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處長序文

根據「2013 小企業白皮書」顯示，中小企業家數在2012 年創歷年新高紀錄，達 130 萬 6,729 家，占全體企業家數的 97.67%。較 2011 年成長 0.04%，銷售值（11 兆 3,818 億元）成長率達 1.37%，顯見中小企業在逆境中依然勇於面對挑戰，以越挫越勇的精神為台灣的經濟持續打拼。

為鼓勵中小企業長期投入創新研發工作，經濟部中小企業處自民國 82 年起辦理「中小企業創新研究獎」選拔表揚活動，總計有 3,473 件標的提出申請，其中有 712 件卓越標的獲獎，實為中小企業創新研發之榮耀標竿。本屆申請參選標的區分為「資訊與電子類」、「機械與自動化類」、「材料與生技類」、「服務類」及「綜合類」等 5 大類，共計 116 件標的參選，經各階段評選委員專業嚴謹的審查，最終選出 29 家企業獲此殊榮。本屆獲獎標的的不論在技術創新、設計研發及產品實用等方面均有傑出表現，充分展現國內中小企業在各領域創造新價值的研發能力。

「創新」、「研發」向來是促進經濟成長的基礎，也是中小企業升級發展的重要指標。中小企業雖然在規模、資金、設備、體質不如大型企業，然能堅持自行研發、創新不懈且交出具體成績者實屬不易。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，持續不斷地進行創新與研發，中小企業處也將持續推動各項輔導措施，協助中小企業升級轉型與提升研發能量，從研發創新、強化品質、技術創新等能力方面投入相關資源，協助中小企業提升競爭力，以立足台灣，布局全球。



經濟部中小企業處 處長

A large, bold, black handwritten signature in Chinese characters, likely reading '李俊卿' (Li Junqing).


中華民國 102 年 11 月 22 日

Foreword

According to the "2013 White Paper on Small Businesses", it shows that the number of SMEs reached a record high in 2012, numbering 1,306,729 or 97.67% of the total. Compared to the growth rate of 0.04% in 2011, the sales volume (\$11 trillion 38.18 billion) grew by 1.37%. Obviously, SMEs still have the courage to take on challenges despite the adversity and continue to adhere to the spirit of "fall seven times, stand up eight" and work hard in Taiwan.

In order to encourage SMEs to be actively involved in innovation and R&D work, the "Taiwan SMEs Innovation Awards" selection and awarding activities have undergone planning since 1993. For the total of 3,473 entries have filed applications, of which 712 outstanding entries have been awarded, making them the glorious benchmark for SMEs. The entries for selection this year fall under five categories: "information and electronics", "machinery and automation", "materials and biotechnology", "services", and "comprehensive", a total of 116 entries for selection. Through professional and rigorous reviews by the jurors throughout the stages, 29 companies received the honourable awards. The award winners have demonstrated excellent performance in both the technical and practical aspects, and they have fully demonstrated R&D capabilities and value creation in various fields expected of SMEs.

"Innovation" and "R&D" have always been the foundation for economic growth and have been important indicators for the upgrade and development of SMEs. Although SMEs are no comparison to large companies in terms of scale, capital, equipment, and company makeup, they insist on independently engaging in R&D and relentless innovate. They deserve every credit for the specific performance achieved. Let me congratulate the winning companies this year. I look forward to seeing the SMEs flexibly grasp the global industry trends and adhere to the corporate philosophy in order to continue to innovate and engage in research and develop. The Small and Medium Administration Ministry of Economic Affairs shall continue to promote various guidance measures and policies, assist SMEs in achieving upgrades, transformation, and accelerated R&D momentum. Resources will also be allocated for R&D innovation, strengthening of quality, and technical innovation, thus assisting SMEs in improving competitiveness in order to gain a foothold in Taiwan and engage in global layout.



Director General
Small and Medium Enterprise Administration,
Ministry of Economic Affairs
NOV. 22, 2013



一芝軒企業有限公司

I Chih Shivan Enterprise Co., Ltd.



簡介

ICS M1 葛蘭特半自動玩具步槍為生存遊戲市場上少數值得典藏的槍款，復古典雅的造型外觀，極為符合擬真槍的像真度，並參考真槍作動的方式，槍機可旋轉作動、覆位、擊發，單發射擊控制裝置，採金屬槍身並以整塊木頭採時製作的木質槍托與護木，木質表面調色與上亞麻仁油後，質感極佳也符合真槍與人體工學，玩家可視自己需求自行再做舊化處理，以達到時代歷史感之象徵要求。搭配靜音彈匣 42 發雙排 BB 彈，彈匣不會有發出碰撞聲響，能做出遊戲中最佳的掩護，在極小的空間發揮出最大的 BB 彈容量，滿足玩家下場使用簡化裝備的需求，以達到遊戲間能處於控制優勢的局面。

評語

- 本標的為仿二次大戰之知名步槍 (M1 步槍)，改良為電動式 (FET 電子開關) 及採原木直接加工雕製，外型極其相似，具「故事行銷」之創意概念又具技術實用性 (如採高容量雙排彈匣，子彈裝填 42 發，遠多於真槍之 8 發，有助於提高遊戲戰之操作效率。
- 本標的為遊戲作戰槍，在組裝結構與製作精度上突破不少技術瓶頸，具創新應用性，為全球首創優質產品，極具銷售潛力；此外，因仿自名槍「M1」(如電影「搶救雷恩大兵」所使用)，故甚具收藏性。
- 本標的目前在國內外銷售情況良好。

Introduction

ICS M1 Garand is a classic semi-auto rifle with quality simulation, which included the simulated functions, made by one piece real wood, and the CNC process of real M1. Linseed oil is recommended for maintain the real wood stock which has the unique wood grain and ready to further customizations to achieve the original spirits of M1. The 42 rounds Low-cap magazine could satisfy and simplify the users' needs and provide the best performance in battlefield.

Commentary

- The subject is a M1 Garand replica, a famous US rifle used in WWII. The product is electrically driven (FET switch) and has a directly carved solid wood stock, with an overall appearance like a real M1 Garand. With creative ideas in "storytelling marketing" and technical practicality (double clip design with 42 rounds, 8 more than a real one) enhances operability in war games.
- The subject is a game rifle with great numbers of breakthroughs in assembly structure and manufacture accuracy; innovative and practical; the world's first quality product with great export potential. It is highly collectable as it is a M1 Garand replica (as seen in Saving Private Ryan).
- The subject has great sales both at home and abroad.

M1葛蘭特半自動玩具步槍
M1 GARAND

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三力印刷企業股份有限公司

Sunlea Label Printing Co., Ltd.

簡介

數位收縮膜因屬無版印刷，故有即需即印及依需印刷之時效及產品成本優勢，不僅印刷套印準確度百分之百及具色彩銳利度，同時擁有防偽流水序號的品質特性，故市場運用於微型創業、新品開發打樣、客製化商品及各項文創產品的應用，舉凡婚禮及各式慶賀紀念相關贈品，皆為應用範圍。

評語

- 本標的特點為使用特殊表面處理（油墨牢附），不須製版、減少污染、縮短工期（僅需傳統印刷之 1/4 天數），且印刷套色準確度高；又因製程中無重金屬液產生，故具對環境之友善性。
- 本標的核心優勢在於塗布液的改良及印製參數的設定，且國內目前尚無競爭者，極具市場拓展潛力。
- 本標的目前在國內外銷售情況佳。

Introduction

Non-Plate printing of shrink film production benefit for on-demand service, customized product needs and bring lower-cost advantage to customer, as well as providing an accuratel color printing while using several overlayad images and high contrast and resolution printing quality, furthermore, anti-counterfeit protection by serial number. In view of this, the application is wide-spreading on micro-entrepreneurs, new products launch, customized and innovated products, the most classical example like “wedding wine and all kind of souvenirs for special holidays.

Commentary

- Special surface treatment (ink fastness) is the feature of this subject. It does not need plate making, reduces pollution, shortens lead-time (only 1/4 time of traditional printing), and ensures high chromatic accuracy. It is eco-friendly because it contains no heavy metal liquid.
- Coating liquid improvement and printing parameter setup are the core strengths of the subject. It is extremely potential as there is no rival in Taiwan at the moment.
- The subject has great sales both at home and abroad.



數位收縮膜
SHRINK SLEEVE

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上飛數位科技有限公司

Image Nine Digitech Corporation

簡介

目前市場上利用全景〔 Panorama 〕 VR 的技術且使用在賣房子的網站只有信義房屋，但它是由專人使用單眼相機拍攝，採人工製作，銷售一間房屋所需的 VR，從拍攝一直到出現在網路上約需 7 天。成本高昂且交件慢。本網站將 VR 拍攝的設備及流程標準化，並透過“雲端運算”只需由房仲使用數位相機不需任何專業技巧，拍攝後再上傳圖片，透過雲端計算，可以縮短作業時間 2~3 分鐘。再加上物件資料的輸入可以在一個小時內呈現在網路的世界。該網站是全國唯一全虛擬實境看屋的房仲聯賣網，目前已有多家合作的房仲業者。

評語

- 本標的提供簡單的 AR 內容製作方式，並提供仲介者一個跨公司的揭露平台，使購屋者有全仲介業相關資訊閱覽的機會。
- 本標的製成成本低，揭露平台收費亦合理，具競爭力。

Introduction

Currently there is only one real state brokerage company which fully adopts VR browsing on its website in Taiwan. However, the method taken by the company is to setup an unique division of some forty skilled engineers who serve no other function but to manually produce VR medias for all of its clients' properties. The cost is high and the average time to post a new VR on its website is 7 days (from shooting to postproduction).

720 VR House is a website which is embedded with Image nine's unique VR DIY technology, which allows its users, the real estate agents to conduct simple photo shootings with gadget provided by the company and easily upload those photos onto the cloud server (also known as Automatic VR Production Platform). It only takes 2~3 minutes for the property to appear on the website in VR formation.

720VR House is the only third party real estate website in Taiwan which 100% adopts VR browsing on all properties listed on it and is also collaborating with several major real estate brokerage companies to promote the applications of virtual reality in this industry.

Commentary

- The subject provides a simple AR content production method and an inter-company disclosure platform for agents for homebuyers to browse related information of different agents.
- The subject presents a low-cost AR content production method and a disclosure platform with a reasonable service fee, making it very competitive.



全國唯一全虛擬實境
(PanoramaVR)互動看屋的
房仲聯賣網
An unique real estate
website which brings
viewers sensational
experience in interactive
browsing with virtual reality.

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大愛感恩科技股份有限公司

DA.AI Technology Co., Ltd.



簡介

100% 使用回收寶特瓶製成之無染環保再生毛毯，由 68 支回收寶特瓶製成，織品純淨輕柔、溫暖舒適、易洗快乾、水洗不褪色。除了榮獲德國萊因「水足跡以及碳足跡雙認證」、日本環保標章，以及綠色典範產品獎之外，再度通過環保署碳足跡認證，評選為碳足跡標籤示範案例。有感市面上「搖籃到墳墓」的工業模式，大愛感恩科技以別具意義的灰色環保毛毯作為「搖籃到搖籃®」的第一個標的物和第一步，更於去年榮獲亞洲紡織業中第一張「搖籃到搖籃^{CM}」銀級認證；也是「慈濟賑災環保毛毯」，至今已透過慈濟志工慈愛的雙手將溫暖遞送近 30 個國家。

評語

- 本標的以回收寶特瓶（1 號）製成回收聚酯粒及大愛環保紗，再製成「再生環保毛毯」。
- 具獨特回收平台（20 萬環保菩薩）及再生環保回收體系（50 家合作夥伴），製程 100% 回收聚酯材質，具低汙染省能源特色，以社會公益企業為理念，該公司已於 2011、2012 獲「台灣綠色典範獎」。
- 本標的「搖籃到搖籃」之零廢回收體系已通過美國及日本認證（主要以檢測生物可分解及回收體系），回收製程富創新性。

Introduction

DA.AI Grey Eco Blanket is an environmentally friendly product derived from dope dyed 100% recycled polyester yarn. Its color originates from the addition of color chips in the process of spinning instead of traditional dyeing process. Each is made from 68 recycled water/tea PET bottles and its eco-friendly nature was awarded Cradle-to-Cradle Silver Certified^{CM}, a first for a textile company in Asia. The recycled PET bottles used as the raw materials are collected, classified and cleaned by Tzu Chi Foundation's volunteers. The blankets are widely used for global disaster relief mission by the Tzu Chi Foundation. As of 2012, Tzu Chi volunteers worldwide have delivered the blankets to nearly 30 countries. By combining the love and dedication of recycling volunteers and the advanced textile technology, DA.AI Grey Eco Blanket is considered a global "green" role model.

Commentary

- This subject is a "recycled eco blanket" made with polyester derived recycled from PET (1) bottles and DA.AI eco yarns.
- With special recycling platforms (200,000 recycling volunteers) and recycling systems (50 partners), DA.AI Technology ensures 100% polyester recycling to minimize pollution and reduce energy consumption for the best interest of the public. DA.AI Technology won the Taiwan Green Classics Awards in 2011 and 2012.
- The zero-waste recycling system, From Cradle to Cradle, of this subject has passed US and Japanese certification (emphasizing on biodegradability and recycling system). The recycling process is innovative.

大愛感恩灰色環保毛毯 DA.AI Grey Eco Blanket

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宇萌數位科技股份有限公司

ARPlanet Digital Technology Co., Ltd.

簡介

「marq」是全台首創兼具客製化與平台化的 AR 擴增實境 APP 互動遊戲平台，結合了 AR 擴增實境與 QR 技術（宇萌獨家取得研發專利），互動內容具備深度客製化並具備高度遊戲性，專為品牌與企業量身訂做 APP 隨身服務互動內容。此平台以 AR 擴增實境技術為主要開發核心，結合創意互動設計，能將品牌精神、產品特性、活動主題等發揮最佳互動效果，並能將互動內容實際轉換為銷售與帶來業績，是行銷爆發力十足的互動內容產品。marq 訴求「抬起頭，讓整個世界與視界都變成你的 APP!」，目前已經與許多品牌與知名企業合作，如 Playboy 英倫假期、台灣競舞娛樂、普立茲攝影展、博士達家外媒體集團、威秀影城、921 環保演唱會、superhero 蛋頭先生全省巡迴展、京站百貨等，打造各式各樣超吸睛之互動行銷內容。

評語

- 本標的除整合 AR 技術與 QR Code 技術外，並納入即時運算技術、iOS/Android 作業系統及 3D 互動整合性與高度遊戲性。
- 本標的可視為平台式的創新服務加速器，容易擴散，產生規模經濟效益，目前該平台已有多件應用案例，總銷售情況良好，已進入擴散階段。
- 本標的促成異業通路與商品結合，有效應用「以創新的客戶體驗模式，開創新的服務與營運模式」。強調人機互動的 3D 整合與趣味性，易於促成多元化應用。

Introduction

"marq" is an augmented reality business and interactive gaming APP platform with highly customized function. marq is AR tracking-oriented, but also a QR code scanner. It breaks the behavior of "bow head" and emphasize on "Raised your head, the whole world becomes your APPs". marq is a product in AR interactive media can fully support lots of brands and events in AR gaming, coupon gathering, poster collection, movie trailer, social networking, LBS multiple-function. There are lots of brands cooperate with marq to create amazing creation and interactive events such as playboy, Garena online, the Pulitzer prize photographs, Posterscope media group, vieshow movie, 921 concert, Playskool superhero toy show and Qsquare.

Commentary

- Besides integrating Augmented Reality Business with QR Code scanner, the subject supports real-time computing and iOS and Android, and includes 3D interactive integration and gaming.
- The subject can be considered as a platform-based innovative service accelerator that easily spreads a service to generate the efficiency of economies of scale. The platform has a lot of successful cases with good sales and good diffusion.
- The subject promotes the horizontal integration of channels and products to effectively demonstrate the "innovative customer experience for innovative service and operation models". The emphasis on interactive 3D integration with fun can easily promote application diversification.



marq - AR擴增實境商業暨互動遊戲APP平台
marq - Augmented Reality Business and Interactive Gaming APP Platform

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西螺大同醬油企業股份有限公司

Siluo TaTung Soy Sauce. Co., Ltd.

簡介

本產品採用傳統黑豆釀製法，在調配過程中加入蜆粉，並提升其風味，雖然研究的過程中遇過許多技術上的困難，然而大同醬油是全世界研究出「蜆醬油」的第一家公司，也是全世界目前唯一的此類商品。蜆醬油的最大特色，就是它的營養豐富，並且蜆醬油保有黑豆的原味甘甜，並且可廣泛運用在沾、煮、滷、炒調味上。特別在調味海鮮料理，不僅能提升料理風味，更能襯出海鮮的鮮甜口感。

評語

- 本標的係以花蓮壽豐鄉之黃金蜆粉，融合源自黑豆原汁之白醬油，產品特點在於可以同時保留黑豆的香醇和蜆粉的鮮味，創造可接受之高價值產品。
- 創新處包括：(1) 特有風味的建立 - 該公司利用壓力、溫度、時間配合殺菌、調煮、調配共 9 個技術參數，建立特有的技術 know-how，讓顏色不會加深，同時保留風味，透過適當加熱後胺基酸的釋放，這個技術同時也讓兩種味道相輔相成；(2) 腥味、油膩感和沉澱問題的解決 - 利用配方技術，解決腥味和油膩感，經過多種過濾材料和方法的測試，最後在製程中導入矽藻土，並改變製程，創造出口感、味覺、視覺及成本皆可接受的創新產品。
- 本標的係國際上首見的創新產品，可提升醬油產品之附加價值。

Introduction

This product uses the traditional method of brewing black soy beans, adding clams in the deployment process to enhance its flavor. Ta-Tung had overcome various of difficulty to mix clam and soy sauce into complementary. Clam sauce's most prominent feature is its nutrient-rich to human, and also clam sauce can retain the flavor of black soy beans sauce. This product and can be widely used in the dip, boiled, stewed, fried and seasoning. Seafood seasoning in particular recommends, beside to enhance foods flavor, also to bring out the mouthful richness of sweet taste of seafood.

Commentary

- The subject is a white soy sauce made with the golden clam powder of Shoufeng Township in Hualien with natural black bean soy sauce. The combination of the natural flavor of black soy sauce and the seafood flavor of clam powder are the main features of the product, which is an acceptable high-value product.
- The innovation of this subject includes: (1) Formulation of a special flavor: Develop special know-how with 9 technical parameters: pressure, temperature, sterilization time, cooking, mixing, and so on, to prevent color from darkening and maintain product original flavors; and release amino acids at appropriate temperature to blend both tastes together thereby create a new flavor; (2) Solution of seafood odor, greasy feeling, and sedimentation: Special formulation techniques are used to remove seafood odor and greasy feeling; after trying with different filtering materials and methods, diatomaceous earth is implemented to the process modified to make this innovative product that is acceptable in terms of taste, vision, and cost.
- This innovative soy sauce is the first of its kind in the world and can increase the added value of soy sauce products.



蜆醬油
Clam Soy sauce

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伯馬企業有限公司

Perma Enterprise Co., Ltd.

簡介

特性：

- 抗污，耐候，耐震，防水，防漏，不污染石板材
- 彈性體，不龜裂，不收縮，耐寒，耐熱
- 室內外皆適用，固化後可上漆塗裝
- 自主研发技術，可依客製化需求，調整特性及顏色

認證通過：

- CNS 建築用密封材料耐久性測試
- 中央標準局 CNS8903 & 8904 不污染及耐臭氣性測試、ASTM C124-93 耐污染測試、ASTM D5116-97 TVOC 不含甲醛及氰化物測試
- SGS、ROHS、無鹵檢測、體積阻抗、食品容器等安全檢測

功能與用途：

- 外牆石材、瓷磚接著
- 石材板片、金屬包板、烤漆板之填縫 / 密封及窗框塞水路
- 車船內外填縫，木質地板鋪貼 / 黏著
- 屋頂、地下室、外壁、連續壁、水坑、衛浴等防水塗層 / 填縫
- 光電工業接著 / 填縫

評語

- 本標的為複雜配方產品。除了不吐油，不會吸附空氣中灰塵之抗污性外，透光度、加工性、產品之保存性、耐候性和撥水性等性能皆佳，因此其售價雖比知名品牌高，仍有不錯之銷售實績。
- 本標的可提供客製化，提供六種顏色（灰、黑、白、淺灰、咖啡、透明）之選擇。
- 本標的符合 CNS、ASTM 及 RoHs 等標準，並通過 SGS 各項填縫材認證，並於 101 年獲國家建築金質獎，是外牆填縫膠，唯一一家通過綠建材標章者。

Introduction

Features:

- Special stain resistance formulation effectively reduces dirt migration that cause staining and streaking on substrates.
- Flexible. Do not shrink or crack. Waterproof and weatherproof.
- Interior and exterior use.
- Self- developed technology. Manufacture customized features and colors upon request.

Approvals:

- CNS Building Sealants Weatherability Test
- CNS 8903 & 8904 test. ASTM C124-93 Non-staining test. ASTM D5116-97 TVOC and non-formaldehyde and isocyanine.
- SGS, RoHS and Halogen Free Approvals. Volume Resistance Test. Food Container Safety Test approved.

Applications:

- Sealing and caulking stone and tile joints.
- Sealing and adhering ALC, aluminum panel and window profile.
- Automobile and marine vehicle sealing. Wooden floor adhering and sealing.
- Waterproof coating and membrane for rooftop, basement, water pit, consecutive wall.
- Electric and industrial parts adhering and sealing.

Commentary

- The subject is a product with complex formulation. Besides being oil absorbent, dustproof, and dirt resistant, the product has high transmission rate, workability, storability, weather resistance, and water repellency. Although it is more expensive than leading brands, sales are good.
- Customizable with six color options (grey, black, white, pale grey, brown, and transparent).
- The subject complies with CNS, ASTM, and RoHS; passes SGS sealant certification; and won the National Golden Award for Architecture.



變性矽酮填縫密封膠
(魔矽MS)
Modified Silicone

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宏泰工業有限公司

Horng Tair Industrial Co., Ltd.

簡介

本產品應用可調節塑料流量之注料裝置，在模頭 A 層注料管的第一歧管及第三歧管分別設有流量控制閥，可以調節內、外層塑料的流量，控制內、外層膜的厚度，塑膠膜之厚薄度較一致，誤差 7% 以內。
在 B(中間) 層可以使用再生料，加入碳酸鈣，其粘合性、印刷性、強度絲毫不受影響，冷卻更快、產量更高，因為改善三個流道的設計而減少壓損，使得薄膜厚度更均勻，達到節能省碳，降低成本目的。
本產品有效控制膜厚均勻度，節省 3% 塑料損耗，吹製的塑膠膜呈現三層塑料的層狀分布，具有各種塑料特性，增進三層薄膜的功能。

評語

- 本標的為薄膜壓出機最重要的模組，在機構設計上運用可調節流量的注料裝置以調節內外層流道的塑料流量大小，增進塑膠膜的特性與功能，及獨特的螺旋流道設計，產生更均勻的薄膜厚度，深具創新性。已獲多件專利並獲台灣精品獎及國際發明獎金牌等榮譽。
- 本標的創新設計使膜厚均勻度較一致，也可減少薄膜厚度調整的時間，減低客戶生產換料時原料的損耗及電力成本，深具實用性。
- 本標的可快速回應客戶需求且完全國內自製，掌握專業及成本優勢，銷售情況佳。

Introduction

Our product applies the feeding material mechanism with A layer connected 1st and 3rd branch pipe which respectively set up material flow control valve, controlled plastic material flow volume to feed into flow channel respectively between inner and outer layer, so that the film thickness is more consistent, difference tolerance below 7%.

Recycled materials can be used in the B layer, and adding CaCo₃ won't impact its adhesiveness, printability, strength, could cool faster and higher yields, because we improved 3 flow channels design, reducing pressure loss, making film thickness uniform, saving energy and material costs.

This product can adjust the plastic flow to control the uniformity of film thickness effectively, and can be reduced to 3% of plastic consumption. The plastic film also has a variety of different characteristics to enhance the function of the three layer film.

Commentary

- The subject is the most important module of the blown film machine. In terms of structure, the adjustable feeder flow design can adjust the flow of plastic materials in the inner and outer runners to optimize the property and function of plastic films. The unique spiral runner design that ensures even film thickness is highly innovative. The subject has been awarded numbers of patents and won the Taiwan Excellence Award and International Invention Gold Medal.
- The innovative design of this subject ensures consistent film thickness to reduce film thickness adjustment time, and thereby helps customers to reduce material consumption and electricity consumption, making it highly practically.
- This subject can quickly respond to the customer demands and is completely made in Taiwan to control expertise and cost. The sales are good.



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3 Layer ABA Die Head

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宜得世股份有限公司

Edex Technology Co., Ltd.

簡介

宜得世 VTOP 精密立式柱塞式射出機，是以高精密和微射出兩項特色所開發的高性能精密立式射出機，充分掌握精密微射出的特性需求，以精確的四缸直壓式鎖模機構、完美的塑料混煉設計加上輔助進料系統、精準的柱塞式射出機構及機電整合，可以順利生產 1/10000g 等級的高精密微射出產品。節能的伺服油電動力系統、高力學剛性的模板及機台結構，配合三合一的滑板設計泛用性高，並達到世界最大模板空間，而且機台及操作模板的高度都是世界最低的目標，使用專利達十多項，搭配 15 吋觸控式電腦、氣冷式動力冷卻系統，是一部世界最高等級的精密立式微射出機。

評語

- 本標的以可更換式柱塞射出系統的創新技術搭配主動式旁路進料輔助裝置，提高射出精準度及塑料混合均勻度進而達到最精密的射出效果，可生產 0.001 ~ 0.0001g 重量等級的精微產品。
- 本標的在產品設計的專利布局相當嚴密，運用數件創新專利技術。
- 本標的以模組化的概念設計，大量使用共用元件，除可降低成本外，也可減少庫存，產品深具競爭力，銷售情況良好。

Introduction

Edex's new series "VTOP Precise Vertical Plunger Type Injection Molding Machine" designed with precision and micro injection concept. With 4-cylinder direct clamping system, perfect plasticization with active bypass auxiliary plasticization system, precise plunger injection mechanism and machine-electricity unite, it can produce 0.0001 gram highly precise products stably. Both of Energy-saving servo motor system and high-mechanics clamping unit with firm machine structure can go with 3-in-1 modular slide table design to meet the best uses. Other features such as 15" full-color touch panel, air cooling system, the max mold daylight in the world, all the features had made VTOP series as one of the high-ranking vertical micro injection molding machines in the world.

Commentary

- The subject combines the interchangeable plunger injection system (IPIS) with the innovative active bypass feeding device to enhance injection precision and plastic material uniformity and thereby ensure perfect injection effect with precision up to 0.001-0.0001g for producing micro-meso products.
- The subject has a well-laid patent plan for product design, and numbers of innovative patented technologies have been used.
- The subject adopts the modular design to use a large quantity of shard parts to reduce cost and lower stock, making it more competitive. In fact, the sales are good.



VTOP 精密立式柱塞式射出機
VTOP Precise Vertical Plunger
Type Injection Molding Machine

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芮寶生醫股份有限公司

RBC Bioscience Corporation

簡介

本產品為一套全自動核酸萃取系統，並導入光學檢測模組，用以偵測核酸產率和核酸濃度，使用者不必再以人工方式進行轉置，亦不會造成任何核酸產物的浪費。

本產品的開發除了增加使用者的方便性外，還加入「單一檢體單一試劑卡」的全自動化專利設計，此設計可以讓使用者在操作過程中不需多次的接觸病患檢體，並降低使用者被檢體感染的風險和操作時的交叉汙染，再搭配已獲得專利的「核酸磁珠附著液」同時可提高核酸萃取的精確性。

評語

- 本標的為國內生產之第一套全自動化 (ALL-IN-ONE) 核酸檢測儀器，結合國內電子、光學、機械產業優勢，充分運用於分子生物檢測。系統全自動化無汙染，並以紫外線滅菌，配合辨識條碼裝置處理複雜多樣化的檢體，可精確迅速檢測病毒引起之各種疾病。
- 本標的在試劑耗材和儀器上皆有創新。在核酸萃取套組設計上，運用專利保護之奈米磁性粒子萃取分離核酸 (DNA/RNA) 與特殊精準分離井 (耗材) 設計，加上一體式反應匣設計，並導入光子檢驗模組，有國際市場競爭優勢。
- 本標的銷售情況良好，其中 3/4 外銷，已具挑戰國際知名大廠市占率的能力。

Introduction

MagCore® Super is a fully automated nucleic acid extraction system with an optical inspection module for detecting the concentration and yield of nucleic acid, users no longer have to manually transpose, and will not cause any nucleic acid product losses.

MagCore® Super greatly enhance the convenience in use, and add a "one specimen - one cartridge" automatic patented design, which make operators to avoid repeated contact with patient specimens during detection process, reducing infected risks by specimens and cross-contamination in the operation. Furthermore, our patented magnetic beads system enhancing the accuracy of nucleic acid extraction.

Commentary

- The subject is Taiwan's first set of all-in-one nucleic acid extractor integrating the advantages of Taiwan's electronics, optical, and mechanical industries to comprehensively use in molecular diagnosis. The system is fully automatic, contains no pollution, and uses ultraviolet germicidal irradiation. Along with the barcode system for identifying comprehensive specimens, the system can efficiently diagnose different kinds of diseases caused by viruses.
- The subject has made innovation in both reagent consumption and instrumental design. The viral nucleic acid extraction kit extracts nucleic acids (DNA/RNA) with the patented nano magnetic particle and special separation well (consumable) in a unitary reaction cartridge design combined with the photon testing module, making the nucleic acid extractor internationally competitive.
- The sales of the subject are good. As export accounts for 3/4 of the company's sales, this suggests that the subject is ready for challenging the market share of world-leading brands.



新型自動化核酸萃取定量儀
MagCore® Super

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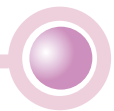
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第20屆 中小企業創新研究獎

哈瑪星科技股份有限公司 Hamastar Technology Co., Ltd.

簡介

哈瑪星科技自行研發跨平台無紙化會議管理系統 (MeetingHub)，因應行動科技與環保趨勢，破除以往需要大量紙本文件開會的會議模式，與會人員只要攜帶智慧型行動裝置，便可下載透過線上自動轉製機制轉換的電子會議資料進行觀看與批註。不論與會者是使用 iOS、Android 或 Windows 系統之行動裝置，透過跨平台同步技術，下載 APP 應用程式便可進行畫面同步會議之應用。本系統可於平台有效控管會議文件，會議註記也可永久儲存，大幅節省會議過程中需耗費的大量印刷成本、提升人員節能環保意識。提供無紙化會議最佳解決方案，達到不同於傳統的雙向溝通，提升整體會議進行效率。

評語

- 本標的提供異地參與會議者，使用各種行動裝置上之簡報資料，會議進行中可與報告者同步的功能，在會議文件上可新增註記，亦有簽到及會議文件浮水印等特殊功能。
- 本標的創新及具競爭優勢之處為有效提升會議效率及優化資源使用，並提供會議文件安全控管機制。
- 本標的已申請專利，並已有銷售實績。

Introduction

MeetingHub Cross-Platform Paperless Conference System provides an all-aspect online meeting management mechanism. Participants can upload meeting related documents (PDF, PPT, Word and various formats) and download it through the cloud platform by various smart devices. Throughout the conference process, the speaker can synchronize screens of all participants to show the same progress as the speaker. In additional, participants can add footnotes and comments directly on the meeting related documents and share them with others. Creating a more flexible and interactive conference method. MeetingHub not only improves your conference efficiency, but also decreases the waste on paper resource, creating a more Eco-friendly environment.

Commentary

- The subject provides a solution for remote participants of a meeting to use presentation data from mobile devices, including synchronization with the presenter, marking meeting documents, signing in, and adding watermarks.
- The innovation and competitive strength of the subject can effectively enhance meeting efficiency, optimize resource sharing, and provide a great meeting document control mechanism.
- The patent of the subject is pending, and sales are great.



跨平台無紙化會議管理系統 MeetingHub

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奎貝克有限公司

Qbicle Inc.

簡介

第六代人波切極簡的外觀及尺寸，打破自行車擋泥板百年傳統。幾乎與輪胎浮貼的組合，彷彿未來車的配備，卻在今日實現。可調整的滑軌式機構，加上簡易DIY組裝；搭配各車系產品特性的擋片背面特殊花紋，內嵌排水裝置，若隱若現之間創造出高效率的擋水功能！第六代人波切擋泥板正演繹著新功能與現代簡約精神的設計美學。MIT穩定的品質不僅深獲國外買家信賴，已銷售至15個國家，更獲得2013 iF產品設計金質獎肯定。

評語

- 本標的創新要點在於「人字型」導水設計，能有效分散水流，其單臂式調整機構，組裝方便並易於調整。
- 本標的呈精巧、實用特性，已獲德國 iF 金質獎、金點設計獎、Taipei Cycle 設計創新獎等多類獎項肯定。
- 本標的已獲多項專利（含美國發明專利），國內外銷售情況佳。

Introduction

Qbicle Tangent fenders believe in the modernist ideology that form and function are intertwined in design. Style and performance are not mutually exclusive, and Qbicle Tangent fenders are here to prove it!

With an interest and a pro engineering base on innovations, Qbicle Tangent fenders aim at a new solution that is an easy-to-install, multi-assembly onto different bike dropouts by mounting brackets with sliding modular, and equips a smoky black fender flap with patented inner gliding for top performance of anti-splashing. More than 15 patents and various international awards including 2013 iF Gold of Product Design.

2013 iF Jury statement for this Gold Award winner- Qbicle Tangent Fenders.

"This product reminds the design community of the issue of conservation of materials and of the essence of the design problem. I was taken with the beautiful form and the finish of the material. The designer's intent and the manufacturer's intent in the product display an understanding of the design objectives."

Qbicle Inc. aims to launch an innovative mobility product and to redefine every cycling gear on function and form since 2009 from a quirky Eco Trolley to an unprecedented Tangent fender which is awarded the 2013 iF Gold of Product Design over 4352 worldwide entries. Qbicle Inc. strives to constantly contribute to a better cycling world through product innovation and value-up on functionality and form from a new concept rooted. Tangent fender comes to demonstrate it.

Commentary

- The inverted V-shape water guide design to effectively divert water flow is the innovative point of the subject. The single-arm adjustment mechanism makes it easy to assemble and adjust.
- The subject is compact and practical and has won the iF Gold, Golden Pin Design Awards, Taipei Cycle Design Award, and so on.
- The subject has been awarded numbers of patents (including US invention patents), and global sales are good.



第六代人波切擋泥板
Tangent Fenders (VI)

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第20屆 中小企業創新研究獎

高鐵工業股份有限公司

King Rack Industrial Co., Ltd.

簡介

高鐵工業提供了消費者一個最佳的選擇-博智銳運動家自行車攜車架系列。了解消費者的需求，所以不斷研發。不管是需要搭載專業的車種，或是一般的自行車、淑女車及童車。平日運輸方便、假日出遊無憂。其功能性和實用性的表現更是無可挑剔，快速夾持系統，快速折疊系統，快速可傾系統，快速固定系統，清楚明亮的大型燈具，15秒內能快速安裝完成，本產品設計目標，就是帶給使用者最大的便利性。

評語

- 本標的主要特色在於設計符合 ISO50mm 拖車球規格之機構，使本產品可以搭配市售車輛的各式拖車球，且應用自行研發之攜車架夾持固定結構、快速摺疊系統、快速可傾系統等創新設計，使攜車架在 15 秒內可以安全、快速安裝完成，使用極為方便，已獲國內外多件專利。
- 開發過程中，一直以安全性及產品品質為首要考慮，已通過德國 TUV 標準試驗室測試，符合歐洲 XPR 189044 和 ISO15263400 的國際安全規範。
- 本標的設計相當具人性化，價格也相對較低，已為國外廠商採用，銷售情況佳。

Introduction

BUZZRUNNER is designed to safely carry up to 3 bikes on any ISO 50 mm tow ball using our patented locking cam lever system. All clamping devices are locking, strong and secure. Wheels are attached using nylon ratchet straps. The new folding lights make the product easy to store. The tilt function is accessed at the front of the carrier and tilts far enough for use on vehicles with vertical tailgates.

Commentary

- The subject is an ISO-compliant 50mm hitch ball mechanism for use on different types of vehicle hitch balls on the market. With the independently developed carrier fixing structure, quick folding system, and quick sliding system, users can safely and quickly assemble the carrier within 15 seconds. This convenient bike carrier has been awarded numbers of patents at home and abroad.
- Safety and quality have been the prime concerns during product development. The product has passed the TUV test to comply with the EU XPR 189044 and ISO15263400 international safety standard.
- As the design of the subject is quite friendly and the price is relatively lower, it has been used by overseas automakers, and the sales are good.



博智銳運動家自行車攜車架 Buzz Rack Buzzrunner Bike Rack

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紳益輪車業有限公司

Shen Yi Luen Wheel Co., Ltd.

簡介

「專利不同步三摺式 - 春風協力車」改善一般的協力車體積太大、不能摺疊、非不同步及無多段變速的缺點。「不同步設計」讓前後騎者不會因一方停止踩踏而互相妨礙，進而達到助力與省力的效果。「三摺式設計」操作簡單及體積小，一般轎車的後車廂可以放進 1-2 台；更有專用攜車袋，方便搭乘大眾交通運輸工具。「多段變速系統」讓騎者可依地形、風阻、體力調整變速，騎乘更省力。且調鏈器可自行調整鏈條鬆緊，鏈條不會掉鏈，騎乘更順暢。車架符合人體工學設計，易操控，不甩尾，騎乘穩定性更高。本產品讓不會騎自行車的人，也可以一同分享騎車的樂趣。

評語

- 本標的主要是藉由結構改良克服傳統協力車須同步踩踏之缺點，使得前後騎者不會因單方停止踩踏而互相妨礙，讓協力車變得更方便、更和諧、更省力。
- 整體創新特色計六大項，包括：三摺式摺疊設計，以最小體積 (88cm*30cm*88cm) 方便攜帶或運送，多段變速，省力設計，穩定性高，易操控等；此外，造型亦呈簡潔、雅緻，具價值感。
- 本標的已通過歐盟安規測試，重要零組件皆為自產或國產，此有利於國內供應鏈之建立，具永續經營之未來性。

Introduction

"Non-Synchromesh and tri-folded type of patent for tandem bicycle" improve fans of tandem bicycle too bulky, can not be folded, synchromesh and no speed shortcomings. "Non-synchromesh design" will not allow a party before the rider stops pedaling and interfere with each other, and thus help with the effort to achieve the effect. "Fold design" Simple operation and folded size smaller, general car rear compartment can be put into 1-2 sets; also dedicated portable cart with bag, convenient to take public transport. "Multi-stage transmission system" allows the rider according terrain, wind resistance, physical adjustment speed, riding more effort. And the chain tensioner can be adjusted by adjusting chain tension chain transfer, to prevent chain skip, ride more smoothly. Frame ergonomic design, easy to manipulate, do not drift, more stable ride. This product provide funny of cycling even the one who not well-known biking.

Commentary

- The subject overcomes the synchronous pedaling problem of traditional tandems by means of structure improvement, so that one cyclist can stop pedaling without disturbing the other cyclist, making tandems more convenient, harmonious and easy to use.
- The overall innovation includes six items: tri-fold folding design, the smallest dimensions (88cm*30cm*88cm) for carrying or transportation; multi-speed; save effort; high stability; and easy to control. The appearance design is clean and elegant and brings a sense of value.
- The subject has passed EU safety test. Major parts and components are made in Taiwan to facilitate domestic supply chain development and ensure sustainable operations in the future.



專利不同步三摺式-春風協力車 (24段變速)
 Non-Synchromesh And Tri-Folded Type
 Of Patent For Tandem Bicycle With
 24-Speed.

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連穎科技股份有限公司 LearningTech Corp.

簡介

「WEBPAT- 全球專利資訊網」首創國內建置台灣、美國、歐盟、大陸、日本、全球 (WO) 等專利資料庫之整合應用平台，提供各式人性化「專利檢索」、「全文影像下載」、「統計分析」及「加值服務」等功能服務網站。讓專利工作者在 WEBPAT 簡單易用的介面引導下，快速查找、下載各國重要專利資料，進行專利資料之即時統計、分析，掌握全球技術脈絡，顛覆以往查找專利困難重重之刻板印象，加速專利工作事半功倍的成效，提升國內專利資訊應用的普及性，活絡產業技術研發之創新能量。本平台用戶已遍及亞洲各國，包括：台灣、日本、韓國、大陸、新加坡等各地，是目前亞洲最具競爭性的專利檢索資料庫平台。

評語

- 本標的提供國內通用之專利搜尋系統平台，涵蓋世界主要國家專利庫，提供「技術詞庫探勘」、「申請人搜尋」、「專利價值指標評價」、「專利有效性」、「審查歷程」等多項機制。
- 本標的以快速搜尋主要專利功能，並以中、英、日文介面顯示，對國內廠商助益甚大，且具國際競爭力。

Introduction

WEBPAT is a leading global patent database in Taiwan, providing TW,US,EP,CN,JP and WIPO –PCT patents information.

WEBPAT was designed in a user friendly interface and construct complete patent data information functions, such as Patent Search, PDF Download, Patent Statistic and Analysis, and value-added function like Patent Family...etc. It can help patent engineer work more efficiently and lay down a burden of collecting patent information. WEBPAT make patent job easier!

Now, Not only Taiwan's patent workers, but also patent workers in Japan, Korea, China and Singapore are using WEBPAT .It acquired all Asia's patent worker approval and is the most competitive patent search website around Asia.

Commentary

- The subject is a domestic universal patent search system platform covering the patent base of major countries in the world. It provides “technical term mining”, “applicant search”, “patent value index and rating”, “patent validity”, “review process”, and related features.
- The subject provides quick search for major patents in a multilingual interface: Traditional Chinese, English, and Japanese. It is great for domestic manufacturers and the system is internationally competitive.



全球專利資訊網 WEBPAT

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創夏設計有限公司

TreAsia Design Co., Ltd.

簡介

世界首創 270° 彈力無螺絲專利絞鍊設計

1. 全球首創 270° 方形彈力無螺絲腳鍊，可達到 90°、180°、270° 之彈力開合與定位，創造了全新的使用體驗與良好的舒適度、安全性。
2. 擁有彈簧絞鍊之功能，提高了配戴時的舒適度。
3. 簡單的加工，組裝只需 3 個步驟。
4. 模組化設計，可輕易地更換單一零件以繼續使用。
5. 消費者可自行更換鏡腳，改變顏色與造型。
6. 可避免臉部的受傷，如臉部受到衝撞，鏡腳將彈開至 180 度後掉落。
7. 重量僅有 9.0g。
8. 無螺絲、無彈簧、無焊接。
9. 使用 100% 可再回收的不銹鋼材料，從原料取得、製造、使用後拋棄都不造成環境負擔。

評語

- 本標的創新特點在於，方形絞鍊結構，具無螺絲、無彈簧、無焊接之模組化設計；兩側腳架可達 90、180、270 之彈力開合與定位，提高配戴時的舒適度與安全性。
- 整體使用 100% 可再回收的不銹鋼材料（厚度 0.5mm），重量僅 9 公克，組裝只需 3 個步驟。擁有新型專利，並已獲美國 IDEA，日本 G-MARK，德國 IF 及香港 DFA 等國際設計獎肯定。
- 以 ORIGEND 品牌行銷，且進入知名眼鏡販售通路銷售，有潛力發展成為精品眼鏡品牌。

Introduction

1. The world's first invention, screw-free and square hinge, with elastic movements of opening and closing at 90°/180°/270°, creates a whole new experience with safety and better comfort.
2. The function similar to spring hinge is more comfortable upon wearing.
3. Easy manufacturing process and three steps for assembly.
4. By modularity, ORIGEND can replace with component parts easily.
5. Consumers can change color and shape through their own replacement of the feet.
6. Facial injuries can be avoided. The eyeglasses can flex open 180° and fall off when subjected to an impact.
7. Weight only 9.6g
8. Without screws, springs, or welds.
9. Using 100% recyclable stainless materials. ORIGEND reduces the burden on the environment.

Commentary

- The innovation of the subject includes a square hinge structure in a modular design without using screws, springs, and welds of any kind. The stands on both sides open at 90°, 180°, and 270° to make it more comfortable and safer to wear.
- The entire product is made of 100% recycled stainless steel (0.5mm thick) and is only 9 grams. It takes only three steps to assemble, which has been awarded the utility model patent. The subject has also won awards from IDEA of the USA, G-Mark from Japan, iF and RED DOT from Germany, and DFA from Hong Kong.
- Distributed in the brand of ORIGEND on leading spectacle channels, the subject has the potential to become a luxurious eyeglasses brand.



OG-270方型眼鏡結構絞鍊
ORIGEND

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揚大生技有限公司

Yangda Biotech Co., Ltd.

簡介

福釀坊的堅持

堅持最天然的素材。釀出最原始的味道。支持台灣農業，減少碳足跡珍愛大地堅持自篩菌種。100% 自然釀造工序，為消費者釀製最天然健康的養身醋飲。堅持品質產品經由德國杜夫萊茵公司檢驗，為消費者健康作把關。

評語

- 本標的創新特點包括：(1) 自行篩選並優化菌株，以製造「百分之百純釀造醋」；(2) 自行設計結合液態及固態之發酵槽體，並導入饋料批式發酵，優於一般培養法，本裝置可使發酵轉化速度較一般靜置型快速，且又能維持較高的品質與風味，(3) 將薄膜過濾技術導入製程中，解決純釀造醋中蛋白質、醣類及金屬離子交互作用或食醋中微生物等所引起之食醋混濁現象，提高透明度，並保留食醋中醋酸、多酚等營養成分與風味物質，提高產品品質與價值。
- 本標的獲得 2013 年比利時 iTQi 協會 (由 120 位米其林國際主廚組成) 頒發頂級 2 星美味獎章。在包裝上，將文化及創意導入，獲得 2012 德國紅點、2013 德國 IF 包裝設計等獎項。
- 本案標的結合前述之技術創新及包裝設計創新，創造高品質之釀造醋，提升醋飲文化，並與醋產業發展緊密結合，對醋產業的拓展有相當之助益。

Introduction

Fu Niang Fang vinegar promise

-to support Taiwan's agriculture, and reduce carbon footprints and spread the love for the Earth. We devote to select only locally grown, fresh ingredients.
-to always offer a high standard, all-natural gourmet products by following strictly the time-honoured traditional methods and innovative technology with carefully selected bacteria.
-to provide our consumers with high standard vinegars. We are proudly to announce that all Fu Niang Fang Vinegars© are granted TUV Certification.

Commentary

- The innovative features of the subject include: (1) Independent screening and optimizing strains to produce 100% pure vinegar; (2) independent design of the fermentation tank for liquids and solids and implementation of the feeder fermentation method which is superior to general culturing, enables faster fermentation than general reposing fermentation, and maintains higher quality and better flavor; and (3) use of membrane filtration to eliminate the mutual effect of proteins, saccharine, and metal ions in vinegar or turbidity due to microbial activities to enhance transparency, preserve the ethylic acid and polyphenol in food vinegar, maintain vinegar flavor, and improve the quality and enhance the value of product.
- The subject won two stars in the iTQi Superior Taste Awards 2013 in Belgium (iTQi is formed by 120 Michelin chefs). In packaging, the subject combines culture with creativity to win the RED DOT 2012 and iF 2013 packaging design awards from Germany.
- Combining the abovementioned technical innovation and packaging design innovation, the subject has successfully turn vinegar into a drink with quality natural vinegars, which is beneficial to expand the scope of development of the traditional vinegar industry.



福釀坊醋飲
Fu Niang Fang Vinegar

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景睿科技股份有限公司

ATBS Technology Co., Ltd.

簡介

本產品將 TPMS 和 ATBS 汽車協議解碼芯片與藍牙傳輸接口整合為一，是全世界最迷你的 OBD2 譯碼器。當智慧型手機配備了不同的應用程式（如 SAVING FUEL，SAFE START），它即可將您的手機變成一個汽車診斷工具，或一個黑盒子。它也可以提供駕駛行為評分和發送救援信息和定位。這也是一個新的電源管理系統，用手機可以監測輪胎的壓力和 OBD2 信息，如電池電壓，車速，車輛油耗，駕駛記錄，以達到省油駕駛，減少碳排放。它支持超過 3000 個車型，可用於 iOS，Android，Windows 手機和平板電腦。同時是蘋果公司 MFi 認可的 iPod，iPhone，iPad 配件。受市場好評。

評語

- 本標的為可收集多種車載資訊及偵測胎壓之 all-in-one 產品，可於手機上顯示相關資訊或傳至雲端，技術相當創新。
- 可適用於多種車種，可支援多種手機規格，使用方便，並可全程監控行車數據，有助提升行車安全。
- 本標的目前已有良好的專利佈局，具市場競爭力，且具備質感佳、輕巧、易於安裝及可更換電池之優點，並已獲 Apple 公司認證，且已有銷售實績。

Introduction

The product is integrated ATBS vehicle protocol decoding chip with TPMS and combined with Bluetooth transmission interface, is the most compact size and versatile mini OBD2 decoder in the world. When a smart phone equipped with a different APP (such as SAVING FUEL, SAFE SATRT), it will turn your phone into a diagnostic tool or a black box. It is able to rate your driving behave also can send information and positioning for rescue.

It is also an new power management system, using a mobile phone can monitor tire pressure and OBD2 information, such as battery voltage, speed, vehicle fuel consumption, driving record, in order to achieve fuel-efficient driving, reduce carbon emissions. It supports over 3000 car models ; support iOS, Android, Windows phone and tablet. It was also approved by Apple MFi, made for iPod, iPhone, iPad. Praised by the market.

Commentary

- The subject is an all-in-one autotronic product that collects comprehensive auto data and detects tire pressure and displays these data on mobile phones or sends them to a cloud server. It is very innovative.
The subject is applicable to different types of vehicles and supports
- different types of mobile phones. It is convenient to use and can monitor the vehicle at all times to enhance driving safety.
The manufacturer has good patent planning and sales are quite good.
- This product is competitive, compact, easy to install, and easy to change the battery. In fact, it has been certified by Apple MFi.



多功能行車安全偵測系統 OBD2TPMS

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鈞成金屬股份有限公司 Win Chance Metal Corporation



高效率ABS煞車手拉器
ABS System Ratchet Buckle

簡介

本產品為全球首創技術之產品，業界首創(1)ABS緩衝性煞車解帶(2)2段式伸縮強力手把(3)走繩slackline運動技術產品設計。通過歐盟TUV/GS產品認證成為全球第一支具有ABS系統及伸縮強力手把通過德國GS認證之手拉器；提升束帶業界最大預拉張力4000牛頓，解帶功能改革為12~18次ABS緩衝性煞車解帶成為汽車產業市場上預拉張力最強並具有革命性安全的ABS緩衝性煞車解帶之汽車手拉器。取得多國發明專利，並通過SGS產品驗證。

評語

- 本標的除了增進網綁貨物之便利性與安全性外，亦被推廣應用於時下流行之走繩運動，其從手工具跨入運動產業，可提升產品之附加價值並擴大市場利基。
- 本標的之伸縮型手把，可加倍預拉張力達 400KG，且可單人操作。A B S 煞車緩衝機構為業界首創，可分次 (12 次) 釋放網綁貨物束帶之預拉張力。已獲第 2013 台灣精品獎，並取得多國新型專利，且通過德國 TUV、GS 與 SGS 產品認證。
- 本標的目前在國內外銷售情況良好。

Introduction

Published the world's first technology
ABS brakes with cushioning solution with powerful & 2-piece telescopic handle and certified by the European Union TUVGS
To become the world's first with the ABS system and telescopic handle passed GS certification downs
Enhance the industry's largest pretensioners belted tension 4000 N
Solutions with functional reform of 12 to 18 times with a solution of ABS brakes cushioning And provide the rope walk slackline movement of cross-industry pairs shared by hand puller
obtained U.S. patents and Germany, Japan, the Republic of China and other 13 patents

Commentary

- The subject enhances the convenience and safety of bonding goods and is widely used in trendy tightrope walking. From manual tool manufacture to the sports industry, this allows the manufacturer to increase product added value and expand product niche market.
- The telescopic handle of the subject can double the pretension up to 400kg and support a one-man operation. The ABS braking mechanism is the first in the industry to release the tension of the bond in 12 steps. The project won the Taiwan Excellence Award 2013, has been awarded the utility model patent of many countries, and has passed TUV, GS and SGS certifications.
- The global sales of the subject are quite good.

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陽泰電子股份有限公司

Yantouch Corporation

簡介

2合1的藍牙喇叭/情境燈，內建藍牙配對，不需密碼，獨特傳輸技術，傳輸距離30米。沿用榮獲紅點設計大獎的LED技術，提供多種情境/舒壓光彩，專利的立體BlingBling炫麗光彩，更是女仕的最愛！BD3搭配左/右/低，立體聲2.1音響，充滿驚奇。如教堂低音共振管設計，低音強而有力；高級釹磁鐵喇叭，中高音如鑽石般清晰。獨創的“音樂光影同步模式”，讓“看得見的音樂”美夢成真。

評語

- 本標的結合藍芽音響及LED燈光變化，可依音樂律動產生多種情境，鑽石設計造型，上半球為“光”，下半球為“音”，光音結合極富炫彩，甚具創新性。
- 本標的獲選為2012年美國聖誕10大推薦產品之一（USA Today報導），並已和世界知名品牌如Philips、JBL等同台較勁。
- 本標的已獲多項專利及德國紅點(Red dot)等設計獎，未來亦已規劃增加各種光色度應用情境及音響效果之新一代產品。

Introduction

2-in-1 Bluetooth Speaker/Mood Lamp. Bluetooth pairing, not need of password, transport distance up to 30m. BD3 provides many relax/ambient lightings by Yantouch Reddot awarded LED technology. Patented 3D BlingBling effects are ladies' favorite! BD3's Left/Right/Woofer 2.1 stereo system is even more amazing. Church organ pipe like design, make bass powerful. High class Nd2Fe14B speakers, make highs and mid pitch diamond clear. Unique beat match lighting, let “Music you can see” dream come true!

Commentary

- The subject combines Bluetooth audio with LED light changes to create different scenarios as the music goes. The diamond-shaped design features a “lamp” in the upper sphere and “speaker” in the lower sphere. Fancy and fantastic, it is highly innovative.
- The subject was rated as one of the top ten Christmas presents in the USA in 2012 (USA Today) and has become a rival of leading brands such as Philips and JBL.
- The subject has been awarded numbers of patents and won the Red Dot Awards from Germany. In the future, the manufacturer will expand the product range with more light options and better sound effect for use in different scenarios.



黑鑽炫彩藍牙音響
BlackDiamond3 – Brilliant Wireless Speaker (BD3)

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源星生醫科技股份有限公司

Ostar Meditech Corp.

簡介

本產品為全國(球)第一部整合醫院資料庫的雲端多功能病人監視系統，可自動校時、校正血壓準確度、手動旋鈕輸入體溫呼吸、疼痛度及排便等專利功能。

完全符合E化醫院病房護理人員照顧病人習慣的雲端多功能病人監視系統北醫已全面使用中、已於秀傳醫院、台大醫院、童綜合醫院、聖母醫院、台北署立醫院、美國、印尼等醫院試用、預計推廣全台教學醫院及中國大陸/美國市場。

特色用途：

- (1) 可節省護理人員巡房 30% 時間
- (2) 提高醫院聲譽，病人得到更多照顧
- (3) 降低醫院支出經費，打造綠色醫院
- (4) 提供醫院 HIS/NIS 資料庫解決方案

評語

- 本標的是第一部整合醫院資料庫的雲端多功能病人監視系統。應用資通訊科技簡化醫院診療作業，降低醫護人員工作負荷，產品結合病人及護理師識別碼掃描辨識，可測量血壓、心跳、血氧及輸入呼吸、體溫等資料，透過 WiFi 無線傳輸至雲端監測系統，支援醫生及護理人員做臨床診斷，該公司已取得醫療器材類「iCLOUD」商標註冊權。
- 本標的技術創新點為「自動檢驗並校正發明專利技術」，提供齊全的數位類比回授系統，進行資料統整、自動判斷及異常值通報功能，確認資料傳輸而不漏接重要生理資訊，儀器採用軍規電子零件以確保產品品質。
- 本標的可以節省醫院支出與護理人員巡房時間 30%，提供醫院資料庫解決方案，使病人得到更多的照顧。預計推廣全台教學醫院及中國大陸/美國市場。

Introduction

The company's multifunctional cloud patient monitoring system is a health information system (HIS) solution for hospitals and clinics, which is designed to measure and automatically upload the physiological data of patients, such as blood pressure, oxygen saturation, pulse, respiration, and body temperature, to designated databases at hospitals or clinics. This saves handwriting time, upgrades the quality of medical care, enhances work efficiency, and lowers flow-associated expenditures. OSTAR is proud of its innovative blood pressure monitoring system, which clinical use has proven to be as precise as mercury sphygmomanometer and which is well-recognized by major hospitals in Taiwan. The system is also expandable to include "remote healthcare" programs to allow patients to input and upload data collected at home to the medical record databases at hospitals or clinics for professional diagnosis and regular observation. OSTAR has a vision for this system, and plans to work with telecommunications companies to develop a VIP-member service system that will keep patients and their families posted, via short messages and e-mails, on the patients' latest health conditions and will issue emergency warnings when abnormalities are detected.

Commentary

- The subject is the first multifunctional patient monitoring system integrated with the hospital database with cloud computing. By simplifying patient diagnosis and reducing the workload of medical personnel with ICT, the product is equipped with patient and nurse barcode identification and can measure blood pressure, heartbeat, blood oxygen and inhalation, and body temperature before sending these data to a more monitoring system via WiFi with cloud computing to support physicians and nurses to make clinical judgment.
- The manufacturer has registered the iCLOUD trademark for medical instruments. The innovation of the subject includes the self-inspection and self-calibration technology protected by invention patent. This includes a full-featured digital-analog feedback system for data integration, self-judgment and abnormal value warning, and data transfer confirmation to ensure no dropping of important physiological data. All parts and components are military grade to ensure product quality.
- The subject can save hospital expense and nursing workload by 30%, provides a solution for hospital database, and enables patients to receive more care. The manufacturer will promote the system to all teaching hospitals in Taiwan and to the China and US markets.



雲端多功能病人監視系統
"OSTAR MEDITECH" Blood Pressure, Oximeter, and Heart Pulse Monitoring System

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盟基生醫股份有限公司

Maestrogen, Inc.

簡介

本產品為一數位化影像處理暨生物膠體處理系統，採高解析度相機，配備完全避光且操作方便暗箱，配合藍光或白光等光源，進行 DNA、RNA 及蛋白質電泳影像擷取。取得影像後，搭配影像分析軟體，處理各種定量分析。同時可針對特定的分子量，做切膠的動作。簡化使用者實驗流程，提高方便性與作業效率。傳統，膠體中核酸可經 ethidium bromide (EtBr) 染色，EtBr 會嵌入核酸鹼基中，以紫外線照射，藉以觀察核酸之位置。然而，目前普遍認為 EtBr 存在一定程度的致癌風險，且紫外光亦會造成傷害。本產品即為最前瞻的安全染劑專屬研發所使用之整合型藍光生物影像系統。

評語

- 本標的為一數位化影像處理及生物膠體處理系統，採用高解析度相機，並配備完全避光且操作方便之暗箱，配合創新設計之藍光下光源或白光等光源，可進行 DNA，RNA 等之分析。
- 本標的除相機外完全自行研發，突破 Clare Chemical 公司藍光下光源系統專利，並取得美國發明專利，誠屬不易。
- 本標的產品功能佳，外型新穎，並與生物檢測染劑商合作，成本低，深具競爭力，銷售情況佳。

Introduction

MaestroGen provides Slider with LED transilluminator for gel photography imaging and cutting.

Easy: gel photography imager and cutting at the same instrument

Affordable: competitive price

Quality: branded camera, ~100 % dark room for photography

Friendly: USB interface, no need to take out and insert memory card frequently

Considerate: rotatable LCD monitor for user to easily perform photography

Safe: cutting gel with MaestroGen 470 nm LED transilluminator

Easy Powering: NO need to change and re-charge batteries on camera

Commentary

- The subject is a digital image processing and gel image processing system. It is equipped with a high-resolution camera and fully blocked, easy-to-operate darkroom. Innovative light source with blue light transilluminators or white light transilluminators is available for DNA and RNA analysis.
- In addition to the camera, all the other design is 100% independently developed by Maestrogen, Inc, and is awarded a US invention patent, which is extremely difficult.
- In addition to the outstanding functions, the product has a novel appearance. By teaming up with biological test reagent producers, the manufacturer has successfully lower the cost to make the product more competitive. The sales so far are good.



整合型藍光生物影像系統
Integrated Blue Light Bio-Imaging System

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第20屆 中小企業創新研究獎

鉅陞精機股份有限公司

Hurise Co., Ltd.



簡介

本機為一廣泛型複合式內外圓磨床，除了研磨旋徑 500mm 以內的工件之外，也更適用於長型芯軸類工件的加工。

本機延續了原有重要專利「複數研磨軸之研磨機」、「複合式內外徑磨床」之外，更設計研發出下列創新設計：

- 工件輔助夾持機構
克服了工件輔助夾持器會有重心偏擺移位，以及三個夾持點與工件磨擦導致定位精度移位的全新機構及材質。
- 分度盤之角度量測機構
擺脫人工主軸角度調整，搭配德製角度光學尺及顯示儀，其精度高達萬分之一度，大幅提昇校機精度及效率。
- 分度盤之鎖放裝置
人工主軸角度校機，使用液壓鎖放設計，提高效率及使用壽命。

評語

- 本標的以雙研磨主軸設計，可以一次夾持加工最多至 16 個工作面，並搭載分度盤角度量測機構與鎖放裝置，大幅提高在微調角度時之效率及精準度，具創新性。
- 在設計上也考量模組化，可降低組裝人力成本及未來研磨機種設計的效率。
- 本標的為主軸類物件加工之研磨機，製程難度較高，又有價格優勢，具競爭力，目前已有銷售實績。

Introduction

With the industrial products machining processing precision and diversification requirements, Hurise Co., Ltd. developed "CNC Multi-Function ID/OD Grinder for Long Sized Work Pieces" to provide customers with the highest profits and the best solutions.

- Twin grinding spindle: It can grind for ID, OD, Inner/Outer end face, Inner/Outer taper, etc up to 16 different faces at only ONE clamping.
- Specially designed for shaft grinding: The work piece can be loaded up to length 1,000mm. Unique design of steady rest, significantly enhance its accuracy and lifetime.
- Precision angle fine-tune work head: The work head angle is adjustable with mechanical locking design instead of conventional manual locking. Plus the advanced angle optical scale with resolution of 0.0001°, which significantly improves the efficiency and accuracy in fine-tuning the angle.

Commentary

- The subject has a dual grinding cam design to process a maximum of 16 work surfaces simultaneously. Along with the indexing plate angle measuring mechanism and locking and releasing device, the subject significantly enhances the efficiency and precision of micro angle adjustment, making it highly innovative.
- The modular design reduces assembling labor and enhances the efficiency of future grinding machine design.
- The subject is a grinding machine with higher manufacturing difficulty and price competitiveness. Sales have already started.

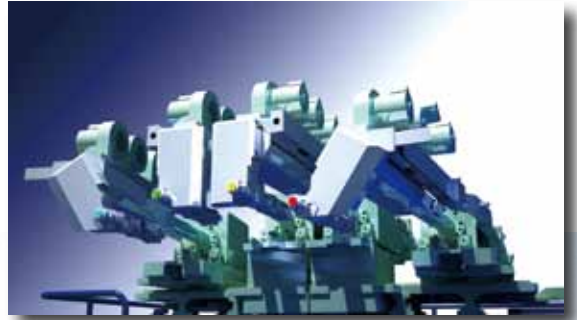
CNC 複合式內外圓主軸磨床 CNC Multi-Function ID / OD Grinder for Long Sized Work Pieces

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鉅鋼機械股份有限公司

King Steel Machinery Co., Ltd.



簡介

創新製程：

1. 世界第一：目前業界唯一單色 / 雙色混合搭配操作。
2. 多色射槍：四支射槍具彈性生產模式，可獨立生產單 / 雙色。
3. 高稼動率：同時段可執行打樣、量產、試模、試料及補號（數），稼動率可達 100%。
4. 高生產力：與雙色兩槍相較，產能單色增加 25%；雙色較原設計增加 1.7 倍。

創造客戶端利潤：

1. 少量多樣、多色生產、多彈性。
2. 省原料、用電、人工成本。
3. 增加可用空間 10-20%。
4. 彈性生產且成品良率高，單價可提升 30%。

評語

- 本標的為全自動射出發泡成型機，具單色 4 模 / 雙色 2 模 / 或單色 / 雙色混搭，與同業之單色 4 模 / 雙色 2 模相較，可有 3 個生產模式、6 種操作選項，及更高的稼動率，具創新性。
- 本標的設計兩組獨立可同步的射出座系統，輕易轉換成雙色模式，單色模式或雙單色模式，已獲義大利、台灣、中國專利。
- 本標的具有一機多功能，彈性生產，節省成本等特色，已有銷售實績。

Introduction

Process Innovation

1. Number one in the world : Only one in the world can work in single/dual colors hybrid.
2. Multi-color Injectors : 4 injectors work in flexible mode and produce single/dual colors products individually.
3. High utilization : sampling, mass production, mould testing, material testing and make up quantity can be done at the same time on the same machine, reaches utilization 100%.
4. High productivity : Compare to 2 injectors dual color machine, single color productivity increased 25% ; Dual color productivity increased 70%.

Increasing Customers Profit

1. Best choice for small quantity, various colors and various model order
2. Saving material, power consumption and labor cost.
3. Increase available space 10-20%
4. Flexible producing mode and high yield rate, increasing unit price 30%

Commentary

- The subject is a fully automatic EVA injection molding machine supporting single color 4 molds, dual color 2 molds, single color, and mixed colors. Compared to the single color 4 molds and dual color 2 molds of rivaled products, the subject provides three more production modes and six operation modes to enhance utilization. This is very innovative.
- The subject has two independent injection tables supporting synchronous operations to easily change into dual color mode, single color mode, or dual/single color mode. In fact, the subject has been awarded patents from Italy, Taiwan, and China.
- The subject is a multifunctional machine supporting flexible production modes to reduce cost. Sales have just started.

KS 9910UE4A

全自動雙色\雙硬度EVA射出發泡成型機
Dual Color\Two Hardness
Foam EVA Injection
Moulding Machine

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第20屆 中小企業創新研究獎

蒙恬科技股份有限公司 PenPower Technology Ltd.



WorldCard Link

簡介

【WorldCard Link】為全球首創的「iPhone 名片立可拍」，同時包含「辨識精準的名片管理 App」與「自動連續拍照的立座」，讓使用者可以享受最便捷、隨身的名片管理方式。創新功能說明：

- 立名片 · 免按鍵自動連續辨識

自動連續拍照與辨識功能，無須逐張點選就能完成名片建檔，所有聯絡資訊自動進入對應欄位，且支援 24 種語系。

- 可應用 · 視訊電話或社群搜尋

可依據個人習慣進行分類管理與各種聯繫功能，也可根據名片資訊自動搜尋 Facebook、Twitter、LinkedIn 等社群網站。

- 拍即存 · 人脈隨時同步入雲端

每筆聯絡資訊直接點選就能同步至 Gmail 通訊錄 (Gmail Contacts)，且可直接備份至 iCloud、Dropbox 等雲端空間。

評語

- 本標的可運用於市售之 iPhone 手機，方便使用者以簡易、快速之方式將名片建檔，和通訊相關之資訊如 Email、電話號碼等經識別後，自動歸檔於手機通訊錄。
- 本產品具有方便易用、實用及獨特性等優點，關鍵技術為光學文字辨識。

Introduction

"WorldCard Link" is the world's first iPhone and business card stand to manage your multi-language business cards on iPhone. It automatically and continuously captures and recognizes business card information. There is no need manually input one by one. All of the business card information is sorted into the proper fields automatically. The app provides convenient functions to contact your contacts and help you classify & manage your contacts. You can also search your contacts on Facebook, Twitter, LinkedIn, to expand your social and professional networks. And contacts can be synchronized to Gmail contacts and saved to iCloud or Dropbox, let you check contact information and business card images anytime and everywhere.

Commentary

- The subject supports all iPhone models for users to easily and quickly create business card files and communication-related data, such as e-mail, phone number, etc. After identification, the product automatically files them in the iPhone.
- The product is convenient to use, practical, and unique. Optical character recognition is the key technology.

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慶鴻機電工業股份有限公司

Ching Hung Machinery & Electric Industrial Co., Ltd.



簡介

Q4025L 高精密龍門型線性馬達線切割機 特色說明

1. 龍門移動式結構設計：
獨步全球龍門移動式結構設計，占地空間小，確保高精度加工的可能。
2. 自製高效率線性馬達：
搭載自製專利式線性馬達，無接觸驅動長時間使用下無背隙產生，達成高精、高穩定與使用壽命長等優點。
3. 新一代 G6 節能電源迴路：
國內首創節能迴路，節省 20% 以上電力，有效減少客戶成本與整體環境負擔。
4. 高精密溫控系統：
採用恆溫控制裝置，國內首部搭配變頻式冷卻機，溫控可達 $\pm 0.3^{\circ}\text{C}$ ，真正達到高精度加工境界。
5. 0.07mm 細線裝置：
新一代 $\varnothing 0.07\text{mm}$ 自動穿線系統，穿線速度世界最快，零組件最少，降低成本並大幅減化保養維護。

評語

- 本標的整合自行研發之無干涉高精度龍門移動式機械結構專用線性馬達、全自動穿線系統，及 CNC 控制器等創新技術之線放電切割機，並獲多項專利。
- 本標的獨特之結構可減少佔地空間，維修容易，且採用自行研製之線性馬達及 CNC 控制器，成本可以得到最佳化，具價格競爭力。
- 標的物定位精度 $3\mu\text{m}$ ，重複精度 $\pm 1.5\mu\text{m}$ ，適用於 3C、航太、汽車等產業之模具及零件加工，深具實用性，並已有銷售實績。

Introduction

Q4025L Gantry Type Linear Motor Drive Wire-Cut EDM

1. Global pioneer with patent licence of gantry moving structure design obtains high rigidity and extremely accurate machining.
2. Linear Drive obtains many advances such like backlash-free, perfect accurate positioning as well as long life span.
3. The exclusively power saving technology, ESL, can reduce the power consumption up to over 20%.
4. Equipped with the high precision temperature control system to hold the temperature variation within $\pm 0.3^{\circ}\text{C}$ for precise machining.
5. Auto Wire Threading (AWT) can thread 0.07mm Dia. Wire. Beside more simple and concise AWT mechanism can effectively reduce the building cost and frequency of maintenance.

Commentary

- The subject is a linear cutting machine integrating with the non-intervention high-precision gantry moving structure mechanism linear motor, fully automatic linear system, and CNC controller independently developed by the manufacturer. The subject has been awarded different patents.
- The unique structure of the subject can reduce space, facilitate repair and maintenance, and optimize production cost with the linear motor and CNC controller developed by the manufacturer, making it more competitive.
- With positioning precision at $3\mu\text{m}$ and repeat precision at $\pm 1.5\mu\text{m}$, the subject is suitable and practical for processing molds and parts for 3C, aeronautic, and auto parts. Sales have started.

Q4025L 高精密龍門型線性馬達線切割機 Q4025L Gantry Type Linear Motor Drive Wire-Cut EDM

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歐舒邁克有限公司

O-smart Company

簡介

Isosorbide Dinitrate 注射劑主要臨床作用為治療狹心症之發作。近幾年來冠狀動脈心臟病已躍居台灣地區十大死因前三名，很多急性心肌梗死病患送不到急診即死亡。在本品開發之前，不論是國內或十大先進國，均只核准 Isosorbide Dinitrate 0.1% Injection (小針劑型)，使用前需先稀釋於點滴後才能輸注。本品為全球第一家 Isosorbide Dinitrate Premixed 製劑，緊急情況急救病人，可以直接使用輸注無需再配製，可爭取搶救病患之黃金時間以增加病人之存活率。本品為避免糖尿病病患手術時之危險性，選擇 Isosorbide Dinitrate Premixed in 0.8%至約 0.9%的氯化鈉，因此本品適用於所有糖尿病病患。本產品已申請國內專利，將來可運用於雲端醫療之實施，為人類創造更大福祉。

評語

- 本標的是第一家作成點滴瓶之產品。已通過我國衛生單位之藥證 (衛署藥字第 056734 號 - 歐舒心注射劑 0.01%) 並獲得健保署核定藥價，將於明年起在全國各大醫院完成進藥程序上市銷售。
- 本標的係老藥新用，採用 premixed 注射劑型，可減少 32% 配藥時間和節省 60% 總費用，在使用上提供醫護人員及需緊急處理患者，更高之安全性和更佳之方便性，有其創新獨到之處。

Introduction

Isosorbide dinitrate injection major clinical role is used to treat angina. Coronary heart disease in recent years has been ranked the Taiwan's three major causes of death, many patients died with acute myocardial infarction was too late to send the patients to the emergency room. Before the development of this product, whether domestic or ten advanced countries are approved only Isosorbide Dinitrate 0.1% Injection (small injection type), diluted before use in drip before infusion. This product is the world's first Isosorbide Dinitrate Premixed preparations, emergency first aid patients, infusion can be used directly without further preparation, may seek to rescue patients' prime time to increase the patient's survival. This product is to avoid the risk of diabetic patients during surgery, choice Isosorbide Dinitrate Premixed in 0.8% to about 0.9% sodium chloride, so this product is suitable for all patients with diabetes. This product has applied for domestic patent, can be applied to the Cloud Medical Care in the future to creat greater welfare of mankind.

Commentary

- The subject is the first IV injection product of the kind certified by the health authorities of Taiwan (Wei-Zhu-Yao-Zi 056734: Easy-Isosorbide Injection 0.01%), with price approved by the Bureau of National Health Insurance Administration. It will be launched to major hospitals next year.
- This is a new use of an old drug using premixed injection formulation to reduce dispensing time by 32% and 60% of total cost. In application, the product facilitates medical personnel and EMT to quickly administer the injection to patients to enhance safety and convenience, which are also the innovation features of the product.



全球創新的 Isosorbide Dinitrate Premixed in 0.9% Saline Injection
Global Innovation of Isosorbide Dinitrate Premixed in 0.9% Saline Injection

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賜福科技股份有限公司

Foxnum Technology Co., Ltd.



簡介

賜福全電射出機控制系統具備人性化的操作介面，搭載 15.1 吋超大觸控螢幕，介面具備示波器功能，可方便操作人員快速檢視成型條件。該控制系統的驅動器是以 DSP 組合語言來撰寫，電流迴路週期 50us，主、副中斷程式達 1 萬行指令。該控制器以自行研發的 eNET 高速串列通訊介面與超大馬力的伺服驅動系統來溝通，可實現高速資料傳輸，馬達規格從 100W 到 45kW，包含完整系列，其最大電流達 284Amp，反應時間可高達 24ms，絕對型弦波編碼器解析度高達 4 佰萬 pps，另驅動系統更擁有能量回充功能，可進一步再降低耗電 17%。線上伺服調機工具，能立即進行伺服與製程調適，提高總體產品性能。

評語

- 本標的全電驅動比傳統油壓驅動較少汙染且耗電量少 40% ~ 70%，為射出成型機重要發展趨勢，本標的追求高性能及完整的全系列功率設計（由 100W 到 45KW）等產品發展成功整合控制器模組與驅動系統模組，實現高動態反應與高精度的控制性能，深具創新性。
- 本標的專利布局相當完整，包含感應馬達控制裝置、驅動裝置、加減速控制及方法等，創新技術，已獲台灣、大陸、美國多項專利。
- 本標的完全自行研發製造，具有節能、較佳之安全設計及成本低等特色，深具實用性及競爭優勢，已有銷售實績。

Introduction

Foxnum all-electric injection molding machine controller has user-friendly interface which is equipped with large 15.1" touch screen monitor and oscilloscope function. Operator can use this function to confirm molding conditions easily. Controller is programmed by DSP language, its current loop cycle is 50us. We used our self-developed high-speed serial communication interface eNET to connect controller with servo drive systems. It can reach high-speed data transmission. The motor sizes are from 100W to 45kW. Absolute sine encoder resolution can also be up to 4 million pps. Also drive system has the energy recycle function which can save more power to 17%. We also offer online servo tuning tool that can help immediate servo and process adjustment, this can be the great help for our customers to get better product performance.

Commentary

- The subject replaces the hydraulic system with an electrical system to reduce pollution and energy by 40-70% to mark out the major trend of future development of injection molding machines. In the pursuit of high-performance and full power range design (100W-45KW), the manufacturer successfully integrates the controller module with the driving system module to realize highly dynamic response and high precision control, which are extremely innovative.
- The subject has complete patent planning, including the sensor motor control device, the driving device, acceleration control and methods. These innovation technologies have been awarded patents from Taiwan, China, and the USA.
- The subject is completely designed independently by the manufacturer. It features energy saving, safety, and lower cost. Practical and competitive. Sales have just started.

全電射出機控制系統 Controller for all-electric injection molding machine

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積順企業有限公司

Zung Sung Enterprise Co., Ltd.

簡介

當車子因為電池老舊或大燈未關而喪失電力時，車子會無法啟動，這時候就要使用接電來啟動。本產品不同於一般的急救電源，是可自動轉換極性大電流輸出的便利裝置，接電瓶時不必管電池的極性，也不怕因為接錯極性而造成行車電腦之損壞或產生火花，甚至是火燒車。任何一款電瓶夾夾上電瓶就可請輕鬆的啟動車輛。此外，外型也大膽的使用相同顏色的電瓶夾，為獨一無二的產品。因為不用管正負極，所以使用者不必再去對照極性、顏色。使用者可以輕鬆的配接啟動車，不必再擔心接錯正負極。也是本產品的最大的特色。

評語

- 本標的為一無極性辨識要求之汽車啟動救援系統，巧妙運用繼電器方面可處理大電流之專利技術，於汽車啟動救援系統上加入自動辨識電瓶極性及切換迴路之功能，免除以往使用者必須自行小心判斷極性之麻煩，大幅提昇使用時之安全性，是一個能提高產品價值的創新技術。
- 本標的目前為全世界唯一之無極性救援系統，具有高度之獨特性。在技術上已有完整專利佈局，擁有競爭優勢。
- 本標的已有銷售實績，且 90% 為外銷，在銷售規劃方面也很明確，後勢看好。

Introduction

Lately year of battery jump starter research and technology have finally been combined. We create "Unique Jump Starter". This jump starter can distinguish the polarity automatically and you don't be afraid or worry connect with wrong position (+,-). In additional, our jump starter have own very special. we made bold the same color clamp! No one to do this idea at present in the world. But we do!

Commentary

- The subject is a jump starter for a vehicle rescue. It involves the patented technology processing high current with relays. The automatic battery pole identification and loop switch functions are added to save the trouble from determining the poles on the battery to significantly enhance safety of use.
- The technology is an innovative technology to enhance product value. The subject is currently the world's only non-polar jump starter for vehicles, which is extremely unique. The manufacturer has complete patent planning for this competitive product.
- The sales achievements of this product are great, including 90% for export. The manufacturer has made clear distribution planning, and its future is promising.



救車啟動隨意夾
JUMP STARTER

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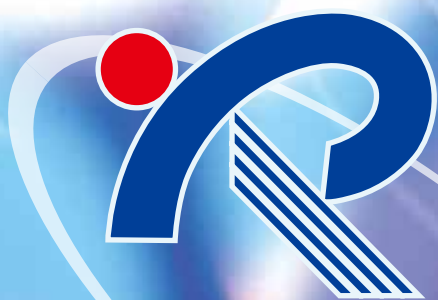
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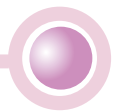
中小企業創新研究獎

The 20th Taiwan SMEs Innovation Award

申請須知



挑戰創新
馬區重動未來



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，甄選較為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」且目前仍在營運中之中小企業，其民國 101 年之研發費用佔營業淨額比例不得低於 2.0%。(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、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 101 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、服務業創新研發計畫、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、地方產業創新研發推動計畫、業界開發產業技術計畫、創新科技應用與服務計畫、研發精進產學合作計畫、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。

申請須知

四、申請手續

(一) 申請方式

1. 檢附申請資料紙本一份、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（含附件掃描）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)、中華民國全國中小企業總會 (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。
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(二) 送審資料

1. 申請書
2. 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> 查詢列印)
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 101 年 1 月 1 日至 102 年 5 月 31 日前銷售之發票、合約書、訂單等，若為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 101 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. 101 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 102 年 6 月 15 日前掛號寄達）

(三) 申請期間

即日起至 102 年 5 月 31 日 18:00 止（通訊寄件以掛號郵戳日期為憑）。



申請須知

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 | 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 % |

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 102 年 11 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填寫申請之標的所屬類別，審議過程中評審委員會得依標的內容與性質做最後確認。



決審委員名單

決審委員召集人：

葉雲龍 經濟部中小企業處 處長

王美花	經濟部智慧財產局 局長
王鉞波	中小企業信用保證基金 董事長
沈榮津	經濟部工業局 局長
谷家恆	財團法人中衛發展中心 董事長
林全能	經濟部技術處 處長
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張俊福	經濟部國貿局 局長
黃文谷	經濟部加工出口區管理處 處長
黃文榮	中華民國對外貿易發展協會 秘書長
游瑞德	經濟部商業司 司長
廖慶榮	台灣科技大學 校長

初審委員名單

初審委員總召集人：

鍾乾癸 長庚大學資訊工程學系教授兼生醫工程研究中心 主任

類別	姓名	單位 / 職稱
資訊與電子類 (召集人)	王輔卿	工研院資訊技術服務中心 主任
資訊與電子類	徐永珍	清華大學電機工程學系暨電子工程研究所 所長
資訊與電子類	林俊良	中興大學 副校長
資訊與電子類	譚旦旭	台北科技大學電機工程系 教授
機械與自動化類 (召集人)	蔡新源	創智智權管理股份有限公司 董事長
機械與自動化類	宋震國	清華大學動力機械工程學系 教授
機械與自動化類	詹炳熾	財團法人精密機械研究發展中心 總經理
機械與自動化類	宋開泰	交通大學電控工程研究所 教授
材料與製程類 (召集人)	蘇宗榮	工研院材化所 所長
材料與製程類	廖啓成	食品工業發展研究所 副所長
材料與製程類	鄭建新	財團法人生物技術開發中心兩岸生醫產業合作推動辦公室 主任
材料與製程類	邵耀華	工研院生醫與醫材研究所 所長
服務類 (召集人)	鍾乾癸	長庚大學資訊工程學系教授兼生醫工程研究中心 主任
服務類	廖文志	台灣科技大學企管系 教授
服務類	唐震寰	工研院服務業科技中心 主任
服務類	翁崇雄	台灣大學資訊管理學系暨研究所 教授
綜合類 (召集人)	官政能	實踐大學 副校長
綜合類	林志森	財團法人台灣綠色生產力基金會 董事長
綜合類	陳文生	中國科技大學資訊管理系 副教授
綜合類	張光民	台灣創意設計中心 顧問



第20屆 中小企業創新研究獎



得獎專輯

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