$)



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100W LED 路燈 100W LED Street Lighting

簡 介

100W LED燈是本公司開發的一款以高亮度LED 為光源的路燈,產品創新特色以先進散熱科技-迴路式熱管做為本燈具散熱模組的核心技術, 迴路熱管(LHP)具全球獨家專利,此技術更經過 美國太空總署高規格檢驗通過,具重量輕,柔 性結構,可遠距離傳熱,不需要風扇等多項優 點,而且完全不需要額外電力消耗,可有效應 用於高功率LED燈具,取代傳統龐大且笨重的 鰭片散熱結構,更經過日本及歐美客戶可靠度 測試通過,該產品經過3,000小時長期測試後的 「光束維持率」可維持小於3%的光衰,另外在 光學透鏡設計上,除設計出高均匀度配光,並 且通過UL、CNS、CE、CQC等國際安全認證。

評 語

本標的採太空科技之波動式散熱元件(LHP迴路 式熱管),屬輕巧化之柔性結構;具遠距離散熱 不需風扇、耐用性佳(10年)及低光衰(小於3%) 等特性。另在多重疊層散熱結構及LED燈具裝 置與製程專利上,則結合散熱、光學、耐候等 功能。

Introduction

100W LED street lighting is one of ATD's highbrightness products. The product is embedded with advanced heat dissipation device - Loop Heat Pipe (LHP). ATD developed the globally patented low-cost LHP, which was originally for spacecraft usage and approved strict-Spec test of NASA. Loop Heat Pipe is an innovative two-phase heat transfer device which operates with low thermal resistance, no cooling fans, light-weight, flexible and bendable structure for long distance heat transfer, these friendly design characters have brought ATD's 100W LED street lighting excellent and long-life performance, replacing traditional & bulky heat sink design. The reliability tests of ATD LED street lightings were approved by the customers of Japan, USA & Europe, especially after 3,000 hours of Lumen maintenance factor test, light decay is lower than 3%. Besides, adding high-uniformity of optical design on ATD LED street lightings, had been approved by UL, CE, CQC and CNS certifications.

Commentary

The present subject matter adopts the fluctuationtype cooling element (loop heat pipe (LHP)), which is originally used in space technology and benefits from its compactness and flexibility. The present subject matter thus has the advantages of eliminating the need of any fan for cooling even with a long distance, and having good durability (10 years) as well as low brightness declines (less than 3%). With respect to layered heatdispersion structure and patents related to LED lighting devices and processes, the present subject matter successfully integrates the functions of heat dispersion, optical purpose, and weather resistance.

隆輝安全帽有限公司

Lung Huei Safety Helmet Co., Ltd.

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複合式安全帽 FLIP UP HELMET

簡 介

高級的安全帽是車手形象的表現之一,因此外形 美觀及功能完整的安全帽,正如機車的性能與外 觀一樣重要,而本產品擁有國內外多項專利保護 ,及多項創新設計,如獨特的空氣流道設計,提 高通風性;內襯通風網設計,確保佩帶的舒適性 ;鏡片專利設計,能有效降低風切噪音;鏡片更 換,完全不需要工具;流線型的外觀,輕量化, 及可拆洗式3D內襯設計,安全性獲國內外認證 通過,讓使用者佩帶更方便、更舒適、更安全。

評 語

本標的具下列主要創新特色:1.全罩式與半罩式快速 互換。2.下巴部件易於掀開且可確實定位。3.穿戴 舒適及主要組件為可拆式設計。4.空氣流道設計可 防止擋風鏡片起霧且降低帽內溫度。5.已通過CNS 及AS國家安全測試標準。

Introduction

The performance of an high-end helmet is also represented the riders' image as well. Therefore, an excellent helmet shape and mutli-functional helmet is such an important factor same as motorcycle's function and its surface. This flip up helmet owns lots of patents protection and several innovation designs throughout the worldwide. This helmet is also certificated with worldwide homologations such as ECE 22.05, DOT, AS1698, CNS with its safety, fashion appearance, lightweight and all removable 3D inner liner design. The main purpose is to provide the users/riders a helmet to be more convenient, more comfortable and maximum safety as always.

Commentary

The present subject matter has the primary novel characters of: 1. quick switch between the full-face mode and open-face mode; 2. the chin part being easily lifted and positioned; 3. the helmet allowing comfortable wearing experience and all the main components being detachable; 4. the air channel being configured to prevent the windshield from being fogged and to remain cool inside the helmet; and 5. the helmet being recognized by CNS and AS national safety standards.

萬仕達科技股份有限公司 Wanstar Technology Co., Ltd.

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高功率、高瓦數LED燈系列 High Power、High Wattage LED Light Series

簡 介

萬仕達的T1導熱技術是將LED晶片所產生的高 溫傳導至燈具的外殼,再藉由燈具外殼與空氣 接觸,將影響LED燈具壽命最大因素的熱能傳導 至大氣中。

T1超導熱微粒材質,以鈦為主力導熱元素, 歷經數十項高科技製程,超越NASA散熱技術 ,創新金屬媒合科技,總結劃時代導熱材料新 紀元。萬仕達LED光源使用單顆多晶封裝,封 裝技術之獨特,使光源照射角度寬廣,配光均 匀,不產生重影現象。

評 語

- 本標的採用自然散熱方式,不需使用散熱導管 或風扇等繁複之散熱裝置,不僅可以降低成本 ,且可降低故障率,可避免因散熱功能衰減而 導致溫度上升之斷電或光衰問題。
- 散熱技術以鈦為主力之導熱元素,由外殼之特別流線與凹紋設計,藉由風力對流以達散熱作用,並藉由特殊封裝技術,將光源集中不致產 生漫射,以免路燈產生重影或黑影死角,造成 交通視線之干擾問題。

Introduction

Wanstar's unique heat conduction technology throw materials is to transmit the heat from the LED chips to the lampshell, straightly contact with the air by the lampshell, and then transmit the heat into the atmosphere, which is the biggest factor of the influence for the LED lifespan.

- Titanium is used as the main element for the compound material.
- Processed with numerous high-tech manufacturing procedure.
- The innovative metal compound top leads the technology of Heat-Conduction in the 21st Century.

Wanstar adopt the very unique packaging of multi-chip per one LED module as the light source. Our illuminance distribution on the ground is widespread and unified. There are no flickers and ghost effects. As long as the streetlights are constructed under the normal pitches, there won't be any shadows and dead corners.

- The present subject matter implements a natural cooling method, without the need of complicated heat-dissipation devices such as heat-sink pipes or fans, so as to not only reduce the manufacturing cost and malfunction rate, but also prevents power breach or light wane due to the overheated system under declining cooling efficiency.
- The discussed cooling technology utilizes titanium as the main thermally conductive element. The specially designed streamlined housing with depressions allows wind convection to dissipate heat. In addition, the novel packaging technology contributes to centralize light from the light source and prevents diffusion, so that the illumination of the streetlamp is free from showing ghosts or having dead spaces, thus ensuring our view of traffic against ant interference.



碩奇科技股份有限公司 CCI TECH INC.

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全自動梭織打樣機 Automitic Sampling Loom – SL8900 EVERGREEN

簡 介

全自動梭織打樣機是為創新而生的打樣工具,經 過全球各地使用者的驗證,它不但容易操作而且 非常有效率,不但能快速制作出高品質的樣布, 而且樣品制作的成本大幅降低,更重要的是因為 樣品制作更容易而激發出各種新的嘗試,造成創 新能力的提升,更是難以估算的龐大效益。

評 語

 本標的物為目前全世界第一台「全自動梭織打 樣機」,並已商品化生產,在技術創新上整合 了數位化織品設計、打樣生產、紗線色樣配置 及各種複合紗材等即時試樣流程;本產品對紡 織業的織品開發極具關鍵助力。

Introduction

Automitic Sampling Loom – SL8900 EVERGREEN is a sampling tool for developing innovative products and has been proven through the actual working experiences of customers worldwide. It is easy to operate and gives high efficiency. This new modle produces high quality samples at high speed but at the same time reduces the costs dramatically. Most importantly, with SL8900 EVERGREEN sampling has never been easier, therefore, initiates more trials which lead to the improvement in creativity. This is in fact an Invaluable outcome for all weavers.

Commentary

• The present subject matter is an unprecedented "full automatic pattern loom", and has been commercialized. In respect to technical innovation, it integrates various procedures in a sample flow, such as digital textile design, sample making, yarn color setting or composite yarn configuration. Thus, the present subject matter provides crucial assistance to textile development in the textile industry.

成就創新 再創契機

次第16屆 中小企業創新研究獎 The 16th Taiwan SMEs Innovation Award

第16屆中小企業創新研究獎 申請須知

一、目的

為鼓勵中小企業從事創新研究發展、提升技術 與服務水準、增強競爭力,特訂定「中小企業 發展基金獎助中小企業創新研究要點」。針對 持續以有組織、有系統之方法,自行從事創新 研究而有具體成效之中小企業,甄選較爲傑出 者予以適當之獎勵,以期技術生根,進而達到 產業升級與健全發展之目的。

二、 申請資格

(一) 獎勵對象

合於行政院核定「中小企業認定標準」之 中小企業,其民國97年之研發費用佔營業 額比例不得低於2.0%者。(研發經費請參考 申請書表1註2)

(二) 獎勵範圍

自行研發之創新性產品、技術、流程、服務(包含技術服務、知識服務、商業服務)等項,於民國97年完成,並已商業化運用或 量產者。

註:申請獎勵之標的如已(曾)獲得政府機關補助 款(如主導性新產品開發輔導計畫、協助傳 統工業技術開發計畫、鼓勵中小企業開發 新技術推動計畫、傳統工業技術升級推廣 與輔導計畫、技術處「研發服務產業推動 計畫」、新竹科學工業園區-關鍵零組件及 產品計畫、新竹科學工業園區-創新研究發 展計畫、業界科專補助計畫…等)不得申請 ,但其獲得補助並執行完畢後,再自行創 新及研發程度高者,不在此限。

三、獎勵方式

- (一)申請標的未曾獲政府機關其他獎項獎金且 該企業前一屆未曾獲本獎獎助金,經評審 通過者獲頒獎狀及獎助金新台幣30萬元正 ,以30名為限。其中以員工數認定之中小 企業得獎名額以不超過15名為限,確實得 獎名額視申請審查情況核定(獎助金須依稅 法相關規定辦理扣繳)。
- (二)申請標的已(曾)獲政府機關其他獎項獎金者 (如新竹科學工業園區-優良廠商創新產品 獎、國家發明創作獎…等)或前一屆已獲本 獎獎助金之得獎企業,經評審通過者獲頒 獎狀,以不超過10名為原則。
- (三)同一企業當年度同時有兩項(含)以上之標 的獲獎,僅頒發30萬元獎勵金,不得累加 獲獎金額。

四、申請手續

- (一)申請方式
 - 1.檢附申請資料一式2份(包含正本1份,副本1份),申請書請以電腦繕打,並以A4 規格裝訂整齊,申請資料概不退件。
 - 2.一律採通信方式報名,請將申請資料掛 號郵寄至「106台北市羅斯福路2段95號6 樓創新研究獎工作小組收」。
 - 3.申請書請至經濟部中小企業處(www. moeasmea.gov.tw)、社團法人中華民國中 小企業協會(www.nasme.org.tw)及創新研 究獎專屬網站(tsia.nasme.org.tw)下載,或 洽經濟部中區、南區聯合服務中心,各 縣市政府中小企業服務中心。
 - 4.洽詢電話:(02)2366-0812分機188
 創新研究獎工作小組 周小姐。

第16屆中小企業創新研究獎 申請須知

(二) 送審資料

- 1. 申請書
- 2. 公司執照影本或公司登記資料影本 (可逕行至全國商工行政服務入口網: http://gcis.nat.gov.tw/index.jsp查詢列印)
- 3. 營利事業登記證影本
- 4. 工廠登記證影本
- 註:非製造業或廠地面積未達 100 平方公尺且 廠房面積未達 50 平方公尺且電力容量、熱 能(馬力與電熱之合計)未達2.25千瓦之小型 製造業者免附,惟需檢附切結書。
 - 5.申請獎勵標的之商業化或量產之相關證 明文件影本(如:發票、合約書、訂單等)
 - 6.其他申請獎勵標的之相關證明文件影本(如:專利、獲獎記錄、標準、認證、著作 權、相片及型錄等〔請參選廠商儘量提 供〕)
 - 7.以員工人數認定之中小企業,請附97年 1~12月勞保局核發之「勞工保險局保險 費繳款單及明細表」影本
- 註:以資本額或營業額認定之中小企業免附 8.97年度營利事業所得稅結算申報書影本。 (包含資產負債表及損益表;此項資料最 遲應於6月10日前掛號寄達)
- (三) 申請期間

即日起至98年6月1日(星期一)止(通訊寄件 以掛號郵戳為憑)。

五、評審

(一) 評審方式

分為資格審、初審與決審3階段:1.資格審: 由創新研究獎工作小組進行基本資料審查。

- 初 審: 由初審委員會進行書面審查, 並視實際狀況需要,派員實地 查核。
- 決 審:由決審委員會進行書面審查, 並決定得獎名單。

(二)評審標準

基本評審項目及權重:	100 %
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- 1. 申請獎勵標的之創新性 35 %
- 2. 申請獎勵標的之實用性 35 %
- 3. 申請獎勵標的之國內外競爭力 20%
- 4. 申請企業之目前
 及中長期研發構想及營運
 10%
- (三) 評選原則

當申請標的之評審積分相若時,以未曾獲 本創新研究獎之企業優先考慮,惟仍由評 審委員會議決之。

六、得獎企業之義務

得獎企業有配合蒐編專輯及參加頒獎典禮、成 果展示會與中小企業創新研究獎聯誼會等相關 活動之義務,得獎企業若經查證有違反本須知 規定或不實陳述者,其獎狀及獎助金應繳回。

七、其他

得獎名單預計於98年12月底公佈,並以專函通 知所有申請企業。

第16屆中小企業創新研究獎 申請須知

附錄1:

行政院核定之中小企業認定標準相關規定

中小企業係指依法辦理公司或商業登記,並合於下列 標準之認定:

- 一、製造業、營造業、礦業及土石採取業實收資本額在新臺幣8,000萬元以下者。
- 二、農林漁牧業、水電燃氣業、商業、運輸、倉儲及 通信業、金融保險不動產業、工商服務業、社會 服務及個人服務業前一年營業額在新臺幣1億元 以下者。

另就經常僱用員工數為中小企業認定標準,則不受前 項規定之限制:

- 一、製造業、營造業、礦業及土石採取業經常僱用員工數未滿200人者。
- 二、農林漁牧業、水電燃氣業、商業、運輸、倉儲及 通信業、金融保險不動產業、工商服務業社會服 務及個人服務業經常僱用員工數未滿50人者。

具有下列情形之一者,視同中小企業:

- 一、中小企業經輔導擴充後,其規模超過第2條所定 標準者,自擴充之日起,2年內視同中小企業。
- 二、中小企業經輔導合併後,其規模超過第2條所定 標準者,自合併之日起,3年內視同中小企業。
- 三、輔導機關、輔導體系或相關機構辦理中小企業行 業集中輔導,其中部分企業超過第2條所定標準 者,輔導機關、輔導體系或相關機構認為有併 同輔導之必要時,在集中輔導期間內,視同中 小企業。

附錄2: 申請標的物分類定義標準

類 別	定 義
資訊與	含通訊設備、電腦通信、資訊軟體、資訊
電子類	硬體、消費性電子、半導體製造、電子機
	械器材製造修配、視訊產品、視聽電子製
	造、電子零組件製造、光電器材、積體電
	路設計、其他電子資訊製造等資訊與電子
	相關之標的。
機械與	含機械設備製造、運輸工具製造,模組開
自動化類	發製造、航太製造、自動化機械、物流
	/倉儲設備、動力傳動/制動設備及零組件
	等機械與自動化相關之標的。
材料與	含生物化學、纖維材料、工程塑膠材料、
製程類	金屬材料合金、鑄造材料、化學品製成、
	生化技術、藥品製造、食品加工製造、醫
	療器材等材料結構製造及生化科技等材料
	與製程相關之標的。
服務類	含知識服務、技術服務與商業服務模式等
	,其成功經營模式、服務方式或行銷方法
	具有前瞻性、示範性及可提昇工作效率之
	標的(例如:環保服務類、能源服務類、檢
	測服務類等)。
綜合類	含一般民生用品、消費性產品、創意設計
	及非前述類別之申請標的物皆納入綜合類
	之範圍。

註:請企業先依上列分類定義填寫申請之標的物所屬類別,審議 過程中評審委員會得依標的物內容與性質做最後確認。

第16屆中小企業創新研究獎 評審委員會

決審委員名單

召集人:賴杉桂經濟部中小企業處處長

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王美花	經濟部智慧財產局 局長
王鉑波	中小企業信用保證基金 董事長
吳明機	經濟部技術處 處長
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杜紫軍	經濟部工業局 局長
谷家恆	中衛發展中心 董事長
林秉彬	中華民國中小企業協會 理事長
侯崇文	台北大學 校長
張寶誠	中國生產力中心 總經理
黃志鵬	經濟部國貿局 局長
葉雲龍	經濟部商業司 司長
顏宗明	新竹科學工業園區管理局 局長
1 3 5 6 100 0 4	

上述名單除召集人外,依姓氏筆畫排列

初審委員會名單

召集人:鍾乾癸 長庚大學工學院 院長

	鍾乾癸	長庚大學工學院 院長
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	王輔卿	工研院資訊技術服務中心 主任
	官政能	實踐大學台北校區 副校長
	林志森	財團法人中技社 執行長
	邱求慧	經濟部工業局知識服務組 副組長
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Ĵ.	楊大和	成功大學製造工程研究所 所長
	詹文男	資策會產業情報研究所 主任
	詹炳熾	財團法人精密機械研究發展中心 總經理
	廖文志	台灣科技大學企業管理系 副教授
	廖啓成	食品工業發展研究所 副所長
	蔡新源	工業技術研究院/南分院 執行長
	譚旦旭	台北科技大學電機工程系 副教授
	蘇宗粲	工研院奈米中心 主任

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第16屆中小企業創新研究獎 得獎專輯

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