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部長序文

依據《2014 中小企業白皮書》統計，2013 年台灣中小企業家數計有 133 萬 1,182 家，占全體企業家數的 97.64%，較 2012 年成長 1.87%。另就研發經費投入分析 2012 年全國研發經費較 2011 年增加 4.3%，其中企業部門投入為主要來源，占全國 74.17%，顯現企業在激烈的競爭環境中，仰賴創新研發為逆勢成長及穩健發展之能量，惟中小型企業的研發經費成長普遍低於大型企業。

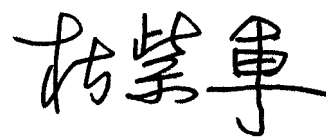


經濟部辦理「中小企業創新研究獎」之目的在於獎勵自行從事創新研發而有具體成效之中小企業，鼓勵中小企業提升技術與服務水準，藉由研發資源的投入增強競爭力。中小企業創新研究獎辦理迄今已邁入第 21 屆，共有 3,596 件標的申請，歷屆共選出 742 件中小企業創新標的，並有 54 家中小企業上市上櫃。今年選出 30 件優秀申請標的獲獎，獲獎標的無論在實用性或創新性、設計研發、產品升級方面等均有亮眼表現，著實展現台灣中小企業源源不絕的創新研發能量，並在其專業領域中創造新價值與新服務。

為協助中小企業提升創新研發能力，經濟部還提供多項政府資源協助，包括提供符合中小企業創新研發資金需求的「中小企業創新發展專案貸款」，同時為鼓勵中小企業加強創新技術或產品的研發，辦理「小型企業創新研發計畫 (SBIR)」，此外，推動「中小企業即時技術輔導計畫」，提供企業短期程、小額度、全方位之技術輔導；並依據中小企業發展條例研擬「中小企業研究發展支出適用投資抵減辦法」，提供中小企業從事研究發展活動可享有投資抵減之租稅獎勵，以支持中小企業持續從事創新研發。

「創新」已為全球趨勢之重要指標，中小企業需持續求新求變並創造差異化，掌握國際產業脈動，發揮創新的能量與累積的實力，才能異軍突起，並永續發展。恭喜今年度獲獎的企業，希望未來能持續致力研發及創新，也期盼全國中小企業能相互借鏡與合作，再接再厲，寫下台灣經濟歷史嶄新的一頁。

經濟部 部長



中華民國 103 年 11 月 21 日



Foreword

According to White Paper on SMEs in Taiwan 2014, there were 1,331,182 SMEs in Taiwan in 2013, accounting for 97.64% of total enterprises and 1.87% up from 2012. Besides, by analyzing R&D funds, compared to 2011, domestic R&D funds in 2012 increased by 4.3%, with 74.17% of the total invested by the private sector. This suggests that innovation and R&D have become the energy enabling enterprises to grow against adversities and pursue steady development in the highly competitive environment. Whereas, the growing of SMEs R&D funds is generally lower than large enterprises.

The aim of the Taiwan SMEs Innovation Award organized by the Ministry of Economic Affairs, R.O.C. is to reward SMEs engaging in innovation and R&D with solid achievements and encourage SMEs to raise technology and service standards, so as to improve competitiveness by involving in R&D. This is the 21st year for the Taiwan SMEs Innovation Award. Over the past years, the Award attracted 3,596 entries running for the award. A total of 742 entries were awarded, amongst these 54 enterprises have become listed and OTC companies. This year, 30 outstanding entries were awarded, all award-winning entries have brilliant performance in pragmatism, innovation, design, research and development, and product upgrade to demonstrate the innovation and R&D energy of SMEs in Taiwan and create new value and new services in respective fields.

To assist SMEs in improving innovative research capabilities, the Ministry of Economic Affairs R.O.C. provides a variety of government support plans, including the “SME Innovative Development Project Loans” conformed to the demands of SMEs in innovative research funds. Additionally, the “Small Business Innovation Research” was established to promote SMEs in improving the R&D of new technologies or their products. The “SBIR Phase 0” also provides enterprises with short-term, small-amount, but full-spectrum technical guidance. Furthermore, the “SME Research and Development Expenditure Investment Tax Measures” were developed in accordance with the SME Development Act to provide SMEs engaged in R&D projects a reward of investment tax credits, in order to encourage the continued engagement of SMEs in innovative research.

“Innovation” has become a key indicator in the global trend, the basis to promote economic growth, and the crux of SME transformation and upgrade. SMEs need to innovate and change constantly and create difference, capture international industrial movements, and demonstrate innovation energy and accumulated power to rise and pursue sustainable development. Congratulations to all award-winning benchmarking enterprises! We hope you all can insist on continuous R&D and innovation. We also hope that all SMEs in Taiwan can learn from one another, work together, and make persistent efforts to make history for Taiwan’s economic development.



Minister
Ministry of Economic Affairs
NOV. 21, 2014



方碼科技有限公司 Funcode Technology Co., Ltd.



方碼活動會議互動整合 服務系統 Fun2D Event Integration System

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簡 介

「方碼活動會議互動整合服務系統」主要用於會議展覽中，以解決大型會議及展覽報到雍塞、個資暴露與缺乏互動性等問題，有效提升報到效率、保護個資安全，並且讓展場互動自動化與增添趣味化，並延伸提供活動中無紙化講義下載、議程進場管控、贊助商攤位集點、行動電子問券、大會抽獎等客製化功能，完整的整合服務，讓策展單位更加放心、安心、開心。

評 語

- 本標的以自主研发之二維條碼掃描專利技術為核心，建構應用於各種活動與會議之軟體服務系統，大幅提升技術價值。產品特色與功能可涵蓋活動完整生命週期之資訊處理與應用。
- 產品已實際運用於多家國際大型公司，如微軟、甲骨文、SAP、安捷倫之大型活動，並有外銷實績，極具市場競爭力。

Introduction

Fun2D Event Integration System is mainly used by meetings and exhibitions. The system has been designed to solve the problem of check-in inefficiency, personal information protection issue and the lack of interaction of the most events. The integrated system can also cover the event activities such as paperless handouts, access control, sponsor booth check-in, e-survey form, event lucky draw.

Commentary

- This product centers at in-house developed QR code scanning technology and works with software service systems of full range of meetings and programs for enhanced technology values. It features functions in information processing and application that cover the whole life cycle of a program. This product has been adopted by multiple international enterprises in their big events including Microsoft, Oracle, SAP, and Agilent as well as sales abroad. It is of very good competitiveness.



HEARTWAY

台灣維順工業股份有限公司

Heartway Medical Products Co., Ltd.



簡介

BRIO S19 系列產品市場定位為高階折疊式行動輔具，為台灣維順自有品牌產品之一，設計融入自行車折疊功能，機構設計只要一個動作且無需拆解零件就可以快速在短短幾秒內完成主要結構的收疊或展開。收疊後可直接放置在小客車後車廂內、模組化更輕更強且可輕鬆拆解方便充電的防盜鋰電模組、低電壓警示及低電壓保護裝置，均是業界少見的功能特色產品。本系列產品協助銀髮族拓展生活圈，讓搭機出國旅遊不再困難重重，增添生活樂趣與提升幸福指數。

評語

- 本標的在於整合人因工程、共用模組、省電機制、產品結構及高齡者市場等考量因素，研發成系列產品，極具創新特色。
- 具摺疊之機構設計，移動輕巧方便，兼顧材質及模組化，可大幅降低生產成本，提升市場競爭力，更提高電動代步車之附加價值及安全性。
- 本標的曾獲我國及德國新型專利，並獲台灣精品獎。產品設計及製造係依循「環保 5R」為著眼點，並符合 TUV、CE 等安全測試認證。

Introduction

A better-quality power scooter capable of offering unparalleled convenience and mobility may seem impossible to find until you come across Heartway Brio S19. This model not only delivers pioneering levels of transportability but also remains the most revolutionary and intelligent design to date - light weight and easy to fold, with durable chassis. Within the lithium battery solution, the best convenience and comfort offered by this model is able to ride enjoyable for 24-kilometer distance long. Heartway Brio S19 is equipped with a spacious floor well and ergonomic tiller as well.

Commentary

- This innovative series of products integrates human factors engineering, shared module, power saving mechanism, product structure and the elderly market.
- Feature of foldable structure, compact size for easy movement, and balanced material and modularization, this product not only keep the cost down and improve the market competition but also enhance added values and safety of electric scooter.
- In addition to Taiwanese and Germany patents and Taiwan Excellence Awards, this product has acquired TUV and CE safety certificate for its focus on "environment protection 5R" compliance design and manufacturing.



行動輔具 Brio S19、Brio P19、Brio S19T
Mobility Assistive Device
Brio S19、Brio P19、Brio S19T

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巨盛電子股份有限公司

Chesen Electronics Corp.



安卓手機加密鎖 Android Smart Phone Encryption Key

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簡介

「安卓手機加密鎖」是一支類似像隨身碟大小的行動儲存裝置，它就像是手機檔案的一把實體鎖匙，除了能對手機檔案進行加解密之外，也是手機、電腦的隨身碟。安卓手機加密鎖為安卓手機建構了為行動資料安全把關的一道最佳防線。

「安卓手機加密鎖」的功能：

- 手機檔案加解密
- 手機加密特殊應用，如：照相加密、錄音加密、email 加密、行事曆備忘錄加密...
- 電腦與手機隨身碟

防止個人資料的外洩最好的方式就是從最初資料源頭端的加密開始做起，安卓手機加密鎖是滿足此項需求且適用於手機端的檔案加解密最佳工具。

評語

- 標的以自行開發之加解密演算法專屬控制器 IC 為核心，搭配多項創新之 APP，製作 USB 隨身碟手機加密鎖，可對安卓手機內之檔案、郵件、備忘錄及照片等資料進行直覺簡便之加解密，係市面上唯一可適用於所有安卓手機的產品。
- 此產品技術涵蓋軟體、韌體及硬體之自主創新技術，建構完整的產品服務鏈，提升產品附加價值，極具國際市場競爭力。

Introduction

Android Smart Phone Encryption Key is a mobile storage device with a similar size as a nail size flash drive. It is like an entity key of mobile phone files. In addition to encrypt and decrypt files on the phone, it is also a flash drive for both PC and Android phone. Android Smart Phone Encryption Key constructs a security defense for data of Android phone and tablet.

Android Smart Phone Encryption Key features with

- Mobile phone data encrypt decrypt
- Mobile phone specific secure application(e.g. Image encrypt; voice encrypt; email encrypt; reminder encrypt...)
- Flash drive for both PC and Android phone

The best way to prevent the leakage of personal information is to encrypt the initial source files, Android Smart Phone Encryption Key is the best device that can meet the demand.

Commentary

- This product employs an exclusive controller IC with in-house developed encryption and decryption mechanism to secure data contained in USB drive and smartphone by working with multiple innovative APPs. It encrypts and decrypts every file, email, memo, and photo saved in your smartphone as long as it runs the Android OS.
- Thanks to autonomous technology, which integrates software, firmware, and hardware, this product creates comprehensive services and enhances added values to compete in any market abroad.



立昌先進科技股份有限公司

SFI Electronics Technology Inc.



簡 介

立昌先進科技股份有限公司 (SFI) 自 2000 年創立以來，即積極投入過電壓保護元件之開發與銷售，SHN/SHC 系列產品是利用特殊的專業製粉及生產技術 (擁有多項各國發明專利) 開發出的超高性能過電壓抑制器件，除了能對終端產品提供承受高浪湧電流的保護特性外，更因貼片型式的封裝，能節省客戶在 SMD 的打件工時，解決空間 (高度) 限制問題。由於 SHN/SHC 極佳的電氣特性，不僅能解決目前市場上所使用放電管 (GDT) 或是壓敏電阻 (MOV) 無法克服的缺點外，更能承受多次浪湧電流的衝擊，可以提供更佳的保護效果，SHN 系列 (網通 / 安防應用) 符合 Surge 雷擊 $10*700 \mu s/6KV$ 的衝擊，SHC 系列 (高電流，基站台應用) 符合雷擊 Surge $8*20 \mu s/8000A$ ，是過電壓浪湧保護器件不二選擇。

評 語

- 本標的含耐高電流配方開發技術，積層元件製作技術，雷擊突波及網通突波量測技術及批量產技術。
- 創新特性有三：(1) 降低燒結溫度，可大幅節省燒結用電，具節能減碳之功能；(2) 變更內電極的配方，大幅降低成本；(3) 運用特殊之陶瓷配方製作技術，使氧化鋅具有更高突波流通能力，有效減少尺寸，同時大幅超越市場競爭者產品性能。
- 產品特性極佳，有多項專利保護，極具市場競爭力，已有不錯的國內外銷售實績。

Introduction

SFI Electronics Technology Inc. (SFI) is established in 2000, which actively involves in the development and sales of over voltage protection devices. The product SHN/SHC utilize the specific professional formula and production technics (acquired many international invention patents) to develop the overvoltage suppressors with excellent function and protect electronic devices. Not only to protect the electronic devices from high surge, but also to save assembly time and save space (height limits) due to SMD package. With the best electric characteristic, it can resolve the problem of GDT or MOV and provide the better protection. SHN Series (Networking/ Security application): Comply with surge $10*700\mu s/ 6KV$, SHC Series (High current/ Base station application): Comply with surge $8*20\mu s/ 8000A$. Therefore, the SHN/SHC is the best choice for overvoltage suppressor.

Commentary

- This product contains scores of technologies including high currency resistant receipt development, multilayer device fabrication, surge protection, Netcom surge measurement and mass production.
- It features three innovations:
 - (1) Lower sintering temperature for reduced sintering power and carbon reduction.
 - (2) Revised formula for inner electrodes for sharp cost cuts.
 - (3) High surge-flow-capacity zinc oxide based on special ceramic receipt for reduced dimension and greater performance than existing competitive products.
- In addition to scores of features, this product is protected by multiple patents. It enjoyed quite good domestic and international sales with its market competitiveness.



可承受高電流之晶片型突波
保護元件開發與量產計畫
Development of one Surge
Protection Device with High
Current

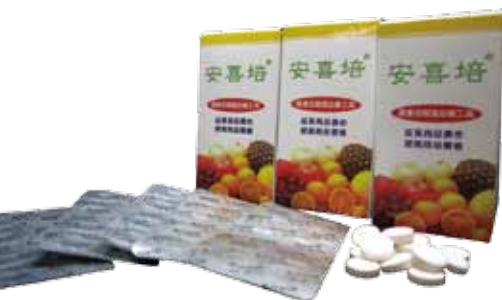
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利統股份有限公司

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簡介

*LytoFresh*TM 為利統公司在保鮮操作規範上建立之系統，可延遲植物自然老化過程，有效延長農產品保存期限，達到反季節銷售目的，並提高採收熟度，增加果實品質、減少耗損，以海運代替空運擴大國際市場。*LytoFresh*TM 之核心技術為「安喜培®」相關系列產品，不但已成功獲得多項專利，可有效延長產品樹架壽命與抑制果實軟化腐爛，並根據使用者之需求，開發出錠、布與貼紙等劑型。此外，安喜培® 主成分 1-MCP 已通過美國環保署 (EPA) 安全無毒審核許可，適用於花卉及其他農產品之保鮮用途，對人畜及環境安全無虞，可幫助農友在競爭力及獲利上大幅提升，改善台灣農業之競爭力。

評語

- 本標的應用已知之蔬果成熟釋放乙烯機制和乙烯受體抑制劑 1-MCP 知識，研發採收後蔬果與花卉保鮮產品，具實用性及經濟性。
- 針對乙烯受體抑制劑 1-MCP 已成功開發錠型和不織布型兩款上市，更進一步研發貼紙型。在使用上非常便利，對外源性或內源性乙烯均可阻止其發生作用，可延遲植物早熟或老化，有效延長採收後農產品儲藏及樹架保存期兩倍以上。
- 本標的已獲多國專利，並於 2013 年取得大陸之農藥登記證。

Introduction

Lytone Enterprise, Inc. has developed proprietary technology in post-harvest preservation technology (*LytoFresh*TM). *LytoFresh*TM can increase the competitiveness in the fruit trading industry, allowing an increase in market territories and product quality. *LytoFresh*TM system includes a series of patented post-harvest preservation products, trade-marked AnsiP®. The shelf life of tropical fruits from the traditional 7 days has been extended to more than 30 days under the AnsiP® treatment. Some of the formulation of AnsiP® include packaging materials such as clothe series and stickers. Tablets have also been developed to accommodate customer needs. The main ingredient in AnsiP® 1-MCP has been approved by EPA for use on floral and other agriculture products with the purpose of plant preservation. AnsiP® is very safe for human use and clean for environment.

Commentary

- This product applies well-known mechanism of ethylene released by maturing produces and information about ethylene receptor inhibitor 1-MCP to come up with preservation products of practicality and economics for harvested produces and flowers.
- Tablet and non-woven cloth type ethylene receptor inhibitor 1-MCP are now commercially available with the sticker type in the pipeline. All of them are easy to use and suppress the action of both exogenous and endogenous ethylene to delay pre-maturing and aging of plants and extend storage and shelf life of produces for more than two fold.
- This product has been patented in scores of countries and acquired Chinese pesticide registration certificate in 2013.



我的開心農場企業有限公司

Myhappyfarm

簡介

「開心農場契作認養平台」可以聯繫社會的兩個階層—讓農村土地的擁有者成為農村體驗生活的供應者，用有機的方式永續地將這塊土地賦予給台灣人的感情，二由更多農村年輕的一代透過網路的呈現與連結傳承下去。為了讓消費者透過新興通路購買自然無毒有機農產品，並支持土地認養農夫契作，以突破有機小農生存困境，「開心農場契作認養平台」服務與執行項目如下：

1. 契作認養平台功能建置
2. 農民遴選與生產日誌流程建置
3. 導入企業參與契作合作模式建置
4. 推動自然生態農法食農教育
5. 虛實通路整合之行銷推廣

評語

- 本標的協助小農界接銷售通路，打開產品銷售市場。媒介個人、企業認（預）購農產品；透過體驗活動，連結消費者與生產者。
- 建立開心農場契作認養平台，強化產銷互動。發展安心農產品生產銷售模式，協助年輕人回鄉從事農業生產。

Introduction

“Happy Farm Lease Platform for Adoption” connects the land to the people. The consumers get to experience farming life while employing organic methods; the landholders would regain pride in their properties and pass it on to the future generation.

Through us, the consumers can purchase organic product and support farmers involved in sustainable farming.

Our goals and services are as below:

1. Setting up a platform to facilitate adoption leasing.
2. Pairing up prospective consumers and landholders.
3. Establishing involvement of corporate body.
4. Providing workshops for consumption of organic farming.
5. Integrating and promoting both virtual and internet marketing.

Commentary

- This product helps farmers of small scale to enter target markets. It connects individual consumer or enterprise to acknowledge and order from farmers directly and associate consumers and producers through “getting to know each other” campaign.
- Build up happy farm’s contract farming adoption platform, enhance supply-demand interactions, develop production and sales model for worry-free agricultural products, and assist youth to go back to their hometowns to farm.



開心農場契作認養平台 Happy Farm Lease platform for adoption

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協磁股份有限公司

Assoma Inc.



AVF系列變頻罐裝泵浦
AVF Series Variable
Frequency Canned Motor
Pump

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簡介

「AVF 系列變頻罐裝泵浦」是高度整合型創新產品，具有以下特色：

1. 永磁罐裝式馬達設計，節能超高效率 IE4 等級馬達設計。
2. 體積小、省空間，長度相較傳統磁力無軸封泵浦少 40% 以上。
3. 重量輕、易保養，重量相較傳統磁力無軸封泵浦少 41% 以上。
4. 具 CE、EMC 及 Atex 防爆認證，安全有保障。
5. 無風扇設計，低噪音。
6. 耐蝕塑膠泵殼與馬達外殼設計，結合 IP66 防水防塵等級，耐用壽命長。
7. 變頻降轉速運轉，輕負荷壽命長，又符合製程變化的需求。
8. 生命週期成本 LCC (Life Cycle Cost) 低，最經濟實用。

評語

- 本標的為泵浦與永磁馬達的一體設計，縮小機體，提高能量轉換效率，並運用獲發明專利之結構設計封裝防止腐蝕，可提供電子化學與石化產業，耐腐蝕及耐高溫需求之解決方案。
- 本標的除創新結構設計外，具節能、耐用、省成本、省空間、省保養之特色，深具應用潛力。

Introduction

The AVF Series Variable Frequency Canned Motor pump is a highly integrated innovative product with the following features:

1. IE4 Super Premium Efficiency, permanent magnet canned motor design
2. Compact, space-saving; more than 40% reduction in length compared to traditional magnetic drive pumps
3. Light and easy to maintain; more than 41% weight reduction compared to traditional magnetic drive pumps
4. Safe and secure; CE, EMC, and ATEX certified
5. Quiet, fan-less design
6. Long service life; Corrosion resistant plastic casing and motor housing, IP66 rated
7. Reduced speed operation, extends service life, adaptable to process requirement changes
8. Low life-cycle cost, economical and practical

Commentary

- By integrating a pump and a permanent magnet motor, this product features compact size, improved energy conversion efficiency, and corrosion resistance with patented structural sealing design. It provides corrosion and high temperature resistance solutions for electronic chemical and petrochemical industries.
- This product possesses comprehensive application potential with its innovative structural design and features of energy saving, robustness, low cost, compactness, and low maintenance requirements.



宜瑪工業股份有限公司

E-Make Co., Ltd.

簡介

「雙向抽拉工具車及連動扣鎖櫃」主要用途為裝載五金手工具之工具車，宜瑪透過參考並了解顧客需求以及使用經驗作為研發主軸，主要研發兩項創新設計：

1. 雙向抽拉的工具櫃抽屜設計，此構件之功能為針對工廠產線或保養廠為雙邊同時有工具取用需求之環境所開發，可節省人員移動之時間，並提高工作效率，此外也可使用於雙側之 Service Line，例如高鐵車廂。
2. 門板連動扣鎖，改良傳統門板鎖之設計，讓使用者可快速並單手開關櫃子門板，以解決顧客需求為主，提供顧客更便捷的操作方式。

宜瑪所設計開發的產品，始終站在顧客角度來研發，並以創造更好的使用環境為目標。

評語

- 本標的創新特色具有：(1) 雙向抽拉工具櫃的結構設計，提供同一工具櫃可以在左右兩側皆可抽拉使用的功能。(2) 門板連動扣鎖的機構，免除需雙手操作及門板關閉須一一扣合的不便性。
- 本標的已獲美國發明專利及台灣、德國、中國大陸等新型專利。
- 本標的銷售業績佳，並推展模組化及客製化的商品行銷模式，極具後續商機。

Introduction

“Two-Sided Open Drawer Tool Cabinet & One Hand Operable Cabinet Latch” is a tool cart to load hardware hand tools through our understanding of customer needs and using experience as a spindle of our research and development, with the following two main research and innovative design:

1. The first design is a two-way pull-drawer tool cabinet. The function of this component is designed for the factory production line and plant maintenance tool for bilateral access under demand for the development environment. You can save the time of moving personnel and improve efficiency. In addition, it can be used on both sides of the Service Line, such as high-speed rail compartments.
2. The second design is a door interlock padlock improving the traditional design of a door lock, allowing users to quickly switch cabinet doors with one hand and to address customer needs, mainly to provide customers with a more convenient operation situation.

Our design and development of products has always stood in the customer perspective, and to create a better environment is the goal.

Commentary

- This product features two innovations: (1) Bidirectional tool cabinet pull structure which enables the same cabinet accessible from both left and right side. (2) Door integrated latch lock design for easy door locking without closing individual lock with both hands.
- This product has acquired invention patent of America and utility patent of Taiwan, Germany, and China.
- Amid good sales performance, this product is now working on modularized and customized goods marketing model and is set to enjoy strong sales in future.



雙向抽拉工具車及連動扣鎖櫃

Two-Sided Open Drawer Tool Cabinet & One Hand Operable Cabinet Latch

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金瑛發機械工業股份有限公司

Chin Ying Fa Mechanical Industry Co., Ltd.



板式熱交換之水淋式殺菌釜
Plate Heat Exchanger for
Sprinkle Type Retort

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簡介

近年來台灣因壓力容器的定期檢測項目趨向嚴謹，本公司為改進管式熱交換器體積過大且檢驗程序過久問題，故將熱交換器更換為板式熱交換器。在民國 100 年投入水淋殺菌方法的創新，並於民國 102 年完成板式熱交換之水淋式殺菌釜，不僅可降低設備製程成本和交貨工時，且可縮減 55% 熱交換模組的體積和減少 44% 的蒸汽消耗量，後期維護保養能從原本的 4 天減少至 1 天，以及可提高食品業者設備使用性和增加設備妥善率，增加熱交換效率並降低能源浪費。

評語

- 本標的以原具發明專利之管式熱交換水淋式殺菌釜為基礎，改以板式熱交換之新設計，不僅可以提升熱傳效果，亦可簡化加工的複雜性及減少原管式熱交換之驗證程序，且可降低維修成本。
- 企業為提升標的市場競爭力，特別導入龍門銑床及自動焊接技術，以降低加工誤差及減少人力成本。

Introduction

In recent years, the regular pressure vessel testing has been more rigorous. Hence, our company had replaced tube heat exchanger with plate heat exchanger to improve the problem of bulky tube heat exchanger and redundant testing procedure. We work on the innovation of sprinkle water type sterilizer in 2011, and accomplish plate heat exchanger for sprinkle type retort in 2013. Therefore, it can not only reduce cost and working time of equipment, but also reduce 55% heat exchanger module and 44% steam consumption. Moreover, it can reduce the post-maintenance from 4 days to 1 day. It can also increase the utility rate of food industry equipment, equipment proper rate, and the heat exchange efficiency. More energy can be saved in this way.

Commentary

- This product replaces the tube heat exchange of patented trickling sterilization kettle with plate heat exchanger to improve thermal exchange efficiency, simplify production process by removing validation required by the old design, and cut maintenance costs.
- The company employs gantry milling machine and automatic welding technology to enhance product competitiveness by cutting machining errors and labor costs.

宣揚電腦顧問股份有限公司

Bethel Computer Consultant Co., Ltd.

簡 介

宣揚電腦創立於 1991 年，是台灣 POS 軟體先驅，以「流通大師」品牌建立零售、精品服飾、餐飲、藥局、寵物等行業別，累積客戶達數千商家。自 2010 年發展「行動商務」與「Jabezpos.com 全球 POS 服務雲」，四年來累計國內外數千商家可用「平板」或「手機」或「POS 機」自助 DIY 使用雲端服務，並採用信用卡自動扣款付款機制，真正打破資訊服業在地化服務傳統限制，為全球雲端服務的創新商模。隨著消費者智慧型手機普及，全球 POS 服務雲也整合「悠遊卡、行動信用卡及金融卡」行動支付，發展出「在地商圈價值提升、O2O」等服務，現有台北市五大夜市商圈、高雄 32 幸福商圈全面導入中。

評 語

- 本標的為一個針對中小企業服務業所打造的平台，使一般的小店或新創公司能以低成本在短時間內就建置起 POS 系統。
- 其技術創新特點在於聰明整合雲端技術及創新生意模式，包含雲平台資料管理及安全機制的建立和跨平台端元件的開發，並與國際大廠之 ERP 銜接，為目前唯一或是第一的 POS 服務雲平台。
- 本標的之部分技術已有專利保護，後續將往多國語言擴充，市場空間大，有機會透過網路快速成長。

Introduction

Founded in 1991, BETHEL Computer Consultant Co., Ltd is a pioneer in Taiwan's POS software system. Marketing under the "Retail Master" brand, the company has cultivated thousands of customers. The company acts as a leader in the field of Taiwan that concentrated on the development of "mobile commerce" and "global POS service cloud Jabezpos.com" since 2010. Following the popularity of consumer Smartphones, the cloud service has also integrated "travel cards, credit cards and ATM cards" to facilitate mobile payments, and further developed the "value-added localized business districts, O2O" and other services. Currently, thousands of clients districts in Taiwan and also abroad have already been led into such services.

Commentary

- This small-and-medium service enterprises focused platform enables vast numbers of small stores and new business entities to set up their POS systems at very low costs and in short periods of time.
- With innovative technologies integrating cloud technology and innovative business models, including cloud platform data management, security mechanism, and cross-platform component development as well as interfacing with leading international ERP systems, it is now the unique or the top POS service cloud platform.
- In addition to patent protected core technologies, this product is aiming at expansion into multi-language interface for expanded markets and fast growth through the Internet.



雅比斯POS服務雲平台
JabezPOS Cloud Service

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科嶠工業股份有限公司

Asia Neo Tech Industrial Co., Ltd.



全自動低壓噴塗機 Low-Pressure Spray

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簡介

PCB 產業防焊製程大突破，以噴塗方式覆蓋一層絕緣油墨，讓防焊、絕緣、護板做得更紮實，提升 PCB 板防焊製程的良率及板面美觀。本產品具備人性化操作及從節省人工人力方向研發，取代傳統印刷方式，解決專業印刷技術員須長時間調試機台的問題，本產品無需專業印刷手即可操作，也解決日益嚴重的人工成本問題，同時克服客戶端多樣化的尺寸規格及工作流程繁瑣的困擾，大幅降低成本，提升機台的稼動率，更擴增市場的競爭力。科嶠工業提供最佳自動化流程以最小的空間場地創造最大的成效，並協助 PCB 產業提升良率與效能，穩定環境製造商，科嶠工業的保證就是客戶的資產。

評語

- 本標的以噴塗上墨的方式取代以往的網板印刷製程，運用伺服馬達帶動噴槍反覆移動將油墨均勻無死角的分佈至 PCB 板上，藉由遮邊裝置改善基板雙端的留邊區域及基板周邊容易沾染油墨的問題，並利用超音波震盪清除鏈條上之油墨，節省清洗時間，系統設計具創新性。
- 標的不需有印刷技術，只需一般作業員放板即可且提升產品良率及產能，深具實用性。

Introduction

The launch of this machine, considered a major breakthrough in the solder mask process for the PCB industry, achieves better solder resist, insulation & shielding effect by spraying the printing ink to the surface of PCBs, and therefore improves their appearance and the yield in the solder mask process. The machine, based on the concept of labor saving, is designed to be full automatic operation. It replaces the traditional operating method which requires professional technicians for operation and for mechanical adjustment all the time. Thus, PCB manufacturers, once adopting it, are free themselves from problems such as labor shortage, which also leads to a dramatic cost reduction subsequently. Meanwhile, it is also designed to simplify the current complicated workflow that comes from the end users' needs of manufacturing a variety of PCB sizes or specifications. PCB manufacturers shall benefit from it to cut the production cost and to improve factory utilization, and thereby enhance their competitive edge in the marketplace.

Asia Neo Tech, providing the best solutions for automated production, specializes in assisting our customers in the PCB industry to achieve high yield & high efficiency, deriving the max. benefits out of a min. plant space. As our slogan says: our guarantee, your property!

Commentary

- This product replaces conventional screen-printing with spraying inking. It inks PCBs with servo motor driven airbrush for uniform and blank spot free coating, reduces ink smear at margins of both ends and edges of baseboards with edge masks, and saves cleaning time by removing ink residuals attached to chains with ultrasonic vibrations-- A very innovative system design.
- This product requires no printing skills at all. Any ordinary operators can place the template and start printing with improved yield and output. It is a very practical device.

國恩工業股份有限公司

Ko Win Yang Industrial Co., Ltd.



簡介

「KOWIN 粉碎料清洗機」係針對各種塑料如：膜、瓶、塊狀...等清洗物表面，含有油漬、汙泥、沙、塵土、髒污...等而設計。

清洗時，可加藥劑及熱水，可自由控制清洗時間，並同時可將藥水循環使用，可減少藥水的消耗量。

- 專利出料設計，保證不塞料，提升產量。
- 真正清洗功能的清洗機，提升塑料清洗品質，提高產品競爭力。
- 適用範圍：粉碎後的各種塑料，如 PET 瓶；PP/PE 膜、瓶、射出類；PP/PE、PET 紗類...等

評語

- 本標的針對清洗物表面含有油漬、汙泥、沙、塵土、髒污等，運用創新設計，配備有螺旋槳葉片之雙軸快速搓洗，以達到去除塑料污漬的效果。
- 本標的具有雙桶式批次設計，可連續式自動下料及清洗，且可依客戶需求在清洗過程中，加入熱水及藥水並循環使用，減輕藥水使用量，深具實用性與競爭力。

Introduction

KOWIN PLASTIC WASHING MACHINE is especially designed for crushed plastic flakes: film, bottle, lump, and etc., with oil, mud, sand, soil, or dirt on its surface.

During the washing, user can add detergent or hot water. The washing time allows control. Also, the detergent can be re-used to save the detergent consumption.

- Material discharging with patented design.
- No material jam and capacity goes up.
- Genuinely functional washing machine
— WASHING QUALITY GOES UP, YOUR COMPETITIVENESS GOES UP!
AVAILABLE
- For crushed plastic flakes: PET bottle, PP/PE film/bottle/ injection, PP/ PE/ PET yarn, etc.

Commentary

- This product employs innovative dual axes driven propeller blades to remove plastic stains from surface of target objects with grease, sludge, sand, dust, and dirt.
- This product features dual tanks batch washing design for continuous auto target object provisioning and washing. Users may opt to add hot water and cleaner during decontamination and recycle the latter to cut its usage. The product is very practical and competitive.



粉碎料清洗機 4 In 1 Washing Machine

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國泰皮革工業股份有限公司 Kotai Tannery Co., Ltd.



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簡 介

「MARIE ANTOINETTE (瑪麗·安東尼)」是國際知名品牌 Jean Paul Gaultier 設計團隊，邀請國泰皮革以「Life is Butterfly」為核心概念，替品牌開發高級訂製服所欲使用的皮料。Mr. Gaultier 的構思是，巴黎的時尚女士到了晚上變成如蝴蝶般翩翩起舞的歌舞秀女郎，來呼應光之城的多種風貌。國泰皮革先以霓彩金屬處理在 0.5mm 厚度的柔軟無鉻環保皮革表面，暗示絢麗的蝴蝶翅膀，再交叉運用水手橫條紋及仿羽毛的 2 種獨創立體切皮工藝來呈現設計師的經點元素及麗都歌舞女郎的味道。Mr. Gaultier 把「瑪麗·安東尼」與鑲上 Swarovski 水鑽的刺繡蕾絲薄紗結合，運用在 Cardigan Suit、高跟鞋、手套及飾品，於 2014 春夏巴黎高級訂製服裝發表會中，配以模特兒的紅色鑲鑽嘴唇及假捲菸於伸展台上讓人驚豔，蝴蝶隱喻的短暫美麗及蛻變也被發揮的淋漓盡致。

評 語

- 本標的命名為瑪麗安東尼 (MARIE ANTOINETTE)，係為在豬皮料件以刀切方式和霓彩貼膜效果，呈現出「時尚高級訂製服」的立體繽紛光澤，使符合國際時尚設計大師 Jean Paul Gaultier 於 2014 春夏季發表會之展出主題：「Life is Butterfly」。
- 在製程上，採無鉻鞣製法且使用不含 8 大重金屬的天然染料；本標的通過 SGS 檢驗，並符合 ZDHC，兼及安全環保考量。
- 於效益面，因利用較低成本且具粗毛孔之豬皮，故不但可降低成本，又可提高附加價值。

Introduction

Life is a Butterfly! JPG Haute Couture SS2014 was overflowing with playful butterflies. Marie Antoinette, a fantastic work that captures core idea of the season.

Metal Free skin was treated with iridescent coating--suggesting the shimmering wings of butterflies; Rich with inventive 3D knifing techniques; Nautical stripes--designer's signature element for chic lady; the subtle feather-edge--a fancy touch of the flavor of Lido showgirl that she became by night.

Marie Antoinette was used to embroider a tulle cardigan suit trimmed with Swarovski studs, as well as in pumps and accessories, dazzle with red crystalized lip and fake cigarette on the runway. Those symbols of transitory beauty and transformation were achieved to its maximum potential.

Commentary

- Named MARIE ANTOINETTE, this product looks 3D vivid and glossy "stylish and classic tailor made clothing" for pigskin processed with cutting and neon color filming. It complies with the theme of "Life is Butterfly" set by Jean Paul Gaultier, the international fashion master, in his Spring Summer Show of 2014.
- This product employs chrome free tanning and natural dyes free from 8 major heavy metals. It is SGS certified and ZDHC compliance for safety and environment protection.
- Thanks to low cost and coarse pores pigskin, this product features both low costs and high added values.



眾至資訊股份有限公司

ShareTech Information Co., Ltd.



簡介

雲端服務的興起，眾至建造了「UTM 雲端網路防護平台」，提供電信業者、ISP、主機代管與安全管理服務業者建立公有雲防護服務，也可以提供給大型企業、中小企業、機關、學校建立私有雲安全防護網。而為了讓企業、機關可以在有限的人力、預算、時間下維護系統，另提供雲端網路控制中心。除了可以在第一時間，讓管理人員掌握各分點設備運作狀況外，並可以藉由智慧型平板裝置搭配 APP 應用程式，做到即時通知、即時應變、即時處置，打造幾近零時差的維護管理，讓 IT 系統維護商可以與系統管理者更緊密的聯繫。

評語

- 本標的主要提供中小企業一個安全、穩定的雲端網路控制中心，以雲端之 ShareTech 的中央管控台進行集中管理，抵抗外部攻雲行為並提供內部一套穩定郵件稽核運作系統。
- 創新特色為：(1) 提供企業私有雲 /ISP 雲端代管服務，提供給服務的 IT 業者一個可即時回饋的計量模式，為一種具彈性、新的經營模式；(2) 可搭配即時 APP 應用程式聯絡客戶，在第一時間掌握所有設備運作狀態。
- 本標的將軟體與虛擬化硬體整合產生產業價值鏈，降低網路防護成本，提升中小企業網路安全防護，已有不錯之國內外行銷實績，極具市場競爭力。

Introduction

Rapidly expanding wireless network horizons has led to an increased demand for converged management for cloud service. ShareTech introduces a UTM cloud service platform providing public cloud for Telecommunications service provider, ISP, Colocation services & colocation hosting centers; Private cloud for SMEs, government departments, and schools. In order to provide satisfying requirements, new UTM device contains a central administration control panel, a view of all end-user devices for IT administrators to easily determine violators and exercise disciplinary action. Integrated operation status of each virtual platform and device at sites, ShareTech cloud central management system allows its APP to combine with any smart devices.

Commentary

- This product provides SMEs with a secure and reliable cloud network control center to centralize management with central monitoring console of cloud ShareTech to prevent external cloud intrusion and offer a stable operation control system against internal emails.
- Innovations:
 - (1) Provide enterprise private cloud/ISP cloud colocation service an instant measurement feedback model as a flexible and new business model.
 - (2) Work with instant APPs to get hold of operation status of every equipment at the very first moment.
- This product integrates software and virtual hardware into industry value chain to cut network protection costs and improve network security protection of SMEs. Its market competitiveness has created satisfactory domestic and international sales results.



UTM雲端網路防護安全平台 UTM Cloud Network and Security Platform

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麻新電子股份有限公司 Mashin Electric Corp.



**MS-300三合一多功能全
自動鉛酸電池充電器
MS-300 Intelligent
Battery Charger 3 in 1
Multi-Function**

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簡 介

「MS-300 三合一多功能全自動鉛酸電池充電器」可針對機車 / 重型機車 / 大型重型機車充電。其採用 MCU 微電腦自動控制，達到三機合為一體（簡易電池測試器功能 / 電池充電器功能 / 電池救援充電功能）。有效的維護電池並發揮電池效能，當充電狀態到第 8 階段時會自動進入電池守護神模式更能保護維持顧客愛車電池，減緩長期未發動時電池自放電的損耗，得到安全又有效率的充電，採用高效率電路設計，可節省更多能源，並具節能減碳效果。創新開發 AI 控制技術，採用 MCU 數位可程式智能充電控制，有別於傳統 OP 類比充電控制。創新 8 階段自動充電控制模式，不同於現有傳統式線性充電控制或 3 階段充電控制，能更有效提高充電效率及延長電池壽命。

評 語

- 本標的為一針對機車之鉛酸電池所開發之多功能充電器，其創新之處有二：(1) 首創將 Switching Power Supply 技術應用於鉛酸電池充電，大幅提高能源效率並延長電池壽命；(2) 整合充電器、電池檢測器及救援充電器三功能於一身，使用者之需求被充分滿足。
- 本標的曾獲得 2014 年台北國際車用電子展產品創新獎，並已有優良的銷售實績，外銷日本，充份展現 Made in Taiwan 產品之優良品質。

Introduction

MS-300 multi-functional automatic lead-acid battery charger for scooter / motorcycle / heavy motorcycle charging. Using MCU microcomputer automatic control, 3 in 1 design (simple battery tester function / battery charger / battery rescue charger). Effectively maintain your battery and play battery efficiency, so each time you could easily start the engine when charging is completed, allowing you to save even more energy efficient to reach without the burden of charging systems. AI control the development of innovative technology, using MCU digital programmable intelligent charge control, unlike traditional analog OP charge control. Innovation 8 Stage automatic charge control mode, unlike the existing conventional linear charge control or 3-stage charge control, can more effectively improve the charging efficiency and extend battery life.

Commentary

- This is multi-function charger for lead-acid battery of motorcycles with two innovative features:
 - (1) First applying switching power supply technology in charging lead-acid battery for much better energy efficiency and extended life cycle.
 - (2) Integrates charging and backup charging and battery inspection functions in one device for full user satisfaction.
- This product not only has won the product innovation awards in Taipei AutoTronics 2014 but also has excellent sales in local and Japanese markets. It proves the good quality of products Made in Taiwan.



棕茂科技股份有限公司

Coalition Technology Co., Ltd.

簡介

棕茂科技為台灣第一家生產牙科用氧化鋯生醫陶瓷 - 所研發之「仿天然齒色高透光氧化鋯陶瓷塊」，在粉料配比中含有顯色元素，能製作在燒結後與天然齒色相近之不同色系 (16 色系) 的高透光氧化鋯瓷塊。此陶瓷塊材擁有高透光的性質，因燒結後能得到與天然齒色相近之牙科補綴物，這樣一來可以節省牙技工所製作補綴牙的時間，相當符合市場需求，對於病人及牙技師都是一大福音。

評語

- 本標的以氧化鋯為主體，添加不同元素，作出仿天然齒色、高透光之陶瓷塊，可進一步以 3D 齒雕機客製化成所需之牙冠 (crown)，牙橋 (bridge) 等齒科用生醫陶瓷組件。
- 除在材料配方之創新外，製程上摒除傳統製程所需之染色、浸泡和陰乾等步驟，可解決傳統剝落問題外，在成本上亦可大幅降低。
- 所開發之色系已有 16 色系，且符合 ISO 13485、ISO 9001 和 GMP 廠之需求。本標的可在不同品牌設備上加工，目前以自有品牌 CTC 行銷於牙技所及牙醫業界。

Introduction

Our company developed similar to human teeth and high translucency zirconia blank, where the color element is already introduced in the raw material. After sintering the whole range of natural tooth colors can be achieved. Additionally the high translucency of these pre-colored material guarantees tooth-like resemblance. Using our pre-colored high translucent Zirconia blanks can save working time for the dental technician because additional working steps of dipping and coloring can be omitted. This brings great benefit for dental technicians, dentists and patients.

Commentary

- This zirconia-cored material may be added with different elements to ceramic block with color and high transmittance similar to natural tooth which, in turn, could be made into biomedical ceramic components, e.g. crown and bridge, for dentists.
- In addition to an innovative material formula, this product is made without dying, soaking and drying routines required by conventional process. This benefits the product with drastic cost reduction and frees it from existing spalling flaws after long-term use.
- This product now features 16 color systems compliant with specification of ISO 13485 and ISO 9001 and GMP brands owners. It can be processed by equipment of different brands and is now selling to tooth contractors and dental industry under brand name CTC.



仿天然齒色高透光氧化鋯陶瓷塊 Similar to Human Teeth and High Translucency Zirconia Blank

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AMARYLLO

愛瑪麗歐股份有限公司

Amaryllo International, Inc.



全球唯一獲得Microsoft
Skype 認證並整合Google雲
端儲存的智慧家庭安控系統
World's First Microsoft Skype
Fully-Certified Smart Home-
Security Systems Integrated
with Google Cloud Storage

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簡 介

愛瑪麗歐 (Amaryllo) 獨家開發全球唯一獲得 Microsoft Skype 認證並整合 Google 雲端儲存的智慧家庭安控系統。產品 iSensor HD 及 iBaby HD 於 2014 年 6 月 Computex 展中分別於智慧科技及安控項目中獲得第一名 Best Choice 獎，iBaby HD 更被選為大會的評審團特別獎 (Jury's Special Award)。Amaryllo 的無線網路安控系統，已申請十個以上的全球專利，除採用全球最安全的 256 位元加密技術，也具有 1280 x 720 HD 的高畫質解析度且可 360 度全視角轉動鏡頭，也能對物體移動及聲音偵測提供即時警示通報。此產品無外露天線，可降低幅射，可全方位安全監控寶寶動態。不僅保障傳輸過程的保密安全性，使用者也無須另支付傳輸費，對消費者而言為最經濟實惠的創新產品。

評 語

- 本標的其創新之處為整合了 Google 免費雲端儲存機制，使用者可輕易解決錄影資料的儲存問題，並可方便進行資料管理。
- 本標的產品多項技術均有專利保護，並獲得全球唯一之 Microsoft Skype 認證，技術門檻高，系統開發難度亦高，但企業具獨立研發能力並獲國際大廠認可。
- 本標的之軟體、硬體、機構設計與製造均在台灣完成，故產品設計與品質優異，市場性佳，2014 年上半年已有亮眼的銷售實績。

Introduction

Amaryllo International has offices in both Europe and Taiwan and is focused on producing award-winning IP camera products, all of which are designed, manufactured, and tested within Amaryllo facilities to guarantee the highest quality. Being certified and compatible with both Microsoft Skype and Google's WebRTC P2P technology, Amaryllo is the only company to offer free cloud storage and 256bit audio/video encryption. A unique design and ease of use brought the attention of Gartner, the world's leading technology investment research company, and they chose Amaryllo as one of the "Cool Vendors" of 2014 and featured in its 2014 Connected Home report. This year at Computex, the iBabi HD won the Jury's Special Best Choice award and the iSensor HD won a Best Choice award in the smart home category.

Commentary

- This product enables users to save recording data easily and manage them easily with innovative integration with Google cloud storage.
- Multiple techniques employed by this product are patent protected and acquired global unique Microsoft Skype certification. Its high technology entry barrier and system development requirements won leading international brand owners' acknowledgement in the Company's independent R&D capacity.
- Both hardware and software of this product are made in Taiwan. With excellent design and market acceptance, it has made stunning sales performance in the first half of year 2014.



聖州企業股份有限公司

Formosa Saint Jose Corporation



簡介

就汽車踏墊而言，消費者首重止滑之安全，舒適、耐用、美觀、不傷車內地毯…等功能次之，聖州企業持續探究汽車內飾件的無限可能，前瞻思索何以完美結合汽車美學與安全效能。研發單位專注開發獨特「黏扣止滑材料構造」，將其特點商品化，研發出更具安全止滑並環保之汽車踏墊 - 「3D 神爪安全車踏墊」，奠定汽車內飾件當代頂尖指標，止滑效能革新，實踐聖州企業隨世代前進的極藝思維。本材料構造具國際專利神爪設計，獨創止滑技術，特有鋼性纖維，全面抓合車毯，完全嵌入車內地毯間隙，嚴防踏墊滑移突卡油門，使行車安全無慮。其材質安裝取用便利、防水易洗好清理、不傷車內地毯，保有汽車內裝毯質。聖州企業產品發明策略在於有效解決行車安全之疑慮，並給予消費者舒適安心之行車安全保障。

評語

- 本標的與競爭產品相比，具安全、質輕、成本低、環保和不破損汽車內裝地毯等特色。
- 本標的以聚酯 (polyester) 抽成單絲，經過整經、經編、定型等步驟，得到縷空之聚酯產品，將其與發泡材和易清洗之面料結合即成止滑腳踏墊，ARTC 測試結果，此腳踏墊可承受 53 公斤力量不滑動。相關止滑技術已應用在行李箱止滑、拖把等產品。
- 已獲數十國專利，曾獲 102 年度之國家發明獎金牌獎、德國 Red Dot 等獎項。配合新車型研發客製化腳踏墊，可作成立體結構。產品已用在 Audi、Mazda、KIA 和現代等新車型。

Introduction

The touch-fastening anti-skid material is the revolutionary interior protection for your vehicles with an innovative, unique patented anti-skid bottom layer keeps mats in place without harming the original carpet like Velcro or without leaving marks like nubs of traditional rubber floor mats. Our patented Anti-skid material, we called "Maxpider" has been fully commercialized into our full ranges of Car Floor Mats, Trunk Liners, Door Mats, etc. In addition, some car manufacturers like Audi in Europe, Hyundai/Kia/Mazda in Canada, Lexus in Japan have already implemented this "Maxpider Anti-Skid Backing" into their OEM Car Floor Mats.

Commentary

- This product is safer, lighter and more environment friendly, costs less, and imposes no damages to vehicle's existing blanket when compared against competitive products.
- This anti-slip footpad is made by combining hollow out PE bottom to facing of foamed and easy-to-wash materials. The former is made by PE monofilament through warping, warp knitting, and setting. It is ARTC certified to withstand force of 53KG without slip. The same anti-slip technology has been applied in appliances including luggage and swab.
- This product has acquired patents from dozens of states as well as won gold medal of National Invention Award 2013 and Red Dot Award (Germany). Custom footpad for new car model, even in 3D structure, can be provided on request. This product has been adopted by new models of Audi, Mazda, KIA and Hyundai.



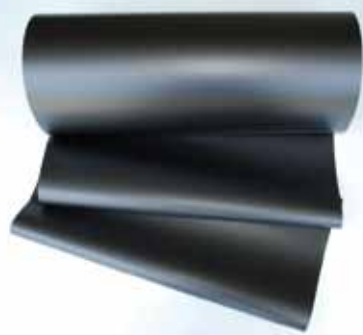
黏扣止滑材料構造 Structure of Touch-Fastening Anti-Skidding Material

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達勝科技股份有限公司 Mortech Corporation



不透明黑色聚醯亞胺薄膜材料

An Opaque Black Polyimide Film and Materials

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簡介

因應客戶美系智慧型手機、平板及電腦大廠需求，達勝科技不僅創新研發「不透明黑色聚醯亞胺薄膜」，提供軟性印刷電路板及電池加工製造廠，兼具節能減碳（非黑色油墨塗佈加工）、製程簡單一次完成及信賴性好的加工產品。更深化擴大創新成果，發展出黑色具有不同亮霧面、柔軟與高剛性等多款產品以滿足客戶多方位和差異化的客製產品需求。

達勝科技以自我研究開發的創新技術，為國內唯一、全球少數有專利可生產「不透明黑色聚醯亞胺薄膜」，使材料能本土化且穩定迅速供貨，產業轉型或技術升級不再受限國外廠商，提升整體競爭力。

評語

- 本標的可廣泛運用於平板電腦、智慧手機等軟性印刷電路板，比起傳統市售產品之琥珀色透明聚醯亞胺薄膜，更具美觀質感、安全可靠、保密防護及良率提高等優點，加上其製程環保、快速生產、成本低廉，極具市場競爭力。
- 本標的已打入美系大廠等 3C 大廠供應鏈，創造近新台幣千萬餘元業績，其發展前景，值得期待。
- 自行開發創新製程一步到位，綠色環保且因材料成本降低，故可大幅提高本標的附加價值，符合創新研發獎勵目的。

Introduction

In response to the huge market demand of mobile device, Mortech developed the new products of "opaque black polyimide film". We also focus the energy saving and carbon reduction by product design, we claim the simple process and high quality products to our customer for flexible printed circuit boards and cell processing factories. Mortech's design thinking integrating innovation customer experience and the product value enhancement.

The R&D strength of Mortech acts as a leader in the PI field. The most important contributions are to make the material can be quickly and stable localized supply for the industrial transformation or technology upgrading is no longer limited by foreign manufacturers to improve the overall competitiveness of the industry.

Commentary

- This product is applicable with most flexible PCB for tablet and smartphone. With features including better looks, safety and reliability, security protection and higher yields than conventional amber colored transparent polyimide film as well as environment friendly, fast and low cost production this product is very competitive in the market.
- Growth for this product looks cheerful, as it has been certified by supply chains of the US department of giant and other global brands with sales up to TWD 10 millions.
- This company possesses the in-house developed innovative production flow, which is not only green and environmental but also leads to high added values on account of low material costs. It deserves the innovative R&D awards.



頑石創意股份有限公司

Bright Ideas Design Co., Ltd.



簡介

2013 年「圓明園特展 - 大清皇帝最美的夢」首開台灣數位巡展文化輸出先鋒，以文化創意與資產保存的概念出發，嘗試將當代已失去歷史脈絡的文化遺址，透過展覽空間規劃和藝術科技使用，以多層次的角度重建；藉由展示設計的互動體驗，將不可見的歷史脈絡與不復存的遺跡透過當代科技轉為可視，試圖「重新建立、重新認識、重新發現」圓明園遺址。這個展覽將成為當代藝術科技再現歷史遺跡與考古文物的重要突破，透過藝術與科技的結合，藉由展覽的互動設計，邀請觀眾一同走進圓明園曾經輝煌的歷史。

評語

- 本標的結合科技與歷史文物，運用最新 4K 面板技術於數位展品呈現，並結合感測裝置，發展長捲軸、空間互動等多樣化體驗展示模式。
- 搭配數位內容與實體展示場域，透過授權擴大數位內容應用價值，開拓文化創意市場商機。同時透過關鍵整合技術 Know-How 保護產品內容，避免被侵權複製。
- 整合國內硬體優勢，連結世界級展場合作夥伴，建立台灣整場文化解決方案輸出優勢。

Introduction

This exhibit represents a comprehensive approach in applying contemporary art and technology to the recreation of The Old Summer Palace in Beijing, also known as the "Garden of Gardens." It is intended to reach both national and international audiences. In the past, 3D and architectural model simulation techniques often have been used to recreate and present The Old Summer Palace as computer visualizations. However, this is the first time that archaeological artifacts of The Old Summer Palace will be combined with digital technology to develop a "fully integrated" design for an exhibition. The approach will add significant depth, content, and broad audience appeal based on a foundation of historical reconstruction. Among the many exhibits that have dealt with The Old Summer Palace, this exhibition is unique in being the first international effort involving cooperation across the Taiwan Strait - making it a truly milestone event.

Commentary

- This product integrates science and historical artifacts with the latest 4K panel technology for digital exhibition and develops diversified immersive exhibition model, e.g. long scroll and spatial interaction, by integrating with sensor devices.
- Enlarge digital contents application values and create cultural and creative market opportunities by combining digital contents and physical exhibition sites. Protect product contents against unauthorized copy through key integration technique Know-How.
- Integrate domestic hardware strength and partner with world class exhibition hosts to create cultural solution export strength out of Taiwan.



圓明園數位巡展 Yuan Ming Yuan Touring Exhibition

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圖騰包裝股份有限公司 Totem Pak Solutions Co., Ltd.



PP5浮水印淋膜墨內安全紙杯
PP5 Ink-in™ (Ink-wrapped)
Paper Cups

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簡介

圖騰包裝自行研發的先進製程，提供消費者最高等級的食品安全防護。使用潔淨水為溶媒的水墨先印刷，再淋膜上耐高溫的 PP (5 號塑膠) 材料，將印刷層包覆在 PP 薄膜裡面，完美阻絕印刷材料的接觸，避免消費者受到化學物質的侵害。

「PP5 浮水印淋膜墨內安全紙杯」的特色為：

1. 具浮水印的 PP 薄膜，讓消費者容易辨識產品的材質。
2. 耐 100°C 高溫的材質，保障消費者食用的安全。
3. 使用水墨印刷，無「有機溶劑」的刺鼻氣味，維持食品的原始風味。
4. 全球獨家的創新製程，將印刷層包覆起來，完全隔離塗料，避免食品受到污染。

評語

- 本標的考量無溶出物的危害，在紙杯製造上採用 PP5 淋膜，較一般紙容器之 LDPE，更適合於高溫飲料使用。
- 避免有機溶劑殘留問題，使用水作為印刷介質，並在再生林紙漿之較薄紙杯內、外淋膜包覆 PP5，可增加杯體強度而縮減紙料成本。
- 本標的已獲台灣、中國各兩項新型專利及 SGS、TUV 認證，廠區亦通過 ISO22000 及 HACCP 國際認證。

Introduction

Totem Pak's ink-wrapped printing technique provides the best performance on food safety for end users. PP5 Ink-in™ (ink-wrapped) Paper Cup is in process of flexo printing first, using clean water as the solvent, and then coat high temperature resistance PP material on the printed surface. As a result the printing is perfectly covered under the PP film and totally isolated. Therefore, PP5 Ink-in™ cup lets end users avoid health harm of printing chemical contamination.

The specialties of PP5 Ink-in™ paper cup are as follows:

1. PP coating film with the embossed watermarks let end users identify the coating material on the cup easily.
2. The coating material resists high temperature up to 100°C and ensures food safety to end users.
3. Flexo printing, which is using water-based ink, has no pungent smell caused by organic solvent and well keeps the original flavor of food.

Commentary

- Made by PP5 laminating to avoid hazards caused by leached substance, this new paper container is more suitable for high temperature beverage than those of LDPE coating.
- Printing with water media and laminating coating the inner and outer wall made by renewable forest pulp with PP5, this paper cup not only eliminates organic solvent residues but also enhance cup body strength at lower costs. This product has acquired two utility patents of Taiwan and China respectively and certified by SGS and TUV. Its workshop is also certified by ISO22000 and HACCP.

寧茂企業股份有限公司

Rhymebus Corporation

簡介

「R-Rider 智慧健身發電控制系統」係寧茂以「人力發電」為概念所建置之綠能電力資源結構系統，將能源回收系統導入健身器材，藉人力踩踏所產生的動能轉換為電力輸出，直接供電或回送市電網絡，具備高效發電與轉換、隨插即用、裝置不影響陳設等特色，更可結合電力線通訊 (PLC) 進行資訊傳輸與蒐集，不僅具有增加心肺耐力與健身之功效，同時具有節能減碳之效益，可廣泛運用於多種運動器材上。此技術已取得多國專利認證，並投入國內外市場的推廣，於產學業界建置示範運行「健身綠能發電站」。

評語

- 本標的整合創新之「雙向電力轉換電路結構系統」、「雙向電力驅動電路結構系統」、「電動發電兩用轉子機具結構系統」及「能量管理電路結構系統」等模組，將人力動能轉換成電能供健身器材使用，或將電力回饋市電，創造再生能源。
- 本標的除可運動外，更增加了發電及減碳的高附加價值，可廣泛運用於各種運動器材，如橢圓機、健身車、飛輪腳踏車等，具實用性。

Introduction

R-Rider is a newly developed green energy system owned by RHYMEBUS, applied energy harvesting technology to fitness equipment which can transfer human power to electricity directly for equipment use or into electrical grid when exercising.

R-Rider has advantages of high efficiency in power generation and conversion, easy plugging, built-in design without any extra device. The system can also supply for data transmission and collection providing with PLC and multiple applications of fitness equipment are available. By using R-Rider can people not only promote their cardiopulmonary function while exercising but also save energy for environment protection.

This technology has now been patented in many countries, gains strongly attention in the market and also set up "Green Energy Power Stations" in many schools.

Commentary

- Combining "bi-directional power conversion circuit structure system", "bi-directional power driving circuit structure system", power driving and generation dual purposes rotor mechanic structure system" and "energy management circuit structure system" modules, this product converts muscle power into electricity to drive fitness equipment or feed in grid power as renewable energy.
- In addition to fitness and sports, this product features added values of power generation and carbon reduction for scores of sports equipment including elliptical machine, exercise and freewheel bicycle.



**智慧健身發電控制系統
R-Rider
(Fitness Equipment Energy
Regenerating System)**

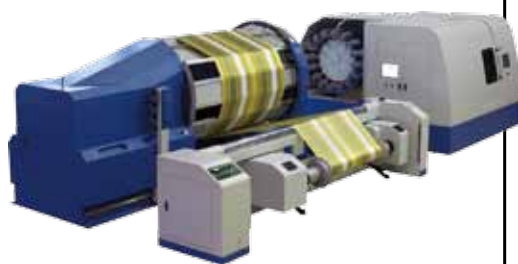
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碩奇科技股份有限公司

CCI Tech Inc.



環式整經機
Ring Warper - Lutan V5.0

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簡介

整經是梭織生產的重要準備工程，各種傳統的整經方法各有其優劣，少量多樣化的訂單需求是產業的發展趨勢，在這個趨勢下各種更具彈性的生產技術不斷被發展出來，環式整經最少只需要一個筒紗就能完成整經，過程也高度的自動化，完全符合短碼整經彈性的生產需求，能大幅提升打樣或是小量生產的效率。

單紗整經機採用獨特的環式整經方法，能提供良好整經品質；兩種不同大小的整經滾筒的設計適合不同整經長度的需求，三種不同紗架各有其不同的動作方法；使用者可依產品特性或不同的產量需求等因素做出合適的選擇。

評語

- 本標的突破德國、日本等常用之皮帶橫移裝置整經專利，改以創新之環式裝置整經，且能完全掌握機構與自動控制之設計與製作能力。
- 本標的係搭配小量多樣高彈性樣品的整經打樣設備，紗線用量可大幅降低，備紗成本大幅減少，且技術操作人員可一人同時操作兩台機台，符合市場需求趨勢，實用性佳。

Introduction

The demand for small quantity orders is becoming more and more popular and this set the format for future business. Under these circumstances, new production techniques with high flexibility are continuously being introduced into the industries. Single-end warping is one of those, which requires minimum one bobbin to do the job. The process is highly automated and fully satisfies the flexible nature of short run warping. This also dramatically increases the efficiencies of sampling and small quantity production.

LUTAN is unique in its design that uses a "Ring" for warping. This completely new way of warping gives the best quality warp beams. LUTAN provides two different sizes of drum to meet the different requirements in warping length. There are also three kinds of creel of different designs for different applications. There is always a suitable combination from the specifications to fulfill different requests on product characteristics and quantity.

Commentary

- This product replaces the patent protected lateral moving warping device employed by most Germany and Japanese enterprises with innovative ring warper. The company possesses complete design and manufacturing capacity of mechanic and auto control.
- This product cuts yarn uses and inventory costs by working together with warp proofing equipment for flexible production of samples of small quantity and heavy diversity. It also enables one operator to operate two machines at the same time to meet market requirements with good practicality.



精湛光學科技股份有限公司

Ching Chan Optical Technology Co., Ltd.



簡介

隨著國際市場對螺絲、電子零件等扣件品質要求提升，國內外廠商對扣件產品之檢測篩選精度、準度要求也更加嚴格。有鑑於此，傳統篩選方式已無法達到廠商對篩選品質的要求。「360 度牙傷光學檢測篩選機」係以分度盤傳送扣件時，配合頂起與旋轉機構帶動扣件旋轉，再以線性 CCD 擷取檢測物之 360 度影像，配合精湛自行開發 360 度牙傷之檢測軟體，即可準確判讀扣件 360 度之牙傷或雜質等表面瑕疵，取代傳統檢測機台，不僅有助於降低檢測扣件牙傷時所耗費之時間與人力等資源成本，更有助於提高篩選精度與準度，使扣件產品更經得起市場考驗。

評語

- 本標的以獨特的磁吸座設計吸住螺絲，並藉由馬達及連動機構帶動螺絲旋轉，以及搭配線性 CCD 及線性光源擷取螺絲 360 度之 2D 影像，再配合自行開發檢測軟體，達到螺牙 360 度全周牙傷檢測及自動篩選的目的。
- 本標之創新設計有效降低 CCD 設置數量降低成本，有利市場行銷，對客戶也可以降低檢測人員需求，縮短篩選時間，提升產品品質，深具實用性。

Introduction

Along with severer requests on the quality of fasteners in automotive and electronic industries, international and domestic fastener makers raise their requirements on sorting accuracy and sorting functions.

Due to this reason, traditional static optical inspection isn't sufficient for customers' further requirement on thread damage inspection.

The new developed "360 degree rotation optical sorting machine" is using rotary disc to hang sorted objects on the sorting platform, then utilizing left-up and rotation mechanism to rotate parts. While parts is rotating, line-scan camera captures images and in-house-developed software do analysis on thread damage or surface defects.

By this automation machine, customer can greatly reduce time and labor cost on thread-damage inspection. Moreover, by offering quicker delivery and guaranteed products, company competitiveness and reputation will be guaranteed.

Commentary

- This product enables 360-degree thread damage inspection and auto sorting with exclusive magnetic stands to secure screws. It then turns the screw with motor driven chain mechanism to capture its 360-degree 2D images with linear CCDs and light source. The image is then reviewed by in-house developed inspection software.
- Innovative design of this product cut costs by reducing CCD requirements for easier marketing and reduced inspection manpower, less sorting time, and improved product quality.



360度牙傷光學檢測篩選機
360° Thread Damage
Optical Inspection Sorting
Machine

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Openfind™

網擎資訊軟體股份有限公司

Openfind Information Technology, Inc.



**Openfind MailAudit
郵件稽核系統**
**Openfind MailAudit - Mail
Confidentiality Protection
System**

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簡介

「MailAudit 郵件稽核系統」專為企業用戶解決郵件外寄時的各項安全與附檔管理需求，包含避免機密外洩、郵件加密傳遞、附檔追蹤監控及防止名號遭偽冒等議題，並具有專利獨家個資偵測技術，可支援多項郵件伺服器品牌。從管理者角度出發，協防各類重要資料透過郵件或附檔外洩；同時考量使用者情境，提供誤寄防護機制，滿足企業主與員工使用需求。不僅可針對各部門定義專屬郵件稽核政策，更保有完整郵件稽核紀錄、備忘稿，與即時通知機制，提升郵件稽核管理效率。郵件加密方面，具備高規格郵件 PKI 簽章與加密服務，也提供創新 PDF 加密模組，兼顧安全性與便利性。

評語

- 本標的可避免員工在發送郵件中夾帶違反公司規定之訊息內容，如個人資料或商業秘密。
- 提供多樣化過濾規則設定功能，可以滿足不同企業之外送郵件稽核需求。另具加密、儲存與記錄等功能，可以有效掌握外送郵件之寄送與收件者閱讀狀態。

Introduction

Openfind MailAudit - Mail Confidentiality Protection System is a mail gateway system which solves issues about mail security and attachment management when mail is delivered. We offer various solutions, including confidentiality disclosure prevention, mail encryption, attachment tracking, anti-fraud issues, and patent personal data detection. In addition to administration aspect, we also provide user-oriented functions and mis-sent protection. Users do not need to worry if they accidentally send out confidential information. The product offers an elastic series of rule setting policies. Enterprises using MailAudit can define mail auditing rules based on respective demands of each group. Comprehensive auditing records, brand-new PDF encryption, PKI signature module and instant notification are all equipped in the delicately-designed software.

Commentary

- This product block employees' from sending emails with contents against company policies including personal data or commercial confidential.
- It features diversified filter rules and setup function to meet enterprise requirements in auditing outgoing emails. Its encryption, storage, and log functions control the sending of outgoing emails and reading status by the receivers.

領航生技股份有限公司

Pilot Biotechnology Co., Ltd.

簡 介

「邁服寧®」產品為一專利益生菌產品，主要添加專利菌為 CMU995 胚芽乳酸桿菌，或稱為植物乳酸菌。目前 CMU995 益生菌已取得兩項發明專利，第一項為對抗幽門桿菌或其他腸胃道病原菌之八國國際專利；102 年研究證實，此菌株也具有降低血液毒素、保護肝臟的效果，因此申請第二項國際發明專利。此外，也完成 CMU995 菌株之發酵量產程序，為使菌株能安全通過胃酸並存活於腸道中，進一步研發出新型微膠囊包覆結構體，也已申請專利。未來，此產品將朝向預防或治療腸胃道感染及肝臟疾病之天然物新藥開發方向持續邁進。

評 語

- 本標的之 CMU995 胚芽乳酸桿菌，是該公司與中國醫藥大學所研發的產品，初步證明具排除腸內毒素和保肝功效（已獲得多國專利）。
- 技術層面上，可將菌數培養至最高濃度 1×10^{12} CFU/g，有助往後產品的生產；在製劑部分，研發完成四層包覆乳酸菌之微膠囊，以保護菌粉安全通過胃酸和膽鹽的破壞。

Introduction

Microflora® of a patented probiotic-product adds a screening strain of Lactobacillus plantarum CMU995. Currently CMU995 probiotics has passed two patents, the first patent is against H. pylori or other gastrointestinal pathogens, and applied for the patent in eight countries. Research found CMU995 strain also has a new function for liver protection by reducing the endotoxin into blood. Therefore, we applied the second patent. In addition, the fermentation process and control of CMU995 strain is successful development. For the stability of viable count in intestinal tract after pass through the gastric acid, we further developed a new microcapsule coated structure as well as applied for a new patent. In the future, CMU995 strain will develop a nature-new drug for the prevention or treatment on gastrointestinal infections and liver diseases.

Commentary

- The CMU995 lactobacillus plantarum is a product developed by the company and China Medical University. It is proved for intestinal toxins removal (patents from couple of countries acquired) and liver protection efficacy (patent pending) primarily.
- Technically, it is possible to culture required bacteria to concentration up to 1×10^{12} CFU/g for easier production later. Regarding preparation, the microcapsule of four layers lactobacillus shields has been developed successfully to prevent lactobacillus powder from damages by gastric acid and bile salt.



邁服寧®專利益生菌 995-Microflora

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緯士登科技股份有限公司

Wish-Tech Automation International Corporation



全自動壓粉機(進階型) Automatic Powder Press Machine (Advance Type)

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簡 介

整合了傳統壓粉製程生產方式與動作特性，緯士登將所有製程細節進行拆解分析，用以取代本製程人力之模組設計，進而成就了「全自動壓粉機 - 進階型」的誕生。

其特色如下：

- (1) 視覺系統與機械手臂自動辨識取放容器。
- (2) 自動入粉模組可精準控制粉料裝填。
- (3) 多段彈性參數之自動多段油壓。
- (4) 成品粉面清潔設計，可維持成品粉面完整清潔。
- (5) 成品輸出模組，將整段製程轉為自動生產。
- (6) 自動補鋁盤 / 補粉模組，提供自動供料並維持運轉不停機。
- (7) 成品自動交換模組，提供成品連續收料儲存，人員可不停機取料。
- (8) 撥粉加強模組，可有效提供各類粉體高品質生產。

評 語

- 本標的將傳統化妝品市場壓粉製成粉餅之每一道製程，完全以機器取代，整合創新技術，如視覺系統搭配機械手臂之自動辨識取放鋁皿、伺服控制之自動入粉裝置、粉面自動清潔系統、成品自動堆疊及自動變換儲存等，達成整機自動化。
- 本標的將化妝品製程中環境最差的壓粉製程自動化，除節省人力、提升品質穩定度外，也免除傳統製程工作人員長時間的粉塵污染，深具實用性與競爭力。

Introduction

Integrating traditional powder pressing processes and specialties, we aim at analyzing all kinds of productions structured and unstructured. Automatic Powder Pressing Machine Advanced is bringing labor- replacing process by module designing.

- (1) Picking and receiving by vision & robot auto. identity system.
- (2) Auto. filling module can control and refill material accurately.
- (3) Multi-stage hydraulic system with multiple and flexible recipe setting
- (4) The powder feature will be clean by cleaning designing.
- (5) Switching the process to auto. production by finished goods delivery module.
- (6) Auto. pans placing module& auto. powder supply module provide non-stop operation and supplied mechanism.
- (7) Un-load stocker module provides non- stop finished goods stocking and receiving.
- (8) Auto. powder supply module provides all kinds of powder production efficiently.

Commentary

- This product automates the whole conventional production process of powder compact by integrating innovative technologies including auto aluminum case fetch and placement with visual system controlled robot arm, auto powder feeding device controlled by servo system, auto compact surface cleaning system, and finished goods auto stacking and storage changes.
- This product automate the powder compacting process, the worst route in conventional compact manufacturing, to not only cut labor costs and improve quality consistency but also reduce dust exposure suffered by workers of existing manufacturing process. It is both practical and competitive.



薈昇企業有限公司

Perseidas Enterprise Co., Ltd.

簡介

「5kg 輕量型舉重片」是取代鑄鐵練習片，提供舉重初學者基礎訓練及肌力訓練的產品。鑄鐵練習片為不可摔之產品，直徑僅 21.5cm 小於正式舉重片標準直徑 45 公分。鑄鐵練習片對初學者容易因過度彎腰而受傷，且基礎訓練後需再花時間學習熟悉舉重正式技術。本產品是以橡膠盤與塑膠盤組合且直徑符合標準直徑 45cm 之輕量化舉重片，可降低舉重初學選手腰部受傷機率並可在練習調整過程同步學習舉重正式技術。另外，因產品外圍為橡膠盤包覆且具有具吸震設計，故耐摔不易破裂變型且不會產生巨大刺耳噪音。本產品的橡膠盤面可針對客戶客製化所需代表隊伍的立體文字圖騰。

評語

- 本標的採塑膠結合橡膠，採輕量化設計，使舉重片維持與國際競賽或訓練用之相同直徑，可降低使用者之運動傷害，並可同步學習舉重正式技術，頗受舉重界喜愛。
- 舉重片上顯示重量之色帶，係採一體成型，為該公司首創，完全在台灣生產製造並獨步全球。
- 該公司具舉重產品開發經驗 30 年以上，創新研發能力強，產品除以 ODM 供應國際大廠外，並發展自有品牌 (Victory)，同時持續與國際舉重業大廠合作，以發展高階舉重片市場為目標。

Introduction

This is the first and only one in the weightlifting gear in the world for 5KG plate with 450mm standard size of competition bumper plate, its durable rubber and plastic combination design provide the same quality and ergonomic to weightlifting athletes, especially, it provide the beginners easy to training in such light weight. 5kg Bumper Plate is the perfect tool to learn Olympic Lifting technique with a manageable entry-level weight. This plate is damn-near unbreakable, and has been made within the strict tolerances which define our other Elite Level Bumper Plates. It can be customized for the team's mark on the rubber.

Commentary

- This product employs plastic-rubber combined light weigh design, which gives this weight lifting plate the same diameter as those used in international games and exercises. It is highly welcome by the weight lifting players as it reduces sports damages to users while enables players to learn about official weight lifting skills at the same time.
- The one-piece weight indicator color strip is first developed by the company and made in Taiwan. It leads the world in its unique design.
- The company has dedicated to R&D of weight lifting products since three decades ago. With powerful R&D capacity, it not only supplies ODM products to international brands but also markets its products under the brand of Victory. In addition, it is partnering with global weight lifting product suppliers targeting at markets of advanced weight lifting plates.



5Kg 輕量型舉重片 5Kg Bumper Plate for a Barbell

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禮學社股份有限公司

Labtech Equipment Corp.



高效能排氣櫃
High Performance Fume
Hood

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簡介

- 禮學社「高效能排氣櫃」採專利節能低風量後吸式流場設計，櫃體創新採用高密度板打造成具科技感外觀的原創設計。操作採用智慧型線控自動控制技術，故學習及操作方式不僅簡單，且使用功能符合歐美相關法規之要求。
- 產品單元設計可符合選購時各種不同需求，並提供安裝所需配合的廢氣排放及汙染防治設計及施工，提高產品性能的可靠度及售後服務等附加價值，同時無論少量多樣或量產的製程，均可滿足市場上各種不同的需求。

評語

- 本標的係改良傳統型結構所開發之具創新層流排氣櫃，可以防止櫃內化學氣體外洩，並可有效隔開櫃內、外氣流，在安全使用與環保節能方面確有貢獻。
- 藉由客製化與統包方式，創新設計櫃門動態控流機構，並依使用環境、操作方式與配件規格，發展成系列性機型；其結合客戶需求、現場組裝與售後服務之整合訴求，具市場獨特性與競爭優勢。
- 本標的經過 SGS 等第三者驗證，其性能與安規亦符合歐美規定之最高等級。

Introduction

- Our High Performance Fume Hood is patented for its energy saving technology and is durable and widely accepted by many users.
- The automatic control system meets US and EN standards and is easy to operate.
- The different combination of systems combined with our professional design, installation and after-sales services allows the system to operate at its best performance and increases safety.

Commentary

- Enhanced by its conventional structure, this innovative fume hood is designed to provide user safety, environment protection and energy saving.
- The new auto-sash function combined with customized products, professional installation and after-sales services bring the user a safer and flexible operation.
- Tested by third parties (ie SGS) to comply in accordance to ASHRAE110 and EN14175 standards.



豐華生物科技股份有限公司

gLac Biotech Co., Ltd.

簡介

艾司優 (艾司克林) 是常溫型優格霜淇淋奶漿。本產品可直接倒入機台製成霜淇淋外，亦可做飲品、冰品、烘焙產品的原料使用。

創新特色：

- (1) 縮短使用時間與步驟：含優格霜淇淋所需原料直接製成成品，方便使用者操作使用。
- (2) 健康、營養加分：嚴選 ABS 菌發酵而成優格，與少糖、少量乳化劑混合、製造。使用專利 A 菌 - 嗜酸乳桿菌 (申請中)，其代謝產物對於多種病原菌具有抑制效果，因此在食用美味優格霜淇淋時，同時能為健康加分。
- (3) 常溫運輸：滅菌型商品，降低倉貯環境限制，保質期較長且品質穩定。

評語

- 本標的係可以直接製作成優格霜淇淋的液體含糖奶漿，可在常溫儲存 9 個月及運送，不同於目前市面上的粉末產品或無益生菌成份的調味產品。
- 創新有三：(1) 液態奶漿的製程技術，克服蛋白質變性沉澱問題；(2) 添加專利益生菌；(3) 發酵製程的調控技術：將發酵製程時間勾合乳酸菌的生長曲線，讓乳酸菌之代謝產物適時排出，以製備常溫流通的產品。
- 本項產品可適用於霜淇淋機台。

Introduction

ICEYO(IceCream) is sterilized yogurt icecream liquid. It could be made soft-icecream directly with icecream machine, or be a material or ingredient in beverage, frozen dessert, sweet dessert and bakery.

Innovation character:

1. Less process, Less time: All in one, easy to use.
2. More health, more nutrients: Using ABS fermented yogurt, and few sugar and emulsifier. Patent strain-Lactobacillus acidophilus F-1, its byproduct was demonstrated can inhibit multiple-pathogen, and good for health.
3. Room temperature product: Less cost for storage and deliver, store longer, more stable.

Commentary

- Differing from market available powder or flavoring without probiotic ingredients goods, this product may serve as liquid sugar mix for yogurt ice cream with shelf life up to 9 months.
- This product features three innovations:
 - (1) Milk pulp production without precipitation caused by protein denaturation
 - (2) Add of patent probiotics
 - (3) Control technique for fermentation process: pair the timing of fermentation with the growth curve of lactobacillus to remove metabolites generated by lactobacillus and to get product ready for room temperature logistics.
- This product applies to soft cream machines.



艾司優(艾司克林)優格霜淇淋奶漿 IceYo(IceCream) Yogurt Icecream

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創新超群
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2014
第21屆

中小企業創新研究獎

The 21st Taiwan SMEs Innovation Award

申請須知



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 102 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 102 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。

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。
4. 洽詢電話：(02)2366-0812 分機 122 創新研究獎工作小組 洪小姐。

申請須知

(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 102 年 1 月 1 日至 103 年 5 月 20 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 102 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. 102 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 103 年 6 月 10 日前掛號寄達)

(三) 申請期間

即日起至 103 年 5 月 20 日 18:00 止(通訊寄件以掛號郵戳日期為憑)。

五、評審

(一) 評審方式

分為資格審、初審與決審 3 階段：

1. 資格審：由創新研究獎工作小組進行基本資料審查。
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、提供相關資訊及參加頒獎典禮、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，並有建立與傳承本獎項之精神與樹立學習典範之責任，得獎企業若經查證有違反本須知規定、不實陳述或違反環保與工安衛、智慧財產權等相關法規情節



申請須知

重大者，或其他爭議事件致影響社會大眾及本獎項形象者，主辦單位得撤銷得獎資格，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 103 年 11 月公佈，並以專函通知所有申請企業。

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確認或更動申請類別。

決審委員名單

決審委員召集人：卓士昭委員 經濟部次長

王美花	經濟部智慧財產局局長
吳妍華	交通大學校長
吳明機	經濟部工業局局長
李鍾熙	財團法人生物技術開發中心董事長
谷家恆	財團法人中衛發展中心董事長
周作嫻	中小企業信用保證基金董事長
林全能	經濟部技術處處長
林慧瑛	社團法人中華民國全國中小企業總會理事長
徐爵民	財團法人工業技術研究院院長
黃文谷	經濟部加工出口區管理處處長
楊珍妮	經濟部國貿局局長
葉雲龍	經濟部中小企業處處長

(上述名單除召集人外，依姓氏筆畫排列)



初審委員名單

初審委員總召集人：鍾乾癸委員 長庚大學生醫工程研究中心主任

類別	姓名	服務單位 / 職稱
資訊 與 電子類	徐永珍 (分組召集人)	清華大學電機工程學系暨電子工程研究所所長
	王永和	國立成功大學電機工程學系教授
	詹文男	財團法人資訊工業策進會產業情報研究所資深顧問兼所長
	蔡振瀛	國立中央大學電機工程學系教授
機械 與 自動化類	蔡新源 (分組召集人)	創智智權管理顧問股份有限公司董事長
	宋震國	國立清華大學動力機械工程學系教授
	張所鉉	財團法人工業技術研究院機械與系統研究所所長
	詹炳熾	財團法人精密機械研究發展中心總經理
材料 與 生技類	蘇宗榮 (分組召集人)	財團法人工業技術研究院材料與化工研究所所長
	張文昌	台北醫學大學教授
	廖啟成	財團法人食品工業發展研究所副所長
	鄭建新	財團法人生物技術開發中心副執行長
服務類	鍾乾癸 (分組召集人)	長庚大學生醫工程研究中心主任
	方至民	國立中山大學企業管理學系教授
	唐震寰	財團法人工業技術研究院服務系統科技中心主任
	楊仁達	財團法人資訊工業策進會創新應用服務研究所所長
綜合類	官政能 (分組召集人)	實踐大學台北校區副校長
	巴白山	臺北教育大學數位科技設計學系教授
	林志森	財團法人台灣綠色生產力基金會董事長
	張光民	台灣創意設計中心總顧問

(上述名單除召集人外，依姓氏筆畫排列)



2014

第21屆

中小企業創新研究獎

The 21st Taiwan SMEs Innovation Award



得獎專輯

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