



長庚醫療財團法人
Chang Gung Medical Foundation

長庚醫院擁有優質技術專利，可提供國內外廠商讓與或授權，以提升廠商競爭力及促進產業發展。
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創新醫材領域 Medical Devices

No.	Project No.	Primary Inventor	Patent Summary	Patent Country	Patent Type	Patent No.
1	101 B12-13	張毓翰 YU-HAN ZHANG	多孔式人工膝關節 Porous Artificial Knee Joint : A new artificial knee joint model that allows bone concrete to release antibiotics deeper into the infected wounds through the reserved holes on it.	Taiwan	Utility Model	TW M465151
				China	Utility Model	CN 203341865U
2	101 B16-17	鄭博仁 PO-JEN CHENG	骨盆約束套組 Pelvic Compression Hemostasis Kit : A new compression method and kit to better control postpartum hemorrhage.	Taiwan	Utility Model	TW M450353
				China	Utility Model	CN 203122505U
3	102 B18-19	謝邦鑫 BANG-XIN XIE	萬向互鎖式髌臼強化器 Universal Interlocking Type Acetabulum Enhancer : A device which provides better support for the implanted artificial hip joint to avoid further impairments in the surrounding tissues.	Taiwan	Utility Model	TW M495839
				China	Utility Model	CN 203777104U



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4	P10508	楊仁宗 JEN-TSUNG YANG	用於檢測脫水的方法及設備 Method And Apparatus For Detecting Dehydration: A faster method and device to detect dehydration using human saliva instead of blood or urine.	China	Invention	CN 107300576B
				Germany	Invention	EP 3229021B1
				France	Invention	EP 3229021B1
				United Kingdom	Invention	EP 3229021B1
				Taiwan	Invention	TW I651531
				USA	Invention	US 10299678
5	P10509-10	高軒楷 HSUAN-KAI KAO	克氏鋼釘固定結構 Kirschner Wire Fixation Structure: A device which prevents the implanted Kirschner Wire from slipping on the bone or in the joints and causing more impairments.	Taiwan	Invention	TW I572318
				USA	Invention	US 10052133
				China	Utility Model	CN 206138192U
6	P10517	洪志宏 JI-HONG HONG	加馬光子偵測成像裝置與方法 Apparatus And Method For Imaging Gamma Ray: A detecting method and device which detects both prompt gamma ray and positron annihilation gamma ray to provide better image for cancer radiotherapy evaluation.	China	Invention	CN 107544086B
7	P10528-29	王錦滿 JIN-MAN WANG	吞嚥功能檢測系統及檢測喉帶裝置 Apparatus And Method For Swallow Function Detection: A portable device and method to detect choking at home or in the wards.	Taiwan	Invention	TW I536962
				Taiwan	Invention	TW I536966



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8	P10532-33	賴伯亮 PO-LIANG LAI	脊柱矯正裝置 Spine Correction Apparatus: A device which does not require readjustment surgeries after implantation and better treats scoliosis.	China	Invention	CN 107198560B
				China	Utility Model	CN 205758687U
				Taiwan	Invention	TW I658822
				USA	Invention	US 10441320
9	P10604	詹益聖 YI-SHENG ZHAN	設計手術器械的方法及定位器械 The Method of Design For Surgical Instruments And Guider: A method to design the surgery implants navigation device and avoid further impairments in the original operated parts.	Taiwan	Invention	TW I639409
10	P10607	賴伯亮 PO-LIANG LAI	可被生物吸收的合成骨植入物 Bioresorable Synthetic Bone Graft: A new bone graft component to provide better cure for osteoporosis-induced fractures.	Taiwan	Invention	TW I652075
11	P10608	賴伯亮 PO-LIANG LAI	具單平面活動與軸向旋轉功能之椎弓螺釘系統 The Pedicle Screw System With Single Plane Motion And Axial Rotation: A device that better controls the scoliosis correction device during implantation.	Taiwan	Invention	TW I639410
				USA	Invention	US 10918417



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No.	Project No.	Primary Inventor	Patent Summary	Patent Country	Patent Type	Patent No.
12	P10611	蔡宗廷 TSUNG-TING TSAI	椎弓根螺釘微創定位裝置 Guiding Apparatus for Minimally Invasive Pedicle Screws Insertion: Implementing 3D-printing technology to design a minimally invasive spine repair surgery method.	USA	Invention	US 10603085
13	P10629-30	翁浚睿 CHUN-JUI WENG	骨釘導引結構 Bone Pin Guiding Structure: A navigation device to make temporary anchorage device implantation more precise, reducing wounds and avoiding infection.	Taiwan	Invention	TW I634867
				China	Utility Model	CN 208435780U
14	P10701	王圳華 CHUN HUA WANG	可調式胸甲 Adjustable Respirator Shell: A more durable respirator shell model to better fit different body shapes.	China	Invention	CN 109833186A
				Taiwan	Invention	TW I678198
				USA	Invention	US 10940083
15	P10702	鄭博仁 PO-JEN CHENG	用於約束子宮頸的裝置、其器械及其束帶 Device, Instrument And Belt For Tightening Cervix: A new device to prevent premature birth that can be implemented at outpatient clinic without anesthesia.	China	Invention	CN 109925033B
				Taiwan	Invention	TW I672131
				USA	Invention	US 10918414
				USA	Invention	US 20210128199A1



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No.	Project No.	Primary Inventor	Patent Summary	Patent Country	Patent Type	Patent No.
16	P10716	褚柏顯 PAO-HSIEN CHU	心律調節裝置及心律調節系統 Cardiac Pacing Device And System: A new cardiac pacing model that can treat combined arrhythmia problems and create blockage between an atrium and an auricle at the same time.	China	Invention	CN 110314282A
				European Union	Invention	EP 3549634A (Approved and registering)
				Japan	Invention	JP 2019181177A
				Japan	Invention	JP 2021130022A
				Taiwan	Invention	TW I696476
				USA	Invention	US 20190299011A
17	P10729	傅再生 ZAI-SHENG FU	製備水溶性量子點之方法 Two-Phase Preparation Method for Water-Soluble Quantum Dots: A method to produce water-soluble quantum dot materials under normal air pressure and temperature lower than 100 degrees Celsius.	Taiwan	Invention	TW I704108
18	P10730-31	褚柏顯 PAO-HSIEN CHU	導管裝置 Catheter Device: Implementing a conical screw thread structure on the cardiac catheter to remove blood clots on the vessel.	Japan	Utility Model	JP 3220573U



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No.	Project No.	Primary Inventor	Patent Summary	Patent Country	Patent Type	Patent No.
19	P10733	吳為吉 WEI-CHI WU	眼部復健系統 Eye Rehabilitation System: Implementing pressure sensors and data process method to monitor the positions, gestures and duration of the rehabilitation process after retina detachment repair surgery and provide improvement suggestions.	Taiwan	Invention	TW I696459
20	P10739	廖振中 JEN-CHUNG LIAO	經皮內視鏡椎間盤定位裝置 Guiding Apparatus for Minimally Invasive Intervertebral Disc Surgery: A device that guides the implants properly during intervertebral disc surgery. The device also allows the surgery to become minimally invasive.	China	Utility Model	CN 211094770U
				Taiwan	Invention	TW I672119
21	P10740	洪裕強 YU-CHIANG HUNG	針具的表面改質方法 Method For Surface Modification of Needle: A new way of coating the needles for accupuncture treatment to ease the discomfort.	Taiwan	Invention	TW 202200103 (Approved and registering)
				China	Invention	CN 111719113B
				Hong Kong	Invention	HK 40031247
22	P10806	廖健宏 CHIEN-HUNG LIAO	外科手術縫合輔助裝置 Surgical Anastomotic Assistance Device And Preparation Process Thereof: A suture guide device to improve anastomosis.	Taiwan	Invention	TW I722865



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No.	Project No.	Primary Inventor	Patent Summary	Patent Country	Patent Type	Patent No.
23	P10828	盧建璋 JIAN-ZHANG LU	人工造口裝置 Artificial Stoma Device : An implanted artificial stoma model that can fit into different body shapes. The implanted model also prevents leakage and infection caused by normal ostomy bags.	Taiwan	Invention	TW I684437
				China	Invention	CN 110856676B
				USA	Invention	US 11045347
				USA	Invention	US 20210290427A1
24	P10838	王錦滿 JIN-MAN WANG	下頷張合力量與施力穩定狀態檢測裝置 A Tool to Measure The Strength And Speed of Jaw Opening : Implementing sensors and data process method to improve the jaw function examination process.	Taiwan	Invention	TW I702941
25	P10906	廖漢聰 HAN-CONG LIAO	眼眶底骨破裂性骨折重建之防止眼球破裂的安全裝置 Safety Protecting Structure For Orbital Blowout Fracture Reconstruction : A new device to protect the eye ball while performing orbital fracture reconstruction surgery.	Taiwan	Invention	TW I706774



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26	P10918	蔡宗廷 TSUNG-TING TSAI	防導電骨釘 Non-Conductive Bone Nail : A new bone nail model that does not cause electric current to leak from the nerves.	Taiwan	Invention	TW 202142194
				Taiwan	Utility Model	TW M599626
27	P10936	張儷卿 LI-QING ZHANG	口咽罩 Oropharyngeal Mask : A new mask model that prevents choking caused by water or objects during dental treatments.	Taiwan	Utility Model	TW M600134
				Japan	Utility Model	JP 3229476U
28	P10939	張嘉獻 CHIA-HSIEH CHANG	生長板箝制裝置 Apparatus for Controlling the Growth of Epiphyseal Plate : A device that fixes the epiphyseal plate to prevent further length difference between the legs.	Taiwan	Invention	TW I746241
29	P10942	洪裕強 YU-CHIANG HUNG	針灸穴位檢測裝置與檢測方法 Apparatus And Method for Accupoint Detection : A device that detects the electric flow in the body to provide acupuncture guidance.	Taiwan	Invention	TW I769628
				China	Invention	CN 114642584A
30	P11002	吳建興 JIAN-XING WU	複合式漏液檢知貼片 Composite Liquid Leak Detection Patch : A reusable patch-like sensor that can be applied on all kinds of pipes to detect fluid leakage.	Taiwan	Utility Model	TW M589275



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31	P11015	林芸萱 YUN-HSUAN LIN	具紅光及近紅外光多波段眼部活化裝置及其操作方法 A Photo Bio-Modulation Device With Red Light And Near-Infrared Light for The Eyes And The Method Thereof: A device that releases red light and near-infrared light to revive the retina or optic nerve cells.	Taiwan	Invention	TW I722945
32	P11018	蕭彥彰 YEN-CHANG HSIAO	鼻骨敲擊手術導板 Nasal Osteotomy Surgical Guide: A device that assists nasal structure plastic surgeries to reduce tissue impairments, shorten surgery duration, and improve outcomes.	Taiwan	Invention	TW I762393
33	P11029	李桂香 KUEI-HSIANG LI	腹膜透析操作輔具 Assistance Tool for Peritoneal Dialysis Patients: A device that assists visually impaired or hand function impaired patients in implementing peritoneal dialysis appliances.	Taiwan	Utility Model	TW M621958



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34	P11041	謝明凱 MING-KAI HSIEH	脊椎前位植骨導引置放裝置 Anterior Spinal Bone Graft Introducer: A device that assists artificial spinal bone implantation surgeries to reduce tissue impairments, shorten surgery duration, and improve outcomes.	Taiwan	Utility Model	TW M619684
35	P11103	劉倬昊 CHO-HAO LIU	包含二十二碳六烯酸的奈米纖維之奈米纖維複合物、奈米纖維薄膜及其應用 DHA Nanofibers, Nanofibrous Compounds, Nanofibrous Membrane And Their Uses Thereof: A new bio material that enhances spine nerve recovery.	Taiwan	Invention	TW I766794
36	P11031	吳杰才 CHIEH-TSAI WU	骨頭切割修補輔助系統、方法及電腦程式產品 Bone Cutting And Repairing-aided Sysyem, Method And Computer Program Product Thereof: A method of designing the corresponding skull repair compartments based on the medical images of different patient.	Taiwan	Invention	TW I788065
37	P11052	陳昭宇 CHAO-YU CHEN	設計手術器械的方法 Customized Surgical Guide Instrument With Pressure Sensor And Adjustable Device For Knee Joint Replacement	Taiwan	Invention	Approved and registering