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部長序文

中小企業向來是帶動臺灣經濟成長及穩定就業人口的重要基石，在經濟全球化時代，科技與技術日新月異，「創新」與「研發」實為中小企業成長重要的課題。依據《2017 年中小企業白皮書》資料指出，2016 年臺灣中小企業家數共計 140 萬 8,313 家，占全體企業 97.73%。相較於大型企業雄厚資金及人才優勢，中小企業更須不斷加速自身的創新力與研發能力，以因應國際競合及營運轉型的壓力。



為獎勵自行從事創新研發而有具體成效之中小企業，本部自民國 82 年起辦理「中小企業創新研究獎」，期鼓勵中小企業主投入創新研究發展、提升技術與服務競爭力，辦理至今已邁入第 24 屆，歷屆所遴選出來的卓越標的共 830 件，過去得獎的企業主，仍致力於創新突破、技術升級、產業轉型，其得獎標的及技術於市場上已被廣泛應用。今年超過 100 件申請標的中，透過初審、決審委員的專業及獨到眼光，甄選出 29 件極具潛力與創新性之標的，在創新性、實用性、數位化等方面在在展現臺灣中小企業持續創新研發的能量。

為進一步推動臺灣經濟發展，本部積極推動各項政策，包含促進智慧機械產業躍升、推動綠能科技產業發展及引領產業數位轉型，創造產業成長活力；並加強落實前瞻基礎建設，活絡投資經商環境；此外，深化鏈結新南向市場，擴大經貿發展格局，以協助產業提升競爭力，為臺灣經濟發展注入新動能。

恭喜今年度獲獎企業，希望未來能持續創新與研發，也期盼中小企業互相交流與合作，借力使力放眼海外市場，發揮臺灣企業家創新不懈精神，創造經濟發展新動能。

經濟部 部長

沈榮津

中華民國 106 年 11 月 20 日

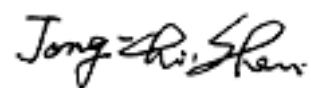
Foreword

Small and medium enterprises (SMEs) are an important cornerstone bringing about economic growth and employment stability in Taiwan. In this era of economic globalization and rapid technology development, “innovation” and “R&D” have become important elements for the growth of SMEs. According to the 2017 Small and Medium Enterprises White Paper, there were 1,408,313 SMEs in Taiwan in 2016, accounting for 97.73% of the total number of companies in the country. Compared with large-scale companies which possess strong capital and talent advantages, SMEs need to focus even more on continuously accelerating the upgrading of their innovative and R&D capabilities so as to be able to compete effectively.

The Ministry of Economic Affairs (MOEA) has been organizing the “Taiwan SMEs Innovation Award” since 1993 with the aim of encouraging Taiwan’s SMEs to develop their innovative and R&D capacities and improve their technology and service standards so as to boost their overall competitiveness. Since the award was established, a total of 830 outstanding entries have been selected as winners. Previous award-winning enterprises remain dedicated to pursuing breakthroughs in innovation, technology upgrading, and industry transformation, and their products and technologies have gained wide acceptance in the market. This year, following a rigorous process of professional and expert evaluation, 29 of the 100 entries, developed within the past year, were selected for their high level of innovation and strong market potential. These award-winning entries fully display Taiwan SMEs’ strong innovative R&D capabilities in terms of practicality, innovation and digitization.

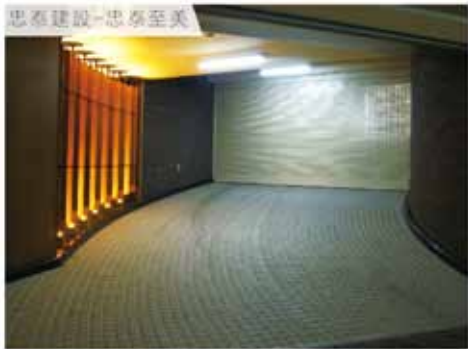
The MOEA has been actively carrying out a range of policies aimed at spurring further economic growth, such as fostering development of the smart machinery and green energy sectors, promoting digital transformation of industry, and spurring industrial growth momentum. In addition, the Ministry has been working to enhance implementation of the Forward-looking Infrastructure Development Program, improve the business and investment environment, deepen links with New Southbound markets, and diversify and expand trade outlets, with the overall aim of helping Taiwan industry boost its competitiveness and bringing about new growth momentum for the nation’s economy.

I would like to express my warmest congratulations to each of this year’s award-winning enterprises. It is our hope that they will continue actively pursuing innovation through R&D as well as engage in cooperation with their domestic counterparts to combine their complementary strengths in order to make great strides in international markets, thereby displaying the untiring spirit of Taiwan’s enterprises and creating new energy for continued economic growth and development.



Minister
Ministry of Economic Affairs
NOV. 20, 2017

忠泰建設-忠泰至美



自動化節能集合式住宅專用捷豹車道門

Power Saving Automation
Clouded Leopard Driveway
Gate For Apartment Complex

負責人：鍾茂淵 / 董事長

公司通訊地址：

248新北市五股區五權六路34號

公司電話：02-22980996

公司傳真：02-22981706

E-mail：ycnd.tw@hotmail.com

Website：www.ycnd.com.tw

CHUNG MAO-YUAN / Chairman

Address：

No.34, Wuquan 6th Rd., Wugu Dist.,
New Taipei City 248, Taiwan (R.O.C.)

Tel：+886-2-22980996

Fax：+886-2-22981706



元誠捲門有限公司

NAI DONG CO., Ltd.

▼ 簡介

捷豹車道門專為集合式住宅車道門高流量車輛進、出管制所開發設計，產品主要由三大要素結合，分別為馬達機組與 E 化控制系統整合並結合捲門主體結構而成，產品除了有別於坊間常見的捲門外，也是全台唯一以自動化節能出發而成的創新產品，提供人性化的邏輯操控及進出管制、E 化的操作及管理介面、安全訊號偵測、警報動態追蹤等功能外，創新的馬達機組更達耐用、快速、安全、節能、變頻、低噪音的特性，安全防護分別有三大裝置：LED 倒數顯示器、二道非觸碰、一道觸碰式的功能，大幅提昇人車安全，除掌握車道門用戶的功能需求外，更考量台灣長達半年颱風季節而開發的防颱軌道提昇結構強度，讓集合式住宅車道門的廣大用戶使用的優質車道門捲門產品。

▼ 評語

- 本標的為集合式住宅專用之自動化節能車道門，在機械性能、安全性、使用性均有優越之表現。
- 主要創新性在於：(1) 光柵紅外線、安全光幕、安全防壓三道安全防護系統 (2) 快速、變頻定位控制捲門馬達 (3) 消音門片 (4) 防颱軌道 (5) 可與外部智慧裝置串接之中控系統

▼ Introduction

Clouded leopard driveway gate are designed for high flow vehicles control of apartment complex. It is composed of three elements, the motor unit, the E-control system and main structure integration. It is the only one starting from power saving automation, to provide user-friendly use and access control, E operation and management interface, security signal detection, and alarm dynamic tracking. Moreover, the innovative motor unit is durable, fast, safe, energy saving, frequency conversion, and low noise. There are three devices for security prevention which are LED countdown display, two non-touch, one touch-type function, greatly enhance the safety. Not only knowing the needs of the users, but also consider the six months of typhoon season in Taiwan to develop anti-typhoon track in order to enhance the structural strength and offering high-quality products.

▼ Commentary

- The subject is an automatic energy saving residential garage door, performing extremely well on mechanical function, safety, and usability.
- Main innovations are: (1) A triple safety protection system with infrared grating, safety light curtain, safety anti-pressure (2) A fast, frequency positioning control rolling door motor (3) silent door panels (4) typhoon resistant rails (5) central command system can connect to external smart device.

wiltrom

Your Health Partner

台灣微創醫療器材股份有限公司

Wiltrom Co., Ltd.

▼ 簡介

脊椎「微創手術」因出血量少、恢復快及住院時間短等優點，已逐漸取代傳統「開放手術」，成為未來脊椎手術之主流。本產品以領先全球創新思維－「單一傷口微創」手術，推翻目前「多傷口微創」的術式，該創新技術主要配合手術方式的改變，並賦予微創釘具有導引手術器械的功能，達到單一2.5公分的微創小傷口，能提升手術效率，使病人的傷害小，恢復相對快，除了節省住院等醫療成本外，更可提升患者術後之生活品質，十分符合臨床需求。相信在此技術的基礎下，未來的脊椎手術將能達到「今天手術，明天出院」的理想目標。

▼ 評語

- 本標的為單一傷口之微創導引系統，可大幅降低使用不便性與傷口的副作用，提昇手術之實用性。
- 為國內專注於二、三等級高風險植入式脊椎與微創醫材設計廠商，未來市場發展潛力大。

▼ Introduction

Minimally invasive spine surgery minimized soft tissue damage and was a less risky, less invasive option compared to open spine surgery. In order to optimize this approach, "Minimally invasive single-site spinal fixation system" is developed for surgeons to complete lumbar fixation with four screws of patient in one incision less than 2.5 cm. This approach met clinical needs with a safety and effective operation for surgeons. Besides, patients had a better recovery at lower cost. Based on this novel technique, the minimally invasive spine surgery will achieve the ideal goal of "all of the patients were discharged within 24 hours of the surgery" in the future.

▼ Commentary

- The subject is a singular minimally invasive surgical guidance system, drastically reducing inconvenience and side effects, increasing surgical practicality.
- Domestic designer focused on level 2, 3 high risk spinal implant and minimally invasive surgical equipment, high future market development potential.



創新單一傷口微創導航釘系統 Minimally Invasive Single-Site Spinal Fixation System

負責人：梁晃千 / 總經理

公司通訊地址：

302新竹縣竹北市生醫路二段26號1樓

公司電話：03-6107168

公司傳真：03-6580006

E-mail：yichun@wiltrom.com.tw

Website：www.wiltrom.com.tw

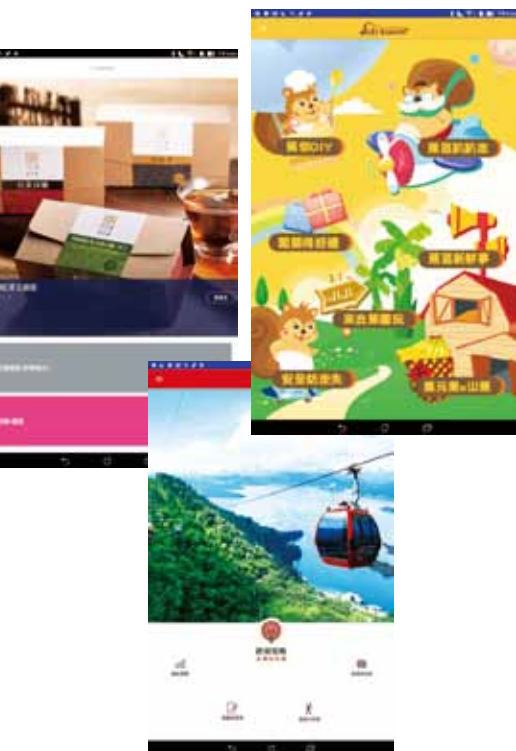
Huang-Chien Liang / General Manager

Address：

1F., No.26, Sec. 2, Shengyi Rd., Zhubei
City, Hsinchu County, 302, Taiwan
(R.O.C.)

Tel：+886-3-6107168

Fax：+886-3-6580006



智慧策展人－智慧園區體驗
加值商務平台
Smart Curator—Smart-Arena
Experience & Value-Added
Business Platform

負責人：蔡慧珍 / 董事長
公司通訊地址：
407台中市西屯區文心路三段241號5樓之2
公司電話：04-22985258
公司傳真：04-22936443
E-mail：geo@geo.com.tw
Website：www.geo.com.tw

Tsai, Hui-Chen / CEO
Address：
Rm. 2, 5F., No.241, Sec. 3, Wenxin Rd.,
Xitun Dist., Taichung City 407, Taiwan
(R.O.C.)
Tel：+886-4-22985258
Fax：+886-4-22936443



巨鵬科技股份有限公司

GEO Informatics Co., Ltd.

▼ 簡介

「Smart Curator 智慧策展人 - 智慧園區體驗加值商務平台」為模組系列產品，結合線上線下快速打造實體世界的全通路互動商務，整合多樣裝置感知與 Online & Offline 軌跡，連結園區各式連網裝置及 IoT 感測器，輕鬆建置各類多螢互動，紀錄顧客行為與精準行銷的服務創新。主要創新亮點如下：

1. 廣告適地性智慧播：結合 LBS 適地性技術及智能商務分析，提供園區業者設計個人化遊程及購物推薦之參考。
2. OOH 多螢互動：整合家外看板系統與行動裝置體感機制，設計體感遊戲創造停留經濟與集客效益。
3. Beacon 安全防走失：首創國內園區導入 Beacon 防走失應用，提升園區內溫馨有感服務。

▼ 評語

- 本標的為提供客戶輕鬆策畫數位服務的行銷全平台。該平台擁有為數眾多且涵蓋功能範圍完整的系統模組。
- 產品特點：專屬 APP 提供虛擬體驗、電子優惠、語音導覽、擴增實境等服務。可客製化且快速組合為一套應用系統，為 C/P 值佳的解決方案。
- 本標的提供智慧雲端一站式服務的電子商務模組讓商家管理方便，未來可滿足廣大中小企業的需求。

▼ Introduction

“Smart Curator-Smart-Arena Experience & Value-Added Business Platform” is an innovation service solution with multi-modules. It not only enhances users' interactive experience around the arena, but also provides the owner a smart business analysis platform. There are three critical innovations as below:

1. Smart pop-up with LBS: Combines with LBS technology and smart business analysis, provides the recommendation of personal touring and shopping for owner decision.
2. OOH interactivity: Integrates out of home system and mobile interactive function to design different kinds of interactivities, engages the customer experience and purchase.
3. Child guardian with beacon connection: Builds up the child guardian function for anti-losing, creates a safer and more touching add value service.

▼ Commentary

- The subject is to provide customers with a sales platform that can be used to easily plan out digital services. This platform has a system module that is numerous and covers a complete range of functions.
- Product features: Dedicated APP provides services such as virtual experience, electronic offers, voice navigation, augmented reality, etc. Customizable and can rapidly assemble into a program application; it is a solution with a favorable cost-performance ratio.
- This product provides a smart cloud one-stop service E-business module to allow convenient business management, to meet the needs of all small and medium enterprises in the future.



光昱金屬有限公司

Kuang Yu Metal Working CO.,Ltd.

▼ 簡介

好心機（被動運動椅）設計概念以全身週期性加速度運動 WBPA 原理為基礎，是一種最溫和的運動方式，特別是針對無法運動、無法久站及長時間久坐缺乏運動之族群。本產品透過與中正大學及亞洲大學產學合作進行產品功效測試，實驗結果證實可以達到 WBPA 之功效，能增加體內的一氧化氮釋放、進而促進血管的放鬆幫助血壓的降低。本產品造型設計時尚，並結合創新功能、輕巧便利、操作容易，是專為現代人居家休閒保健而設計的最佳利器。好心機（被動運動椅）之專利申請國家包括台灣、大陸、韓國、美國、澳洲、新加坡、加拿大等 11 個國家，總計申請 29 項專利。

▼ 評語

- 本標的為自有品牌之被動式運動椅，主要運作模式為多功能之韻律搖擺，並具有舒眠、協助肌肉運動、健身等功能。
- 本標的通過電子相容性、無干擾性等 BSMI 檢測，目前於發證階段。因運作過程與皮膚產生接觸，故使用無害於皮膚接觸之材料。在技術創新及實用價值上，表現均十分優異。

▼ Introduction

M1 Vita Chair (Passive exercising chair of Whole Body Vibration)

Features:

-- Designed to provide people daily relaxation and exercise indoor. And improve sleep quality.

-- Passive exercise: it helps elders and some people who cannot move freely to be taken exercise by the chair.

With WBV (Whole Body Vibration) Benefits:

- Increase blood circulation & bone mass density
- Accelerate fat loss and Promote digestion Advantages
- 2 in 1 function: Combine the benefits of WBPA & WBV.
- Beautiful appearance: Not only a functional chair, but also an elegant furniture.

Programs:

--6 auto programs for whole body vibration and 3 partial vibration: back, hips, legs

--Manual: for users to choose the favorite position & speed.

--Music Sync.: enjoy your own music when be taken exercise on M1 Vita Chair.

Special position: Zero Gravity to release your stress on spine and back.

▼ Commentary

- The subject is a self-brand passive exercising chair, where the main operation mode is a multifunction rhythm swing. It also includes functions such as sleep assist, muscle movement assist, workout, etc.
- This product passes BSMI detection methods such as electron compatibility, non-obstructive, etc. it is currently in its certification stage, and it uses material that is harmless to the skin, due to skin contact during its operation. From a technology innovation, and practical value standpoint, it performs outstandingly.



好心機

M1 Vita Chair

負責人：謝文旭 / 總經理

公司通訊地址：

504彰化縣秀水鄉安樂街75號

公司電話：04-7691358

公司傳真：04-7691388

E-mail：service@masse.com.tw

Website：www.masse.com.tw

Wen-Hsu Hsieh / Chairman

Address：

No.75, Anle St., Xiushui Township,
Changhua County 504, Taiwan (R.O.C.)

Tel：+886-4-7691358

Fax：+886-4-7691388



智能化高速帶鋸機 EP-330S
Hi-Tech Band Saw EP-330S

負責人：趙淑佳 / 董事長

公司通訊地址：

408台中市南屯區精科一路1號

公司電話：04-23593178

公司傳真：04-23593410

E-mail：evrs@everising.com.tw

Website：www.everising.com

Scart Chiao / President

Address：

No., 1 Jingke 1st Road, Nantun District,
Taichung 408, Taiwan (R.O.C.)

Tel：+886-4-23593178

Fax：+886-4-23593410

EVERISING

合濟工業股份有限公司

EVERISING MACHINE CO.

▼ 簡介

合濟智能化高速帶鋸機 EP-330S，具有高速切削、操作簡易安全、材料損失小、動力消耗低、省能源、鋸帶壽命長與維護成本低等優點，使用上的限制很少，可用於多種不同材料與各種形狀、大小尺寸工件的加工。採用合濟自主研发 I Tech Saw System 控制系統搭配合濟獨家材質資料庫系統，鋸切參數可直接由系統帶入，操作簡易；鋸切進給及送料採用高精度伺服馬達驅動，可得到高生產效率、高精度、不需毛邊去除製程的工件。加上近年來在鋸帶品質的不斷研發，此機種能滿足大量生產的中型金屬棒材鋸切市場需求。

▼ 評語

- 本標的係為因應鋸床簡便性、快速性、經濟性及智能化的發展趨勢，而發展出創新設計及建構智能化生產之合濟 I Teck Saw System，將機台上的資訊如鋸切數據、鋸帶狀況等於雲端服務平台進行分析，協助客戶生產管理及提前預警。
- 相關創新技術如“鋸帶更換安全防護裝置”等已獲 5 項臺灣新型專利。

▼ Introduction

The Everising new EP-330S sawing machine has been designed to meet the requirements of "high-speed, economy and accuracy" and get into the new cutting territory. Its remarkable features offer excellent cutting performance with high reliability. The robust double column saw guide and driving units provide greater cutting rate with low vibration even for hard material cutting (Also suitable for carbide tip saw blade). The guiding arm and material feeding move on linear guide ways for extremely precise operations. Controlled by Everising I Tech Saw System with Everising material database system, this machine is easy to use with friendly operating experience.

▼ Commentary

- The subject is in response to the development trend of simplified, fast, economical, and intelligent sawing machines, to develop innovative design and implement intelligent production merged with I Teck Saw System, to analysis information such as cutting data, saw blade condition on a cloud service platform, assisting customer's production management and preemptive warning.
- Related innovative technology such as "Safety Blade Changing Device" has received 5 Taiwanese utility patents.



吉輔企業有限公司

Gifu Enterprise Co., Ltd.

▼ 簡介

吉輔企業因應市場需求，孕育出「智慧化矩陣刀倉系統」，其創新特色為：

1. 複合式凸輪同動開門換刀機構、可替換刀爪式刀架、智能刀倉結構，3 項台灣新型專利。

2. 斷刀檢測、預知保養與失效管理、取刀機構智能配速系統、換刀機構智能配速換刀，4 項智慧化感測功能。

3. 模組化設計，結構升級製程簡化再精進。

4. 彈性製造生產線專用機，具模組化設計、高容量、高擴充的與高效率。

5. 伺服驅動、定位精準，最快移動速度 120 m/min。

6. 精湛工藝、美學設計與環保節能 (減少 51.7% 零件)。

▼ 評語

- 本標的係為配合工具機智能化、輕量化、彈性擴充與製造之發展趨勢，而發展出可依照刀具輕重進行智慧配速式換刀，可替換刀爪式刀架及預知鑽頭斷刀檢測裝置等創新功能之新產品。

- 相關創新技術如“智能型刀倉結構”等已分別獲得 3 項臺灣新型專利。

▼ Introduction

Gifu invented the product “Industrialized tool storage system” with three main orientations, industrialized, light weight and flexible expansion.

1. New patents-Complex cam type ATC, replaceable claw holder, smart storage structure.

2. Equipped with smart functions-Damage drill detection, predictive maintenance & failure management. Speed matching system for tool catching system and speed matching system on tool changing mechanism.

3. Modularized design- implied production procedures.

4. Flexible and Specialized machine with high capacity, expandability and efficiency, achieve the idea of one tool changer collocates on multi machines

5. Driven by servo motor, accurate positioning with the highest speed 120m/min.

6. Exquisite workmanship, integrate aesthetics design and eco-friendly idea (reduce 51.7% parts)

▼ Commentary

- The subject is in coordination with the development trend of intelligent, lightweight, flexible expansion and production of machine tools, to develop a product capable of innovative functions such as rapid intelligent blade swapping depending on blade weight, replaceable claw type blade rack and detection devices that can predict drill edge retention.

- Related innovative technology such as “Intelligent blade storage structure” etc. has received 3 Taiwanese utility patents.



智慧化矩陣刀倉系統
Industrialized Matrix Tool
Storage System

負責人：劉興榮 / 董事長

公司通訊地址：

427 台中市潭子區祥和路133巷33號

公司電話：04-25334244

公司傳真：04-25334224

E-mail：sales@atcgifu.com.tw

Website：www.atcgifu.com

Liu Hsing Jung / Chairman

Address：

No.33, Ln. 133, Xianghe Rd., Tanzi Dist.,
Taichung City 427, Taiwan (R.O.C.)

Tel：+886-4-25334244

Fax：+886-4-25334224



SAVIORE 時尚滅火器
SAVIORE

負責人：宋沛倫 / 執行長兼設計總監
公司通訊地址：
429台中市神岡區大豐路四段396號
公司電話：04-23289224
公司傳真：04-23289219
E-mail：official.spl.design@gmail.com
Website：www.spl-design.com.tw

Pellen Sung / CEO & Design Director
Address：
No.396, Sec. 4, Dafeng Rd., Shengang
Dist., Taichung City 429, Taiwan (R.O.C.)
Tel：+886-4-23289224
Fax：+8864-23289219



沛倫設計有限公司

SPL Design Co. Ltd.

▼ 簡介

SAVIORE 時尚家用滅火器，以人性化思維重新設計滅火器，開蓋按壓即可使用，簡單直覺不需學習，緊張狀態依然能順利操作；環保無毒泡沫滅火藥劑，一體適用居家常見火災，滅火效能獲得消防技術顧問基金會認證，輕巧強效。造型設計與多樣色彩質感，是室內裝潢的百搭精品；獨特的磁吸功能，不但能輕鬆拿取，更可自由排列裝飾牆面，創造獨特個人品味風格。直覺使用、快速取得、有效防災是 SAVIORE 的設計核心。SAVIORE 的美不只是品味哲學，更是深入人心的務實設計！

▼ 評語

- 本標的 SAVIORE 時尚滅火器，外觀形同保溫瓶，打造精緻與極簡外型，且使用方式簡單直覺，不需要學習，在緊張狀態依然能順利操作，具有創新實用性。
- 滅火藥劑採專利無毒泡沫，一體適用居家常見火災，滅火效能獲得「消防技術顧問基金會」認證，呈輕巧 (0.8kg)、強效 (可間斷使用，共持續 20 秒)。藥劑內罐易於更換；且滅火器可磁吸於牆，或置於顯視位置，便於家居使用。

▼ Introduction

A fire extinguisher should exist in every household, since it can save lives. However, these devices are often not particularly prestigious, which is why they are stored out of sight. The development of Saviore fundamentally questioned the design of fire extinguishers in order to put forth a new form and functionality. Minimalist and with clear lines, Saviore has the appeal of a decorative sculpture. It features high-quality surfaces, which come in a choice of different colours and glossy or matte finishing. In this way, this fire extinguisher can be very well customised to different interiors and individual styles. Based on a user-oriented concept, it opens and locks in an impressively easy way. It is filled with a non-toxic extinguisher agent that is suitable for fires of types A, B and C. In case of an emergency, it is self-explanatory, reliable and entirely easy to use, thus complying with high safety standards. Another extremely functional and, for this type of product, innovative feature is the mounting system with powerful magnets. It allows an uncomplicated wall mounting as well as quick access. The fire extinguisher gains a new identity with Saviore – pathing the way to a stylish, appealing furnishing item.

▼ Commentary

- The subject is a SAVIORE fashion fire extinguisher, with an appearance similar to a thermos, exquisitely built and simplistic appearance, intuitive and simple to use, with no training required, and smooth operation even under stress, possesses innovation and practicality.
- The fire extinguisher uses a patented non-toxic foam, its suitability for common household fires and firefighting capability earned it recognition from “Taiwan Fire Technology Foundation”, lightweight (0.8kg), effective (allows intermittent use up to a total of 20 seconds). With an easily exchangeable cartridge; the extinguisher can magnetically stick to walls, or be placed in a noticeable location, suitable for household use.



佳樂電子股份有限公司

Taiwan Carol Electronics Co., Ltd.

▼ 簡介

全世界第一家開發出主動式避震技術音頭，有效改善麥克風產生手握雜音的困擾，保持麥克風原本的豐富明亮音質，滿足表演者追求極致的演出表現。採用動圈物理感測技術取代內建輔助電路，可以免除複雜的電子線路及電路基板與數位濾波器的零組件，也不用額外供電，俱有綠色節能環保的優勢。

主動式避震技術可以算是近代麥克風聲學系統的重要突破，也是佳樂契合時代環境所打造滿足專業需求的核心技術。

▼ 評語

- 本標的係為降低麥克風的手握雜音如手持麥克風的摩擦音或搖晃麥克風的震動雜訊音，而發展出在音頭內部放置主動式避震單元，抵消感測聲音單元的震動，進而降低手握雜訊。
- 創新設計之“主動式抗震麥克風”已獲美、臺發明專利。

▼ Introduction

The world's first developed capsule with Active Handling- Noise Cancelling technology, can effectively improve microphone handling noise to maintain the original rich-detailed sound to satisfied stage entertainer pursuit of ultimate performance. The use of dynamic physical sensing technology to replace the built-in auxiliary circuit, it can get rid of complex electronic circuits, printed-circuit board, and digital filter components, no additional power supply, all green energy saving advantages.

The CAROL Active Vibration-Cancelling capsule is regard as critical breakthrough in acoustic filed, and it is also in line with the sophisticated needs of today's professional performers.

▼ Commentary

- The subject is the lowering of handheld microphone noise such as vibration noises you get from hand friction and microphone shaking, and to develop active shock absorbers in the microphone head, canceling out detected sound vibration, therefore reducing hand held noise.
- Innovative technology such as an “Active shock resistant microphone” has received invention patents from Taiwan and US.



主動式避震音頭
Active Vibration-Cancelling
Capsule

負責人：張金爐 / 總經理

公司通訊地址：

401台中市東區東光路202號

公司電話：04-22347677

公司傳真：04-22348698

E-mail：carol@taiwancarol.com

Website：www.taiwancarol.com

Chang, Ching-Lu / General Manager

Address：

No.202, Tung-Kuang Rd. Taichung 401,
Taiwan (R.O.C.)

Tel：+886-4-22347677

Fax：+886-4-22348698



節能型精密恆濕恆溫機
X- Thermal Control Unit
(X-TCU)

負責人：賴麗如 / 董事長

公司通訊地址：

303新竹縣湖口鄉新竹工業區大同路7號

公司電話：03-5986999

公司傳真：03-5979694

E-mail：chd@chd-tech.com.tw

Website：www.chd-tech.com.tw/tw

LAI, LI-RU / Chairman

Address：

No. 7, Datong Rd., Hukou Township,
Hsinchu County 303, Taiwan (R.O.C.)

Tel：+886-3-5986999

Fax：+886-3-5979694



奇鼎科技股份有限公司

Chyi Ding Technologies. Co., Ltd.

▼ 簡介

節能型精密恆溫恆濕機可精密調整與監控環境：潔淨度控制達 ISO Class 1；溫度控制精度達： $\pm 0.1^{\circ}\text{C} \sim \pm 0.01^{\circ}\text{C}$ ；濕度控制精度達： $\pm 2\%\text{RH} \sim \pm 0.5\%\text{RH}$ ，各項精度目前業界第一，相較於市面上所有同質產品，更快速、潔淨、精準、節能。機台內建溫濕度曲線數據、機台警報、遠程監測與自動防護。可應用於半導體製造業、薄型平面顯示器製造業、精密機械加工業、各項精密測量業與各項學術研究。具有多項銷售實績，客戶有國內外半導體大廠、半導體黃光設備商與光電面板廠大廠。

▼ 評語

- 本標的透過分析客戶需求與市場既有產品缺點為基礎進行大幅度之改善與精進，以提高玻璃面板均溫速度，防止冷凝水及節能為其主要創新重點。
- 相關創新技術如“恆溫恆濕潔淨控制裝置”等已獲 4 項臺灣新型專利。

▼ Introduction

X-Thermal Control Unit can control and monitor the mini-environment precisely. First of all, the cleanliness can be controlled to ISO Class 1. Secondly, the temperature can be controlled within $\pm 0.1^{\circ}\text{C} \sim \pm 0.01^{\circ}\text{C}$. Thirdly, the humidity can be controlled within $\pm 2\%\text{RH} \sim \pm 0.5\%\text{RH}$. It acts as a leader in the field of Taiwan Compare with homogeneous products, X-TCU is faster, cleaner, more accurate and more energy-efficient. It provides built-in temp.&humidity records, machine alarm, remote-monitoring system and auto protection. X-TCU can be applied to semiconductor industry, flat panel display industry, precision machining, precision measuring and academic research. It has been sold to global semiconductor fabrication plant, manufacturers of lithography machines and FPD manufacturers.

▼ Commentary

- The subject is major improvement and refinement based on analyzing customer needs and flaws of the product currently on the market, to increase the average temperature speed of glass panels, with preventing condensation and energy conservation as the main innovation focus.
- Related innovative technology such as “Constant temperature and humidity cleanse control device” has received 4 Taiwanese utility patents.



宜得世股份有限公司

EdeX Technology Co., Ltd.

▼ 簡介

從 61T ~ 765T 的鎖模力，從 0.001 ~ 1350cm³ 的射出容積，從 150mm ~ 720mm 的雙模中心距，機身長度只有傳統機約 60% 長，可搭配柱塞式或螺桿式射出模組。

1. 極窄化射座設計，可依需求調整兩個射座的中心距。
2. 獨立轉盤模組可搭配範圍內的所有中心距規格模具。
3. 轉盤採用隱藏式冷熱水路，使模具水管配置更整齊。
4. 固定模板活動中心距模組，可配合不同中心距更換。
5. 適用任何中心距的雙色模具，可減少購置機器成本。
6. 整機模組化設計，柱塞式和螺桿式射出單元可更換。

▼ 評語

- 本標的為配合雙色、雙材質微射出產品的應用而精進現有市場產品，發展出可依指定調整雙模中心距的精密轉盤，柱塞式射出及窄化射座等創新設計，運用在固態塑料及矽膠塑料射出件皆可微小至 0.01g。
- 本標的創新技術申請 2 項臺灣發明專利，其中雙色射出機之窄化射座已獲得專利證書。

▼ Introduction

The clamping force ranges from 61T~765T, inject volume from 0.001~1350cm³, and dual-mold center distance from 150mm~720mm.

As the machine length is only about 60% of conventional machines, it can accommodate a plunger type or screw type injection molding module.

1. The narrowest injection seat design allows central distance adjustment of two injection seats according to requirement.
2. The independent rotary table can accommodate all molds as long as their central distances fall within the application scope.
3. The rotary table with hidden hot and cold water paths allows neat configuration of mold water channels.
4. The fixed mold platen module with movable central distance allows interchanging of different center distances.
5. The maintenance personnel can perform troubleshooting through the Internet to rapidly grasp the machine status.
6. Able to adapt dual-color molds in any central distances to reduce machine procurement costs.
7. Full modular machine design with interchangeable plunger type and screw type injection unit.

▼ Commentary

- The subject is to coordinate with duo colored, duo material micro injection product application to refine current market products, innovative design such as developing a configurable precision turntable able to adjust dual mode center distance, plunger type injection and narrowing injection base, used for solid plastic material and silicon plastic with injections as small as 0.01g.
- The innovative technology of this product is applying for 2 Taiwanese utility patents. The dual color injection machine has already received its patent certificate.



ATOR臥式轉盤雙色雙材質
射出機
ATOR Horizontal Dual-
color/resin Injection Molding
Machine

負責人：柯義雄 / 董事長

公司通訊地址：

247新北市蘆洲區中正路243巷11號

公司電話：02-28471194

公司傳真：02-28471491

E-mail : yescan@edex.com.tw

Website : www.edex.com.tw

KO, YI-HSIUNG / President

Address :

No. 11, Lane 243, Zhongheng Rd.,
Lujhou City, New Taipei City 247,
Taiwan (R.O.C.)

Tel : +886-2-28471194

Fax : +886-2-28471491



應用於棉/聚酯纖維交織之特殊 色系染料

The special color shade
dyestuff applied in cotton/
polyester interweave fabric

負責人：蔡明宏 / 董事長

公司通訊地址：

114台北市內湖區陽光街345巷14號4樓

公司電話：02-27972398

公司傳真：02-27971108

E-mail：info@intgroup.com.tw

Website：www.intgroup.com.tw

TSAI MING-HUNG / President

Address：

4F, NO.14, Ln.345, Yangguang St., Neihu
Technology Park, Taipei City 114, Taiwan
(R.O.C.)

Tel：+886-2-27972398

Fax：+886-2-27971108



怡凌股份有限公司

INT International Inc.

▼ 簡介

目前在實務應用上，針對聚酯 / 棉混紡織物的染色方式以二浴法為大宗，即先以分散性染料將聚酯的部分進行染色，再以反應性染料做第二次棉部分的染色，但由於染聚酯與棉所使用的染料不同，顏色也有差異，在成品上也容易造成聚酯與棉兩種纖維的色差，需耗費大量時間進行修色，造成能源之浪費及成本之提高，且牢度之物性易因多次重修導致衰退。本開發產品為一套同色的分散性染料與反應性染料，可改善以不同染料對混紡織物進行染色所產生的色差，大幅降低修色時間，節省水資源及能源，達到節能減碳之環保訴求，且在牢度上也能有優異的表現。

▼ 評語

- 本標的為開發一套同色的分散性染料與反應性染料以改善色差的情形。
- 相較於傳統的二浴法可大幅降低色差與修色時間，且在牢度上也有優異表現，更可有效降低人力資源與物料成本，節省水資源。

▼ Introduction

At present in practical application, the dyeing method are two bath dyeing for polyester/cotton blend fabric. Dyeing the polyester fabric with disperse dyes and cotton fabric with reactive dyes. Because the dyestuffs are different shade and the dyeing deviation are hard to control. It takes plenty of time on color matching and resulting in energy waste and cost increase. Furthermore, the washing fastness will decrease after re-dyeing process. Our novel products are the disperse and reactive dyestuffs with the same shade. It can reduce the re-dyeing times effective and means that can save water and energy to meet energy efficiency and carbon reduction requirement. This novel dyestuff also has good properties in washing and light fastness.

▼ Commentary

- The subject is to develop a set of dispersed and reactive dye of the same color to improve the color difference situation.
- Compared to the traditional double dye method this can greatly reduce color difference and color fixing time, also performing well on color retention, more than that it can effectively reduce human resource and material cost and conserve water resource.



明躍國際健康科技股份有限公司

Strength Master Fitness Tech Co.,Ltd.

▼ 簡介

獨家全球專利技術 eFOLD 電動折疊系統，不用擔心力氣不夠折疊困難，只要輕輕按下“eFOLD”鍵，就能自動折疊及放下，一步到位。摺疊後以 4 輪著地，4 個輪子 360° 全方位輕鬆移動機台，單指就能改變方向，不需要彎腰搬動，老人、女性族群毫不費勁就能移動跑步機。跑台底部設有兩個智慧安全裝置，在跑台放下的時候，感應跑台下面是否有小孩或者寵物，遇到障礙物能及時緊急停止。Intelli-Guard 智慧防護專利技術，當您離開跑步機 20 秒，智慧感應並自動暫停，避免旁人受傷，同時節能省電。App 即時顯示及記錄健身資料，更整合健身娛樂功能，輕鬆設定自己的路線，自動調整跑步機坡度。

▼ 評語

- 本標的為一鍵電動折疊跑步機，採直覺性使用設計，創新特色為：(1) 按一鍵即自動折疊，搭配旋轉輪方便移動及收納 (2) 具有紅外線感應技術，可緊急停止避免意外發生 (3) 使用智慧防護專利技術，使用者離開即智慧感應自動暫停，避免孩童誤入受傷，亦可省電。
- 本標的應用 3 項國際發明專利，提升產品價值，具市場潛力。

▼ Introduction

The eFold electronic folding mechanism makes storing manageable for anyone, only with a touch of a button. Once folded, it could be moved in any direction smoothly with the 4 transportation wheels. The built-in infrared sensor could know if there's kids or pets running around the folded treadmill as it unfolds. The action will stop at once when detects anything beneath the treadmill to avoid any accident. Also, the Intelli-Guard patented technology helps you create a safe space for training. When you leave the running surface temporary for more than 20 seconds, the sensor would recognize the absence and stop the machine. This saves you extra energy waste as well. With the App, you could record workout data and enrich your workout through the entertainments. The treadmill also automatically adjusts incline level to the actual landscape as you run through routes on Google Map.

▼ Commentary

- The subject is a collapsible electric running machine, taking an intuitive usage design, innovative features include : (1) Pressing one button to automatically fold the device, contains 360° spinning wheels, easy mobility and storage. (2) Contains infrared detection technology, it will activate the emergency stop to prevent accidents. (3) Uses intelligent protection patent technology, after the user has left the running machine, the intelligent sensor automatically pauses, preventing child accidents while conserving energy.
- This product utilizes 3 international invention patents, raising product value, possesses market potential.

LifeSpan 萊仕邦



電動摺疊跑步機
Electric Folding Treadmill

負責人：吳樹曜 / 董事長

公司通訊地址：

513彰化縣埔心鄉瑤鳳路一段398號

公司電話：04-8299998

公司傳真：04-8299958

E-mail：sales@strengthmaster.com

Website：www.strengthmastergroup.com

Wu Shu Yao / President

Address：

No. 398, Sec.1, Yaofeng Rd., Puxin

Township, Chunghua County 513, Taiwan

(R.O.C.)

Tel：+886-4-8299998

Fax：+886-4-8299958



可收折式自行車旅行箱 Bike Porter
Qbicle Bike Porter

負責人：姜海寰 / 總經理

公司通訊地址：

330桃園市桃園區大興西路二段139巷
139號

公司電話：03-3013356

公司傳真：03-3013301

E-mail：sales@qbicle.com.tw

Website：www.qbicle.com.tw

Haiwan Chiang / General Manager

Address：

No. 139, Lane 139, Sec. 2, Da-Xing West
Road., Taoyuan City 330, Taiwan (R.O.C.)

Tel：+886-3-3013356

Fax：+886-3-3013301



奎貝克有限公司

Qbicle Inc.

▼ 簡介

Bike Porter 為一個可折疊、防水耐撞、可重複使用、搭配可拆卸式輪組輕鬆移動、收納時不占空間的新式結構的箱體，主要用來攜帶自行車出國旅遊或參賽；帶著自己的愛車出國環騎沖繩、富士山、美瑛賞花…不再是件花費很高又困難的大事。

整組產品包括一個可收折的箱體(4種尺寸)、數條高強度黏扣帶、與奎貝克曾獲得2010年金點設計獎的TOGO移動輪組。創新結構的可收折式攜車箱，可保護與安全託運愛車，使自行車旅行不需再忍受傳統硬殼旅行箱的笨重、無法收納、登機託運時將被收取驚人超重費的窘境。

已獲得2017金點設計獎，台灣發明專利，全球多項專利，台灣製造。

▼ 評語

- 本標的 Bike Porter 為一輕量、可折疊、防水、防撞之自行車旅行箱。
- 與同類競爭標的相較，本產品折疊後體積最小，且重量最輕，性能良好且極具價格競爭優勢，並可完全回收。
- 已獲得臺灣發明專利(包裝箱改良結構)。

▼ Introduction

Qbicle Bike Porter is designed to be a travel mate for cyclist to contain, protect, and transport bikes while going aboard or being transitions of any ground traffics. It helps cyclists enjoy a wonderful cycling tour with his own bike. Cycle anywhere as you plan to challenge with Qbicle Bike Porter.

Travel is, at its heart, a way of connecting more authentically with the world. Sure, Qbicle Bike Porter is a handy point of starting a cycling travel plan. Not only a nice protection and savvy storage by unique folded-pop up method, but also waterproof, sustainable by its box structure design, re-usable, and super light-weight (2.3~4 kgs only). Bike Porter is characterized to mobile forward by patented Q/R detachable wheeling device TOGO. And its compact design leads to a nice hotel or home storage. Granted the 20 years of Invention Patent, global patents, and 2017 Golden Pin Design Award.

▼ Commentary

- The subject is the Bike Porter, a lightweight, collapsible, waterproof, shock proof bike travel case.
- Compared to similar competitors, this product is the most compact, and the most lightweight, with excellent performance and a competitive price advantage, it is also fully recyclable.
- Has received a Taiwanese invention patent (improved package structure).



威潤科技股份有限公司

ATrack Technology Inc.

▼ 簡 介

AX9 OBDII + J1939 隨插即用衛星定位監控器，可同時支援 OBDII 和 J1939 兩種不同的車載診斷系統，一機二用在業界相當罕見。因應車載資訊技術發展與智慧型手機普遍，AX9 亦可加入藍芽通信功能，強化人車即時互動，使用者可以利用手機透過 AX9 輕鬆讀取車輛行駛的相關數據，例如：車速、引擎轉速、油耗、行駛里程數等，並可同時將相關資訊透過行動通訊網路回報給車隊業者的監控中心，有效落實車隊管理、降低營運成本。此外，自 AX9 蒐集到的駕駛行為資訊，透過監控軟體的整合與運算，能提供保險業者完整的紀錄，為使用者提供量身訂做的車險方案。

▼ 評 語

- 本標的為隨插即用之衛星定位及監控裝置。可同時支援大小型兩種不同車載診斷系統，大幅提升實務應用範圍。
- 此裝置可輕鬆讀取車輛行駛時相關數據，使用行動通訊網路技術回報給車輛控制中心，落實車隊管理及提供車輛保險業者完整數據，是一項具技術創新、應用加值多元的產品。

▼ Introduction

AX9 OBDII + J1939 plug & play Tracker is 3G GPS tracking unit with OBDII Interface and plug-n-play installation. Featuring OBD / CAN Bus J1939 data acquisition, Bluetooth connectivity, driving behavior event management, and user-defined reports, ATrack AX9 OBDII + J1939 plug & play Tracker is an ideal solution for Usage Based Insurance, Car Rental, Fleet Management of both Passenger Vehicles and Heavy-Duty Trucks.

▼ Commentary

- The subject is a plug and use satellite positioning and monitoring device. It can simultaneously support two different types of, big or small, vehicle diagnostic systems, greatly increasing the range of its practical application.
- This device can easily access to driving data related to the vehicle, using mobile communication network technology to report back to the vehicle control center, implementing motorcade management and provide vehicle insurance industries with complete data; it is a product possessing technological innovation and multiple valuable applications.



AX9 OBDII+J1939隨插即用
衛星定位監控器
AX9 OBDII + J1939 PLUG
& PLAY TRACKER

負責人：湯潤潤 / 董事長

公司通訊地址：

114台北市內湖區內湖路一段120巷
13號8樓

公司電話：02-27975852

公司傳真：02-27974030

E-mail：sales@atrack.com.tw

Website：www.atrack.com.tw

Frank Tang / Chairman

Address：

8F., No.13, Ln.120, Sec.1, Neihu Rd.,
Neihu Dist., Taipei City 114, Taiwan
(R.O.C.)

Tel：+886-2-27975852

Fax：+886-2-27974030



VG-999高速橫筒型三針五線雙面
飾綳縫機

VG-999 3-needle, 5-thread high
speed cylinder-bed interlock
machine

負責人：徐石淵 / 董事長

公司通訊地址：

244新北市林口區工二工業區工二路10號

公司電話：02-26018866

公司傳真：02-26036677

E-mail：shingling@shingling.com.tw

Website：www.shingling.com.tw

Johnson Hsu / President

Address：

No.10, Kung 2nd Rd., Kung 2nd Industrial
Park, Linkou Dist., New Taipei City 244,
Taiwan (R.O.C.)

Tel：+886-2-26018866

Fax：+886-2-26036677

SHING LING®



SINCE 1989

星菱縫機股份有限公司

Shing Ling Sewing Machine Co., Ltd.

▼ 簡介

高速橫筒型三針五線雙面飾綳縫機。機器易於變換壓骨、拷下擺及滾領等車縫，是生產高品質的獨創機種。選配備電動或氣動切線裝置，使生產效率更提升。

獨創機器主軸有強制給油和回油裝置，使傳動系統各元件都能有效潤滑而達到機器高速運轉時，不起噪音及更長久保固使用。

加長機座的設計，使車縫作業不震動，更平穩。內藏式冷風扇能有效散發馬達產生的熱氣，無論馬達或機器都能確保長時間運轉。

▼ 評語

- 本標的為因應製衣廠各種布料在車縫中的縫紉作業，發展出具自動剪線裝置、馬達散熱設計、斷線檢測、吸布屑裝置及不同材質之穿線裝置等設計，可提高操作時間、使用壽命及降低噪音等功能。
- 相關創新技術如“輔助托板結構”等已獲臺灣9項新型專利及1項發明專利與日本2項專利。

▼ Introduction

3-needle, 5-thread high speed cylinder-bed interlock machine. Machine supplied with all conversion kits can do stitch covering, hemming and tape binding and proves stitches consistent and uniform. Top & under thread trimmer will enhance the productivity and it is optional device, powered by electric or pneumatic supply.

Self-forcing lubricant holes and channels applied to the two shafts of the main and differential feed dogs, the machine ensures long-lasting and durable performance for its smart lubrication system design.

Lengthen the Machine base longer than the conventional one is free from vibration; besides, its ergonomic and streamline design can reduce operator's working fatigue. When long term operated at high speed, the machine's cooling fan can entirely cool down the heat air generated from motor by releasing it from inside out, thereby prolong machines' life.

▼ Commentary

- The subject is in response to the variety of fabrics in the sewing machine used in sewing operations in garment factories, to develop designs such as automatic thread cutting devices, motor cooling design, broken thread detection, scrap collection device and threading device for different materials etc. to increase functions like operation duration, usage life and reduce noise.
- Related innovative technology such as “Support pallet structure” has received 9 utility patents and 1 invention patent from Taiwan with 2 patents from Japan.



益達醫療儀器有限公司

DOCTOR'S FRIEND Medical Instrument Co., Ltd.

▼ 簡介

拔罐主要是藉由排氣造成罐內產生負壓，創新產品“可持續性循環式中醫電動三孔拔罐機”將傳統手動產生負壓改由“真空泵浦”產生電動負壓，取代傳統手動操作的缺點。

本產品設有三孔抽吸功能，“可持續性、循環式”三孔抽吸為本產品之最佳特色，儀器內設有三個儲氣桶，吸杯與儲氣桶中的氣體產生對流，形成高低壓差，使真空拔罐中的氣體滾動，加速拔罐循環系統，維持壓力大小，達到持續性且循環式的抽吸。

可持續性循環式中醫電動三孔拔罐機設有壓力調節器與真空壓力計，可依需求調整壓力大小，是符合人性化及實用性的產品。

▼ 評語

- 本標的為可持續循環保持穩定真空壓力之三孔拔罐機，以電動泵浦來操作而有別於傳統者，其附著力佳，可維持吸力一致，具有安全、實用、衛生等特性，運用於醫院中醫部及中醫診所。
- 本標的使用之泵浦獲臺灣新型專利。

▼ Introduction

Cupping therapy is designed to exhaust the air from the cupping cup through suction function by vacuum pump. The "Continuous Electric Vacuum Circulation System for Traditional Chinese Medicine Cupping Therapy" comes with three cupping outlets which adopt to various size of cupping cups. Different from the traditional and manual cupping instrument, the product could be operated continuously and endlessly.

Three suction outlets on the operation panel are the most outstanding design of the product. The pressure could be adjusted from low to high through the regulator and each outlets may adjusted to different pressure. The air convention and circulation are effected by the three build-in storage tubes as well as the cupping cup. With a stable pressure, users may easily operate the machine and improve the patient's flow of energy and encourage detoxification of the body.

▼ Commentary

- The subject is a three hole cupping machine capable of maintaining vacuum pressure using continuous circulation, differentiate from tradition by operating on an electrical pump, with excellent adhesion, maintain synced pressure, with characteristics such as safe, practical, sanitary, etc. Used in hospital's Chinese medicine departments and Chinese medicine clinics.
- The electric motor used in this product received Taiwan utility model patent.



可持續性循環式中醫電動三孔拔罐機

The Continuous Electric Vacuum Circulation System For Traditional Chinese Medicine Cupping Therapy

負責人：張錦江 / 總經理

公司通訊地址：

427台中市潭子區中山路三段13巷28號

公司電話：04-25347777

公司傳真：04-25338669

E-mail: medical.df@msa.hinet.net

Website: www.doctorsfriend.com.tw

Chang Chin Chiang / General manager

Address :

No. 28, Lane 13, Sec.3, Zhong Shan Rd., Tanzi Dist., Taichung City 427, Taiwan (R.O.C.)

Tel : +886-4-25347777

Fax : +886-4-25338669



開景陽台窗

Open- Wide Balcony Windows

負責人：梅仲進 / 董事長

公司通訊地址：

236新北市土城區日新街39號

公司電話：02-22648800

公司傳真：02-22648888

E-mail：chinamay.tw@gmail.com

Website：www.tsk.tw

Robert Mei / Chairman

Address：

No.39,Jih-Hsin St Tu-Cheng Dist,New
Taipei City 236, Taiwan (R.O.C.)

Tel：+886-2-22648800

Fax：+886-2-22648888



梅花鋁業

梅花鋁業有限公司

China May Aluminium Co., Ltd.

▼ 簡介

開景陽台窗使用萬向輻輪將窗扇摺疊至同一側或兩側的內開式門窗，適用於住家陽台、露台、庭院、花園等，相當於玻璃屋或採光罩。可使室內及陽台空間之整體得以連貫，視野變得更開闊，且通風性更好。

內部門扇間嵌以耐高溫、抗老化汽車專用 EPDM(三元乙丙)材質密封條，除增長其壽命外，更創新使用一體成型之鋅合金把手，使窗戶關閉迫緊時水氣密的效果更佳。

為因應我國的環境氣候，開景陽台窗兼具防水、隔音、隔熱之設計，玻璃均採複層中空玻璃，關閉時有效地阻斷冷熱溫度入侵及降低噪音，開啟時兼具視覺及功能上的最佳開景窗。

▼ 評語

- 本標的採用複層中空玻璃(內含專利夾層百葉窗)、垂直滑輪單軌道及其相關五金零組件組合而成。此設計讓視野更開闊，兼具環保及綠能功效。其中，上下鋁合金窗框嵌上超寬密封條可有效防水及噪音，且垂直滑輪與軌道的設置在開閉窗時更為省力和順暢。
- 在傳統玻璃窗產業中，本標的物具有獨特之研發技術，擁有強大的市場競爭力。

▼ Introduction

The Open-Wide balcony/patio window uses universal rollers which allows the windows be folded to either the same side or on both sides for home balcony, terrace, garden, patio, etc., the equivalent of glass house or patio covered with skylight.

The main advantage is that the interior of the room and the balcony becomes coherent, the view becomes more open, and the ventilation is better.

The window uses anti-aging automotive grade EPDM seal material, in addition to the use of whole-piece zinc alloy handle allows the windows be closed tightly, thus increase water tightness.

The window adapts Taiwan's local climate, provides both waterproof and sound insulation, Insulated Glass Unit or IGU (double glazing) is used to provide energy efficiency as well as noise reduction. The Open-Wide balcony/patio window provides excellent view when all windows are fully open.

▼ Commentary

- The subject is "open-wide balcony windows", using multilayered hollow glass (includes patented Mezzanine blinds), put together with monorail vertical pulley and related hardware components. This design allows a wider field of view, covers environmental protection and green energy functions. Its aluminum alloy window frame is fitted with extra wide sealing stripes that can effectively keep out water and excess noise, its vertical pulley and monorail placement makes opening and closing windows smooth and less energy consuming
- Within the traditional glass window production industry, this product possesses unique development technology, giving it strong market competitiveness.



烽曜股份有限公司

Feng-Yao Co., Ltd.

▼ 簡介

Magic Charger 為用於汽機車鉛酸電池維修的智慧型修復器。產品以微處理器架構與人工智慧為基礎，具備檢測、自動修復與充電的三機一體設備。系統可對損壞異常的電池進行檢測，檢測後自動依據檢測狀態發出電池狀態訊號，如電池仍處於可修復狀態，系統即自動對電池進行修復與充電。修復處理程序系統會依汽機車及 CC 數判斷電池規格，給予差異化最適合的處理程序。本產品為環保產品，經由修復處理延長鉛酸電池的使用壽命，並降低電池報廢對環境產生之危害。經過公正單位實測，修復率可以達到 90% 以上，修復成功電池的循環壽命可以回復到趨近於新電池。

▼ 評語

- 本標的為汽機車的電池檢測、修復與充電之智慧型三機一體鉛酸電池修復器，創新特色為：(1) 具 PC 微處理器的三機一體機種，檢測、充電與修復為一貫作業程序，過程不須經過人工判斷、更換設備或設定 (2) 具 4 種修復程序設計，可依規格差異，自動設定修復程序 (3) 修復率可達 90% 以上。
- 此產品可延長鉛酸電池循環壽命，極具環保價值。

▼ Introduction

Magic Charger is a three-in-one intelligent repair machine for the maintenance of lead acid batteries used in vehicles. The major functions are battery detection, auto-repair and charging. The system can detect the battery's voltage and capacity with detailed information on its LCD display. If the battery can be repairable after detection, the system will automatically repair and charge the detected battery. In the repair process, the system will optimize the repairing process for different battery status. This product is environmentally friendly since it can reduce the battery waste and lessen the environment hazard through the smart repair process to extend the life of lead-acid batteries. The test report conducted in the third-party lab concludes that the repair rate can reach to more than 90% of original capacity and the cycle life of repaired battery can be restored to close to the new battery.

▼ Commentary

- The subject is an intelligent three in one lead acid battery repair device for automobile battery testing, repairing and charging, its innovative features includes : (1) A three in one model with a PC microprocessor. Testing, charging and repairing works as a consistent operating procedure, this process requires no manual judgement, equipment change nor set up. (2) Possesses 4 types of repair programming, it can automatically set repair procedures, depending on the varied specifications. (3) It can reach a repair rate of 90% and up.
- This product can prolong a lead acid battery's life cycle, highly environmentally healthy.



Magic Charger 智慧型電池修復器
Magic Charger Battery Auto
Repair Machine

負責人：楊銘程 / 董事長

公司通訊地址：

235新北市中和區中正路778號12樓

公司電話：02-82281222

公司傳真：02-82281055

E-mail : sean@feng-yao.com.tw

Website : www.feng-yao.com.tw

Yang, Ming-Cheng / President

Address :

12F., No.778, Zhongzheng Rd., Zhonghe
Dist., New Taipei City 235, Taiwan
(R.O.C.)

Tel : +886-2-82281222

Fax : +886-2-82281055



以大數據辨識技術分析胎兒心音
及心臟疾病之數位聽診系統
Big data enabled computer-aided
auscultation of fetal heart sound
for fetal heart condition screening
and detection

負責人：蔡昆熹 / 總經理

公司通訊地址：

302新竹縣竹北市生醫路2段12號2樓

公司電話：03-6587700

公司傳真：03-6589535

E-mail：sales@imediplus.com

Website：www.imediplus.com

Peter Tasi / General Manager

Address：

2F, No. 12, ShengYi Rd., Sec. 2, Chupei
City, Hsinchu County 302, Taiwan
(R.O.C.)

Tel：+886-3-6587700

Fax：+886-3-6589535



創心醫電股份有限公司

IMEDIPLUS Inc.

▼ 簡介

數位聽診系統是將資訊科技轉換為數位訊號，並累積大量的數據再藉由解讀資訊來做出決策，並將此概念與設備導入先天性心臟問題、心衰竭與慢性阻塞性肺病的診斷上，從這些確診病患的心音與呼吸音中找出特徵，以應用於臨床輔助診斷。未來可進一步應用在獲取孩童高品質的心雜音並進行小兒心臟疾病的演算法診斷分析研究，實現節省醫療資源並妥善運用醫療人力，有效提高小兒心臟病檢出率、降低孩童心因性猝死發生的機率以及在心臟疾病病情惡化前預測其指標變化的趨勢。創新優勢在於將聲學找出最佳之生理訊號，於醫院、診所或家庭常照等場所提供便利性醫療服務，及大數據之未來應用。

▼ 評語

- 本標的為開發高品質數位聽診器，配合大數據分析及機器深度學習技術，判斷所擷取到的心肺音頻，找出最佳生理訊號，產品有效解決未滿足之醫療要求，極具市場價值。
- 可應用於醫院、診所、或家庭長照，提升醫療品質及便利性醫療服務。在技術創新、未來性、及實用價值上，表現均十分優異。

▼ Introduction

The developed digital stethoscope converts the auscultation into digital signals through modern technology. It would be an aid to the diagnosis of congenital heart problems, heart failure and the chronic obstructive pulmonary disease with the features found from the heart sound and breath sound of patients. In the future, it would be applied to acquire children's high-quality heart noise to carry out Research on Diagnostic Analysis of Algorithm to realize cost reduction and to make proper use of medical manpower, effectively increase the detection rate of children with heart disease, reduce cardiac arrest of children and predict the tendency before the deterioration of the heart disease to indirectly reduce the length of stay and improve the patient's health quality. The innovative advantage of this product is to provide the convenient medical services in hospitals, clinics or family through the design that find the best physiological signals form the complex acoustic pathology, and for the future applications of large data.

▼ Commentary

- The subject is to develop a high quality digital stethoscope, coordinating with big data analysis and deep learning technology, to determine the heart and respiratory audio frequency it acquires, to find the most optimal vital signs. This product can effectively solve unfulfilled medical requirements, possessing a high market value.
- Can be applied in hospitals, clinics, or long term house care, raising the quality of medical treatment and the convenience of medical service. From a technology innovation, future foresight, and practical value standpoint, it performs outstandingly.



次氯酸水生成機Elite

創研生技有限公司

C&I International Co.,Ltd.

▼ 簡介

「立可適-Elite 微酸性電解次氯酸殺菌水生成機」，可連續產製每小時約250公升的「微酸性電解次氯酸水」。產製的原理，是將高純度稀鹽酸於無隔膜式電解槽中進行電解後，再與一般家用自來水均勻混合，產生 pH 值介於 5.0~6.5，有效氯濃度介於 10~30ppm 的電解殺菌水。有異於一般傳統的殺菌消毒劑，此種電解殺菌水無色無臭，無皮膚刺激性或腐蝕性，殺菌力強，安全性高，符合環保，已被美、日、韓等先進國家普遍用於醫療院所、食品工業、旅館、畜牧業、餐飲服務業等等，被用以取代傳統酒精、稀釋漂白水、臭氧水等，應用於消毒、殺菌、除臭、防疫等工作，被譽為是「二十一世紀最理想的殺菌水」。

▼ 評語

- 本標的產製原理是將高純度鹽酸於無隔膜式電解槽中進行電解後，再與一般家用自來水均勻混合，產生 PH 值介於 5.0 ~ 6.5，有效氯濃度介於 10-30ppm 的電解殺菌水，無色無臭、無刺激性、殺菌力強、安全性高。
- 創新性主要在於電解槽體迷你化、生成機控制模組化。應用潛力在於小型商用及居家使用。

▼ Introduction

「NeuKocyte HClO Generator」is a great achievement of hygiene management. It's development based on the bactericidal power, safety, eco-friendly, user friendly, cost effective, and artificial intelligence. So that 「NeuKocyte」has been obtained the worldwide invention patent and being considered as a potential disease control product.

The Neukocyte Generator can produce a similar substance such as in our body's immune system the "Neutrophilic Leukocyte". The Neutrophilic Leukocyte in the body's immune system release a very effective antimicrobial oxidant called 「hypochlorous acid (HClO)」to eliminate the invasive bacteria. NeuKocyte HClO solution produces the same oxidant and can kill bacteria up to 99.99% without residue. It is completely safe and friendly for humans and environment. Thus this product is suitable to be applied in : hospitals, food-industries, schools, homes, ranch, public areas, ..., etc. We wish this product to improve the hygiene and diseases control level of human beings and poultry.

▼ Commentary

- The subject is a production method mixing household tap water with high purity hydrochloric acid that had been electrolyzed in a diaphragm less electrolytic tank, to produce electrolytic sterilization water with a PH value 5.0~6.5, and an effective chlorine concentration between 10-30ppm, odorless, colorless, non-irritation, strong bactericidal power, and very safe.
- Main innovations are the miniaturization of the electrolytic tank, modulation of the production controls. Application potential with small businesses and household use.



立可適Elite微酸性電解次氯酸殺菌水生成機

NeuKocyte (Elite) Slightly Acidic Electrolyzed Sanitizer Water Generator

負責人：姚宗斌 / 總經理

公司通訊地址：

330桃園市桃園區富國路920巷228-3號

公司電話：03-3136822

公司傳真：03-3136820

E-mail：service@neukocyte.com.tw

Website：www.neukocyte.com.tw

Alex Yao / General Manager

Address：

No.228-3, Ln. 920, Fuguo Rd., Taoyuan Dist., Taoyuan City 330, Taiwan (R.O.C.)

Tel：+886-3-3136822

Fax：+886-3-3136820



雜質吸收型氮化矽粉
Impurity-adsorption Silicon Nitride

負責人：魏汝超 / 總經理

公司通訊地址：

325桃園市龍潭區工五路139巷116弄33號

公司電話：03-4890582

公司傳真：03-4898933

E-mail：semincsales@seminc.com.tw

Website：www.seminc.com.tw

Richard Wei / General Manager

Address：

No.33, Aly. 116, Ln. 139, Gong 5th Rd.,
Longtan Dist., Taoyuan City 325, Taiwan
(R.O.C)

Tel：+886-3-4890582

Fax：+886-3-4898933



超能高新材料股份有限公司

Super Energy Materials, Inc.

▼ 簡介

雜質吸收型氮化矽粉，包含低氮原子重量百分比之氮化矽 ($\text{Si}_3\text{N}_{4-x}$)，其存在不穩定之懸掛鍵、不飽和鍵及其他未配對鍵結等高活性官能基，因此應用於高溫領域時，這些高活性基團為降低能量進而吸附來自多晶矽長晶過程之雜質，大量雜質被吸附了，因此降低雜質融入矽熔湯中之含量，最終助於減少產出晶錠之雜質。

本標的之開發，即是希望藉由所開發之雜質吸收型氮化矽產品，降低多晶矽錠生產中所面臨之雜質效應，減少含雜質邊料之切除量，從而增加晶圓產出量，最終提升矽晶廠之獲利。

▼ 評語

- 本標的為吸收型氮化矽粉，應用在多晶的太陽能電池之原物料長晶。對於太陽能電池效率有顯著的提昇。
- 市場具獨特性，且規格與德、日齊步。
- 已將標的與終端太陽能電池的生產做垂直式聯結，未來的產值會持續成長。

▼ Introduction

We reveal a kind of advanced silicon nitride material, which is applied on high temperature manufacturing process. Different from traditional product, this new silicon nitride powder is made up through a special process, which can produce lack of nitrogen content in silicon nitride crystal structure. This non-perfect structures have a lot of dangling bond, and can contribute an obvious active property to absorb impurity atoms and interrupt its diffusion pass.

According to these phenomenon, we can easily control impurity contamination and provide a better quality of our products.

▼ Commentary

- The subject is an absorbent silicon nitrate powder, used in elongating wafer crystals as raw material for polycrystalline solar cells. Has apparent effects on raising solar cell efficiency.
- Unique market, with specifications matching Germany and Japan.
- Vertical connection is made between product and solar cell production, future production value will increase.

Microprogram

微程式資訊股份有限公司

微程式資訊股份有限公司

Microprogram Information Co.,Ltd.

▼ 簡介

「RideLife—自行車 e 化服務解決方案」為單車製造業注入了一股革命性的創新能量，微程式協助導入科技服務，融合大數據分析、物聯網的智慧技術，進行單車產業升級。以「e 騎生活，全面守護」為核心定位，在業界首創將「人、車、店、騎」整合為一的新型態騎行生活方案，秉持「智慧、分享、安全、健康」理念，全面守護並協助提升單車騎乘者的騎乘體驗，包括騎乘時提供智慧防竊與摔車呼救功能，給予安心守護，透過虛實整合，將購車服務流程數位電子化，降低人工錯誤率，並藉由分析顧客行為，給予精準需求服務，預測新的商業價值。

▼ 評語

- 本標的之理念在其整體自行車之生態系統（如人、車、店、騎）做考量。提供使用者一完整服務。
- 創新特色在於安、全、感三方面。使用者在騎乘上能「安」心快樂，提供速度踏頻感測器、防盜警示及 APP 社群互動；服務上，「全」面數位升級；客服上，「感」知會員需求，建立 CRM 車友大數據管理平台。

▼ Introduction

"RideLife – Bike's e-Service Solution" provides an innovative and revolutionary energy for bicycle industry. Microprogram elevates the bike industry by implementing technology services with big data analysis and IoT technology.

"E-Ride Life with Comprehensive Care" is our core orientation. We are the first to combine people, bicycles, stores and cycling to a whole new type of cycling life style, providing cyclists a smart ,sharing ,safe and healthy riding experience. We provide smart anti-theft and accident alert function to relief cyclists with careful guard; we also digitalized purchasing process by integrating online and offline to eliminate human error. And last but not least, we analyze customers' behavior to provide accurate service and refine new business value.

▼ Commentary

- The subject is an ideal that considers the whole biking life style ecosystem (like humans, bikes, shops, riding), to provide the user a single complete service.
- Innovative features include three aspects which are peace, comprehensiveness, perception. Users have "peace" of mind when riding, providing pedal frequency speed detectors, anti-theft warnings and social interaction APP; service receives a "comprehensive" digital upgrade, customer service "perceive" member needs, setting up a large CRM bike pal database management platform.



RideLife—自行車e化服務解決方案 RideLife–Bike's e-Service Solution

負責人：吳騰彥 / 總經理

公司通訊地址：

407台中市西屯區逢福里河南路二段
262號14樓

公司電話：04-23692699

公司傳真：04-24518100

E-mail：sales@program.com.tw

Website：www.program.com.tw

Teng-Yen,Wu / General Manager

Address：

14F., No.262, Sec. 2, Henan Rd., Xitun
Dist., Taichung City 407, Taiwan (R.O.C.)

Tel：+886-4-23692699

Fax：+886-4-24518100



2.4GHz雙頻道數位麥克風系統 2.4G Dual Channel Digital Microphone System

負責人：孔德偉 / 董事長

公司通訊地址：

600嘉義市東區忠孝二街88號

公司電話：05-2711000

公司傳真：05-2767611

E-mail：sales@chiayo.com.tw

Website：www.chiayo.com.tw

David Kung / President

Address：

No. 88, Chung-Hsiao Street 2, Chiayi

600, Taiwan (R.O.C)

Tel：+886-5-2711000

Fax：+886-5-2767611

CHIAYO

嘉友電子股份有限公司

CHIAYO Electronics Co., Ltd.

▼ 簡介

DWR-2420 數位麥克風系統之創新特點包括：

- 採用無壓縮的音訊搭配獨有的編解碼晶片與加密技術，讓原音重現。
- 可自動對應訊號，穩定性高且抗雜訊。
- 延遲只有 4 毫秒，開機時間只需要 0.2 秒。
- 窄頻設計，具有 190 個頻點，為市售機種中最多。
- 自動掃頻，可調整 RSSI 強度。
- 雙調諧自動選訊接收，使用距離可達 100 公尺。
- 採用數位的頻段可排除傳統類比常見的干擾問題。
- 接收機裝配 LCD 顯示幕，隨時掌握麥克風電量，保持最佳電力狀況，HOLD 住全場。
- 可取代教室、會議室、寺廟、教堂、簡報室、舞台…等各場合所原用的類比麥克風系統。

▼ 評語

- 本標的為針對教學、會議等應用所設計之 2.4 GHz 數位麥克風系統。率先設計雙頻道、雙天線系統，搭配便利自動切換功能及臺灣電子業技術與成本優勢，成為同類產品中售價最低但是功能最強的產品，極具國際競爭力。
- 創新特點為：(1) 採用 minimum shift keying 窄頻設計，並自動掃頻，穩定性高且抗雜訊 (2) 獨特之編、解碼晶片與加密技術，音訊採用無壓縮設計，訊號無失真，得以原音重現 (3) 雙通道自動選訊功能使得使用距離可拉長到 100 公尺。

▼ Introduction

The innovative features of DWR-2420 digital microphone system include:

- Uncompressed audio signal with proprietary encryption transmits high-fidelity sound quality.
- Automatic data correlation for high stability and noise immunity.
- Latency of 4ms and quick reboot time of 0.2s.
- The narrow band design provides up to 190 selectable frequencies, most utility on market.
- Automatic frequency scanning with adjustable RSSI level.
- 100 meters outdoors operation distance in true diversity mode.
- 2.4GHz frequency band, free of interference problems of analog microphones.
- Clear and intuitive LCD display for quick set-up and monitoring transmitter's battery power.
- Ideal for classroom, meeting room, temple, church, presentation and stage that traditional analog microphone covers.

▼ Commentary

- The subject is a 2.4GHz digital microphone system designed specifically for purposes such as education, meetings etc. pioneering a duo channel design, duo antenna system, paired with unique convenient channel-switching function along with Taiwan electronic industry's technological and cost advantage, to become the lowest-priced product with the strongest functionality amongst its peers, possessing high international competitiveness.
- Innovative features include：(1) Utilizes MSK (minimum shift keying) narrowband design, with automatic frequency scanning, high stability and noise resistant. (2) Proprietary coding, decoding chip and encryption technology, uncompressed audio design, no signal distortion, transmits high-fidelity sound quality. (3) Duo antenna true diversity reception extends the operation distance up to 100 meters.



精呈科技股份有限公司

EXCETEK Technologies Co.,Ltd.

▼ 簡介

NP600L 智慧化高精度線馬線切割加工機，搭載遠端監控，領先業界可即時分析它廠品牌機台使用狀況，並傳遞訊息至行動裝置上，大幅提升加工管理便利性，及透過智慧型專家系統，自動帶入最佳加工數據庫。另外採用無鐵心式線馬，搭配獨有的專利低摩擦單動柱型結構設計，加工精度達 $\pm 2\mu\text{m}$ 內，實現客戶對精密模具 Pitch 加工要求，並透過智能轉角控制，客戶能更有效率地抓條件，有效降低公母模配合間隙，及自動調整引入線的放電參數，引入線痕 $<3\mu\text{m}$ ，幫客戶有效解決線痕造成射出成品有瑕疵的困擾，同時搭載線上量測，領先業界做到即時量測即時補償。

▼ 評語

- 本標的為線性馬達驅動之線切割加工機，經精進機械結構、節能迴路設計、銅線消耗線上量測即時補償及遠端加工監控等創新性設計之新產品。
- 相關創新技術如“工具機防撞保護方法及其系統”等已分別獲 5 項臺灣發明專利，3 項新型專利。

▼ Introduction

NP600L Intelligent High Precision Linear Motor Wire EDM Machine is equipped with remote control monitor, this function could analyze other machines status. You can manage each machine via mobile device to improve management.

Intelligent expert system: once input materials and anticipate surface accuracy can lead best processing statistics. New patent low frictional single moving column structure. Thus, processing accuracy can reach up to $\pm 2\mu\text{m}$ to fulfill high-precision mold machining requirement.

Intelligent corner control: you can search EDM data efficiently, reduce punch and die clearance, and adjust automatically the EDM parameter of entrance mark. When approach cutting, then new parameters combination to reduce wire mark to $3\mu\text{m}$ so that wire mark problem will be solved.

On-line measurement system: on-line measurement and calibration instead of the conventional one, significantly reduce the time to calibrate the workpiece.

▼ Commentary

- The subject is a linear electric motor driven cutting machine, a new product with innovative design such as sophisticated mechanical structure, energy saving circuit design, online copper wire consumption measurement with real-time compensation and remote process monitoring, etc.
- Related innovative technology such as "Machine tool shock protection method and its system" etc. has received 5 Taiwanese invention patents and 3 utility patents.



NP600L 智慧化高精度線馬線切割加工機

NP600L Intelligent High Precision Linear Motor Wire EDM Machine

負責人：張瑞成 / 董事長

公司通訊地址：

429台中市神岡區豐工三路10號

公司電話：04-25200688

公司傳真：04-25200111

E-mail：info@excetek.com.tw

Website：www.excetek.com

Richard Chang / President

Address：

No.10,Fenggong 3rd Rd.,Shengang Dist.,Taichung City 429,Taiwan (R.O.C)

Tel：+886-4-25200688

Fax：+886-4-25200111



勵德自動化有限公司

Leader Automation Co., Ltd.

▼ 簡介

簡單化介面操作功能，操作者只需將位移的機械手臂座標點、I/O 點控制、是否延遲，透過勾選、確認的方式進行儲存，即可連續執行該軌跡，可省去複雜的程式語言編輯，輕鬆地掌控機械手臂的做動。

機械手臂軌跡教導非只是單純的路徑記憶，更包含整體加工過程中的其他相關程序控制（移動、定位、夾放、噴塗或其他週邊設備動作）。可透過開放的軟體修正已儲存之加工動作，讓使用人員便利工作，簡化產線變更流程，在產線上與進口的機械手臂相比，機械手臂軌跡教導時間節省約 50%。

▼ 評語

- 本標的為針對市面上使用之機械手臂，進行規格蒐集，並針對中小企業客製化所需的功能、操作介面及機械手臂軌跡教導等功能加以精進設計，已通過驗證取得台灣機器人標章 (TARS)。
- 相關創新技術如“具軌跡教導之多關節機械手臂”等已取得 3 項臺灣新專利。

▼ Introduction

Simple interface operation function, the operator only need to shift the robot's coordinates, I / O point control, delay time, through the check, confirm the way to store, it can continue to perform the trajectory, it can save away complex programs language editing, easy to control the robot of the move.

The robot's trajectory teaches not just a simple path, but also contains other related program control (moving, positioning, clamping, spraying, or other peripheral actions during the overall machining process). If it need to modify the stored processing action can also be modified through the software, so that users work convenience, simplify the production line change process, in the production line compared with the imported robots, the robot's trajectory teach time can reduce about 50% of the time.

▼ Commentary

- The subject is data collection on specification of mechanical arms used on the market, and refine designs on customer customization for functions, control interface and mechanical arm tracking tutorial required by medium to small businesses, and pass verification to acquire TARS.
- Related innovative technology such as "Multi-segment mechanical arm with tracking tutorial" has received 3 Taiwanese utility patents.

六軸機械手臂

6-Axis Articulated Robot

負責人：施正德 / 董事長

公司通訊地址：

515彰化縣大村鄉中山路3段2巷430號

公司電話：04-8524640

公司傳真：04-8526341

E-mail：ldauto@ld-auto.com

Website：www.ld-auto.com

Shih Cheng Te / President

Address：

No.430, Ln. 2, Sec. 3, Zhongshan Rd.,

Dacun Township, Changhua County

515, Taiwan (R.O.C.)

Tel：+886-4-8524640

Fax：+886-4-8526341



鴻進科技股份有限公司

Risun Expanse Corporation

▼ 簡介

馬達常是機電動力產品的心臟、系統動能的主件，馬達核心及磁場關鍵就是馬達定子，所有電路都須配合其執行。鴻進直流無刷微型風扇，不斷精進馬達結構，將定子 SMD 化、模組化，促進馬達微型化與性能提昇，具體特色為：

1. 體積超小：得獎標的 RFB1804 僅 18×18mm× 厚度 4 mm
2. 低碳、低功耗：節能比競爭者省電 20%，順應環保趨勢
3. 交期縮短：馬達定子模組化，可 SMT 生產比業界快 2.5 倍
4. 品質穩定：良率比競爭對手高 25%

直流無刷微型風扇馬達系列已逐步投產，並受到業界歡迎，被大量運用於手持式行動裝置、無人機、VR、抬頭顯示器、PM2.5 環境偵測器等，是未來智能產業發展的大助力。

▼ 評語

- 本標的在創新設計上，將馬達定子線圈無鐵心化及表面貼焊元件化 (SMD, surface-mount devices) 與模組化，且改變定子與轉子間的氣隙為軸向，可運用在無人機、微型投影機、平板電腦等產品。
- 創新技術如“馬達磁極組件及其應用於馬達製造方法”，已獲臺灣、美國、中國大陸發明專利。

▼ Introduction

Motors play the integral part of high performance of all mechatronics products when the stator is the key of micro dynamo. With the advanced structure of the stator, Risun's micro blowers essentially improve the effectiveness and efficiency, featuring in:

1. Slim profile and compact size: 4 mm in height; 18 by 18 mm in size.
2. Low power and carbon emission: the energy consumption of this micro blower is 20% lower than that of other similar products in the market.
3. Faster delivery: modularization of stator components can accelerate production by means of SMT.
4. High reliability: the yield rate is 25% higher than the competitors.

The DC brushless Micro Blower series have immensely prevailed in the markets. They offer efficient cooling for portable gadgets, such as: UAVs, VRs, HUDs, and PM2.5 portable detectors and etc. as believed to have a promising outlook in the smart energy field!

▼ Commentary

- The subject is on innovative design, the de-metallization of an electric motor's stator coil along with the componentization and modulation of SMD (surface-mount devices), and change the air gap between the stator and the rotor from radial to axial, applicable on products such as unmanned drones, micro projectors, tablet computers etc.
- Innovative technology such as "Magnetic motor components and its application in motor construction" has received invention patents from Taiwan, US and China.



創新直流無刷微型鼓風扇
Innovative DC Brushless
Micro Blower

負責人：黃江城 / 總經理

公司通訊地址：

114 台北市內湖區環山路一段24巷22號1樓

公司電話：02-87973990

公司傳真：02-87973989

E-mail: risun@risun.com.tw

Website: www.risun.com.tw /

www.risunmicrotec.com

C. C. Huang / General Manager

Address :

1F, No.22, Lane24, Sec.1, Huan Shan Road, Taipei, 114, Taiwan (R.O.C.)

Tel : +886-2-87973990

Fax : +886-2-87973989



乳酸菌發酵代謝產物 富滿肽
MegaProbiotide, fermented
nutrients of lactic acid bacteria

負責人：郭仲偉 / 董事長

公司通訊地址：

744台南市新市區國際路17號A棟四樓之2

公司電話：06-5891876

公司傳真：06-5894810

E-mail：glac@glact.com.tw

Website：www.glac.com.tw

Chung-Wei, Kuo / Chairman

Address：4F.-2, Building A, No.17,

Guoji Rd., Sinshih Dist., Tainan City 744,

Taiwan (R. O. C.)

Tel：+886-6-5891876

Fax：+886-6-5894810



豐華生物科技股份有限公司

GLAC Biotech Co., Ltd.

▼ 簡介

豐華生物科技運用十多年來的多元化跨領域產業經驗，引領乳酸菌突破框架走入農業發展。配合友善環境政策，以全回收製程開發出富含生物性有機物質、微量元素、抑菌素等多重營養素的發酵液產品富滿肽，可促進作物生長同時具備保鮮劑的衍伸性商品價值。

田間測試顯示富滿肽有效促進水稻的植株茁壯並提升 13% 收成量，產品亦可運用在空心菜、皇宮菜與咖啡樹等經濟作物，使用 1:200~1:1000 稀釋比例進行灌注、噴灑即可發揮功效。另對於果實收成常見的保質問題，則可以 1:20~1:50 比例加入收成後的水洗清潔程序，有助於芒果、香蕉、火龍果等重點外銷水果展現優質的保存能力。

▼ 評語

- 本標的利用乳酸菌發酵代謝產物回收開發液態肥料，減少工廠廢水的處理，對於農作物與高價值的精緻作物可達到收成增量或保鮮效果。
- 創新性在於建立主力產品之廢棄物的後製技術，屬環保產品，有利於循環經濟且有顯著的農用價值，可取代部分化學肥料、化學保鮮劑，應用潛力大。

▼ Introduction

According to diversified interdisciplinary experiences more than ten years, GLAC Biotech Co., Ltd. leads probiotics breakthrough framework into the agricultural application accompanying with environmental protection policy. MegaProbiotide produced by entire reclamation processing rich in organic substances, trace elements and bacteriocin, can promote crops grow better also possess derivative value as preservatives for fruits as well.

Field trials proved MegaProbiotide increase vigor of paddy with yields by 13%. It performs on cash crops such as water spinach, ceylon spinach and coffee tree effectively, too. By irrigation or leaf spray, we recommended realistically at a rate from 1-5mL per liter of water to exert. As to prolonged preservation like mango, banana, dragon fruit, intended to export, ratio in 1:20 ~ 1:50 applied into washing procedure will be good.

▼ Commentary

- The subject is to use recycle metabolite from lactic acid bacteria fermentation to develop liquid fertilizer, reducing factory wastewater treatment, achieving increased production or freshness retention effect for crops and high value exquisite crops.
- Innovation is at setting up a post-production waste handling technique for a mainline product, an environmental protection product, beneficial to circular economy. Has apparent agricultural value. Can partially replace chemical fertilizer, chemical preserver, and great application potential.



瀚生醫電股份有限公司

Caduceus Biotechnology Inc.

▼ 簡介

本產品 (HC-BS01) 採用市售光碟機光學頭加以改裝而成，具有高精度、快速與高性價比之優勢。採用 8" 的圓形載盤，讀取 DNA 及蛋白質等生物陣列晶片螢光訊號就猶如讀取光碟片一樣，一次可同時讀取六片 1" x3" 大小之生物晶片。採用共軛焦光學讀取訊號，其光學解析度約 $1\mu\text{m}$ ，靈敏度為 0.1 螢光子 / μm^2 ，動態強度範圍可以涵蓋 0~65535 (16 bits)。當掃描解析度為 $10\mu\text{m}$ 時，總共雙色掃描時間約 20 min，相當於每片掃描時間不到 4 分鐘。本產品同時具有螢光影像擷取及分析雙軟體，可以用來控制掃描生物晶片及分析影像數據。機台本身輕靈小巧，其大小為 $52 \times 35 \times 25\text{ cm}^3$ ，重量 19.7 公斤。

▼ 評語

- 本標的以光碟機讀取技術，讀取陣列式生物晶片之螢光訊號。解析度高為其優勢，具備動態聚焦功能，可同時掃描多片樣品。
- 採用雙光學頭做為雙色微陣列生物晶片掃描儀，每一個光學頭皆具有各自的自動動態聚焦伺服系統及共軛焦螢光收光系統，可避免各色螢光訊號相互干擾，增加系統的靈敏度及訊號動態範圍。

▼ Introduction

A cost-effective microarray biochip scanner (HC-BS01) with autofocus, high accuracy and rapid scan time is produced based on modified optical pickup heads. The scanner is used for fluorescence image capturing of DNA or protein microarray chips. 6 biochips with the standard size of 1" x3" can be easily loaded on an 8" disk cartridge and be scanned by red and green laser beams simultaneously. The laser beam sizes are around 1m and the scanning time for two-color fluorescence is 20 mins at $10\mu\text{m}$ resolution, i.e. the average scan time for one biochip is less than 4 mins. The scanner has a high sensitivity of 0.1 fluoro/ μm^2 and dynamic range of 16 bits. Two self-developed softwares of fluorescence image capturing and image analysis are built, so that the scanning of the biochip and the analyzing of the image data can be down within HC-BS01. The dimension of the scanner is $52 \times 35 \times 25\text{ cm}^3$ and its weight is 19.7 kg.

▼ Commentary

- The subject is a CD player reading technology, reading fluorescent signals from an array of bio-organic chips. Its advantages are high resolution, active focus function, and can simultaneously scan multiple samples.
- Currently the company is collaborating with a bio-organic chip company, and is developing products with its end user. Has a chance of letting the product hold a certain amount of market shares within a short period.



光碟式讀取微陣列生物晶片掃描儀
Disk-Type Reading Microarray
Biochip Scanner

負責人：刁國棟 / 董事長

公司通訊地址：

300新竹科學園區篤行一路10號2樓

公司電話：03-5790188

公司傳真：03-5790298

E-mail: ry.tsai@caduceus.com.tw

Website: www.caduceus.com.tw

Golden Tiao / Chairman

Address :

2F, No., 10, Dusing Road 1, Hsinchu
Science Park, Hsinchu, 300, Taiwan
(R. O. C.)

Tel : +886-3-5790188

Fax : +886-3-5790298



eDetector 惡意程式偵測暨蒐證軟體 eDetector

負責人：黃王水衿 / 董事長

公司通訊地址：

104台北市中山區松江路309號11樓之5

公司電話：02-25172532

公司傳真：02-25171097

E-mail：service@iforensics.com.tw

Website：www.iforensics.com.tw

Huang Wang, Shui-Gum / Chairman

Address：

11F-5, No.309, Songjiang Rd.,

Zhongshan Dist., Taipei 104,

Taiwan (R. O. C.)

Tel：+886-2-25172532

Fax：+886-2-25171097



鑒真數位有限公司

iForensics Digital Inc.

▼ 簡介

eDetector 具備記憶體動態行為偵測功能，在不影響目標主機運作的情況下，協助判斷未知型惡意程式，讓使用者面對 APT 攻擊時不再束手無策。更能協助建構內網安全預警系統，及早發現潛伏的病毒，在最短時間內採取必要因應措施，防止資安事件災情擴大。

除具有惡意程式分析鑑識功能，亦提供快速蒐證功能，在發生惡意程式滲透植入資安事件初期時，得以透過蒐證功能深入分析，助於找出資安事件發生之源頭，作為未來強化資安架構與政策擬定之參考資訊。

▼ 評語

- 本標的為惡意程式偵測暨蒐證軟體。中央管理系統派送 Agent 端程式掃描遠端電腦是否感染惡意程式，並擷取目標電腦的程式記憶體傾印檔進行分析。
- 創新特點為：(1) 可同時用於偵測未知型及已知型之惡意程式，進行記憶體及檔案掃描 (2) 採用無痕式鑑識級掃描技術，過程中不留下痕跡 (3) 相容於各種 Windows 系統，不打擾遠端作業運作，提高資安團隊的工作效率。
- 資安事件已是所有企業需面對的經常性挑戰，未來市場潛力可觀。

▼ Introduction

eDetector detects the behavior of processes, it can assist users to recognize the malwares and mark them. Through eDetector, users can easily trace the malware with limited performance affection to the target.

Furthermore, eDetector reduces the time cost and saves the effort for users on malware scanning, it also helps them to build a real-time alarm system, let users know who, where, when and how did the malware start and what did it do. Therefore, users can plan few necessary steps to deal with this issue.

▼ Commentary

- The subject is a malware program detection and evidence collector. The central management system sends an agent end program to scan whether or not an end terminal is infected with malicious programming, and copies the target terminal's program memory dump file for further analysis.
- Innovative features include：(1) Can simultaneously be used to detect known or unknown malicious programs, conducting memory and file scanning. (2) Uses a forensic grade incognito scanning technology, leaving no trace during the process. (3) Compatible with different Windows operating systems, does not interrupt remote operations, increasing the work efficiency of the information security team.
- Information security is a constant challenge that all companies have to face, with considerable future market potential.

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閃耀國際

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第 24 屆

中小企業創新研究獎

The 24th Taiwan SMEs Innovation Award

評審委員會

Members of the Review Committees

決審委員名單

決審委員召集人：吳明機委員 經濟部中小企業處處長

呂正華 經濟部工業局局長

李鎡 經濟部商業司司長

邱求慧 科技部產業及園區業務司司長

林秋豐 財團法人金屬工業研究發展中心執行長

林慧瑛 社團法人中華民國全國中小企業總會理事長

洪淑敏 經濟部智慧財產局局長

許婉琪 中小企業聯合輔導基金會總經理

楊珍妮 經濟部國貿局局長

楊慶煜 高雄應用科技大學校長

薛富盛 國立中興大學校長

羅達生 經濟部技術處處長

謝明達 財團法人中衛發展中心董事長

(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：蔡新源委員 創智智權管理顧問股份有限公司董事長

類別	姓名	服務單位 / 職稱
資訊 與 電子類	詹文男 (分組召集人)	財團法人資訊工業策進會產業情報研究所所長
	徐永珍	國立清華大學電機工程學系暨電子工程研究所教授
	廖婉君	國立臺灣大學電機工程學系教授
	綦振瀛	國立中央大學資訊電機工程學系教授暨臺灣聯合大學系統副校長
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
	詹炳熾	財團法人精密機械研究發展中心顧問
	蔡宏營	國立清華大學動力機械工程教授兼系主任
	羅裕龍	國立成功大學機械工程學系教授
材料 與 生技類	林啟萬 (分組召集人)	財團法人工業技術研究院生醫與醫材研究所所長暨 國立臺灣大學台大工研院合設奈米研究中心主任
	李勝偉	國立中央大學材料科學與工程研究所教授
	廖啟成	財團法人食品工業發展研究所所長
	賴志煌	國立清華大學材料工程科學學系教授兼工學院院長
服務類	張瑞芬 (分組召集人)	國立清華大學工業工程與工程管理學系教授
	張家齊	國立交通大學管理科學系教授兼系主任
	陳俊杉	國立臺灣大學土木工程學系教授
	陳銘崑	國立臺北科技大學服務與科技管理所副教授
綜合類	官政能 (分組召集人)	實踐大學台北校區副校長
	宋同正	財團法人臺灣創意設計中心執行長
	黃世輝	國立雲林科技大學設計學院院長暨創意生活設計系教授
	劉佩玲	國立臺灣大學智慧生活科技整合與創新研究中心主任

(上述名單除召集人外，依姓氏筆畫排列)

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創新佳績
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中小企業創新研究獎

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申請須知

Application Guide

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，經濟部依據「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 105 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 105 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、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、A+ 企業創新研發淬鍊計畫(原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項獎助金，經評審通過者獲頒證書及獎助金新台幣 15 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 名為原則，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、數位內容產品獎...等)或前一屆已獲本獎項獎助金之得獎企業，經評審通過者獲頒證書，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，僅頒發獎助金新台幣 15 萬元正，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、電子檔各一份**。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，送審前請自行影印留存。
2. **網路報名後通訊寄件**，請將申請資料掛號郵寄至：
「106 臺北市大安區羅斯福路二段 95 號 6 樓 創新研究獎工作小組收」
3. **網路報名及下載申請書**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>)。
4. 洽詢電話：(02)2366-0812 分機 213 創新研究獎工作小組 茆小姐。

(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：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 千瓦之石油及煤製品製造業、化學材料製造業及化學製品製造業等業者；或廠房面積未達 150 平方公尺且電力容量、熱能(馬力與電熱之合計)未達 75 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 105 年申請標的研發完成後至 106 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〔請參選企業儘量提供〕)
6. 以員工人數認定之中小企業，請附 105 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. 105 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 106 年 6 月 16 日前掛號寄達)

(三) 申請期間

即日起至 106 年 5 月 31 日 17:30 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，缺件者應於期限內完成補件。
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

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 106 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。



第 24 屆

中小企業創新研究獎

The 24th Taiwan SMEs Innovation Award

得獎專輯

發行人：沈榮津

總編輯：吳明機

副總編輯：蘇文玲、林志成、王振保

主編：雷世謙、文中元、郭玲琳、戴麗芬

編輯群：郭昱青、胡劍銘、陳博鍊、周毓玲、洪素芬、茆晉維、劉欣潔

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