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- 25 崇仁科技事業股份有限公司 GaleMed Corporation
- 26 華佑企業股份有限公司 Huoh Yow Enterprise Co., Ltd.
- 27 微細科技股份有限公司 Microcell Composite Company
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虚長序文

根據2011年世界經濟論壇(WEF)公布報告指出,台灣屬「創新驅動」的經濟體,在過去經濟快速發展的時代裡,中小企業展現了無比的效率、彈性與堅強韌性,為台灣奠定雄厚的發展基礎。近年由於國際經濟情勢多變,企業爲求轉型紛紛投入創新研發,加上政府積極擘劃黃金十年產業發展策略及推動產業創新條例等資源的挹注,不但有效鼓勵產業創新,提升產業核心競爭力,其所創造之經濟效益亦漸漸發酵。

根據瑞士洛桑國際管理學院(IMD)所發布的「2011年世界競爭力報告」中,今年台灣在「經濟表現」指標方面排名從去年第16名,躍居爲全球第8名,表現十分亮眼,台灣124萬8千家中小企業功不可沒。爲鼓勵企業持續投入創新研發工作,增強競爭能力,經濟部自民國82年即規劃「中小企業創新研究獎選拔」表揚活動,辦理迄今已有3206件標的提出申請,其中有652件卓越標的獲獎,實爲中小企業從事創新研發之榮耀標竿。



今(100)年度申請標的共有144件,審查期間特聘請相關技術領域之專家委員,以嚴謹的態度進行書面審查、實地訪查、決審等作業,遴選出30件兼具創新性與實用性之標的,充分展現國內中小企業在各領域之創新能量。

在國際情勢快速變遷的時代裡,「創新」已爲提升企業價值的重要關鍵因素,唯有以「市場導向的創新」及「提升附加價值的創新」才是台灣中小企業永續經營之道,期盼得獎企業在進行研發之餘,能隨時掌握產業發展趨勢,運用創新優勢提升企業競爭力,而政府也將持續提供相關研發資源與環境,與中小企業共同拚亮台灣。

經濟部中小企業處 處長



中華民國100年11月18日



Foreword

The 2011 WEF report pointed out that Taiwan is an "innovation-driven" economy. SMEs have displayed incomparable efficiency, flexibility and tenacity in the time of rapid economic growth to establish the solid foundation for Taiwan's future development. Enterprises have engaged in innovation and R&D for transformation when the global economic conditions have been changing in recent years. Additionally, the increasing government resources, such as "Golden Decade" industrial development strategy and the promotion of the Statue for Industrial Innovation, have not only encouraged industrial innovation and enhanced the core competitiveness of SMEs, their economic benefits are gradually developing.

In the World Competitiveness Yearbook 2011 published by IMD in Lausanne, Taiwan's ranking in "economic performance" has promoted from the world's 16th last year to the world's 8th this year. The efforts of 1.248 million SMEs in Taiwan are what make this brilliant performance a reality! To encourage SMEs to continue innovation and R&D to enhance competitiveness, the Ministry of Economic Affairs began planning the Taiwan SMEs Innovation Awards in 1993 to commend SMEs with distinguished achievements in innovation and R&D. Of the 3206 targets submitted over the years, 652 outstanding targets have won the award, making them the glory and benchmark of SMEs engaging in innovation and R&D.

There are 144 targets running for the award this year (2011), and 30 original and practical targets have been selected by a jury formed with experts in related fields after document review, onsite inspection, and final review. These award-winning targets have displayed the innovation power of Taiwan's SMEs in different fields.

In a time of rapid changes, "innovation" has become the key for SMEs to increase their value. Only "market-oriented" and "value-added" innovation can help Taiwan's SMEs to pursue sustainable operations. I hope that on the road to innovation and R&D, SMEs can grasp industrial development trends and enhance their competitiveness with their innovation strength. The government will continue to provide the relevant R&D resources and environments for Taiwan to shine over the world along with SMEs.

Director General Small and Medium Business Administration,

Ministry of Economic Affairs NOV. 18, 2011

Lai Sum-Quae



三雨國際股份有限公司

3RTW International Corporation

●簡介

三雨國際是以機能、環保與健康為研發產品導向的專業品牌生產公司。 COTEX®可重複使用之機能性環保尿布既創新且獨一,同時符合3RTW之企業精神。(Recycle循環再生、Reuse重複使用、Reduce垃圾減量、TW台灣製造)

COTEX®可重複使用之機能性環保尿布特色:

- 1. 運用新的機能性紡織材料讓尿布非常簡易清洗。
- 2. 運用超細纖維讓寶寶穿著的舒適度更優於紙尿布。
- 3. 運用特殊機能性纖維製成吸尿墊,讓尿濕時依舊保持乾爽。
- 4. 運用防水透氣材料讓防水性與透氣性遠優於所有尿布。
- 5. 結合專利結構設計讓初生到三歲的寶寶不需換尺寸更實用。
- 6. 融合流行顏色與款式讓寶寶穿著更可愛。

● 評語

標的使用特殊機能性纖維材料與特殊設計,為可重複使用之機能性環保尿布,不僅具綠色環保概念,可減少天然資源浪費,符合世界潮流,更因其材料品質與設計改良讓使用者(嬰兒或老人)皮膚易維持乾爽,有助於維護身體的健康與舒適。

- 產品如使用於1~3歲嬰兒,不需隨年齡增長而更換尺寸, 因使用機能性材質與新型設計,亦方便於使用和清洗。
- 已取得專利,商品化時間雖短,卻深具市場潛力。

Introduction

3RTW CO. develops products with functional, eco-friendly and healthy for people.

This cloth diapers not only own innovation and unique but also present 3RTW spirit. (Recycle \ Reuse \ Reduce and products made in Taiwan)

The characteristics of COTEX® reusable cloth diapers:

- 1. Apply new functional textile to cloth diapers to clean easily.
- 2. Apply microfiber to cloth diapers makes baby feel more comfortable.
- 3. Apply specific fiber to nappy liners to keep surface dry.
- 4. Better waterproof & breathable than other diapers.
- 5. Patent design of free size for baby's growth till 3 years old.
- 6. COTEX® babies wear trendy functional cloth diapers.

Commentary

- The target is a reusable functional diaper made of special functional fibers with a special design for environmental protection. In addition to being a green product, the product minimizes natural resource consumption to meet the global trend. Also, its quality materials and design improvement keep users (babies or elder people) dry to ensure physical health and comfort.
- When using on infants 1-3 years old, there is no need to change the size as the infant grows. The functional material and novel of the product also make the product easy to use and wash.
- It is granted the related patents. Although the commercialization time is short, the product is highly competitive on the market.

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可重複使用之機能性環保尿布 Reusable Cloth Diapers



中華海洋生技股份有限公司

Hi-Q Marine Biotech International Ltd.

●簡介

室内生態循環養殖技術 整廠輸出服務 Indoor Ecological Recirculation Aquaculture Technology Service



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Tel: +886-2-26980069 Fax: +886-2-26980036 中華海洋生技公司的核心技術為「免換水水質生態循環技術」。 這項技術的主要硬體包括:「物理過濾機」、「生物過濾機」、「浮游生物處理機」,以及「生態培養機」四大主體建構而成,並以「生物製劑」及「抗體配方飼料」作為軟體,配合「標準SOP作業流程」所組成,形成良好的菌床與菌態。整體系統經由模擬海洋自然生態並強化其

自淨能力,不但能迅速解決養殖水中(NH3)及(NO2) 毒性問題,創造了成功的生態平衡機制,更能長期維持生態之平衡,使養殖生物在系統中安定成長,使傳統養殖業避免天災地層下陷,海洋污染,兼顧生態及環保,降低生產成本,穩定式工廠化高密度養殖生產。

此項「綠色養殖」成果揚名海外,成功接下馬來西亞及汶萊國家 養殖計劃。

● 評語

- 標的所提供之服務,可解決養殖水中NH3及NO2毒性問題,且能長期維持生態平衡,使養殖生物能在系統中安定成長,具創新及實用性。
- 該服務符合環保趨勢,且深具市場需求潛力,可透過室内養殖滿足未來 的成長穩定需求。獲台灣、中國、韓國新型專利,具市場潛力。

Introduction

Hi-Q Marine Biotech - core technology is "Zero Water Exchange Indoor Ecological Recirculating Aquaculture Technology." (ERAT)

Hi-Q's Ecological Recirculating Aquacuture System (ERAS) includes: "Physical Filter", "Biological Filter", "Plankton Treatment System", "Ecological Cultivation System", also combine "Biological Agents" and "Antibody Formula Feed ", operated in" SOP Standard Operating Procedures ". This forms a good bacteria bed and a balance microorganism.

Hi-Q's ERAS is a simulation of natural marine ecology; strengthening the system's self-purification mechanism and capacity, quickly overcome the toxicity (NH3) and (NO2) in culture water, creating a long-term ecological balance mechanism for stable growth of indoor fish -farming.

Hi-Q ERAS avoids natural disasters, land subsidence and sea pollution. Thus, it creates ecological balance and environmental protection, reducing production costs under a stabilized factory for high-density aquaculture. Therefore, Hi-Q won the bid of "National Breeding and Fish-Farming Projects" in Malaysia and Brunei.

- The submitted service can solve the NH3 and NO2 toxicity problems in culture ponds. It can also maintain ecological balance for a long time to allow cultured organisms to growth steadily in the system. Therefore, it is innovative and practical.
- The service meets the environmental protection trend and has high market potential. Through indoor culture, the service fulfills the steadily growing demand in the future. This highly potential service is granted a utility patent from Taiwan, China and Korea.



天眼衛星科技有限公司

SkyEyes GPS Technology Co.

●簡介

「天眼全方位運輸資源整合平台」以全方位專業電子地圖運輸管理平台 為主,提供車隊即時監控、異常追蹤、營運報表及各項統計分析,有效 提升管理效率,為全國首創運輸產業專屬的T-ERP (Enterprise Resource Platform for Transportation)系統,提供國内車隊更有效率之管理服務。 整合運輸業所需的資產管理、調度派遣、路徑規劃、即時追蹤、駕駛行 為偵測、異常警示、財務管理、營運分析等功能,完整涵蓋各項作業需 求,取代繁瑣的人工製表,提供最佳化自動作業流程。在協助運輸企業 有效提升運輸管理效能之餘,創造出「綠色運輸」產業,以達成「節能 減碳」之使命,替環境保護盡一份心力。

● 評語

本標的提供「車隊管理」、「個人定位服務」、「運輸資源整合」等全方位智慧運輸系統整合服務平臺。目前已實際應用於超過干具多式車輛及行動設備上,其特點為可根據需求,規劃不同規模的適性產品及服務,靈活度與實用性俱佳,前景可期。

Introduction

SkyEyes Transportation Enterprise Resource Platform is an all-dimensional fleet management system(FMS) based on digital map and global positioning system(GPS) providing fleet managers with a powerful but easy-to-use tools to efficiently manage a fleet with hundreds of vehicles.

For operations, it provides managers with an quick way to map vehicles, find the closest capable drivers for certain missions, specify geofences to confine vehicles within certain areas or paths preventing them from unauthorized use of vehicles, or communicate with drivers through a 2-way messaging channel.

For safety, it can automatically monitor the vehicle speed and gives speeding alerts both to managers and to drivers if any vehicle drives over the posted speed limit. Driver service reports can help prevent from weary driving while maintenance reports keep track of service history for each vehicle and notify managers when to schedule preventative maintenance. For management, all kinds of reports are automatically generated and available for managers to analyze their business, such as fuel consumption

available for managers to analyze their business, such as fuel consumption reports, examining how efficient their loading plan and job assignment would be.

All in all, SkyEyes provide a solution for large commercial fleet companies to enhance operation efficiency and transportation safety; meanwhile, it also realizes the carbon reduction, and help a fleet company upgrade to a green transportation enterprise.

Commentary

This submission is an intelligent transportation resource management system integrating fleet management, global positioning and transportation resource integration services. At present, it has been used on more than 1,000 vehicles and mobile devices of different forms. The features of the product include adaptive product and service planning for different scales, high flexibility, and convenient uses. Therefore, it is a very promising product.

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天眼全方位運輸資源整合平台 SkyEyes Transportation Enterprise Resource Platform



天語生物科技股份有限公司

Galaxy Biotechnology Laboratories, Inc.

台灣蘭花藝術包 Real Orchid Flower Soap



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●簡介

「台灣蘭花藝術包」首創整朵鮮花樣貌入包,仍維持蘭花的美麗的花形,同時這是一顆有生命的手工包,在使用的過程中蘭花不斷的融入包中,包中的蘭花不斷變化,而蘭花包的香味也起了微妙的變化,這是一顆饒富教育意義的手工包,藉由蘭花生命的傳遞,使得每位收到蘭花包的人不得不心生對於蘭花的喜好,而蘭花鮮花入包,其中的香味卻由新鮮的蘭花轉化成不同層次的香氛,更使得每位客人所感受到的香氣不同。傳遞植物之美與文化之美,於生活中融入對植物的關愛,並且延展了對於環保的概念與對地球的珍愛與惜福。

● 評語

- 將台灣重要農業產品蘭花結合手工製程,將新鮮蘭花嵌入肥皂中,使保持立體造型,且蘭花隨時間變化,其顏色亦會改變(由黃色至金黃色);
 肥皂本體透明如琉璃,更能增加視覺感受價值,在製程和成果上,均具創新特性。
- 已獲台灣、中國大陸新型專利,品牌已於大陸與法國註冊,產品行銷海内外,且有銷售實績,台灣農業結合文創產業,將台灣蘭花王國形象帶到世界,並擴大蘭花利用之多元性與實用價值,其用心值得鼓勵。

Introduction

Real Orchid Flower Soap is a very unique and creative product. It is not only to display the beauty of Phalaenopsis (as known as butterfly orchid) but also demonstrate the natural strength of the life. The first image of the soap you will think it is normal according to the vision of the flower is fake. When you realize the flower inside is real orchid, you will be very surprised of the beauty and the art of the real orchid flower soap.

As the biggest family of flowering plant and the most early flowering plant in the earth, the butterfly orchid is totally different than other flowers. The life extension secret of the butterfly orchid is the ability to keep water of the flower. It makes the soap is not only a soap but a soap with the essence of orchid. During the storage of the real orchid flower soap, the peal of the flower will dissolve with the soap, this makes the soap more delicate and more tender than the other soap. The smell of the soap is changed daily through the blend of soap fragrance and flower fragrance. That makes the unique smell of the soap owing to the specific fragrance essence of individual orchid flower.

Although the leadership of Taiwan in the butterfly orchid market, most of the people in the world is not easy to know this flower due to the problem of transportation. It is not an issue for the real orchid flower soap, the compact and handcrafted package is easy to open up people's eye of the beauty of orchid. In the meantime, to ponder the life of earth and to treasure the environment we live.

- This target integrates orchids, Taiwan's major agricultural product, with handmade soap to produce real orchid floral soap and maintains the 3D form of the orchid in the soap. Also, the color of the orchid changes from yellow to golden yellow as the season changes. The soap is as transparent as glass to enhance the product's visual value. Therefore, it is highly innovative in both the process and outcome.
- It is granted a utility model patent in both Taiwan and China. The brand has been registered in both China and France. Products have been distributed worldwide with successful sales performance. The inventor has successfully integrated Taiwan' agriculture with culture and creative industries, promoted Taiwan's image as the kingdom of orchids to the world, and expanded the dimensions of use and practical value of the orchid. Its effort should thus be rewarded.



比德堡精密實業有限公司

Peterburg Industrial & Design Ltd.

●簡介

「嵌入式晴雨窗」是指利用晴雨窗之外緣嵌片不需任何黏膠,依據各大汽車原廠之車窗框線,在尊重不破壞原廠設計理念下依照原廠線條,將非原廠之附屬零配件以快速簡單的固定方式安裝將其固定,且看不出是額外增加的附件配件,巧妙融合於原廠汽車設計之中。好的晴雨窗必須經得起風吹雨打不變形不龜裂,夏季烈日酷曬而不褪色,洗車機的大刷勾拉而不脫落,雨天來臨時又能真正完全的防水與調節汽車內部溫度不起霧,讓使用者能感受到更多的便利性與安全性,而且更大大的縮短安裝工時,販售價格也壓縮到合理空間,讓廣大使用者都能輕鬆購買。

● 評語

- 本標的利用車窗周緣內側間隙,以嵌入方式安裝晴雨窗,不需任何 黏膠及工具即可輕鬆完成,依不同規格尺寸,適用於各大汽 車原廠之車窗,不因此破壞原廠車窗飾條及鈑金,且巧妙融 合於原廠汽車設計中。
- 藉由精密計算車窗膠條內部斜度、深度與材質彈性,使安裝 時有更加緊密的接合效果,美觀不易脫落,亦能確保行車時 之安全性。
- 目前已取得台灣新型專利,並通過德國TÜV產品及臺灣車輛研究中心(ARTC)產品測試。性能與價格具競爭力,並有銷售實績,在技術與行銷上有其推廣優勢。

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嵌入式睛雨窗 In-Channel Wind Deflector for Car Side Windows

Introduction

In-Channel wind deflector installs without 3M tape which was designed and shaped by the original car side window frame, made by the original concept of design, easy and waste no time to install it. It can be installed with the sheet metal perfectly. Undoubtedly, a perfect deflector must have the following merits: no color fading after longtime sun burning, no changing shape even heavy rains and strong winds, won't falling off while car washing by the brush of car washing machine, waterproof, could be modulate the in-car temperature and won't fogged the mirror. It not only makes customers feel its convenience and safety but also saves more time to install it the selling price remains in a reasonable level to make all the users easily get one.

- This target allows users to easily embed the wind deflector in the seams
 of the car side window without using any adhesive agent or tool. It is
 available in different sizes to fit the window of different cars without
 damaging the original trims and body of the car window for users to easily
 match different car types.
- The internal gradient, depth and material flexibility of the car window plastic stopper are accurately calculated to ensure perfect bounding, appearance, no falling off, and driving safety.
- It is granted the utility model patent and has passed the TÜV (Germany) and ARTC (Taiwan) product tests. Its PPR is highly competitive and sales performance is quite good, thus facilitating the inventor to market and promote the product.



巨盛電子股份有限公司

Chesen Electronics Corp.

●簡介

電腦檔案鎖 SecureLinkPRO



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Davis Chang, President Address:

11F-1-3, No. 16, Chien-pa Rd., Chung-he Dist., New Taipei City 235, Taiwan

Tel: +886-2-82265589 Fax: +886-2-82265181 電腦檔案鎖是一把使用於電腦USB介面的硬體密碼鎖,可針對電腦中的 檔案及目錄快速地進行加解密。電腦檔案鎖内含 AES 硬體加解密引擎,

> 提供等同於美國軍用加密規格標準的安全防護。搭配使用於 Windows 作業系統的 SecureLinkPRO 圖形介面軟體,只要簡 單的 4 個步驟:

- 1. 插入電腦檔案鎖於電腦任—USB 埠
- 2. 執行 SecureLinkPRO.exe
- 3. 將欲加密檔案/目錄拖曳至加密圖形框
- 4. 輸入密碼

私密檔案立即完成加密編碼。電腦檔案鎖能防護所有未經授權 的加密檔案開啟。

● 評語

- 此標的為USB介面的電腦檔案鎖晶片,使用該晶片之電腦檔案鎖具加、解密運算功能,且具有一般實體鎖及鑰匙的功能。
- 可運用於電腦上所有可被讀寫的儲存裝置檔案之加、解密。
- 冤系統安裝、操作直覺、簡便且成本低,並獲多國專利,具競爭力。

Introduction

SecureLinkPRO is a file and folder encryption USB hardware key. It allows you to protect your files and folders by encrypting them through the key embedded AES encryption/decryption engine. The encryption of folders and files works on Windows based OS environments through the SecureLinkPRO GUI application program. It is easy to use and provides the highest US military-level AES protection. Just simple 4 steps:

- 1. Plug the SecureLinkPRO into any USB port
- 2. Run the SecureLinkPRO.exe GUI software
- Drag and drop files or folders you want to protect into the "Encrypt Container"
- 4. Type in your password

Now all your private files are protected. SecureLinkPRO safeguards your private files from unwelcome attention.

- The submission is USB hardware computer file key integrating file and folder encryption and decryption functions and the functions of a general physical lock and key.
- It can be used for encrypting and decrypting files and folds on all readable and writable computing devices.
- This low-cost and operated intuitively product requiring no system installation is handy and is granted patents from different countries, making it very competitive.



生泰合成工業股份有限公司

Syn-Tech Chem. & Pharm. Co., Ltd.

●簡介

梯比匹定為鎮咳劑,屬高技術層次之產品,公司投入相當人力、設備、經 費,成功建立商業化製程。本產品發展出重要有機合成關鍵技術,如甲基 化、酯化、格林鈉、異構物分離等技術。公司秉持「精誠務實、創新發展」 的經營理念,選擇開發多步驟、技術門檻較高的產品,因產品不易合成,故 較有市場競爭力。梯比匹定通過國内原料藥cGMP查廠,並完成日本DMF登 錄。公司研發深耕本項產品之特殊技術,並可延伸他項產品之開發,實施綠 色設計,落實清潔生產,生產之品質屢獲國内外廠商之好評,且市場已漸漸 拓展成功,為深具潛力之產品。

● 評語

● 本標的產品梯比匹定為鎭咳袪痰之原料藥,生泰公司為國内唯一之生 產公司。

標的產品之合成共有九個步驟,屬高技術層次製造之產品,該公司突破:

- 1.以N-甲基化反應及酯化反應合成高純度之關鍵性中間體,降低原料成本
- 2.格林鈉製程進行量化生產,建立關鍵性製程參數,確保製程 之安全性
- 3. 特殊純化技術有效分離異構物與不純物,開發高品質之優良
- 4. 製程試劑及溶劑回收重複使用,實現綠色製程
- 上述技術皆自行研發,目前產品國内製劑廠已有13家cGMP廠 採用,市場佔有率95%以上,部分外銷日本及韓國,產品品質 及售價深具競爭性,有發展潛力。

Introduction

Tipepidine Hibenzate is an effective drug for Antitussive. After evaluated

the synthesis technology, manufacturing ability and market accessibility, Syn-Tech decide to invest people, money and facilities on this item. The successful development of this -product generates us some critical technologies such as Eschweiler-clarke reaction, Esterification, Grignard reaction, Isomer separation technology and also used on the other products. Syn-Tech as an Active pharmaceutical Ingredients manufacturer; possessing the principle of [Sincerity], [Innovation], [Development] to run the business. We choose products of high value, high technology to create differentiation and prevent from competition on the market Passed the Taiwan cGMP inspection. prevent from competition on the market. Passed the Taiwan cGMP inspection. The JDMF was registered.

We have been devoting ourselves on R&D and manufacturing Tipepidine Hibenzate. Based on green-design, solid cleaning production and excellent quality, Tipepidine Hibenzate is one of our promising products awarded by the

Commentary

- The target, Tipepidine Hibenzate, is an effective expectorant uniquely manufactured by Syn-Tech Chemical and Pharmaceutical in Taiwan. The target is synthesized through 9 high-tech steps. The breakthroughs of Syn-Tech Chemical and Pharmaceutical include:
 - 1. High-purity intermediate is synthesized with the Eschweiler-clarke reaction and Esterification to reduce material cost.
 - 2. Mass production is initiated and key process parameters are established with the Grignard reaction to ensure process safety.
 - 3.A special separation technology is applied to effectively separate isomers and impurities for developing high-quality products.

 4. Process testers and solvents are used repeatedly to make the green
 - process a reality.
- All these technologies are independently developed by Syn-Tech Chemical and Pharmaceutical. At present, 13 domestic cGMP factories have used this product, with a market share of more than 95%. Some are exported to Japan and Korea. Both product quality and price are highly competitive, and the product has high developmental potential.

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梯比匹定 **Tipepidine Hibenzate**



光弘科技股份有限公司

Coho Technology Co., Ltd.

精密陶瓷植牙□内牙鑽頭 Zirconia Dental Drill



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●簡介

精密陶瓷□内牙鑽頭,其陶瓷材質不易升溫,有助於降低手術風險;因人類齒槽骨在45℃以上溫度會造成骨細胞壞死,容易導致植牙骨整合失敗;傳統使用不鏽鋼□内牙鑽頭在手術中必須以慢速切削及沖水的方式降溫,陶瓷材料的耐腐蝕性是遠遠超過有雷射雕刻之不鏽鋼牙鑽。由於陶瓷材質的切削力遠遠優於金屬,即使在慢速操作下也能夠有很好的切削效果,產生的溫度比金屬低,大幅提高植牙手術成功率。

精密陶瓷口内牙鑽頭表面的孔洞體積經委託中興大學材料細檢測結果只有0.047727cm3/g,手術過程不易沾黏血液及骨屑,只要經過一般診所所使用的高溫高壓滅菌鍋消毒,即可達到無菌的狀態,提高產品使用的安全性。

● 評語

- 本標的使用奈米陶瓷材質,是台灣第一支陶瓷牙鑽。與傳統金屬牙 鑽比較,可降低植牙手術風險,且有良好的齒骨切削效果,大幅提 高植牙手術的成功率。
- 奈米陶瓷牙鑽表面孔洞極其微細,幾乎呈現無孔結構,清洗與消毒無菌容易,可以提高產品使用安全性。
- 本標的已獲台灣及中國大陸新型專利,創新點在螺牙、溝槽設計, 可符合亞洲人種。
- 已完成台灣衛生署及美國FDA第一類醫療器材產品查驗登記,為台灣地區首件通過產品查驗登記之奈米陶瓷口内牙鑽,具有新穎性及市場商機。

Introduction

The intraoral ceramic surgical drills will not increase dramatically the temperature during drilling in surgery. However, the alveolar bone structure and cells will necrose in condition above $45\,^\circ\!\!\!\!\!^\circ$ and then fail to implantation for osseointegration. Consequently, the surgery risk can be reduced. The traditional drill made of stainless steel has to operate with low speed and cooling in sake of reducing temperature. The corrosion resistance of ceramic drill is further better than the stainless steel with laser marking. Besides, the cutting performance is superior to the metal drills even though the operation with low speed which just increases lower temperature compared to metal drills. To sum up, the successful rate of implantation exactly rises.

The surface porosity was characterized to be only 47.727 mm3/g by National Chung Hsing University. The adhesion of blood and bone chip is less in the surgery. In addition, at the general clinics, the sterilization can be easily operated by autoclaving and achieve the sterilization of drill to provide higher safety.

- The target is the first zirconia dental drill made in Taiwan. When compared
 with conventional metal drills, it significantly enhances the successful rate
 of implantation by reducing the surgical risk in implantation and optimizing
 alveolar bone cutting effect.
- The surface porosity of the zirconia dental drill is extremely small, as if there is no surface porosity. This makes cleaning and disinfection easier and enhances product safety.
- The target is granted the utility model patent of Taiwan and China. The thread and groove designs suitable for Asians are the points of innovation.
- The product has been registered as a Type I medical instrument to TFDA and USFDA. It is the first zirconia intraoral dental drill in Taiwan to pass registration validation. As a novel product, it has high market potential.



全研科技有限公司

Chiuan Yan Tech. Co., Ltd.

●簡介

全研科技以領先的技術提供高品質、價格合理的各式線性平台及對位模組。XXY對位模組可以被應用在許多不同的領域,諸如像晶圓曝光、PCB網版印刷及LED製程、觸控面板的玻璃鏡面測試、光學薄膜技術等等。全研XXY對位模組產品具備下列的競爭優勢 (FAST):

- 1.新穎(F)-軟體開發、系統整合
- 2.準確(A)-嚴密校調、絶佳精度
- 3.穩定(S)-專利設計、可靠品質
- 4.輕薄(T)-減降重量、傳統改良

我們有能力設計出符合客戶真正需要的產品。FAST同時意味著全研的產品快速定位的綜合能力,以高品質及絕佳設計,本產品將在全球自動化設備市場中更具競爭優勢。

● 評語

- 標的物為具創新結構設計之精密定位平臺,可進行三軸同動定位, 提升平臺定位速度,性能及對位元精度。
- 配合CCD攝影機擷取影像,可運用於LED檢測及觸控面板貼合等各種產業需精密定位之應用。標的物獲有三項新型專利, 前景可期。

Introduction

We offer various alignment stages high qualities and reasonable prices with state-of the art skills. The XXY stage can be applied on many occasions like wafer exposure, manufacture process of PCB print and LED, test of glass of the touch panel, and membrane lamination etc. Because of the following characteristic (FAST), we can also design special products in accordance with clients' needs. Therefore, the initials is "FAST" representing fast, because our design can and should make products more superior in global market based on the good qualities and fantastic design of automatic equipment.

- 1.Fashion (F)-software development, system integration
- 2.Accurate(A)-tight adjust, high precision
- 3.Stable(S)-patent design, dependable quality
- 4.Thin(T)-lower weight, improvement tradition

Commentary

- The submission is a precision alignment stage with an innovative structure design for tri-axis alignment to enhance alignment speed, performance and precision.
- Along with the CCD camera image capture, it can be applied to LED tests, touch panel lamination, and any industries requiring precision alignment.
 The submission is granted three utility model patents, suggesting its promising future.

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A&F XXY對位模組 Alignment Stage



宇萌數位科技股份有限公司

ARPlanet Digital Technology Co., Ltd.

3D繽紛煙火魔幻卡 3D Magic Card



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●簡介

宇萌數位科技首創以AR擴增實境技術應用於數位互動娛樂平台,自主研發的「3D繽紛煙火魔幻卡」(www.arplanet.com.tw/3dcard),推出後立即獲得媒體大篇幅報導,為國內線上娛樂領域開創Web3.0新體驗,產品結合3D、互動、分享、娛樂、網路等功能,將擴增實境技術落實至一般大衆生活中。

配合時下使用者藉由網路結交朋友、開發客戶、節慶寄送卡片等行為,「3D繽紛煙火魔幻卡」首創由使用者創作之AR+3D+立體煙火魔幻卡平台,不需要會使用美術軟體,即可以在平台上以簡單步驟完成一張超炫的3D魔幻卡,並完整連結Facebook功能,並具備好友生日提醒與好友生日通知等服務。

● 評語

- 本服務將AR擴增實境技術應用於數位互動娛樂平臺,其結合3D、 互動、分享、娛樂、網路等功能,並完整整合社群平臺,於應用上 具有一定的創新性與價值。
- 目前國内尚無類似的產品與服務,且部分技術亦獲新型專利,期待未來持續相關的研發計畫,為公司帶來更廣泛的B2B合作商機。

Introduction

ARPlanet Company develops the global newest digital interactive platform using augmented reality (AR) technology. The company publishes the "3D Magic Card" platform (www.arplanet.com.tw/3dcard), which obtain lots of media reports instantly and create new experiences of Web3.0 platform. The "3D Magic Card" combines the elements of 3D \ interactive \ sharing \ recreation and networking which make Augmented Reality technology becoming common and popular in life.

Concerning the internet social behavior, "3D magic Card" provide friendly functions with 3D objects `AR and three-dimension fireworks. Without art design software, users can create a personalizing and cool "3D magic card" with simply steps. "3D magic Card" integrates the members from Facebook. Moreover, people can easily receive the birthday alert from 3D magic system. Any important day of your friends can't be lost.

- This service expands the scope of application of the augmented reality (AR) technology to digital interactive entertainment platform. By integrating 3D, interaction, sharing, entertainment elements and network functions and social networking platform to present the innovative value in AR application.
- At present, no similar product or service is available in Taiwan, and the technology is granted the utility model patent. It is hoped that the relevant technology R&D project will continue to increase the opportunities for B2B cooperation of the company in the future.



成光科技股份有限公司

Sunpex Technology CO., LTD.

●簡介

將目前已出貨之電動代步車納入車罩市場,著重於使用者不需更動目 前電動代步車之車台結構為前提,由技術人員能輕易將車罩裝在既有 的車台上,擴大產品的使用範圍。

特色:

- 1. 車罩門板、頂蓋可拆卸。若頂蓋拆卸雨刷仍可使用。
- 3. 仿造汽車外型設計,擋風板及窗戶皆採用PE材質減輕車台重量。

● 評語

- 標的為全罩式電動代步車,除有過去電動車之便利性與機動性外, 車罩設計更添加實用機能,如安全保護,遮雨避陽等特性。
- 車罩另具有雨刷及柴油暖氣設備,其「可拆式車門結構」及「暖氣 口及廢氣排放結構」設計,適可提供多雨或寒冷地區之使用需求, 藉此亦有利於拓展新市場和推廣電動代步車。
- 標的獲有專利,已有銷售實績,其銷售地區多以韓國與北歐國家 為主。

Introduction

We like to include all export scooters into the cabin market, and emphasize on the premise that our customers' scooters can be easily assembled with cabins by technicians without changing current scooter frames, and to enlarge the practical applications of our products.

Features:

- Detachable side doors and tents, the windshield wipers can normally function after tents are disassembled.
- 2. After assembling with cabins, rear indicator lights can normally function, do not need extra lights.
- 3. Cabin concept is designed as the appearance of a car, we adopt polyethylene materials for production of windshields and windows in order to reduce the scooter weight.

Commentary

- The target is an electric cabin scooter. In addition to the convenience and mobility of conventional electric scooters, the cabin design increases the practicality and functionality of electric scooters, such as safety and shelter.
- The cabin is equipped with wipers and a diesel heater. The "detachable side door structure" and "heater vent and exhaust discharge structure" designs make the target suitable for use in rainy and cold places. These are great features facilitating the market expansion and promotion of electric scooters.
- The target is granted patents and has good sales performance. It is mainly distributed to Korea and Scandinavia.

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SC4040電動代步車 (全罩式電動代步車) Cabin Scooter



阮的肉干有限公司

Yunye Meat Curd INC.

筷子肉干 Chopsticks Meat Curd



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●簡介

台灣是世界的美食之都,「肉干」是台灣傳統美食,「筷子」是中華飲食文化的代表,本公司將兩項特點融合創新,讓在地美食與文化完美結合創造出「筷子肉干」,以文創將產品推向世界,透過文化行銷國際認識台灣,用美食感動每一個人。

「筷子肉干」獨特形體及製程,改善傳肉干□感偏乾、硬,採用隧道式烤箱,首創「六面炙燒法」降低製程污染,提升品質增進風味,呈現表層酥脆封存鮮嫩。而筷子的古稱「箸」,取請諧音有「祝福」、「筷樂」含意,透過□袋造型包裝,創造食尚裝「□袋」,「筷樂」帶著走,改變飲食文化,以食尚引領潮流。

● 評語

- 肉干屬傳統美食,本標的將其重新加工改良及包裝設計,可謂新創事業之一佳例,具提升台灣美食形象及擴展海外華人市場之潛力。
- 製程針對生烤系列設備及流程進行改良,首創「六面炙燒法」,以隧 道式烤箱高溫炙燒,經烘烤後亦不易變硬,並採「先切後烤」讓肉汁 鎖住於肉干内,多汁以及不易沾手之筷子形狀,可方便食用;在製程 和商品上,具創新性。
- 標的物經SGS食品認證,行銷以網購為大宗,其包裝精緻,行銷手法 靈活,並有銷售實績。

Introduction

Taiwan is considered as the hub and center of gourmet foods worldwide, while "meat jerk" is reckoned as the traditional gourmet food of Taiwan, and "chopsticks" is the best representation of Chinese diet culture. "Yunye Meat Curd" has tried to combine for innovative merge, so that local gourmet and culture can be perfectly integrated to create "Chopstick Meat Curd" using cultural creation to launch the product to the world. Thus, it has make use of cultural marketing so that the international community can learn about Taiwan, using gourmet food to move everyone.

The unique shape and production for "Chopstick Meat Curd" have well changed traditional meat jerk reckoned as rather dried and hard, and it has employed tunnel-type over and pioneered "6-face roasting method" so as to lower production pollution and enhance its quality and flavor. Thus, it has displayed crispy surface and sealed with juiciness. In fact, the classical name for chopsticks is "jhu," with its homophone of meaning as "blessing" and "happiness from chopsticks."

Through its pocket-shaped model and shape, it has stylistically fashionable "pocket" for food, and "happiness from chopstick" is brought along, helping to change diet culture and exploit food fashion to lead about the trend and chic.

- Meat jerky is a traditional gourmet food of Taiwan. By improving the process and packing of meat jerky, the target is a good example of business innovation. Also, the target has successfully improved Taiwan's image as the center of gourmet foods in the world and expanded the market potential of overseas Chinese.
- The process improvement focuses on the equipment and process of the roasted series. The pioneering "6-face roasting method" uses tunnel ovens to roast meat at high temperature to ensure that the jerky does not harden after roasting. Also, meat is "cut before roasting" to lock the juice inside the jerky. The juicy and non-sticky chopstick-shaped jerky is convenient to consume. Therefore, it is innovative in process and product.
- The product has passed the SGS food certification and is distributed mainly over the Internet. Its delicate packing and flexible marketing method also promote product sales.



佳榮能源科技股份有限公司 ULTRAPACK Energy Co., Ltd.

●簡介

本產品主要係應用在發電花鼓驅動式LED自行車燈。其產品創新特色可從整流模組、核心元件(ULTRAPACK超級電容元件)與產品功能兩個面向,分別闡述之。

- 1. ULTRAPACK超級電容元件之功能特色:大容量、單一元件高電壓、 低内阳
- 2. ULTRAPACK超級電容整流模組功能特色:穩定電流源
- 3. 產品創新功能特色
 - 發電花鼓驅動式LED自行車燈低速(2~3km/hr)恆亮不閃爍
 - 提供發電花鼓驅動式LED自行車燈於車輛靜止下恆亮4分鐘

● 評語

- 本標的為對環境友善之綠能產品,其製程符合歐盟RoHS要求。
- 本標的LED自行車燈特點在自行車於低速行駛時不閃爍,當輪胎停止轉動時仍可維持4分鐘不滅之狀態,達歐規標準,其關鍵組件一"超級電容器"具有發明專利技術,建議可擴大產品之應用面,更具市場潛力。

Introduction

The products, ULTRAPACK rectified modules for LED bike lights, are mainly used in hub dynamo powered LED bike lights. The innovative features of the products can be described respectively in terms of the core component - ULTRAPACK supercapacitor, the rectified modules, and product features.

- 1. ULTRAPACK super capacitors features: very high capacity, single-cell packing, high-voltage durability, low resistance.
- 2. ULTRAPACK supercapacitor rectified modules features: stabilizing current source and smoothing out the voltage.
- 3. Innovative product features:
 - No flickering: the modules can allow the hub dynamo powered LED bike lights not to flicker at the speed of 2-3 km/ hr.
 - Constantly glowing for four minutes: the modules provide hub dynamo powered LED bike lights with enough energy to glow constantly for four minutes when the bikes are motionless.

Commentary

- This submission is a green product ensuring environmental friendliness and complying with the EU RoHS Directive.
- The LED bike lamp of this product flashes when the bike is rolling at a low speed. Also, the dynamo-powered module can maintain the LED in function for four minutes after the bike stops as specified in the EU standards. Also, as its key component, ULTRAPACK super-capacitor, patented, the inventor can expand the scope of application of this super capacitor that is highly dependent on the market.

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發電花鼓驅動式LED自行車燈整流模組 Hub Dynamo Powered LED Bike Light Rectified Module



岱鐠科技有限公司

Dediprog Technology Co., Ltd.

● 簡介

無線數位電視接收器 TVman Wireless DTV Tuner

Tild River

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Tel: +886-2-27907932 Fax: +886-2-27907916 「無線數位電視接收器」以無線資料路由轉發將智慧行動設備與數位電 視網路連接起來。內建高性能晶片可接收視頻資料,進行流程截取並重 組,再透過無線通訊協定傳送至用戶的智慧型終端。其高接收性能和移 動性為消費者帶來全新的視頻使用場景,引領全新的消費習慣。

用戶僅需於智慧型終端上安裝專用軟體,便可即時且順暢地收看數位電視。其提供靈活且強大的功能,將使用者進行硬體升級或設備更換簡化為一個軟體安裝動作。又由於支援多樣的智慧型手機的作業系統,用戶一次性購買即可搭配不同的智慧型手機使用,有效降低用戶使用成本。

● 評語

- 本標地能將無線電視臺所發射的數位電視訊號接收下來,經過解碼後,再行編碼成為WiFi平臺上可發射和接收的數位電視訊號。使用者即使沒有數位電視接收器,只要手邊的裝置上有WiFi通訊功能,便可利用本標的收看數位電視節目。在目前WiFi普及率遠大於數位電視卡的時代,此方案為一聰明的利基型產品。
- 目前已有不錯的銷售實績,行銷日、韓等國,在歐洲及美國、台灣等地也即將上市。本標的之公司技術能力佳,亦相當國際化,有助於擴大市場佔有率。國際上之競爭對手不多,後勢看好。

Introduction

TVman Wireless DTV Tuner using wireless data routing connects smart mobile devices and DTV network together. Its built-in high-performance chips receive, intercept and re-process video data, and then send through a wireless protocol to user's intelligent device. The high-reception performance and mobility of this leading technology highly enhance user experience for consumer.

All Users need to do is to install a particular software on smart device; they can watch DTV immediately and smoothly. It provides flexible and powerful features for users not to be forced to upgrade their hardware nor replace their equipment. Also, because TVman supports a variety of OS of diverse smart phones, a one-time purchase will be enough to play on different devices and reduce the costs efficiently.

- This submission is a wireless DTV tuner receiving and intercepting DTV signals from TV stations and re-processing video data into DTV signals transmittable and receivable on WiFi platforms. Without using a DTV receiver, users can watch TV programs with any handheld devices supporting WiFi communication. In a time when the popularity of WiFi is far much higher than DTV cards, this solution is a smart niche product.
- At present, the sales performance of this solution is quite good in Japan and Korea, and it will be launched in Europe, the USA and Taiwan in the very near future. This submission has great technical performance and is rather international for maximizing market share. As there are not many international competitors, the future of this solution is quite promising.



波動能科技開發股份有限公司

COSMINERGY HITECH DEVELOPING CO., LTD.

●簡介

健波負離子除氯蓮蓬頭能有效瞬間去除水中餘氯,減少淋浴時自來水餘氯 產生三鹵甲烷之危害,並產生負離子放鬆身心。

- 1. 雙效能量產生器:內含天然礦石及蜂窩狀裝置,採不規則排列,以提高水流的碰撞,柔細水質增加負離子量。
- 2. 食品級除氯裝置:除氯效果極佳,只需一般蓮蓬頭二分之一水壓即可, 具省水功效,低水壓時也不怕。
- 3. 出口孔徑小, 水柱成散狀, 受熱面積大, 具提溫效果, 故較省電或省瓦斯。
- 4. 噴出□處成多角狀,水滴被切割為極細,密度高,經SGS測試,使用健波 負離子蓮蓬頭可提升週遭負離子濃度。
- 5. 水量集中,節省不必要水源。
- 6. 除氯匣採用食品級亞硫酸鈣,經SGS測試,去除水中餘氯達99%以上。

● 評語

- 標的以節約用水、淨化水質、具過濾功能之蓮蓬頭結構設計為創新訴求。其蓮蓬頭以「多角度散水面板設計」可強力切割水滴,產生負離子;且經增壓結構設計,即使在水量或水壓較小的情況下,仍有強力綿密的水柱,此設計可節約用水達約40%(使用前後差異)。
- 可更換過濾件及淨化件之設計,標的具除氯、殺菌、負離子生成及省水等創新特色,並有SGS等相關檢驗認證,可提升居家健康及創造節能省水環境。
- 標的取得新型專利,有銷售實績,其市場接受度日益提升,前景可期。

Introduction

Cosminergy anion dechlorine showerhead dechlorinate efficiently and instantly, reduces harmful elements such as THMs during shower, and releases higher dense of anion to help relax and calm.

Innovative Features:

- 1. Double-effect Energy Generator: A honeycomb-shaped design with irregular ceramic layout installed with natural mineral to increase hydrone collision and dense of anion via fine misty spray.
- 2. Water-saving CaCO3 supplement performs efficient dechlorination while requires only 1/2 of regular water pressure, also functions normally with a lower water pressure.
- Exquisite caliber of nozzles produces fine misty spray with wider coverage and advaced heating effect, utilizes less gas or eletricity.
- Multiple-angled nozzles greatly thinners and increases dense of water flows and dense of anion during shower, validated by SGS.
- 5. Centralized water flow reduces waste of unused water.
- Powerful food-grade CaCO3 supplement performs 99% removal of chlorine, validated by SGS.

Commentary

- The target is an innovative shower head featuring water-saving, water purification, and water filtering designs. The multi-angle spray panel design is applied to increase hydrone collision and anion density. With the pressure increasing structure, powerful fine misty spray is maintained even the water quantity or water pressure is low. This design can save about 40% of water (before and after use).
- The replaceable filter and purifier can effectively remove chlorine, kill the bacteria, generate anion and save water. It has passed the relevant SGS certifications and can promote family health and save water consumption.
- The target is granted the utility model patent and has good sales performance.
 As market acceptance increases, the future of the product is promising.

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健波負離子除氯蓮蓬頭 Cosminergy Anion Dechlorine Showerhead



盈科泛利股份有限公司

Accuvally Inc.

活動通Accupass[®] 電子票券服務平台 Accupass[®] e-Ticketing Service Platform



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●簡介

「活動通Accupass® 電子票券服務平台」(http://www.accupass.com) 為創新的網路服務,此服務分為兩大部分「活動通」網站及「Accupass® 電子票券平台」。活動通網站提供活動主辦單位線上刊登活動、設計報名表、販售電子票券、統計人數等服務,使參加活動的人能輕鬆於手機、電腦上完成報名與購票之操作。Accupass® 電子票券平台,提供多種票券驗證方式,最基本提供1D/2D條碼驗證,可以使用手機或條碼掃瞄器透過網路連線至票券中心驗證核發之Accupass® 電子票券,快速又安全,提供API與客戶端元件使企業用戶整合能輕鬆整合至原有系統,大大降低印製與遞送票券之成本。

● 評語

- 得獎標的為一活動網站,加上電子票券平臺的整合方案,提供使用者可透過手機等隨時隨地行動購票、發給票券及驗收票券等各種方便功能。
- 由於整個活動含訂票、付費、取得票券及驗證皆e化,不但成本 低、減少人為疏失,且能更快速的掌握訂票及參加活動人數,非常 符合舉辦現在年輕人相關活動使用。
- 已有300多個活動使用此系統所提供的服務,市場潛力無窮。

Introduction

"Accupass[®] e-Ticketing Service Platform" (http://www.accupass.com) is a innovative internet service which is divided into two parts –"Huo Dong Tong" and "Accupass Platform". "Huo Dong Tong" provides functions that organizers can easily publish events, design register form, sell e-tickets on their own. Attendees use their pc/pad/mobile phone to register and pay the fee for tickets online. Once they finish the process, they directly receive the e-ticket of registered event from email, mms or even "Accupass App". They just need to take their mobile phone attend the event and show the barcode to staffs. We also provide scanner to organizers to validate e-tickets. The scanner transfers information with Ethernet/WIFI/3G that means the validation process is centralized authentication. It's more secured, scalable and convenient. "Accupass Platform" also gives developers opportunities to integrate into existing system with REST API and client-side library (C#, Java, PHP, Ruby). It would save significant costs for business.

- The submission is an integrated solution integrating the event website and e-ticketing platform for users to buy tickets ubiquitously with a mobile phone and for event organizers to issue and validate tickets.
- As the entire event includes e-ticket subscription, e-payment, e-ticket collection, and e-ticket validation, this solution can reduce costs and minimize human mistakes. As it also allows organizers to quickly capture the status of ticket subscription and the quantity of event participants, it is a great solution for organizing youth events in modern times.
- This solution has a track record of more than 300 events. This suggests the solution has promising market potential.



珂奇開發有限公司 ARYEN MOTOR PROGRESSIVE CO., LTD.

●簡介

Egretta是一部兼具優美浪漫、務實理性的工程作品:對於大自然規矩的尊循,古典結構力學中學習的謙卑,以及對於極緻工法的堅持: Egretta於風尚、工程、美學的條件中交叉與平衡。

車身使用桁架設計,提供良好的剛性及強度;前三角特別加強堅固性與操作的靈敏;坐管採取較長的傳達距離,衰減了來自路面的震動,兼顧行駛時的舒適感;踩踏時力量可確實迅速地傳達,加速性能更加直接,Egretta無疑是兼具美感與力量的高性能車款。

悠悠風華散發出濃濃的算式與哲理,為了支持外觀所堅持的流動線條, 桁架被精巧的安排在其中,達成最大強度及忠實的保有設計理念。

● 評語

- 標的以高剛性的前三角桁架結構,並運用材料本身彈性而能緩衝 乘騎的受震力。整體結構與外觀,結合工程、美學和工藝等考 量,針對「特殊消費族群」研發設計,且有獨特的創新訴求。
- 從使用者立場與產品區隔策略出發,採小量或訂購生產,藉此區 隔現行普及之自行車產銷模式,在研發思維和產品特色上,具創 新性。
- 本標的獲台灣、日本新型專利及經濟部工業局金點設計獎,已進行小量生產,陸續接獲國外訂單,目前正規劃多種車款價位和調整工序流程,以求降低成本並擴大銷售額。

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街道衝刺20吋小徑車-鷺 Egretta Road Sprint T-70

Introduction

Egretta -consolidates both of sophistication and practicability at the same time.

Insisting on the exquisite techniques, we create and find the balance and the junction in Egretta which is full of fashion, construction, and aesthetics. truss with precise angle of front fork provides brilliant road driving feedback and excellent manipulation. The stiff front construction strengthens its performance and transmits the paddle power to the road directly.

The long and indirect saddle tube in extraordinary flexible material transfers the hard sense of road bike riding into the comfortable riding experience. Following the rule of nature, we learn to be humble from the classical structural mechanics. Insisting on the exquisite techniques, we create and find the balance and the junction in Egretta which is full of fashion, construction, and aesthetics.

- The target buffers the vibration from riding with a high-rigidity front triangle truss structure and material elasticity. The overall structure and appearance combining engineering, esthetics and craft consideration are designed for "special consumer groups" with unique innovation.
- Starting from the inside-out approach and product segmentation strategy, the target is engineered to order to segment the general bicycle marketing model. In R&D and product features, the target is innovative.
- The target is grated the utility model patent in Taiwan and Japan and has received the Golden Idea Design Award from the IDB. Small scale mass production has begun and overseas orders have been placed. At present, the inventor is planning the price and adjusting the process for different models, in order to minimize cost and maximize sales turnover.



家登精密工業股份有限公司

Gudeng Precision Industrial Co., Ltd.

光罩清洗機 3.0 Mask Cleaner 3.0



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●簡介

清潔六时光罩玻璃面的污染物,本公司研發的自動光罩清洗機是頂獨特性的產品,自行研發之光罩清洗裝置模組,首先操作員將光罩盒放置於ALU承座上,啓動設備後機構自動翻轉光罩使清洗面朝下,再由精密夾具準確夾取光罩,並移載到清洗座機構使用無塵布注入DIWater清洗,來清潔六时光罩玻璃面的污染物,最後經由風刀機構以CDA潔淨氣體吹除光罩水漬,完成以上清潔製程後光罩再經由ALU機構載入到光罩盒中,可以有效的將光罩上之微粒污染物去除乾淨,藉此不但延長光罩的使用壽命,並可有效降低光罩之報廢成本。

● 評語

- 標的為清潔六时光罩玻璃面污染物的專用清洗機,使用無塵布注入 清潔液清洗,並以潔淨氣體吹除光罩水漬,可以有效將光罩上之微 粒污染物去除乾淨,延長光罩使用壽命。
- 在全自動開盒取光罩、光罩自動翻面、水洗機構模組等設計上頗具 特色。
- 標的獲台灣與美國發明專利,創新度高,值得獎勵。

Introduction

To clean and remove contaminants on the photomasks, Gudeng's R&D has developed an unique automatic mask cleaner, with its own-design mask cleaning module.

First, an operator puts a POD on the support plate of the ALU, then starts the process. The robot arm automatically flips the photomask to place the glass side face down, and then the photomask will be accurately picked up by the robotic clamp and moved to the cleaning area. The glass side will be cleaned by a clean cloth with DI water, to remove contaminants on the glass side of the 6" photomask. Finally, the water will be blown off by the air-knife using CDA

After the above process is finished, the photomask will be put into a POD by the ALU equipment. It can remove particles and contaminants effectively, prolong the photomask life, and effectively reduce photomask scrap costs.

- The submission is a dedicated mask cleaner for removing contaminants on 6-inch photomasks. By cleaning masks with a clean fabric containing cleaning agent and drying the cleaned masks with clean gas, this cleaner can effectively remove particles and contaminants on photomasks to extend their life.
- The fully automatic photomask picking, turning and cleaning mechanism has guite a special design.
- The submission is granted invention patents in Taiwan and the USA for its high innovativeness. Therefore, it is worth rewarding.



恩良企業股份有限公司

En-Liang Enterprise Co., Ltd.

●簡介

捷運第三軌(導電軌)的支持礙子具有良好的電氣絕緣抵抗能力及優秀的機械強度,材料使用玻璃纖維強化複合材料及高溫高壓成型。此類型產品大多都是國外技術開發提供,此次開發為國產化的先驅,此支持礙子既能符合國際技術上之基本要求,又符合經濟效益之競爭優勢。

本公司設計之第三軌支持礙子採用本體與爪鉤組合的設計,如此設計 有利於人員安裝之方便性。此次結構設計經由與客戶直接溝通並利用 電腦軟體反覆的計算與模擬,由國內自行開發設計出最佳化之結構, 達到輕量化節省成本又能兼顧優異的特性需求。

● 評語

- 與傳統支持礙子比較,本標的具有重量輕且成本低之優勢,重量可由16公斤降為5.5公斤,成本更遠低於國外產品。
- 本產品創新性在於複合材料配方的調整以及結構設計的成功,結構設計的特點在於:
 - 1. 工字型設計,提升機械強度,並達到輕量化節省成本之 目的
 - 2. 整體為絕緣材料設計製造,提高導電軌道通電安全性
 - 本體與爪溝分離設計,組裝容易,底部全牙螺絲高度調整機能設計,施工時之高度調整容易
 - 4. 流線型設計,外型美觀。本標的為該產品第二代,在外型、功能及成本上,均進一步改良創新,更具競爭力

Introduction

The third rail insulator is excellent in electrical insulation and mechanical performance. The insulator is made from glass fiber reinforcement composite material and using high temp and high pressure molding process. Most of rail insulator was produced by oversea company before, so this development is the first successful model in Taiwan. The insulator not only meet all the international standards but also competitive in cost.

The design was using body and the hook structure, this new structure is convenient for workers to assemble at sire. All the developing process was done directly with customer alone the way and simulation by computer software. This is the successful developing case in Taiwan.

Commentary

- When compared with conventional insulator support, this target is lightweight and low-cost. Its weight reduces from 16kg to 5.5kg; and its cost is much lower than import models.
- The compound material adjustment and structure design are the points of innovation of this product. The structure design features include:
 - 1. H-shape design to enhance mechanical strength at lower weight and lower cost.
 - 2. Made with insulation materials to enhance rail safety after electrification.
 - 3. The support and catch ditch are separated in an easy-to-assemble design. The bottom height is adjustable by means of full-threaded screws to facilitate height adjustment in construction.
 - 4. Streamline design with a good-looking appearance. This is the second generation of the product, with further improvement and innovation of the first generation in appearance, function and cost, thus making it more competitive.

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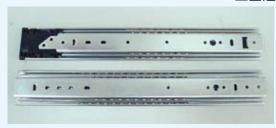
第三軌支持礙子 The Third Rail Insulator Support



振躍精密滑軌股份有限公司

Martas Precision Slide Co., Ltd.

鋼纜式制動功能之精密鋼珠滑軌 Precision Slide with Cable Interlocking Mechanism Function



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● 簡介

1.創新功能設計

產品應用於中、高檔的辦公傢俱市場裡尤其在大型檔案櫃、儲物櫃 基於使用安全性考量,使抽屜被限制為同時間只允許開啓一個,防 止因過重而導致櫃子傾倒以確保使用者之安全。以創新設計出超高

強度制動裝置滑軌。

2. 高可靠度設計

創新設計達到降低成且可靠度提高至國際標準規範之3倍

3. 環境化設計

大幅降低零組件數量,達到節能減碳與環保之目的、產品開發符合DFE &RoHS 要求。

● 評語

- 標的物以鋼纜式制動機構設計,可有效防止使用大容量櫥櫃、資料櫃時,多個抽屜同時被打開或滑開,確保一次只能開啓一個抽屜。
- 除具制動功能外,並兼具自動復歸功能,提升可靠度、安全性與耐久性。標的物獲有新型專利,前景可期。

Introduction

1. Design of innovative features

Products used in high-end office furniture market, especially in large filing cabinets, safety considerations based on the use, at the same time can only open a drawer to protect the user. The innovative design of precision slide with cable interlocking mechanism function.

2. High reliability design

Innovative design to reduce costs and improve reliability to the international standards of 3 times

3. Design for the Environment

Significantly reduce the number of components to achieve carbon reduction and environmental protection purposes, product development meet the DFE & RoHS requirements.

- The submission effectively prevents the opening or sliding of multiple drawers at the same time in large-capacity cupboards or filing cabinets with a cable interlocking mechanism ensuring that only one draw can be opened each time.
- Apart from the interlocking function, the submission is equipped with an automatic return function to enhance product reliability, safety and durability. The submission is granted the utility model patent, and its future is thus promising.



益全機械工業股份有限公司

Yih Chuan Machinery Industry Co., Ltd.

●簡介

立式五軸加工中心機(VH-119U)由三個直線軸及兩個旋轉軸所組成,加工組合多樣化,包括三軸立式及臥式,3+1軸、3+2軸、4+1軸以及5軸等方式,加工應用範圍廣泛。可加工各個角度,一次裝夾即可完成加工,大幅縮短整體加工時間,提高生產量,以及減少刀具長度,讓更有力的刀具進行深穴加工,延長刀具壽命,降低刀具使用成本,產品表面品質也獲得提升。有別於市面上傳動機構的設計(直驅馬達),VH-119U為蝸輪蝸桿設計,補足了扭力較小無法承受重負荷的問題,並提升旋轉時的精度以及剛性。應用產業廣泛,從航太、造船、汽機車零件、生醫科技、國防及模具到綠能源製造產業。

● 評語

- 標的物主要為克服複雜曲面加工不易的問題,研發設計渦輪及渦桿 為傳動機構裝置於迴轉軸上,可提高剛性,加工時也可降低刀軸外 伸長度,提高加工精度。
- 整機重要零組件除伺服馬達外,包含内藏式主軸、滾珠螺桿、 CNC控制器、力庫等皆採用國產品。標的物獲有新型專利,技術 備受肯定。

Introduction

VH-119U is Articulated head Machining Center, Machine is fitted with programmable Articulated head. VH-119U can do bigger angle machining , if compare with tilting rotary table design machine. Also the outside dimension of tilting rotary table is big to make space for work piece become small, ϕ 740x700mm table in table design on VH-119U can have more room for work piece and machining. High torque & build-in spindle is design 17kw / 15000rpm spindle motor, no counter-weight system to support Z axis quickly rapid feed and movement smoothly.

Commentary

- The submission is invented to overcome the machining difficulty on the complex surface by developing a worm-gear as the driving mechanism of the revolving axis to enhance rigidity and enhance machining accuracy by reducing the external stretch of the cutter.
- Except for the servo motor, all key components of this articulated head machining center, including the embedded main axis, ball-screw, CNC controller, and cutter bank, are made in Taiwan. The submission is granted the utility model patent for its outstanding technology.

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VH-119U五軸綜合加工機 VH-119U Five Axis Machining Center



崇仁科技事業股份有限公司

GaleMed Corporation

●簡介

Sil.Flex[™] 氣切軟墊 Sil.Flex[™] Stoma Pad



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Tel: +886-3-9908618 Fax: +886-3-9908245 「Sil.FlexTM 氣切軟墊」為使用氣切管的患者提供一柔軟、親膚性支撐介面,高親膚性柔軟彈性材質,使用材質符合生物相容性,完全不刺激肌膚,同時可降低組織過敏;防造口接觸設計,能減少與氣切傷口接觸,減緩對造口之摩擦與刺激;產品外型採順應頸部曲線的弧面設計,使患者於氣切管使用期間,藉由軟墊釋放氣切造口所施加的不當壓力,平均釋放壓力改善局部壓迫現象,同時降低對氣切造口的刺激,大幅地減少氣切造口因不當壓力進而造成對氣切管患者的二次傷害,以及衍生的醫療費支出。

評語

- 有鑑於氣切造口易產生創傷性傷口和壓瘡,造成病人進一步之組織傷害和不適感,崇仁科技利用TPE/矽膠材料作成氣切軟墊,取代常用之Y型紗布,為病人提供一柔軟、親膚性支撐介面,釋放對造口施加之不當壓力,提升病人之舒適度和降低對氣切造口之刺激和減少二次傷害。
- 主要創新點在於材質創新和設計創新,在環保性上,由於本產品同一病患可經簡易消毒後重覆使用,較一次性之Y型紗布產生之廢棄物為少。
- 在行銷策略上,優先外銷美國再導入國内,屬第一級醫療產品, 工廠符合GMP,產品已獲台灣TFDA、比利時DNV和美國FDA核 准上市。

Introduction

Sil.FlexTM Stoma Pad is made from biocompatible material, minimizing the incidence of hypersensitive reaction (allergy) and providing tracheostomy patients a soft, skin-friendly and comfortable interface.

The design of Sil.Flex™ Stoma Pad aims to reduce the pain when patients are intubated by the tracheostomy tube. The soft and flexible arc surface of Stoma Pad conforms to the neck, which becomes the best cushion between the wounded stoma and tracheostomy tube. The Stoma Pad not only reduces the contact between patients and the tracheal tube, but also significantly release the oppression caused by tightening of the neck strap.

This innovative product protects patients against secondary damage, as well as derivative medical expenses thereof.

- Traumatic wounds and pressure sores are commonly found in tracheostomy patients and further cause tissue injury and discomfort to patients. GaleMed develops the Sil.Flex™ Stoma Pad made with TPE and silicone to replace the conventional Y-shape gauze, in order to provide patients with a soft, skin-friendly and comfortable interface to release improper pressure on the stomach area, to make patients feel more comfortable, and reduce the irritation and secondary injury of tracheostomy.
- The innovation of the target includes material and design innovation. In environmental protection, the target is more environmentally friendly as it is reusable after disinfection, when compared with the disposable Y-shape gauze.
- In marketing strategy, the inventor exports the product to the USA before launching it in Taiwan as a Type 1 medical product. The factory is a GMPcertified factory, and the product has been approved to launch by TFDA (Taiwan), DNV (Belgium), and FDA (USA).



華佑企業股份有限公司

Huoh Yow Enterprise Co., Ltd.

●簡介

IFT電感元件最主要的創新特色是採用Pb-free的鐵氧體製作,市售IFT電感元件為了滿足頻率特性(F-Q,F-ui)絕大部分均加入微量的鉛化合物做為改性劑,鉛化合物與其他元素搭配作為鐵氧體改性劑在適當的燒結控制下可以得到均一的晶粒結構與電氣頻率特性。但因鉛化合物屬於環境有害物質,本公司透過配方設計評估,以其他化合物取代鉛化合物,成功開發出無鉛化的IFT電感元件.

● 評語

- IFT(Internal Frequency Tuner)電感元件主要用途為中週波範圍頻率 調整,可用於手機和遊戲機等。
- 市售IFT電感元件為了滿足頻率特性,絕大部份均加入微量之鉛化 合物作為改性劑,以得到均一的晶粒結構與電氣頻率特性,本申請 標的成功開發出無鉛化鐵氧體材料的產品,並獲下游客戶採用。
- IFT電感元件佔公司有内外銷實績,具國際競爭力。

Introduction

The Pb-free IFT inductive component features stable frequency, wide inductance and low loss range and high application frequency. Pb-free IFT inductive component can be designed according to customer requirements with the maximum application frequency of above 10MHz.

が落ちば、本中語
下游客戶採用。

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無鉛化IFT電感元件 Pb-free IFT Inductor Component

CommentaryIFT (internal frequency tuner) inductive component are mainly applied

- IFT (internal frequency tuner) inductive component are mainly applied to intermediate frequency (IF) tuning for mobile phones and videogame consoles.
- A very tiny quantity of lead compounds is added as a corrective in most IFT inductive components on the market to meet the frequency characteristics by obtaining even chip structure and electrical frequency characteristics. The target is a successful lead-free iron oxide IFT inductive component used by downstream customers.
- This internationally competitive lead-free IFT inductive component has been successfully distributed worldwide.



微細科技股份有限公司

Microcell Composite Company

● 簡介

TPE發泡技術-軟硬通吃之新材料 總合研究

TPE foaming Technology-A research of the new material for the integrated both softness and hardness property



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Tel: +886-6-2706629 Fax: +886-6-2494243 本公司使用目前全世界最新的TPE材料(Thermal Plastic Elastomer)為基礎,結合材料專利與高壓發泡劑數,所發展出來的一套創新且完整的發泡材料技術,可以在相同的發泡密度下,做出從軟到硬的發高分子泡材料。其特性與應用分別如下:

博彈系列(CELLOMER)為具止滑、柔軟、彈性佳等特性的軟性發泡板 材料;

博制系列(CELLAMP)為吸振、制振、觸感佳、形狀記憶特性的制振發泡板材料;

博硬系列(CELLIFF)為質輕、強軔、剛硬、不易斷裂等特性的剛性發泡板材料。

● 評語

- 申請標的採用TPE材料,特別是SBS(styrene-butadienestyrene),其具有軟硬段之特性,並結合高分子材料之掺 合技術與發泡技術,作出可自行調控軟硬發泡效果,在 相同的發泡密度下之特殊發泡材料。
- 申請標的物已應用在瑜珈墊、冰上曲棍球鞋護套,和具有支撐力特殊鞋材等,應用範圍廣泛。
- 由於材質單一,可完全回收,已取得台灣專利,市場潛力無窮。

Introduction

The Microcell Composite Company is based on careful analysis of the TPE(Thermal Plastic Elastomer), the latest material currently the world, with company's own patents and high-pressure foaming agent to developing an innovative and entire foam technology. With same density of foam, to manipulate the foam properties coupled with the applications from very soft and very hard. Their characteristics and applications are as follows:

CELLOMER $^{\circledR}$ series is non-slip, soft, flexible features such as soft foam board material:

CELLAMP® series is absorbable, damping, feel good, the damping characteristics of shape memory foam board material;

CELLIFF® is light, stubborn, rigid and difficult to fracture properties of rigid foam board material.

- The TPE (thermoplastic elastomer) in this target is a special SBS (styrene-butadiene-styrene) containing hard and a soft sections. By adding high molecular materials and using the foaming technology, the hardness of the material can be adjusted from very soft to very hard. With the same foaming density, it is a special foam material.
- The target has been used in yoga mats, ice hockey skates and protective gloves, and special soles requiring special support. Therefore, the scope is extensive.
- As it is not a composite material, it can be 100% recyclable. It is granted a Taiwan patent and has immense market potential.



榮星紙業股份有限公司

Lucky Star Cartoner Co., Ltd.

●簡介

本標的為包裝紙箱,主要用於汽車鈑金零件,一般為產品包裝設計都 是以四角形樣式做設計,本標的創新設計為多角形且貼身的型式,並 採用棉線環繞定型。

此型式包裝設計,除方便產品快速包裝作業,更方便產品多關卡的檢 驗,輕易拆開容易恢復包裝,取代一般使用膠帶的包裝方式。

多關卡檢驗流程:包裝入庫檢驗→出貨前檢驗→出口到國外拆開檢驗→ 在國外入庫檢驗→國外客戶出貨前檢驗。

此型式包裝設計節省紙漿耗用,比採用四角形樣式降低2倍的耗用,在 地球能源逐漸短缺之際,減少紙漿耗用的包裝設計,乃是當務之急。

● 評語

本標的主要針對汽車之引擎蓋和葉子板進行包裝結構、裝拆方式和 儲運成本之研發改良,突破過去傳統四角型紙箱包裝方式,除改善 包裝作業外,更能有效減少紙漿用量。

 「貼身式」包裝及「凸套片」改良,方便客戶端快速裝 拆作業和提高徒手操作安全性,約可降低40%之人力成 本,並能減少倉儲及貨櫃才積,讓多方(製造、客戶和 檢測)享有研發創新後所帶來的實質助益。

• 標的已獲專利,且有不錯的銷售實績。

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汽車零件包裝設計 Auto Parts Carton

Introduction

This innovative target is a packing carton mainly used for stamping parts of automobiles, in general, such products are rectangular, while this target is so innovative as to be polygonal, furthermore, it adopts fit design and is fixed with cotton thread for fixing the shape, besides rapid packing, it also facilitates multi-pass inspection of the products for easy unpacking and repacking that can replace ordinary packing by adhesive tape.

Multi-pass inspection flow: Warehouse incoming inspection→Shipment inspection→Unpacking inspection before exportation→Warehouse incoming inspection abroad→Shipment inspection by foreign clients···

This package can save the cost of pulp by twice compared with that of rectangular packages, with the global shortage of energy resources, the packing design that can reduce the consumption of pulp is an emergent need.

- This target involves an improvement of the structure, assembly and disassembly, and storage cost of the packing for auto hoods and fenders to break through the conventional rectangular carton packing. Apart from improving the packing operation, the target effectively reduces pulp consumption.
- The "fit to shape" packing and "protruding cap" improvement facilitate customers to quickly assemble or disassemble the packing and enhance the safety of bare hand operation. The target reduces about 40% of labor cost and storage/container space for different parties (manufacturers, customers and testers) to enjoy the physical benefits from the innovation.
- The target is granted patents and has good sales performance.



網奕資訊科技股份有限公司

AClass Learning Technology Inc.

互動教學系統 HiTeach



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●簡介

HiTeach互動教學系統是一套三合一教學軟體。能同時整合互動電子白板、ezVision實物提示機、IRS即時反饋系統功能,成功解決以往老師同時使用這些教學輔具時,必須另外開啓軟體的不便,提高教學效率及教學使用意願,輔助老師做更多化的應用。透過HiTeach,老師可直接進行教學備課、拍攝教學演示影片、白板劃記解說、課文導讀、習作觀摩、即時評量、投票互評等教學活動,讓教學活動不間斷。此外,還能結合後端的雲端診斷分析系統,教學、評量、診斷一次完成,是創新的教學科技產品。

● 評語

標的整合互動電子白板、ezvision實物提示機、IRS即時反饋系統之教學軟體,讓教學者從教學內容的準備、課上的互動教學到課後學習診斷一氣呵成,一次整合教學上常用的三種設備,而不必在不同軟體中切換,提供相當方便性及完整性。

Introduction

HiTeach is an interactive teaching system in a smarter classroom. This product integrates interactive whiteboards, document cameras, and interactive response system in one operating software, therefore teachers don't need to switch among various systems of the three components while teaching; furthermore, increase teachers' will of applying technology on teaching and make it more efficient. On the seamless platform, teachers are allowed to interact with the students by the plentiful aiding tools such to write, draw, type, import files, record screen, conduct quizzes, pop quizzes, in a convenient, efficient, and intelligent way.

Commentary

This submission allows instructors to prepare teaching materials, arrange interactive instruction, and perform teaching efficacy assessment at the same system by integrating the interactive whiteboard, ezvision document camera and interactive response system on a single operating platform. As instructors will not need to switch from one system another, the product makes instruction convenient and integral.



齊碩科技股份有限公司

Joseph Technology Co., Ltd.

●簡介

可邏輯配置之單三相多迴路電力監測器,內建12個獨立的測量模組,可選擇輸入電壓的任一相當做測量基準,能被規劃為12個單相二線電源迴路之電力監測,或4個三相三/四線電源迴路之電力監測,或其中之混搭組合,具有豐富的應用彈性。內建三組隔離PT,以及12組外接可卸式之隔離CT,使用最安全的方式測量配電箱内共同的供應電壓及各分路電流,並準確計量各迴路包括單相及三相之用電資訊,內建的電力測量模組,能全時測量所監測迴路的電壓、電流、功率、功因及實功累積等資訊,除了能在本體上直接顯示,亦可與中央監控連線,達到遙讀各迴路用電資訊的目的。

● 評語

- 本標的係應用多工分時電力量測及傳訊技術,具有12獨立電力迴路量測功能,同時各個迴路可任意組合而成的邏輯三相電力監測器。
- 本標的耗電低、體積小且技術獨特成熟度高,獲多項專利保護 研發投入之資源,相當用心。

Introduction

Programmable Multi-Channel Smart Power Meter is a compact and reliable device embedded with 12 sets of independent power meters, 3 pcs of isolated potential transformers (PT) and 12 pcs of opened current transformers (CT). Each power meter inside the Programmable Multi-Channel Smart Power Meter can measure voltage, current, wattage, KWh, power factor (PF), etc. Only one set of RS-485 wiring is required to connect to the control center for remote monitoring. It can be configured as 12 sets of independent 1 ϕ 2P meters or 4 sets of 3 ϕ 4P meters or a mixture of 1 ϕ 2P meters and 3 ϕ 4P meters.

Commentary

- With multiplex time-sharing power measurement and transmission technologies, the submission is capable of measuring the power of 12 individual loops and programming into a 3-phase logical power monitor by combining different loops at random.
- This energy-saving and small-sized product has highly independent technical maturity and is developed with various patented R&D resources, showing the resourceful effort of the inventor.

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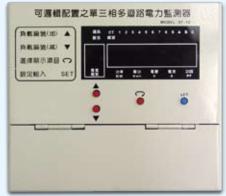
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可邏輯配置之單三相多迴路電力 監測器

Programmable Multi-Channel Smart Power Meter



興鋼精機廠股份有限公司

Hsing Kang Machinery Works Co., Ltd.

●簡介

創新型天車結構-半門式門型加工 中心機,LG-2500 Semi-Gantry Portal Type Machining Center, LG-2500



負責人:黃張錦 公司通訊地址:

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Tel: +886-4-25626192 Fax: +886-4-25610913 本機台為一創新門型結構的CNC綜合加工中心機(三軸行程X2,500/Y1,150/Z620 mm),其設計靈感源自於半門式天車(Semi-Gantry Crane)架構,藉此突破動柱、動樑及動工作台機器設計的限制。其一體成型的L型機身與半門式結構實現了最小機械佔地面積以及達到最佳的工件存取與加工控制的動態性,帶給使用者更多的安全便利與工作

效率。透過嚴格的有限元素分析與數十年製造經驗的基礎,無論是在結構剛性與機電整合方面,本機皆表現出超越傳統門型加工中心機的卓越性能。不管是重切削或是高速精加工,它的多功能及高效率滿足了各種產業需求,包括模具、航太、能源及汽車零件等廣泛的產業生產應用。

● 評語

- 標的以一體成型的L型基座與半門式天車架構之不對稱結構設計, 可降低佔地面積及提升工件存取的便利性。融合傳統綜合加機動柱式、動樑式、動工作臺式的優點。
- 標的獲有兩項新型專利,深具重切削與高速精加工的特點,可應用 於模具、航太、汽車零組件等產業生產用。

Introduction

Inspired from semi-gantry crane, this brand new portal type vertical machining center is structured the genuine semi-gantry construction (patented) on X, Y and Z-axis travel (X2,500/Y1,150/Z620 mm). Breaking through the limitation of typical moving-column, moving-bridge and moving-table machinery design, the integrated one-piece of L-shape base with its axle overhangs allows the least floor space machine occupation, best accessibility and control of machining processes that make the machine operator more safer and convenient while watching the cutting tool or loading/unloading larger workpieces. With strictest analysis through FEM method and mechatronic integration experience, the biggest innovation of this machine tool carry out an outstanding dynamic performance that allows various operations from heavy-duty roughing to high-speed finishing. Its highest versatility and efficiency satisfy the increasing needs for the production of mould, in the production of parts for the aerospace, energy, car industry and for many other applications.

- With an asymmetric structure design comprising an L-shape base and a semi-gantry crane, the submission effectively reduces space occupation and facilitates work price loading/unloading. Also, it integrates with the advantages of conventional moving-column, moving-bridge and movingtable machinery designs.
- The submission is granted two utility model patents for its high performance in heavy-duty roughing and high-speed finishing. It is suitable for producing molds and parts for the aerospace and auto industries.



錩鴻企業股份有限公司

Chang Hong Enterpise Co., Ltd.

●簡介

本產品具有三大功能特色:1.無負壓間接抽水功能,符合自來水法規定,為間接加壓用水設備,且具省水作用。2.超低噪音,噪音值經台灣工業技術研究院實際量測証明,無水空轉時僅33dBA,為業界最低,符合環保低頻噪音管制標準。3.設有"無水立即斷電感應棒"及"溫度過載控制器",雙重保護馬達,防止停水或空轉時馬達燒毀,並有節能省電效果。

本產品可加裝任何種類恆壓控制器,增加商品用途及價值,因為其獨特功能是未來之趨勢,所以極俱潛力及競爭力,擴展內、外市場前景可期。

● 評語

- 標的物係改良該公司第二代密封式靜音送水機,改良重點包括:
 - 1.外觀輕巧化,易於安裝施工,降低材料成本。
 - 2.機身内之進排氣閥改設於機身外部並改進其功能,不會有延遲關 閉或關閉不良導致漏水現象。
 - 3.增設液面感應棒,無水自動斷電裝置,以保護馬達。
- 本標的產品能有效改善「水管漏水」、「水壓不足」傳統抽水馬達 噪音等問題,自來水水壓不足之處皆可使用,深具市場潛力。

Introduction

Three major functions featured by this product include the following: 1.the non-negative pressure indirect water supply conforms to the regulations of the Tap Water Act and achieves water saving; 2. as measured and certified by the Industrial Technology Research Institute, Taiwan, the extremely low noise reaches only 33dBA in noise level when the product operates without water, which is the lowest among current water pumps on the market and meeting Low Frequency Noise Control Criteria; and 3. the inbuilt "sensor bar for power shut-off when without water supply" and "controller of temperature overload" ensure double protection to the motor by preventing burning down when the water supply stops or the motor operates without water; it also achieves greater power-efficiency.

This product can be added to any constant-pressure controller, enlarging its applicability and market value. Its unique function reflects a future trend and its potential and competiveness assure a promising niche in both the local and global markets.

Commentary

- The submission is an improved silent pressure-propelled water pump with the following improvements:
 - 1.slimmer appearance and lighter weight to facilitate installation and reduce material cost;
 - 2.change of the location of intake and exhaust valves to the exterior and improvement of valve functions to eliminate leaking due to delayed or incomplete valve shutdown; and
 - 3.addition of a liquid surface sensor and automatic power shutdown device in the absence of water to protect the motor.
- The submission effectively improves "pipe leaking", "low water pressure" and "noise" problems in conventional water pump. As it can be used in places with low tap water pressure, it is highly potential on the market.

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靜音加壓送水機改良 Improved Silent Pressure-Propelled Water Pump



鴻進科技股份有限公司

Risun Expanse Corp.

直流無刷微軸流扇 DC Brushless Micro Axial Fan



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●簡介

鴻進科技的直流無刷微軸流扇系列已成為馬達科技之新標竿,其 特色為:

- 1. 超薄: 厚度僅4mm
- 2. 體積小:型號RFA1804為18mm×18mm
- 3. 低功耗、低碳排放: 0.02W~0.2W MAX., 符合環保趨勢
- 4. 低啓動電壓: 1.5V,可以以太陽能驅動,較一般同型機種低29%的 啓動伏特
- 5. 低噪音、長壽命

提供輕薄短小迷你投影機、MID、(車用)HUD、迷你平板電腦等手持電子裝置有效之散熱功能,以提升應用裝置之整體可靠度,同時又能大大強化行動裝置之電力續航力。

● 評語

- 標的利用風扇上增外蓋,防止扇葉脫離,避免傳統需於軸心嵌入C型環之設計,可大幅簡化軸心設計與減少旋轉阻力。
- 產品具超薄、體積小、低功耗、低碳排放及低啓動電壓之特色。
- 設計新穎、成本低,極具國際市場競爭力。
- 產品具有多項專利技術,保障市場獨占性。

Introduction

The Micro Axial Fan series, RFA1804, of Risun Expanse Corp. has become benchmark for motor industry, featuring in:

- 1. Slim profile: 4 millimeters in height
- 2.Small size: 18 by 18 millimeters
- 3.Low power and low carbon emission: 0.02W up to 0.2W
- 4.Low start-up voltage: 1.5V, capable of being driven by solar power and 29% lower than that of other similar products in the market
- 5.Low noise and long service life

The Micro Axial Fan series can provide efficient cooling for slim and light portable electronics, such as: Pocket projectors, MIDs, Smart-phones, and Mini tablet PCs etc., and enhance the overall reliability for the application devices while saving the highly-restricted battery power of mobile applications.

- The submission prevents flabella from falling off the fan with an additional cover on top and significantly simplifies axis design and reduces rotational resistance by abandoning the C-ring embedding design as in conventional axes
- The slim, small and energy saving product can reduce emissions and requires low activating voltage.
- It is internationally competitive for its novel design at a lower cost.
- It has a number of patented technologies to ensure market uniqueness.



第18屆 himoverien Awerel 中小企業創新研究獎

申請須知



申請須知

一、目的

爲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99年之研發費用佔營業淨額比例不得低於2.0%,且目前仍在營運中。

(二) 獎勵範圍

自行研發之創新性產品、技術、製程、流程、服務(包含技術服務、知識服務、商業服務)等項,於民國99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、協助傳統產業技術開發計畫、中小企業即時技術輔導計畫、數位內容產業發展補助計畫、小型企業創新研發計畫、業界開發產業技術計畫、創新科技應用與服務計畫、協助服務業研究發展輔導計畫、創新技術研究產學合作、高科技設備前瞻技術發展計畫、農業生物技術研發成果產業化計畫、促進農業企業研發輔導計畫…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(如科學工業園區-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30萬元獎助金,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(紙本一份、光碟一片),申請書請以電腦繕打,以A4規格裝訂整齊,另 以電子檔形式儲存於光碟(含附件掃瞄)交寄,申請資料概不退件。
- 2.建議採通信方式報名,請將申請資料掛號郵寄至 「106台北市羅斯福路二段95號6樓 創新研究獎工作小組收」
- 3. 網路下載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 (http://tsia.moeasmea.gov.tw),或洽詢經濟部中區、南區聯合服務中心,各縣市政府中小企業 服務中心取得申請書。
- 4. 洽詢電話: (02) 2366-0812 分機502 創新研究獎工作小組 辛小姐。

(二) 送審資料

- 1. 申請書
- 2. 公司登記資料影本

(可逕行至財政部稅務入口網 http://www.etax.nat.gov.tw "公示資料查詢"查詢列印)



申請須知

- 3.工廠登記證明文件影本
 - 註:場地面積未達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。
- 4.申請獎勵標的之商業化或量產之相關證明文件影本(於99年1月1日至100年6月15日前銷售之發票、合約書、訂單等,若爲醫療或食品需檢附相關主管機關核可之證明文件)
- 5.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〕)
- 6.以員工人數認定之中小企業,請附99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。

7.99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100 年6月15日前掛號寄達)

(三) 申請期間

即日起至100年6月15日(星期三) 18:00止(通訊寄件以掛號郵戳日期爲憑)。

五、評審

(一) 評審方式

分爲資格審、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。
- 2. 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。
- 3. 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:

1. 申請獎勵標的之創新性		%
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	%

100 %

(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,並自負法 律責任。

七、其他

得獎名單預計於100年12月公佈,並以專函通知所有申請企業。



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八千萬元以下者。
 - 二、除前款規定外之其他行業前一年營業額在新臺幣一億元以下者。
- ◆ 另就經常僱用員工數爲中小企業認定標準,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二百人者。
 - 二、除前款規定外之其他行業經常僱用員工數未滿一百人者。
- ◆ 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,其規模超過第二條所定基準者,自擴充之日起,二年內視同中小 企業。
 - 二、中小企業經輔導合併後,其規模超過第二條所定基準者,自合併之日起,三年內視同中小企業。
 - 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二條所 定基準者,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
資訊與電子類	含通訊設備、電腦通信、資訊軟體、資訊硬體、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。
機械與自動化類	含機械設備製造、運輸工具製造,模組開發製造、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。
材料與生技類	含生物化學、纖維材料、工程塑膠材料、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塡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。



評審委員會

決審委員名單

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葉雲龍 經濟部商業司 司長

顏 宗 明 行政院國科會新竹科學工業園區管理局 局長

(上述名單除召集人外,依姓氏筆劃排列)



評審委員會

初審委員名單

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