

Noticias

Orden ICT/736/2023, de 5 de julio, por la que se establecen las bases reguladoras para la concesión de ayudas a proyectos para el impulso a la cadena de valor del vehículo eléctrico y conectado dentro del Proyecto Estratégico para la Recuperación y Transformación Económica en el sector del Vehículo Eléctrico y Conectado, en el marco del Plan de Recuperación, Transformación y Resiliencia, y la convocatoria de ayudas a proyectos de producción de baterías del vehículo eléctrico del año 2023. [BOE» núm. 161, de 7 de julio de 2023](#)

Real Decreto 661/2023, de 18 de julio, por el que se regula la concesión directa de ayudas en 2023 para el desarrollo de proyectos innovadores relacionados con modelos, sistemas y componentes de vehículos

híbridos y vehículos eléctricos de baterías y de pila de combustible de hidrógeno para avanzar en el proceso de descarbonización y mantener la competitividad del ecosistema de automoción. [BOE» núm. 172, de 20 de julio de 2023](#)

[BOLETINES OEPM](#)

CONTENIDO:

- **TECNOLOGÍAS VEHICULARES**
 - [Baterías](#)
 - [Supercondensadores](#)
 - [Sistemas de recuperación de energía, p.ej. frenos regenerativos](#)
 - [Máquinas eléctricas](#)
 - [Convertidores, inversores](#)
- **INFRAESTRUCTURAS DE CARGA**
 - [Recarga de baterías](#)
 - [Cambio de baterías](#)

Solicitudes de Patente Publicadas

Los datos que aparecen en la tabla corresponden a una selección de las solicitudes de patentes publicadas durante el trimestre. Se puede acceder al documento completo haciendo doble clic sobre el mismo.

BATERÍAS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2023184369 A1	NINGDE AMPEREX TECH LIMITED	ELECTROCHEMICAL APPARATUS, MODULE, AND ELECTRONIC APPARATUS
WO 2023170265 A1	XEROTECH LTD	AN IMPROVED BATTERY PACK
WO 2023177780 A1	SION POWER CORP	PRESSURE-MONITORING FOR ELECTROCHEMICAL CELLS AND RELATED DEVICES AND SYSTEMS
WO 2023182385 A1	IBIDEN CO LTD	FLAMEPROOF MATERIAL, METHOD FOR PRODUCING SAME, AND BATTERY MODULE
WO 2023169844 A1	SOLVAY	LIQUID ELECTROLYTE FOR LITHIUM METAL BATTERIES
WO 2023183254 A1	UNIV CORNELL	ELECTROLYTE COMPOSITIONS, METHODS OF MAKING SAME, USES THEREOF
WO 2023182860 A1	LG ENERGY SOLUTION LTD	BATTERY CELL PROCESS DATA ANALYSIS SYSTEM AND METHOD
WO 2023181704 A1	AICHI STEEL CORP	SOLID ELECTROLYTE, SECONDARY BATTERY, AND METHOD FOR PRODUCING SAME
WO 2023168540 A1	RESCAGLIO CAMUS CARLA	MACHINE FOR RECHARGING LITHIUM BATTERIES OR OTHERS
WO 2023171818 A1	IBIDEN CO LTD	HEAT TRANSFER SUPPRESSION SHEET PRODUCTION METHOD, HEAT TRANSFER SUPPRESSION SHEET, AND BATTERY PACK
WO 2023176696 A1	MURATA MANUFACTURING CO	SECONDARY BATTERY, BATTERY PACK, ELECTRONIC DEVICE, ELECTRIC TOOL, ELECTRIC AIRCRAFT, AND ELECTRIC VEHICLE
WO 2023176853 A1	PANASONIC ENERGY CO LTD	BATTERY
WO 2023126245 A1	POLARIUM ENERGY SOLUTIONS AB	A BATTERY DEVICE COMPRISING A TUBE INCLUDING A COOLING AND/OR FIRE EXTINGUISHING MEDIUM
WO 2023169789 A1	VALEO SYSTEMES THERMIQUES	TEMPERATURE CONTROL DEVICE, IN PARTICULAR COOLING DEVICE FOR A MOTOR VEHICLE
WO 2023176124 A1	MURATA MANUFACTURING CO	BATTERY PACK
WO 2023177162 A1	LG ENERGY SOLUTION LTD	LITHIUM SECONDARY BATTERY
WO 2023174424 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	CELL ELECTRODE PLATE FEEDING DEVICE, CELL MANUFACTURING APPARATUS, AND CELL ELECTRODE PLATE FEEDING METHOD
WO 2023176730 A1	PANASONIC ENERGY CO LTD	ELECTRODE FOR SECONDARY BATTERIES
WO 2023182841 A1	LG ENERGY SOLUTION LTD	BATTERY MODULE, AND BATTERY PACK AND AUTOMOBILE COMPRISING SAME
WO 2023128461 A1	LG ENERGY SOLUTION LTD	BATTERY PACK AND ENERGY STORAGE DEVICE COMPRISING SAME
WO 2023129748 A1	SOLID POWER OPERATING INC	SILICON ANODE FOR USE IN AN ELECTROCHEMICAL CELL
WO 2023175962 A1	TOSHIBA KK	INFORMATION PROCESSING DEVICE, INFORMATION PROCESSING METHOD, INFORMATION PROCESSING SYSTEM, AND COMPUTER PROGRAM
WO 2023176511 A1	PANASONIC ENERGY CO LTD	CYLINDRICAL BATTERY
WO 2023181589 A1	HITACHI LTD	BATTERY STATE DETECTION DEVICE AND BATTERY STATE DETECTION METHOD
WO 2023182981 A1	COULOMB SOLUTIONS INC	ELECTRIC VEHICLE BATTERY MODULE
WO 2023174619 A1	BAYERISCHE MOTOREN WERKE AG	ENERGY STORAGE CELL, AND METHOD FOR PRODUCING AN ENERGY STORAGE CELL

WO 2023176227 A1	PANASONIC ENERGY CO LTD	BATTERY PACK AND MANUFACTURING METHOD THEREFOR
WO 2023176290 A1	MURATA MANUFACTURING CO	NEGATIVE ELECTRODE FOR SECONDARY BATTERY AND SECONDARY BATTERY
WO 2023176102 A1	PANASONIC IP MAN CO LTD	BATTERY STATE ANALYSIS SYSTEM, BATTERY STATE ANALYSIS METHOD, AND BATTERY STATE ANALYSIS PROGRAM
WO 2023177078 A1	LG ENERGY SOLUTION LTD	LITHIUM SECONDARY BATTERY
WO 2023173027 A1	LYTEN INC	TAB-LESS CYLINDRICAL CELL
WO 2023169759 A1	DRAEXLMAIER LISA GMBH	METHOD FOR DETERMINING AT LEAST ONE ESTIMATED OPERATING PARAMETER OF A BATTERY
WO 2023177892 A1	SILA NANOTECHNOLOGIES INC	ELECTROLYTE COMPOSITIONS FOR LITHIUM-ION BATTERY CELLS WITH ANODES COMPRISING A BLEND OF SILICON-CARBON COMPOSITE PARTICLES AND GRAPHITE PARTICLES
WO 2023180638 A1	PSA AUTOMOBILES SA	METHOD FOR CHARGING A BATTERY OF A DEVICE
WO 2023122936 A1	DOW SILICONES CORP	ASSEMBLING A BATTERY MODULE
WO 2023168386 A1	ASPEN AEROGELS INC	MATERIALS, SYSTEMS, AND METHODS INCORPORATING AN INSULATION LAYER INTO THE ENCAPSULATING LAYER OF A POUCH CELL
WO 2023176568 A1	GS YUASA INT LTD	POWER STORAGE ELEMENT AND POWER STORAGE DEVICE
WO 2023178025 A2	FACTORIAL INC	COMPRESSION MEANS FOR LI-METAL ANODE ELECTROCHEMICAL CELLS
WO 2023182384 A1	IBIDEN CO LTD	FLAMEPROOF STRUCTURE, METHOD FOR MANUFACTURING SAME, AND BATTERY MODULE
WO 2023173931 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	WINDING APPARATUS AND METHOD
WO 2023174762 A1	MERCEDES BENZ GROUP AG	HIGH-VOLTAGE BATTERY HAVING AT LEAST ONE BATTERY MODULE
WO 2023177252 A1	LG ENERGY SOLUTION LTD	METHOD FOR PREPARING GRANULES FOR ALL-SOLID-STATE BATTERY ELECTRODE, AND ELECTRODE FOR ALL-SOLID-STATE BATTERY
WO 2023181101 A1	TOSHIBA KK	INFORMATION PROCESSING DEVICE, INFORMATION PROCESSING METHOD, INFORMATION PROCESSING SYSTEM, AND COMPUTER PROGRAM
WO 2023182513 A1	MURATA MANUFACTURING CO	SOLID-STATE BATTERY PACKAGE
WO 2023169788 A1	VALEO SYSTEMES THERMIQUES	TEMPERATURE CONTROL DEVICE, IN PARTICULAR COOLING DEVICE FOR A MOTOR VEHICLE
WO 2023170366 A1	ARKEMA FRANCE	FIREPROOFED MULTILAYER TUBULAR STRUCTURE FOR COOLING ELECTRIC VEHICLE BATTERIES OR STATIONARY ENERGY STORAGE SYSTEM BATTERIES
WO 2023174659 A1	BAYERISCHE MOTOREN WERKE AG	BATTERY CELL HAVING A RUPTURE MEMBRANE
WO 2023176548 A1	PANASONIC ENERGY CO LTD	NON-AQUEOUS ELECTROLYTE SECONDARY BATTERY
WO 2023169790 A1	VALEO SYSTEMES THERMIQUES	TEMPERATURE CONTROL DEVICE, IN PARTICULAR COOLING DEVICE FOR A MOTOR VEHICLE
WO 2023181751 A1	MITSUBISHI MOTORS CORP	BATTERY PACK PRESSURE RELEASE STRUCTURE
WO 2023126273 A1	POLESTAR PERFORMANCE AB	BI-MATERIAL ELECTRIC VEHICLE BATTERY DISCONNECT
WO 2023170530 A1	3M INNOVATIVE PROPERTIES COMPANY	THERMAL MANAGEMENT ASSEMBLY COMPRISING EXPANDABLE MATERIAL
WO 2023173413 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	SECONDARY BATTERY AND BATTERY MODULE, BATTERY PACK AND ELECTRIC DEVICE COMPRISING SAME
WO 2023176904 A1	SEKISUI CHEMICAL CO LTD	NONAQUEOUS ELECTROLYTE SECONDARY BATTERY, BATTERY MODULE, AND BATTERY SYSTEM
WO 2023181111 A1	TOSHIBA KK	INFORMATION PROCESSING DEVICE, INFORMATION PROCESSING METHOD, INFORMATION PROCESSING SYSTEM, AND COMPUTER PROGRAM
WO 2023128462 A1	LG ENERGY SOLUTION LTD	BATTERY PACK, ENERGY STORAGE SYSTEM AND VEHICLE COMPRISING BATTERY PACK
WO 2023128533 A1	LG ENERGY SOLUTION LTD	BATTERY MODULE, BATTERY PACK COMPRISING BATTERY MODULE, AND ENERGY STORAGE SYSTEM AND VEHICLE COMPRISING BATTERY PACK

WO 2023155943 A1	KRATOCHVIL VACLAV	METHOD OF PREVENTION OF FIRE DEVELOPMENT OF TRACTION ACCUMULATOR SYSTEMS IN ELECTRIC CARS AND HYBRID CARS AS WELL AS APPARATUS FOR CARRYING OUT THIS METHOD
WO 2023171420 A1	NUVOTON TECH CORPORATION JAPAN	BATTERY MONITORING DEVICE AND BATTERY MONITORING SYSTEM
WO 2023148385 A1	VALEO SYSTEMES THERMIQUES	THERMAL MANAGEMENT DEVICE FOR AN ELECTRIC OR HYBRID MOTOR VEHICLE
WO 2023171457 A1	MURATA MANUFACTURING CO	SOLID-STATE BATTERY AND ELECTRONIC DEVICE HAVING SURFACE-MOUNTED SOLID-STATE BATTERY
WO 2023172048 A1	LG CHEMICAL LTD	ELECTRODE FOR LITHIUM SECONDARY BATTERY AND MANUFACTURING METHOD THEREOF
WO 2023171063 A1	PANASONIC IP MAN CO LTD	ALL-SOLID-STATE BATTERY AND METHOD FOR PRODUCING SAME
WO 2023168553 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	BATTERY MODULE, BATTERY PACK AND ELECTRIC DEVICE
WO 2023122943 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	BATTERY LITHIUM PLATING DETECTION METHOD AND APPARATUS, MANAGEMENT SYSTEM, BATTERY AND ELECTRIC APPARATUS
WO 2023162473 A1	HITACHI LTD	BATTERY SYSTEM AND METHOD OF CONTROLLING SAME
WO 2023163428 A1	LAKE TECH LTD	APPARATUS FOR PREPARING LITHIUM SULFIDE
WO 2023171890 A1	SAMSUNG SDI CO LTD	ALL-SOLID-STATE RECHARGEABLE BATTERIES
WO 2023168539 A1	SALTWORKS TECH INC	SYSTEM AND PROCESS FOR EXTRACTING LITHIUM FROM A SALTWATER
WO 2023122961 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	STATE CALIBRATION METHOD AND APPARATUS FOR LOW-VOLTAGE BATTERY, AND ELECTRIC VEHICLE
WO 2023163921 A1	PACIFIC IND DEVELOPMENT CORPORATION	METHOD FOR THE PREPARATION OF PRE-LITHIATED LiMn2O4
WO 2023172042 A1	LG ENERGY SOLUTION LTD	ELECTROLYTE ADDITIVE FOR LITHIUM SECONDARY BATTERY, AND NON-AQUEOUS ELECTROLYTE FOR LITHIUM SECONDARY BATTERY AND LITHIUM SECONDARY BATTERY EACH COMPRISING SAME
WO 2023171825 A1	TDK CORP	SOLID ELECTROLYTE, SOLID ELECTROLYTE LAYER, AND SOLID ELECTROLYTE BATTERY
WO 2023172114 A1	LG ENERGY SOLUTION LTD	BATTERY MODULE, BATTERY PACK, AND ENERGY STORAGE SYSTEM
WO 2023168508 A1	GOVERNING COUNCIL UNIV TORONTO	METHOD AND SYSTEM FOR IMPROVED STATE ESTIMATION ACCURACY IN BATTERY MANAGEMENT SYSTEMS WITH CELL BALANCING
WO 2023127192 A1	FDK CORP	SOLID-STATE BATTERY, AND SOLID-STATE BATTERY MANUFACTURING METHOD
WO 2023166743 A1	HITACHI ASTEMO LTD	BATTERY CONTROL DEVICE
WO 2023170449 A1	VIDYASIRIMEDHI INSTITUTE OF SCIENCE AND TECH VISTEC	ACTIVE MATERIAL FOR CATHODE OF LITHIUM-ION BATTERY, CATHODE COMPRISING SAID ACTIVE MATERIAL, AND METHOD FOR PREPARING SAID CATHODE
WO 2023170698 A1	BANSAL SHRAVAN	A SYSTEM AND METHOD FOR RECYCLING A BATTERY
WO 2023122960 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	BATTERY SYSTEM CHARGING AND DISCHARGING METHOD AND APPARATUS, BATTERY SYSTEM, AND ELECTRIC VEHICLE
WO 2023128670 A1	SK ON CO LTD	BATTERY MANUFACTURING DEVICE
WO 2023135088 A1	VALEO SYSTEMES THERMIQUES	TEMPERATURE CONTROL DEVICE
WO 2023151790 A1	KAUTEX TEXTRON GMBH & CO KG	HEAT EXCHANGER FOR TRACTION BATTERY WITH COMPRESSIBLE HEAT EXCHANGER CHANNELS
WO 2023163456 A1	LG ENERGY SOLUTION LTD	BATTERY PACK
WO 2023171950 A1	LG ENERGY SOLUTION LTD	DEVICE INCLUDING COOLING SYSTEM
WO 2023172801 A1	CUBERG INC	BATTERY ASSEMBLIES COMPRISING LITHIUM-METAL ELECTROCHEMICAL CELLS AND PRESSURE-APPLYING STRUCTURES
WO 2023124645 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	POSITIVE ELECTRODE ACTIVE MATERIAL, METHOD FOR PREPARING POSITIVE ELECTRODE MATERIAL, POSITIVE ELECTRODE PLATE, SECONDARY BATTERY, BATTERY MODULE, BATTERY PACK, AND ELECTRICAL APPARATUS
WO 2023127546 A1	NIPPON ELECTRIC GLASS CO	SOLID ELECTROLYTE SHEET AND METHOD FOR PRODUCING SAME

WO 2023127717 A1	NIPPON ELECTRIC GLASS CO	ELECTRODE MATERIAL FOR ALL-SOLID BATTERY, ELECTRODE FOR ALL-SOLID BATTERY AND METHOD FOR MANUFACTURING SAME, AND ALL-SOLID BATTERY AND METHOD FOR MANUFACTURING SAME
WO 2023151795 A1	ACCURE BATTERY INTELLIGENCE GMBH	A METHOD FOR QUALITY TESTING OF A BATTERY AND A BATTERY FORMATION SYSTEM
WO 2023156164 A1	BAYERISCHE MOTOREN WERKE AG	METHOD FOR AT LEAST PARTIALLY RECYCLING AND/OR REPAIRING AN ELECTRICAL ENERGY ACCUMULATOR
WO 2023162751 A1	NUVOTON TECH CORPORATION JAPAN	BATTERY PACK
WO 2023173077 A2	NANOTECH ENERGY INC	SUPERFAST RECHARGING ZINC-BASED ENERGY STORAGE DEVICES
WO 2023156320 A1	MARPOSS SPA	SYSTEM AND METHOD FOR MONITORING THE STATE OF HEALTH OF AN ELECTRIC ENERGY STORAGE DEVICE, AND ELECTRIC ENERGY STORAGE DEVICE INCLUDING SAID SYSTEM
WO 2023156590 A1	FUNDACION IMDEA MAT	CARBON-COATED NANOWIRE NETWORK ELECTRODES
WO 2023128744 A1	MOROCCAN FOUNDATION FOR ADVANCED SCIENCE INNOVATION AND RES MASCIR	SMART BATTERY WITH SYSTEM FOR MONITORING THE STATE OF HEALTH IN REAL TIME
WO 2023128499 A1	LG ENERGY SOLUTION LTD	BATTERY PACK
WO 2023128460 A1	LG ENERGY SOLUTION LTD	BATTERY PACK, AND ENERGY STORAGE SYSTEM AND VEHICLE COMPRISING BATTERY PACK
WO 2023128546 A1	KONG YU CHAN	HEAT DISSIPATION COMPONENT FOR COOLING BATTERY AND BATTERY PACK
WO 2023133136 A1	TESLA INC	IMPACT ATTENUATION FOR ENERGY STORAGE SYSTEMS
WO 2023177244 A1	LG ENERGY SOLUTION LTD	FILM FOR SECONDARY BATTERY DRY ELECTRODE
WO 2023124303 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	ELECTRODE PLATE MANUFACTURING APPARATUS AND ELECTRODE PLATE MANUFACTURING METHOD
WO 2023126253 A1	VOLVO CAR CORP	INTELLIGENT BATTERY DEVICE AND BATTERY SYSTEM
WO 2023126272 A1	POLESTAR PERFORMANCE AB	THERMAL RESERVOIR FOR ELECTRIC VEHICLE
WO 2023127964 A1	APB CORP	BATTERY MODULE AND METHOD FOR MANUFACTURING SAME
WO 2023128343 A1	MINTECH CO LTD	WASTE BATTERY DISCHARGE PROCESS
WO 2023128368 A1	LG ENERGY SOLUTION LTD	IMPACT TEST DEVICE FOR POUCH-TYPE BATTERY CELL, AND IMPACT TEST METHOD FOR POUCH-TYPE BATTERY CELL USING SAME
WO 2023148371 A1	VALEO SYSTEMES THERMIQUES	THERMAL CONTROL DEVICE, IN PARTICULAR FOR COOLING
WO 2023166163 A1	NORTHVOLT REVOLT AB	ENHANCED DISCHARGE PROCESSES
WO 2023165944 A1	MAN TRUCK & BUS SE	ELECTRICAL ENERGY STORE HAVING A PARTICLE FILTER
WO 2023177137 A1	LG ENERGY SOLUTION LTD	BATTERY PACK, AND APPARATUS AND METHOD FOR MANAGING SAME
WO 2023122994 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	HEAT EXCHANGE PLATE, BATTERY, ELECTRIC APPARATUS, AND FABRICATION METHOD FOR BATTERY
WO 2023127335 A1	MURATA MANUFACTURING CO	ABNORMALITY DETECTION DEVICE, POWER SUPPLY SYSTEM, AND ABNORMALITY DETECTION METHOD
WO 2023156754 A1	CIRRUS LOGIC INT SEMICONDUCTOR LTD	CELL BALANCING
WO 2023177257 A1	SOULBRAIN CO LTD	DIFLUOROPHOSPHATE PREPARATION METHOD
WO 2023162069 A1	HITACHI HIGH TECH CORP	EXTERNAL BALANCING DEVICE FOR BATTERY PACK
WO 2023126674 A1	NISSAN MOTOR	METHOD FOR CHARGING SECONDARY BATTERY
WO 2023126750 A1	SEMICONDUCTOR ENERGY LAB	SECONDARY BATTERY AND ELECTRONIC APPARATUS
WO 2023127205 A1	HONDA MOTOR CO LTD	HOUSING DEVICE
WO 2023127726 A1	MURATA MANUFACTURING CO	SECONDARY BATTERY
WO 2023148193 A1	IEE SA	COMPRESSION DEVICE FOR ACCURATE COMPRESSION LOAD MANAGEMENT IN A BATTERY PACK
WO 2023172568 A2	TESLA INC	COATED ELECTRODES
WO 2023170879 A1	EV MOTORS JAPAN CO LTD	CHARGE/DISCHARGE DEVICE FOR SECONDARY BATTERIES

WO 2023169096 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	POSITIVE ELECTRODE ACTIVE MATERIAL, SECONDARY BATTERY, BATTERY MODULE, BATTERY PACK, AND ELECTRIC DEVICE
WO 2023123348 A1	ENVISION DYNAMICS TECH JIANGSU CO LTD	BATTERY MODULE AND BATTERY PACK
WO 2023127319 A1	DENSO CORP	BATTERY DIAGNOSTIC SYSTEM
WO 2023128555 A1	SAMSUNG SDI CO LTD	RECHARGEABLE BATTERY MODULE
WO 2023128579 A1	LG ENERGY SOLUTION LTD	ANODE SLURRY FOR LITHIUM ION SECONDARY BATTERY AND MANUFACTURING METHOD THEREFOR
WO 2023171646 A1	MITSUI MINING & SMELTING CO LTD	ELECTRODE MEMBER AND METHOD FOR MANUFACTURING SAME, BATTERY MEMBER AND METHOD FOR MANUFACTURING SAME, AND METHOD FOR MANUFACTURING BATTERY
WO 2023175354 A1	THE STRUCTURAL BATTERY COMPANY LTD	MONOCOQUE VEHICLE, STRUCTURED BATTERY AND METHOD OF MANUFACTURE
WO 2023162669 A1	RESONAC CORP	LITHIUM ION CONDUCTIVE SOLID ELECTROLYTE
WO 2023163394 A1	LG ENERGY SOLUTION LTD	POUCH CELL VENTING DETECTION DEVICE
WO 2023163512 A1	LG ENERGY SOLUTION LTD	BATTERY PACK
WO 2023171010 A1	NUVOTON TECH CORPORATION JAPAN	BATTERY PACK MANAGEMENT SYSTEM AND BATTERY PACK MANAGEMENT METHOD
WO 2023176592 A1	OSAKA GAS CO LTD	DEGRADATION STATE PREDICTION METHOD, DEGRADATION STATE PREDICTION DEVICE, AND DEGRADATION STATE PREDICTION PROGRAM
WO 2023130616 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	RELAY OF BATTERY, RELAY CONTROL POLICY, BATTERY, AND ELECTRIC APPARATUS
WO 2023136709 A1	LG ENERGY SOLUTION LTD	BATTERY PACK AND DEVICE INCLUDING SAME
WO 2023159309 A1	TUGLIQ ENERGY CO	SYSTEMS AND METHODS FOR OPERATING ELECTRIC VEHICLES IN COLD CLIMATES
WO 2023164833 A1	VIRIDI E MOBILITY TECH NINGBO CO LTD	LIQUID COLD PLATE, BATTERY TRAY, BATTERY HOLDER, AND VEHICLE
WO 2023125764 A1	BYD CO LTD	CONDUCTIVE SHEET, CONDUCTIVE BAR AND VEHICLE ELECTRICAL CONNECTOR
WO 2023128580 A1	LG ENERGY SOLUTION LTD	A SULFIDE BASED SOLID ELECTROLYTE AND A METHOD FOR MANUFACTURING THE SAME
WO 2023130851 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	SILICON NEGATIVE ELECTRODE MATERIAL, AND SECONDARY BATTERY, BATTERY MODULE, BATTERY PACK AND ELECTRIC DEVICE COMPRISING SAME
WO 2023157506 A1	HITACHI LTD	SECONDARY BATTERY CONTROL DEVICE AND SECONDARY BATTERY SYSTEM
WO 2023158266 A1	LG ENERGY SOLUTION LTD	BATTERY CELL PRESSING DEVICE AND BATTERY CELL CHARGING/DISCHARGING DEVICE INCLUDING SAME
WO 2023162549 A1	SANDEN CORP	HEAT MANAGEMENT SYSTEM
WO 2023130791 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	ELECTRODE POLE PIECE AND PREPARATION METHOD THEREFOR, SECONDARY BATTERY, BATTERY MODULE, AND BATTERY PACK
WO 2023149009 A1	DAINIPPON INK & CHEMICALS	SECONDARY BATTERY MODULE
WO 2023153765 A1	LG ENERGY SOLUTION LTD	BATTERY MANAGEMENT APPARATUS AND OPERATION METHOD THEREFOR
WO 2023159397 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	BATTERY CABLE-TYPE CONNECTOR PROTECTION DEVICE, BATTERY, AND ELECTRICAL DEVICE
WO 2023159373 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	ELECTRODE PLATE, ELECTRODE ASSEMBLY AND SECONDARY BATTERY
WO 2023162446 A1	PANASONIC IP MAN CO LTD	BATTERY TEMPERATURE CONTROL SYSTEM, BATTERY TEMPERATURE CONTROL METHOD, AND BATTERY TEMPERATURE CONTROL PROGRAM
WO 2023131204 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	BATTERY AND ELECTRIC DEVICE
WO 2023153901 A1	LG ENERGY SOLUTION LTD	ELECTRODE STRUCTURE AND PRISMATIC BATTERY COMPRISING ELECTRODE STRUCTURE
WO 2023154735 A2	UNIV NORTHEASTERN	LITHIUM-ION BATTERIES MANUFACTURED USING PAPER SUBSTRATES

WO 2023159928 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	BATTERY CELL, BATTERY, AND ELECTRICAL APPARATUS
WO 2023162530 A1	MURATA MANUFACTURING CO	SECONDARY BATTERY, BATTERY PACK, ELECTRONIC DEVICE, POWER TOOL, ELECTRIC AIRCRAFT, AND ELECTRIC VEHICLE
WO 2023162550 A1	SANDEN CORP	HEAT MANAGEMENT SYSTEM
WO 2023128592 A1	IUCF HYU	POSITIVE ELECTRODE FOR LITHIUM-SULFUR BATTERY, METHOD FOR MANUFACTURING SAME, AND LITHIUM-SULFUR BATTERY INCLUDING SAME
WO 2023149011 A1	DENSO CORP	SECONDARY BATTERY STATE DETECTING DEVICE, TRAINING UNIT, AND SECONDARY BATTERY STATE DETECTING METHOD
WO 2023151667 A1	ZHUHAI COSMX BATTERY CO LTD	NEGATIVE ELECTRODE POLE AND LITHIUM ION BATTERY
WO 2023158095 A1	LG ENERGY SOLUTION LTD	POROUS COMPOSITE CERAMIC SEPARATOR, ELECTROCHEMICAL DEVICE COMPRISING THE SAME, AND METHOD OF PREPARING THE POROUS COMPOSITE CERAMIC SEPARATOR
WO 2023128538 A1	LG ENERGY SOLUTION LTD	CELL TAB TENSION MEASUREMENT DEVICE AND CELL TAB TENSION MEASUREMENT METHOD
WO 2023130976 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	POSITIVE ELECTRODE PLATE, SECONDARY BATTERY, BATTERY MODULE, BATTERY PACK, AND POWER CONSUMING DEVICE
WO 2023132112 A1	ISUZU MOTORS LTD	CHARGE CONTROL DEVICE
WO 2023132641 A1	LILLEM CO LTD	CURRENT COLLECTOR FOR SECONDARY BATTERY AND MANUFACTURING METHOD THEREFOR
WO 2023136609 A1	LG ENERGY SOLUTION LTD	POSITIVE ELECTRODE FOR LITHIUM SECONDARY BATTERY AND METHOD FOR MANUFACTURING SAME
WO 2023149290 A1	MAXELL LTD	BATTERY
WO 2023162429 A1	MURATA MANUFACTURING CO	SECONDARY BATTERY ELECTROLYTE AND SECONDARY BATTERY
WO 2023162759 A1	PANASONIC IP MAN CO LTD	SECONDARY BATTERY
WO 2023164105 A1	SOELECT INC	LITHIUM METAL ELECTRODE FROM DIRECT RECYCLING
WO 2023164917 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	NEGATIVE ELECTRODE COMPOSITION, NEGATIVE ELECTRODE SLURRY, NEGATIVE ELECTRODE SHEET, SECONDARY BATTERY, AND ELECTRIC DEVICE CONTAINING SECONDARY BATTERY
WO 2023167508 A1	MAROO ON INC	BATTERY DISCHARGE APPARATUS AND DISCHARGING METHOD THEREOF
WO 2023136350 A1	JAPAN CLIMATE SYSTEMS CORP	VEHICLE BATTERY COOLER
WO 2023149197 A1	DENSO CORP	BATTERY MANAGEMENT SYSTEM
WO 2023157726 A1	TOPPAN INC	ALL-SOLID-STATE BATTERY OUTER PACKAGING MATERIAL, AND ALL-SOLID-STATE BATTERY USING SAME
WO 2023159644 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	BATTERY CELL, BATTERY, ELECTRIC DEVICE, AND MANUFACTURING APPARATUS AND METHOD FOR BATTERY CELL
WO 2023162438 A1	MURATA MANUFACTURING CO	BATTERY PACK
WO 2023123413 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	ELECTROLYTE, SECONDARY BATTERY, AND ELECTRIC DEVICE
WO 2023166790 A1	AIST	VANADIUM-CONTAINING LITHIUM SULFIDE
WO 2023171547 A1	KYOTO SEISAKUSHO	STACKED-TYPE BATTERY MANUFACTURING METHOD AND MANUFACTURING DEVICE
WO 2023136351 A1	JAPAN CLIMATE SYSTEMS CORP	HEAT EXCHANGER
WO 2023163315 A1	LG ENERGY SOLUTION LTD	SEPARATOR SUBSTRATE FOR ELECTROCHEMICAL DEVICE, SEPARATOR INCLUDING SUBSTRATE, AND METHOD FOR FORMING BATTERY CELL SEPARATOR
WO 2023167132 A1	AIST	LITHIUM SULFIDE-IRON-CARBON COMPOSITE
WO 2023166853 A1	HITACHI LTD	BATTERY CAPACITY RESTORING SYSTEM
WO 2023123411 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	NEGATIVE ELECTRODE PLATE, PREPARATION METHOD THEREFOR, SECONDARY BATTERY COMPRISING NEGATIVE ELECTRODE PLATE, AND ELECTRIC DEVICE
WO 2023171817 A1	IBIDEN CO LTD	MANUFACTURING METHOD FOR HEAT TRANSFER SUPPRESSION SHEET, HEAT TRANSFER SUPPRESSION SHEET, AND BATTERY PACK

WO 2023123047 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	BATTERY, POWER CONSUMING DEVICE, AND METHOD FOR MANUFACTURING BATTERY
WO 2023149486 A1	TOPPAN INC	ALL-SOLID-STATE BATTERY OUTER PACKAGING MATERIAL, AND ALL-SOLID-STATE BATTERY USING SAME
WO 2023148515 A1	NISSAN MOTOR	SECONDARY BATTERY
WO 2023156337 A1	NORTHVOLT AB	AN ELECTRODE ROLL, AN ELECTRODE DISC AND A CYLINDRICAL SECONDARY CELL
WO 2023157373 A1	HITACHI HIGH TECH CORP	BATTERY MANAGEMENT DEVICE AND BATTERY MANAGEMENT PROGRAM
WO 2023167472 A1	LG ENERGY SOLUTION LTD	BATTERY CELL PRESSING JIG
WO 2023153875 A1	LG ENERGY SOLUTION LTD	POSITIVE ELECTRODE ACTIVE MATERIAL POWDER, AND POSITIVE ELECTRODE AND LITHIUM SECONDARY BATTERY COMPRISING SAME
WO 2023158218 A1	LG ENERGY SOLUTION LTD	UNIT CELL INSPECTION DEVICE
WO 2023162548 A1	SANDEN CORP	HEAT MANAGEMENT SYSTEM
WO 2023162852 A1	MURATA MANUFACTURING CO	SECONDARY BATTERY ELECTROLYTE AND SECONDARY BATTERY
WO 2023166992 A1	MURATA MANUFACTURING CO	SECONDARY BATTERY
WO 2023171119 A1	HITACHI LTD	STATE DIAGNOSIS DEVICE AND STATE DIAGNOSIS SYSTEM
WO 2023128578 A1	LG ENERGY SOLUTION LTD	CATHODE ACTIVE MATERIAL, CATHODE ACTIVE MATERIAL SLURRY, CATHODE, LITHIUM ION SECONDARY BATTERY, AND METHOD FOR PREPARING CATHODE ACTIVE MATERIAL
WO 2023130237 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	ELECTRODE ASSEMBLY, BATTERY CELL, BATTERY, AND ELECTRIC DEVICE
WO 2023153495 A1	NIPPON STEEL CORP	VEHICLE BATTERY UNIT
WO 2023157391 A1	KUREHA CORP	OUTER PACKAGE MATERIAL FOR ALL-SOLID-STATE SECONDARY BATTERIES, AND ALL-SOLID-STATE SECONDARY BATTERY
WO 2023157746 A1	PANASONIC ENERGY CO LTD	NON-AQUEOUS ELECTROLYTE SECONDARY BATTERY
WO 2023158255 A1	REXCEL CO LTD	COMPOUND FOR ELECTROLYTE, COMPOUND FOR ELECTROLYTE ADDITIVE, ELECTROLYTE MATERIAL, ELECTROLYTE ADDITIVE, ELECTROLYTE FOR SECONDARY BATTERY, AND SECONDARY BATTERY
WO 2023158117 A1	LG ENERGY SOLUTION LTD	BATTERY MODULE AND DEVICE INCLUDING SAME
WO 2023162430 A1	MURATA MANUFACTURING CO	SECONDARY BATTERY ELECTROLYTE AND SECONDARY BATTERY
WO 2023167299 A1	DAIKIN IND LTD	SECONDARY BATTERY BINDER, SECONDARY BATTERY BINDER SHEET, PRODUCTION METHOD THEREFOR, AND SECONDARY BATTERY
WO 2023133640 A1	HYDRO QUEBEC	ELECTRODE MATERIAL COMPRISING AN ORGANIC LAYER, PRODUCTION METHODS, AND ELECTROCHEMICAL USES
	SCE FRANCE	
WO 2023149212 A1	DAINIPPON INK & CHEMICALS	SECONDARY BATTERY
WO 2023156426 A1	TOTALENERGIES ONETECH	FLAME-RESISTANT AND COOLING COMPOSITION
WO 2023162933 A1	PANASONIC IP MAN CO LTD	NON-AQUEOUS ELECTROLYTE SECONDARY BATTERY
WO 2023167111 A1	UNIV KYOTO	POSITIVE ELECTRODE ACTIVE MATERIAL, POSITIVE ELECTRODE, BATTERY, AND METHOD FOR PRODUCING LITHIUM-CONTAINING COMPOUND
WO 2023150513 A1	ENEVATE CORP	IMPROVEMENT OF CYCLE LIFE IN SI/LI BATTERIES USING HIGH TEMPERATURE DEEP DISCHARGE CYCLING
WO 2023153395 A1	PANASONIC IP MAN CO LTD	SECONDARY BATTERY
WO 2023159372 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	COMPOSITE CURRENT COLLECTOR, ELECTRODE ASSEMBLY, METHODS FOR MANUFACTURING COMPOSITE CURRENT COLLECTOR AND ELECTRODE ASSEMBLY, AND SECONDARY BATTERY
WO 2023162428 A1	MURATA MANUFACTURING CO	SECONDARY BATTERY

WO 2023162432 A1	MURATA MANUFACTURING CO	SECONDARY BATTERY
WO 2023167275 A1	KANSAI PAINT CO LTD	ELECTROCONDUCTIVE PASTE, MIXED MATERIAL PASTE, ELECTRODE FOR LITHIUM-ION BATTERY POSITIVE ELECTRODE, AND BATTERY
WO 2023148737 A1	ADDIONICS IL LTD	CURRENT COLLECTORS FOR RECHARGEABLE BATTERIES
WO 2023153577 A1	CIS CO LTD	SECONDARY BATTERY ELECTRODE MANUFACTURING APPARATUS USING MAGNETIC FIELD, AND SECONDARY BATTERY ELECTRODE MANUFACTURING METHOD USING SAME
WO 2023153843 A1	LG ENERGY SOLUTION LTD	BATTERY CELL CHARGING METHOD AND CHARGING APPARATUS
WO 2023153887 A1	LG ENERGY SOLUTION LTD	ELECTRODE MANUFACTURING APPARATUS, ELECTRODE MANUFACTURING METHOD, AND ELECTRODE FOR SECONDARY BATTERY
WO 2023130210 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	LITHIUM SUPPLEMENTING METHOD AND CHARGING AND DISCHARGING METHOD FOR SECONDARY BATTERY
WO 2023130910 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	BATTERY ELECTRODE SHEET MANUFACTURING METHOD, BATTERY ELECTRODE SHEET, AND SECONDARY BATTERY
WO 2023136352 A1	JAPAN CLIMATE SYSTEMS CORP	HEAT EXCHANGER
WO 2023153899 A1	LG ENERGY SOLUTION LTD	PRISMATIC SECONDARY BATTERY INCLUDING STACKED CELLS
WO 2023132525 A1	LG ENERGY SOLUTION LTD	BATTERY PACK INCLUDING IMPACT SENSING MODULE
WO 2023155609 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	BATTERY CELL, BATTERY, ELECTRICAL DEVICE, AND MANUFACTURING METHOD
WO 2023158995 A2	UNIV NORTHEASTERN	SULFIDE BASED ALL-SOLID-STATE BATTERIES ENABLED BY BIPOLAR STACKING
WO 2023167495 A1	LG CHEMICAL LTD	COMPOSITE SOLID ELECTROLYTE AND ALL-SOLID-STATE BATTERY COMPRISING SAME
WO 2023123415 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	POSITIVE ELECTRODE ACTIVE MATERIAL, SODIUM ION SECONDARY BATTERY COMPRISING SAME, AND ELECTRIC APPARATUS
WO 2023153572 A1	KANGWON NATIONAL UNIV INDUSTRY COOPERATION FOUNDATION	ANODE ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY, METHOD FOR PREPARING SAME, AND LITHIUM SECONDARY BATTERY COMPRISING SAME
WO 2023153744 A1	LG ENERGY SOLUTION LTD	BATTERY MANAGEMENT DEVICE AND METHOD
WO 2023157397 A1	SUMITOMO METAL MINING CO	PRODUCTION METHOD FOR VALUABLE METALS
WO 2023158145 A1	LG ENERGY SOLUTION LTD	BATTERY PACK AND DEVICE COMPRISING SAME
WO 2023136560 A1	LG ENERGY SOLUTION LTD	ELECTRODE ASSEMBLY AND SECONDARY BATTERY INCLUDING SAME
WO 2023141888 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	BATTERY, ELECTRICAL DEVICE, BATTERY PREPARATION METHOD, AND BATTERY PREPARATION DEVICE
WO 2023142934 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	POSITIVE ELECTRODE SHEET, SECONDARY BATTERY AND PREPARATION METHOD THEREFOR, AND APPARATUS COMPRISING SECONDARY BATTERY
WO 2023147582 A1	GLOBAL GRAPHENE GROUP INC	ELASTIC POLYMER SOLID ELECTROLYTE SEPARATOR FOR A LITHIUM METAL BATTERY AND MANUFACTURING PROCESS
WO 2023149685 A1	LG ENERGY SOLUTION LTD	LITHIUM SECONDARY BATTERY
WO 2023150822 A1	SICONA BATTERY TECH PTY LTD	SILICON COMPOSITE MATERIALS
WO 2023153813 A1	LG ENERGY SOLUTION LTD	NON-AQUEOUS ELECTROLYTE AND LITHIUM SECONDARY BATTERY COMPRISING SAME
WO 2023155147 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	BATTERY, ELECTRICAL DEVICE, AND BATTERY PREPARATION METHOD AND DEVICE
WO 2023132185 A1	DENSO CORP	BATTERY PACK, SETUP METHOD, PROCESSING METHOD, AND PROCESSING PROGRAM

WO 2023137485 A1	GLOBAL GRAPHENE GROUP INC	INORGANIC-POLYMERIC HYBRID SOLID-STATE ELECTROLYTES, LITHIUM BATTERIES CONTAINING SAME, AND PRODUCTION PROCESSES
WO 2023141762 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	BATTERY COOLING DEVICE, BATTERY PACK, ELECTRIC DEVICE, AND METHOD FOR MANUFACTURING BATTERY COOLING DEVICE
WO 2023158139 A1	LG ENERGY SOLUTION LTD	BATTERY MODULE WITH SCREEN FOR INNER SPACE DIVISION AND BATTERY PACK INCLUDING SAME
WO 2023140502 A1	LG ENERGY SOLUTION LTD	LITHIUM-SULFUR BATTERY WITH IMPROVED LIFESPAN PERFORMANCE
WO 2023153867 A1	LG ENERGY SOLUTION LTD	POSITIVE ELECTRODE ACTIVE MATERIAL POWDER, AND POSITIVE ELECTRODE AND LITHIUM SECONDARY BATTERY INCLUDING SAME
WO 2023158272 A1	LG ENERGY SOLUTION LTD	SEPARATOR FOR LITHIUM-SULFUR BATTERY AND LITHIUM-SULFUR BATTERY COMPRISING SAME
WO 2023157259 A1	MITSUBISHI MOTORS CORP	ELECTRICAL STORAGE EQUIPMENT AND METHOD FOR CONSTRUCTING ELECTRICAL STORAGE EQUIPMENT
WO 2023164140 A1	PURDUE RESEARCH FOUNDATION	ELECTROCHEMICAL CELLS AND ELECTROLYTE COMPOSITIONS THEREFOR
WO 2023164926 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	POSITIVE ELECTRODE PLATE, SECONDARY BATTERY, BATTERY MODULE, BATTERY PACK AND ELECTRIC DEVICE
WO 2023128472 A1	LG ENERGY SOLUTION LTD	BATTERY MODULE CAPABLE OF EARLY DETECTION OF GAS VENTING, BATTERY PACK, AND METHOD FOR EARLY DETECTION OF GAS VENTING
WO 2023128532 A1	LG ENERGY SOLUTION LTD	CATHODE ACTIVE MATERIAL, CATHODE ACTIVE MATERIAL SLURRY, CATHODE, LITHIUM ION SECONDARY BATTERY, AND METHOD FOR MANUFACTURING CATHODE ACTIVE MATERIAL
WO 2023140593 A1	LG ENERGY SOLUTION LTD	APPARATUS AND METHOD FOR CONTROLLING BATTERY
WO 2023142709 A1	BYD CO LTD	HEATING CIRCUIT OF POWER BATTERY, AND ELECTRIC VEHICLE
WO 2023144788 A1	3M INNOVATIVE PROPERTIES COMPANY	BARRIER ARTICLE FOR A RECHARGEABLE ELECTRICAL ENERGY STORAGE SYSTEM
WO 2023155639 A1	IBM	ANODE-FREE METAL HALIDE BATTERY
WO 2023156868 A1	SEMICONDUCTOR ENERGY LAB	SECONDARY BATTERY
WO 2023157258 A1	MITSUBISHI MOTORS CORP	ELECTRICAL STORAGE EQUIPMENT
WO 2023159935 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	BARE CELL FILM WRAPPING DEVICE AND METHOD AND BATTERY PRODUCTION SYSTEM
WO 2023132663 A1	SAMSUNG SDI CO LTD	BATTERY PACK
WO 2023132745 A1	LG ENERGY SOLUTION LTD	NON-AQUEOUS ELECTROLYTE AND ELECTROCHEMICAL DEVICE COMPRISING SAME
WO 2023141392 A1	A123 SYSTEMS LLC	METHODS AND SYSTEMS FOR A LITHIUM-ION BATTERY CELL CATHODE
WO 2023143516 A1	BEIJING WELION NEW ENERGY TECH CO LTD	POSITIVE ELECTRODE SHEET HAVING HIGH RATE CAPABILITY, LONG CYCLE, AND HIGH SAFETY FOR USE IN LITHIUM BATTERY, AND PREPARATION METHOD THEREFOR AND APPLICATION THEREOF
WO 2023144777 A1	ASPEN AEROGELS INC	MATERIALS, SYSTEMS, AND METHODS FOR FOIL ENCAPSULATION OF AEROGELS AND AEROGEL COMPOSITES
WO 2023158186 A1	LG ENERGY SOLUTION LTD	BATTERY MODULE CONTAINING INSULATING OIL, AND BATTERY PACK COMPRISING SAME
WO 2023122922 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	COMPOSITE ELECTROLYTE AND SOLID-STATE BATTERY COMPRISING SAME
WO 2023123088 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	WATER-BASED POSITIVE ELECTRODE PLATE, SECONDARY BATTERY COMPRISING SAME AND ELECTRIC DEVICE
WO 2023136637 A1	LG ENERGY SOLUTION LTD	METHOD OF PREPARING GEL POLYMER ELECTROLYTE SECONDARY BATTERY AND GEL POLYMER ELECTROLYTE SECONDARY BATTERY THEREFROM
WO 2023141953 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	POSITIVE ELECTRODE SLURRY COMPOSITION, AND POSITIVE ELECTRODE SHEET, SECONDARY BATTERY, BATTERY MODULE, BATTERY PACK, AND ELECTRICAL DEVICE PREPARED FROM SAME

WO 2023141979 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	BATTERY CELL, BATTERY, ELECTRICAL DEVICE, AND BATTERY CELL MANUFACTURING METHOD AND DEVICE
WO 2023142673 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	MULTILAYER COMPOSITE SEPARATOR FILM, SECONDARY BATTERY COMPRISING SAME, AND ELECTRICAL DEVICE
WO 2023142669 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	POSITIVE ELECTRODE ACTIVE MATERIAL, PREPARATION METHOD THEREFOR, AND SECONDARY BATTERY AND ELECTRIC DEVICE COMPRISING SAME
WO 2023142670 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	POSITIVE ELECTRODE ACTIVE MATERIAL COMPOSITION, AQUEOUS POSITIVE ELECTRODE SLURRY, POSITIVE ELECTRODE SHEET, SECONDARY BATTERY, AND ELECTRIC DEVICE
WO 2023143881 A1	VOLKSWAGEN AG	METHOD AND DEVICE FOR CHARGING A MULTI-CELL BATTERY
WO 2023155930 A1	BEIJING EASPRING MAT TECH CO LTD	POSITIVE ELECTRODE MATERIAL OF LITHIUM-ION BATTERY AND PREPARATION METHOD THEREFOR
WO 2023164073 A1	UNIV CALIFORNIA	LOW-TEMPERATURE HYDROTHERMAL RELITHIATION OF SPENT LITHIUM-ION BATTERY CATHODES BY REDOX MEDIATION
WO 2023141720 A1	HYDRO QUEBEC	METHOD FOR MANUFACTURING A PROTECTED NEGATIVE ELECTRODE AND THE RESULTING NEGATIVE ELECTRODE
WO 2023142739 A1	UNIV WESTLAKE	LITHIUM BATTERY ELECTROLYTE HAVING LITHIUM BORATE SALT AND TRIFLUOROACETAMIDE COMPOUND
WO 2023146350 A1	LG ENERGY SOLUTION LTD	METHOD FOR INSPECTING BATTERY MODULE
WO 2023151447 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	ELECTRODE SHEET HEATING DEVICE, AND ELECTRODE SHEET PRODUCTION SYSTEM AND METHOD
WO 2023135102 A1	BOSCH GMBH ROBERT	BATTERY
WO 2023158231 A1	DONGWOO FINE CHEM CO LTD	ADHESIVE COMPOSITION AND PACKAGING MATERIAL FOR BATTERY
WO 2023134816 A1	SCHOLZ RECYCLING GMBH	METHOD FOR PREPARING BATTERIES TO BE RECYCLED, AND PREPARATION SYSTEM
WO 2023123038 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	FLUORINE-FREE INSULATING SLURRY, POSITIVE ELECTRODE SHEET, SECONDARY BATTERY, BATTERY MODULE, BATTERY PACK, AND ELECTRICAL DEVICE
WO 2023134547 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	BOX BODY, BATTERY, ELECTRICAL APPARATUS, AND METHOD AND APPARATUS FOR PREPARING BATTERY
WO 2023145322 A1	TOYOTA CHUO KENKYUSHO KK	BATTERY CHARACTERISTIC ANALYSIS APPARATUS, BATTERY CHARACTERISTIC MEASUREMENT APPARATUS, AND BATTERY ANALYSIS SYSTEM
WO 2023132688 A1	LG ENERGY SOLUTION LTD	POSITIVE ELECTRODE ACTIVE MATERIAL, METHOD FOR PREPARING SAME, AND POSITIVE ELECTRODE AND LITHIUM SECONDARY BATTERY INCLUDING SAME
WO 2023146222 A1	L&F CO LTD	ONE-BODY PARTICLE AND ACTIVE MATERIAL FOR SECONDARY BATTERY INCLUDING SAME
WO 2023155640 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	BATTERY CELL, BATTERY, ELECTRICAL DEVICE, AND MANUFACTURING METHOD FOR BATTERY CELL
WO 2023136612 A1	LG ENERGY SOLUTION LTD	ELECTROCHEMICAL DEVICE
WO 2023136665 A1	LG CHEMICAL LTD	CURRENT COLLECTOR COMPRISING ADHESION-REINFORCING LAYER, POSITIVE ELECTRODE COMPRISING SAME, AND LITHIUM SECONDARY BATTERY COMPRISING POSITIVE ELECTRODE
WO 2023141871 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	CARBON FIBER LITHIUM REPLENISHMENT FILM AND PREPARATION METHOD THEREFOR AND SECONDARY BATTERY AND ELECTRICAL DEVICE COMPRISING SAME
WO 2023145407 A1	PANASONIC IP MAN CO LTD	BATTERY ABNORMALITY DETECTING SYSTEM, BATTERY ABNORMALITY DETECTING METHOD, AND BATTERY ABNORMALITY DETECTING PROGRAM
WO 2023146258 A1	LG ENERGY SOLUTION LTD	LITHIUM SECONDARY BATTERY COMPRISING SEPARATOR
WO 2023158805 A1	GEORGIA TECH RES INST	LITHIATED POLYPHOSPHAZENE SOLID POLYMER ELECTROLYTE COMPOSITIONS AND METHODS OF MANUFACTURE THEREOF
WO 2023123186 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	ELECTRODE ASSEMBLY, SECONDARY BATTERY, BATTERY MODULE, BATTERY PACK, AND ELECTRIC DEVICE

WO 2023133841 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	BATTERY CELL, BATTERY, POWER CONSUMING DEVICE, AND METHOD AND APPARATUS FOR MANUFACTURING BATTERY CELL
WO 2023142972 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	ELECTRODE SHEET FORMING METHOD, MANUFACTURING METHOD FOR WOUND ELECTRODE ASSEMBLY, AND MANUFACTURING METHOD FOR LAMINATED ELECTRODE ASSEMBLY
WO 2023134543 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	WINDING NEEDLE, WINDING MACHINE, BATTERY CELL WINDING METHOD
WO 2023140198 A1	DOWA ECO SYSTEM CO LTD	METHOD FOR RECOVERING VALUABLE SUBSTANCE
WO 2023146256 A1	LG ENERGY SOLUTION LTD	METHOD FOR PRELITHIATING ELECTRODE FOR LITHIUM SECONDARY BATTERY, ELECTRODE INTERMEDIATE, AND LITHIUM SECONDARY BATTERY INCLUDING ELECTRODE
WO 2023146316 A1	LG CHEMICAL LTD	SEPARATOR FOR ELECTROCHEMICAL DEVICE AND ELECTROCHEMICAL DEVICE CONTAINING SAME
WO 2023140588 A1	LG ENERGY SOLUTION LTD	TAB GUIDE AND ELECTRODE TAB WELDING APPARATUS INCLUDING SAME
WO 2023142084 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	WINDING APPARATUS, WINDING DEVICE AND WINDING METHOD
WO 2023146315 A1	LG CHEMICAL LTD	SEPARATOR AND LITHIUM SECONDARY BATTERY COMPRISING SAME
WO 2023154741 A2	COMSTOCK IP HOLDINGS LLC	REACTIVE PHASE SEPARATION OF BLACK MASS FROM LITHIUM-ION BATTERY RECYCLING AND METHODS
WO 2023136088 A1	NAT INSTITUTE OF ADVANCED INDUSTRIAL SCIENCE AND THCHNOLOGY	NEGATIVE ELECTRODE CONSTITUENT MEMBER, NEGATIVE ELECTRODE COMPOSITE BODY, ALL-SOLID-STATE BATTERY COMPRISING THESE, AND METHOD FOR PRODUCING SAID ALL-SOLID-STATE BATTERY
WO 2023140278 A1	UNIV TOKYO SCIENCE FOUND	DETERIORATION DETERMINING DEVICE, AND DETERIORATION DETERMINING METHOD
WO 2023140311 A1	MAXELL LTD	POSITIVE ELECTRODE FOR ALL-SOLID-STATE BATTERY, AND ALL-SOLID-STATE BATTERY AND METHOD FOR MANUFACTURING SAME
WO 2023149628 A1	LG ENERGY SOLUTION LTD	BATTERY PACK AND ASSEMBLY METHOD THEREFOR
WO 2023134483 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	BATTERY PACK AND ELECTRIC DEVICE
WO 2023140673 A1	LG ENERGY SOLUTION LTD	FIRE MONITORING DEVICE AND METHOD
WO 2023145348 A1	NIFCO INC	HEAT EXCHANGER
WO 2023146317 A1	LG CHEMICAL LTD	SEPARATOR FOR AN ELECTROCHEMICAL DEVICE AND ELECTROCHEMICAL DEVICE CONTAINING THE SAME
WO 2023140277 A1	UNIV TOKYO SCIENCE FOUND	ELECTRONIC APPARATUS, AND MEASURING METHOD
WO 2023136163 A1	PANASONIC IP MAN CO LTD	BATTERY MANAGEMENT SYSTEM, BATTERY MANAGEMENT METHOD, AND TERMINAL DEVICE
WO 2023134548 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	BATTERY BOX BODY, BATTERY, ELECTRIC DEVICE, AND BATTERY PREPARATION METHOD AND DEVICE
WO 2023142064 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	BATTERY CELL, BATTERY, ELECTRIC DEVICE, AND METHOD AND DEVICE FOR MANUFACTURING BATTERY CELL
WO 2023136202 A1	PANASONIC IP MAN CO LTD	BATTERY ABNORMALITY DETECTION SYSTEM, BATTERY ABNORMALITY DETECTION METHOD, AND BATTERY ABNORMALITY DETECTION PROGRAM
WO 2023136502 A1	LG ENERGY SOLUTION LTD	METHOD FOR MANUFACTURING ELECTRODE FOR ALL-SOLID-STATE BATTERY, AND ELECTRODE MANUFACTURED THEREBY
WO 2023133785 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	ELECTRODE ASSEMBLY, BATTERY CELL, BATTERY, AND METHOD AND DEVICE FOR MANUFACTURING ELECTRODE ASSEMBLY
WO 2023133799 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	ELECTRODE ASSEMBLY, BATTERY CELL, BATTERY, DEVICE AND MANUFACTURING APPARATUS
WO 2023140503 A1	SAMSUNG SDI CO LTD	RECHARGEABLE LITHIUM BATTERY INCLUDING GEL POLYMER ELECTROLYTE
WO 2023145319 A1	TORAY INDUSTRIES	POLYOLEFIN MICROPOROUS MEMBRANE AND METHOD FOR PRODUCING SAME

WO 2023136545 A1	LG ENERGY SOLUTION LTD	BATTERY MODULE AND BATTERY PACK INCLUDING SAME
WO 2023133803 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	BATTERY AND MANUFACTURING METHOD THEREFOR, AND ELECTRIC APPARATUS
WO 2023134486 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	NEGATIVE ELECTRODE PLATE AND MANUFACTURING METHOD THEREFOR, SECONDARY BATTERY, BATTERY MODULE, BATTERY PACK, AND ELECTRIC DEVICE
WO 2023141200 A1	MAGNA INT INC	BATTERY FRAME WITH CELL TO CHASSIS INTEGRATION
WO 2023149655 A1	LG ENERGY SOLUTION LTD	BATTERY MODULE
WO 2023132685 A1	LG ENERGY SOLUTION LTD	POSITIVE ELECTRODE MATERIAL POWDER, AND POSITIVE ELECTRODE AND LITHIUM SECONDARY BATTERY INCLUDING SAME
WO 2023140288 A1	SUMITOMO METAL MINING CO	COATED POSITIVE ELECTRODE ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY AND LITHIUM SECONDARY BATTERY
WO 2023140702 A1	LG CHEMICAL LTD	POSITIVE ELECTRODE AND LITHIUM SECONDARY BATTERY COMPRISING SAME
WO 2023140569 A1	NAT UNIV GYEONGSANG IACF	ELECTROLYTE FOR ZINC-ION BATTERY AND ZINC-ION BATTERY COMPRISING SAME
WO 2023146278 A1	LG ENERGY SOLUTION LTD	BATTERY PACK AND VEHICLE COMPRISING SAME
WO 2023130310 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	ELECTROLYTE, SECONDARY BATTERY, AND ELECTRIC DEVICE
WO 2023137624 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	SECONDARY BATTERY, BATTERY MODULE, BATTERY PACK, AND ELECTRICAL APPARATUS
WO 2023144835 A1	TVS MOTOR CO LTD	A SYSTEM AND METHOD FOR BALANCING CHARGE BETWEEN PLURALITY OF BATTERY PACKS
WO 2023145883 A1	IBIDEN CO LTD	FLAMEPROOF STRUCTURE, MANUFACTURING METHOD THEREFOR, AND BATTERY MODULE
WO 2023123445 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	BATTERY HEATING SYSTEM AND METHOD, POWER SUPPLY SYSTEM, AND ELECTRICAL DEVICE
WO 2023136164 A1	PANASONIC IP MAN CO LTD	BATTERY MANAGEMENT SYSTEM, BATTERY MANAGEMENT METHOD, AND TERMINAL DEVICE
WO 2023140210 A1	SANDEN CORP	VEHICLE AIR-CONDITIONING DEVICE
WO 2023133859 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	BATTERY CELL AND MANUFACTURING METHOD THEREFOR, DEVICE, BATTERY, AND ELECTRIC APPARATUS
WO 2023137625 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	SECONDARY BATTERY, BATTERY MODULE, BATTERY PACK, AND ELECTRIC DEVICE
WO 2023139887 A1	NOK CORP	PRESSURE REGULATING VALVE
WO 2023145885 A1	IBIDEN CO LTD	FLAMEPROOF SHEET FOR BATTERIES, TERMINAL COVER AND BATTERY MODULE
WO 2023146163 A1	LG ENERGY SOLUTION LTD	ELECTROLYTIC SOLUTION FOR LITHIUM SECONDARY BATTERY, AND LITHIUM SECONDARY BATTERY COMPRISING SAME
WO 2023135971 A1	HITACHI LTD	METHOD FOR EVALUATING DETERIORATION OF STORAGE BATTERY
WO 2023139543 A1	SHRED TECH CORP	SHREDDER WITH FLUID-IMMERSION SHREDDING CHAMBER
WO 2023140708 A1	LG ENERGY SOLUTION LTD	BATTERY MODULE, AND MANUFACTURING METHOD THEREFOR
WO 2023136067 A1	PANASONIC IP MAN CO LTD	POWER SUPPLY SYSTEM, HEATING CONTROL METHOD, AND HEATING CONTROL PROGRAM
WO 2023134480 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	ELECTRODE ASSEMBLY, BATTERY CELL, BATTERY, AND ELECTRICAL DEVICE
WO 2023141784 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	BATTERY CELL, BATTERY, ELECTRIC DEVICE, AND METHOD AND DEVICE FOR MANUFACTURING BATTERY CELL
WO 2023145437 A1	KOBE STEEL LTD	STRUCTURAL MEMBER, METHOD FOR MANUFACTURING STRUCTURAL MEMBER, BATTERY TRAY, AND METHOD FOR MANUFACTURING BATTERY TRAY
WO 2023145223 A1	PANASONIC IP MAN CO LTD	BATTERY AND PRODUCTION METHOD FOR BATTERY

WO 2023146277 A1	LG ENERGY SOLUTION LTD	BATTERY PACK AND VEHICLE COMPRISING SAME
WO 2023155125 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	TAB TEST METHOD AND APPARATUS
WO 2023133820 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	POSITIVE ELECTRODE PLATE AND SECONDARY BATTERY COMPRISING SAME
WO 2023140677 A1	L&F CO LTD	ONE-BODY PARTICLE AND ACTIVE MATERIAL FOR SECONDARY BATTERY INCLUDING THE SAME
WO 2023136412 A1	LG ENERGY SOLUTION LTD	VISION INSPECTOR SIMULATION DEVICE AND METHOD FOR SECONDARY BATTERY PRODUCTION
WO 2023150060 A1	TICONA LLC	POLYMER COMPOSITION WITH A HIGH DEGREE OF THERMAL SHOCK RESISTANCE
WO 2023134589 A1	HUAWEI TECH CO LTD	POSITIVE ELECTRODE LITHIUM SUPPLEMENTING AGENT, AND PREPARATION METHOD THEREFOR AND USE THEREOF
WO 2023133833 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	SECONDARY BATTERY, BATTERY MODULE, BATTERY PACK AND ELECTRIC APPARATUS
WO 2023140496 A1	LG ENERGY SOLUTION LTD	BATTERY MODULE AND BATTERY PACK INCLUDING SAME
WO 2023136666 A1	LG CHEMICAL LTD	ADHESION-STRENGTHENING COMPOSITION, CURRENT COLLECTOR COMPRISING SAME, POSITIVE ELECTRODE INCLUDING SAME CURRENT COLLECTOR, METHOD FOR MANUFACTURING SAME POSITIVE ELECTRODE, AND LITHIUM SECONDARY BATTERY COMPRISING SAME POSITIVE ELECTRODE
WO 2023133728 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	BATTERY, POWER CONSUMING DEVICE AND METHOD FOR MANUFACTURING BATTERY
WO 2023146242 A1	LG ENERGY SOLUTION LTD	BATTERY PACK PRINTED CIRCUIT BOARD CAPABLE OF MEASURING TEMPERATURE, AND MANUFACTURING METHOD THEREFOR
WO 2023141844 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	BINDER AND USE THEREOF
WO 2023141948 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	SURFACE TREATMENT COMPOSITION, ELECTRODE AND PREPARATION METHOD THEREFOR, SECONDARY BATTERY, AND APPARATUS
WO 2023133882 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	SEPARATOR AND SECONDARY BATTERY RELATED THERETO, BATTERY MODULE, BATTERY PACK, AND ELECTRONIC DEVICE
WO 2023133831 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	DC/DC CONVERSION CIRCUIT, POWER UNIT, CHARGING PILE, AND CHARGING AND DISCHARGING HEATING METHOD
WO 2023130215 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	HYBRID SERIES-CONNECTED BATTERY MODULE, BATTERY PACK AND ELECTRICAL APPARATUS
WO 2023130249 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	ELECTROLYTE, SECONDARY BATTERY USING SAME, BATTERY MODULE, BATTERY PACK, AND ELECTRICAL DEVICE
WO 2023123049 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	LAYERED OXIDE POSITIVE ELECTRODE ACTIVE MATERIAL, AND POSITIVE ELECTRODE PLATE CONTAINING SAME, SODIUM ION BATTERY, AND ELECTRICAL APPARATUS
WO 2023133662 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	MODIFIED GRAPHITE AND PREPARATION METHOD THEREFOR, CARBON-COATED NEGATIVE ELECTRODE ACTIVE MATERIAL AND PREPARATION METHOD THEREFOR, NEGATIVE ELECTRODE PIECE, SECONDARY BATTERY, BATTERY MODULE, BATTERY PACK, AND ELECTRIC DEVICE
WO 2023137748 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	HOUSING AND REPAIR METHOD THEREFOR, RELATED SECONDARY BATTERY, BATTERY MODULE, BATTERY PACK, AND ELECTRIC DEVICE
WO 2023141115 A2	GEORGIA TECH RES INST	HIGH TEMPERATURE-PHASE NIOBIUM PENTOXIDE (H-NB2O5) BASED ELECTRODES FOR HIGH-POWER LITHIUM-ION
WO 2023136496 A1	LG ENERGY SOLUTION LTD	POUCH-TYPE BATTERY CELL HAVING IMPROVED SAFETY, AND BATTERY MODULE COMPRISING SAME

[WO 2023122904 A1](#)

CONTEMPORARY
AMPÉREX TECHNOLOGY
CO LTD

THERMAL MANAGEMENT SYSTEM USED FOR ELECTRIC
VEHICLE, AND ELECTRIC VEHICLE

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SUPERCONDENSADORES

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2023181731 A1	MURATA MANUFACTURING CO	NEGATIVE ELECTRODE ACTIVE MATERIAL FOR SECONDARY BATTERIES, NEGATIVE ELECTRODE FOR SECONDARY BATTERIES, AND SECONDARY BATTERY
WO 2023128745 A1	MOROCCAN FOUNDATION FOR ADVANCED SCIENCE INNOVATION AND RES MASCIR	BATTERY WITH AUTONOMOUS AND INTEGRATED DIAGNOSTIC SYSTEM
WO 2023176028 A1	HITACHI HIGH TECH CORP	BATTERY STATE ESTIMATION DEVICE, BATTERY SYSTEM, AND BATTERY STATE ESTIMATION METHOD
WO 2023127416 A1	PIOLAX INC	PRESSURE RELIEF VALVE FOR POWER STORAGE DEVICE
WO 2023129724 A1	SUSTAINABLE ENERGY TECH INC	SUPERCAPACITOR TO ELECTROCHEMICAL HYBRID SYSTEM WITH SUPERCAPACITOR TESTING CAPABILITY
WO 2023167431 A1	LG ENERGY SOLUTION LTD	NON-AQUEOUS ELECTROLYTE SOLUTION COMPOSITION AND LITHIUM SECONDARY BATTERY COMPRISING SAME
WO 2023150226 A1	SUSTAINABLE ENERGY TECH INC	SUPERCAPACITOR AND ELECTROCHEMICAL HYBRID BATTERY WITH DYNAMIC IMPEDANCE MATCHING CAPABILITY
WO 2023132181 A1	TOYOTA JIDOSHOKKI KK	ELECTRIC POWER STORAGE MODULE
WO 2023149431 A1	MU IONIC SOLUTIONS CORP	NONAQUEOUS ELECTROLYTE SOLUTION AND POWER STORAGE DEVICE USING SAME
WO 2023129616 A1	SUSTAINABLE ENERGY TECH INC	SUPERCAPACITOR TO ELECTROCHEMICAL HYBRID SYSTEM WITH A SUPERCAPACITOR BATTERY MANAGEMENT CAPABILITY
WO 2023129707 A1	SUSTAINABLE ENERGY TECH INC	SUPERCAPACITOR SYSTEM WITH TEMPERATURE CONTROL
WO 2023129639 A1	SUSTAINABLE ENERGY TECH INC	SUPERCAPACITOR SYSTEM WITH AN OVER VOLTAGE PROTECTION CAPABILITY
WO 2023129520 A1	SUSTAINABLE ENERGY TECH INC	SUPERCAPACITOR TO ELECTROCHEMICAL HYBRID TOP-OFF SYSTEM
WO 2023146088 A1	UNIV KOREA RES & BUS FOUND	COMPOSITE IN WHICH DEFECT-INDUCED CARBON BODY AND METAL OXIDE ARE BONDED, METHOD FOR MANUFACTURING COMPOSITE IN WHICH DEFECT-INDUCED CARBON BODY AND METAL OXIDE ARE BONDED, AND ENERGY STORAGE DEVICE COMPRISING COMPOSITE ELECTRODE IN WHICH DEFECT-INDUCED CARBON BODY AND METAL OXIDE ARE BONDED
WO 2023129718 A1	SUSTAINABLE ENERGY TECH INC	SUPERCAPACITOR AND LEAD-ACID BATTERY HYBRID BATTERY WITH CHARGING CAPABILITY
WO 2023129522 A2	SUSTAINABLE ENERGY TECH INC	SUPERCAPACITOR TO ELECTROCHEMICAL HYBRID SYSTEM WITH FAILSAFE SAFETY CAPABILITY

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SISTEMAS DE RECUPERACIÓN DE ENERGÍA; FRENOS REGENERATIVOS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2023181286 A1	mitsubishi motors corp	HYBRID VEHICLE
WO 2023177118 A1	HYUNDAI DOOSAN INFRACORE CO LTD	REGENERATIVE BRAKING POWER DISTRIBUTION SYSTEM FOR CONSTRUCTION VEHICLE
WO 2023181285 A1	mitsubishi motors corp	HYBRID VEHICLE
WO 2023147926 A1	BOSCH GMBH ROBERT	VEHICLE, IN PARTICULAR A TWO-WHEELER OR THREE- WHEELER
WO 2023157227 A1	mitsubishi motors corp	DRIVE CONTROL DEVICE FOR HYBRID VEHICL

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MÁQUINAS ELÉCTRICAS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2023186921 A1	RENAULT S A S	ASSEMBLY FOR ELECTRIC MACHINE
WO 2023151748 A1	SCHAEFFLER TECHNOLOGIES AG	ELECTRIC AXIAL FLUX MACHINE, AN ELECTRIC AXLE DRIVE TRAIN
WO 2023165809 A1	ZAHNRADFABRIK FRIEDRICHSHAFEN	ELECTRIC MACHINE AND ELECTRIC AXLE DRIVE, AND VEHICLE COMPRISING THE ELECTRIC MACHINE
WO 2023177462 A1	UNIV IOWA STATE RES FOUND INC	SOFT MAGNETIC WIRE/STRIP ARRAY FOR MOTOR STATOR AND ROTOR
WO 2023175435 A1	TEXA DYNAMICS S R L	ELECTRIC MOTOR WITH COOLING COMPONENT
WO 2023152228 A1	RENAULT SAS	METHOD FOR MANUFACTURING A ROTOR FOR AN ELECTRIC MACHINE
WO 2023172839 A1	FCA US LLC	VEHICLE ELECTRIC DRIVE MODULE WITH THERMAL MANAGEMENT SYSTEM
WO 2023169814 A1	SEW EURODRIVE GMBH & CO KG	ELECTRIC MOTOR WITH STATOR WINDING, SENSOR AND INSULATING RING.
WO 2023180139 A1	ZAHNRADFABRIK FRIEDRICHSHAFEN	STATOR SEGMENT, STATOR SEGMENT ARRANGEMENT, STATOR LAMINATION, STATOR AND ELECTRIC MOTOR
WO 2023151753 A1	SCHAEFFLER TECHNOLOGIES AG	ELECTRIC AXIAL FLUX MACHINE
WO 2023151750 A1	SCHAEFFLER TECHNOLOGIES AG	ELECTRIC AXLE DRIVETRAIN
WO 2023179814 A1	SCHAEFFLER TECHNOLOGIES AG	ELECTRIC MACHINE
WO 2023155948 A1	SCHAEFFLER TECHNOLOGIES AG	STATOR, SLOT-CLOSURE MEANS, AND TEMPERATURE-MEASURING ARRANGEMENT
WO 2023169618 A1	KIEKERT AG	MOTOR VEHICLE, IN PARTICULAR ELECTRIC MOTOR VEHICLE OR HYBRID MOTOR VEHICLE
WO 2023127349 A1	NIDEC CORP	MOTOR
WO 2023171645 A1	NIPPON STEEL CORP	LAMINATED CORE, ROTOR, AND METHOD FOR MANUFACTURING LAMINATED CORE
WO 2023168599 A1	CONTEMPORARY AMPEREX ENERGY SERVICE TECH LIMITED	BATTERY SWAPPING METHOD AND APPARATUS, CONTROL DEVICE, AND BATTERY SWAPPING STATION
WO 2023156816 A1	RIMAC TECH LLC	AN ELECTRIC MOTOR ROTOR ASSEMBLY HAVING COOLING MEANS, AND AN ELECTRIC ENGINE HAVING SUCH A ROTOR CENTRAL ASSEMBLY
WO 2023171729 A1	MITSUI CHEMICALS INC	BUS BAR UNIT, MOTOR FOR ELECTRIC VEHICLE, AND METHOD FOR MANUFACTURING BUS BAR
WO 2023156343 A2	BROSE FAHRZEUGTEILE SE & CO KG WUERZBURG	STATOR FOR AN ELECTRIC MOTOR AND SPRING ELEMENT FOR THE STATOR
WO 2023168915 A1	JING JIN ELECTRIC TECH CO LTD	INDUCTION MOTOR ROTOR AND INDUCTION MOTOR HAVING THE SAME
WO 2023162443 A1	NIDEC CORP	DRIVE DEVICE
WO 2023132207 A1	MEIDENSHA ELECTRIC MFG CO LTD	ROTATING MACHINE
WO 2023143891 A1	HELLA GMBH & CO KGAA	ACTUATOR
WO 2023162546 A1	SANDEN CORP	ELECTRIC MOTOR AND ELECTRIC COMPRESSOR
WO 2023143669 A1	SCHAEFFLER TECHNOLOGIES AG	MODULE, IN PARTICULAR ROTOR ASSEMBLY OR STATOR ASSEMBLY, FOR AN ELECTRICAL MACHINE, AND ELECTRICAL MACHINE
WO 2023166764 A1	HITACHI ASTEMO LTD	VEHICLE DRIVE SYSTEM
WO 2023158701 A1	UNIV ARKANSAS	ANISOTROPIC INTERLEAVED COIL SLOTS USING ADDITIVE MANUFACTURING FOR MAXIMIZING ELECTRIC MOTOR TORQUE
WO 2023144837 A1	TVS MOTOR CO LTD	AN EXTENDABLE BATTERY MODULE

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CONVERTIDORES, INVERSORES

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2023161365 A1	ROLLS ROYCE SOLUTIONS GMBH	ACTIVE-BRIDGE CONVERTER CIRCUIT, ACTIVE-BRIDGE CONVERTER ARRANGEMENT AND METHOD FOR OPERATING THE ACTIVE-BRIDGE CONVERTER CIRCUIT
WO 2023170268 A1	HITACHI ENERGY SWITZERLAND AG	POWER MODULE AND METHOD FOR MANUFACTURING A POWER MODULE
WO 2023152278 A1	ZAHNRADFABRIK FRIEDRICHSHAFEN	CIRCUIT ARRANGEMENT FOR A TOPOLOGICAL SEMICONDUCTOR SWITCH OF AN INVERTER
WO 2023127322 A1	KUBOTA KK	ELECTRIC WORK VEHICLE
WO 2023175909 A1	mitsubishi electric corp	INVERTER AND ELECTRIC VEHICLE
WO 2023151741 A1	SCHAEFFLER TECHNOLOGIES AG	ON-BOARD ELECTRICAL SYSTEM FOR A MOTOR VEHICLE AND METHOD FOR OPERATING AN ON-BOARD ELECTRICAL SYSTEM FOR A MOTOR VEHICLE
WO 2023175116 A1	YASA LTD	A VOLTAGE CONVERTER AND METHOD OF CONVERTING VOLTAGE
WO 2023174992 A1	VITESCO TECH GMBH	RELIEF OF HIGHER-LOADED SWITCHING ELEMENTS IN TRACTION INVERTERS BY MEANS OF DUTY CYCLE ADAPTATION
WO 2023151751 A1	SCHAEFFLER TECHNOLOGIES AG	INVERTER DEVICE COMPRISING A LAMINATED BUSBAR OR A HIGH-CURRENT PRINTED CIRCUIT BOARD
WO 2023181493 A1	HITACHI POWER SEMICONDUCTOR DEVICE LTD	SEMICONDUCTOR DEVICE AND POWER CONVERSION DEVICE
WO 2023175504 A1	META SYSTEM SPA	POWER CONVERSION ELECTRONIC APPLIANCE FOR ELECTRIC OR HYBRID VEHICLES
WO 2023176462 A1	KYOCERA CORP	FILM CAPACITOR, INVERTER USING SAME, AND ELECTRIC VEHICLE
WO 2023180018 A1	SIEMENS AG	LLC DC/DC CONVERTER WITH CURRENT-MEASURING TRANSFORMER INTEGRATED INTO THE INDUCTANCE
WO 2023127760 A1	NIDEC CORP	POWER CONVERSION DEVICE
WO 2023168514 A1	HILLCREST ENERGY TECH LTD	AUXILIARY RESONANT COMMUTATED POLE CONVERTER WITH SELF VOLTAGE BALANCING CAPABILITY
WO 2023176280 A1	SANDEN CORP	POWER CONVERSION DEVICE
WO 2023176282 A1	SANDEN CORP	ELECTRIC POWER CONVERSION DEVICE
WO 2023127464 A1	PANASONIC HOLDINGS CORP	POWER CONVERSION SYSTEM
WO 2023156347 A1	MERCEDES BENZ GROUP AG	A METHOD FOR CONTROLLING A SIX-PHASE ELECTRIC MOTOR BY A CONTROL SYSTEM
WO 2023176484 A1	DENSO CORP	MOTOR DRIVE SYSTEM, AND MOTOR DRIVE PROGRAM
WO 2023147965 A1	DEEPRIVE GMBH	ELECTRICAL DRIVE SYSTEM AND METHOD
WO 2023161897 A1	B G NEGEV TECHNOLOGIES AND APPLICATIONS LTD AT BEN GURION UNIV	RESONANT POWER CONVERSION SYSTEMS AND METHODS
WO 2023134970 A1	BPW BERGISCHE ACHSEN KG	HIGH-VOLTAGE SUPPLY FOR DRIVE MOTORS OF AN ELECTRICALLY DRIVEN VEHICLE
WO 2023127295 A1	KUBOTA KK	ELECTRIC WORK VEHICLE
WO 2023174631 A1	BAYERISCHE MOTOREN WERKE AG	ELECTRIFIED MOTOR VEHICLE WITH A CENTRAL COMPONENT-SPECIFIC ENERGY MONITORING FUNCTION
WO 2023156395 A1	ZAHNRADFABRIK FRIEDRICHSHAFEN	LOW-IMPEDANCE CLAMPING CIRCUIT FOR A SEMICONDUCTOR SWITCHING ELEMENT IN A CONVERTER
WO 2023163590 A1	UNIV EINDHOVEN TECH	REDUCED DISSIPATION CONVERTER FOR BATTERY-BUFFERED FAST-CHARGING OF ELECTRIC VEHICLES
WO 2023170740 A1	mitsubishi electric corp	OVERHEATING PROTECTION CONTROL DEVICE FOR POWER CONVERTER
WO 2023127320 A1	KUBOTA KK	ELECTRIC WORK VEHICLE
WO 2023170978 A1	HITACHI ASTEMO LTD	POWER CONVERSION DEVICE
WO 2023149044 A1	KUBOTA KK	ELECTRIC WORK VEHICLE
WO 2023144227 A1	WIFERION GMBH	DETERMINING AN ALTERNATING ELECTRICAL CURRENT OF A RESONANT CIRCUITRY ARRANGEMENT
WO 2023171088 A1	HITACHI ASTEMO LTD	POWER DEVICE CURRENT DETECTION DEVICE AND POWER CONVERSION DEVICE
WO 2023149144 A1	HITACHI ASTEMO LTD	SEMICONDUCTOR DEVICE
WO 2023137257 A1	CATERPILLAR INC	SWITCHED RELUCTANCE GENERATOR CONVERTER

WO 2023147899 A1	BOSCH GMBH ROBERT	CHARGER FOR AN ELECTRICALLY DRIVEN VEHICLE AND METHOD FOR OPERATING A CHARGER FOR AN ELECTRICALLY DRIVEN VEHICLE
WO 2023149047 A1	KUBOTA KK	ELECTRIC WORK VEHICLE
WO 2023157916 A1	NICHICON CORP	DC/DC CONVERTER
WO 2023140200 A1	SANDEN CORP	ACTIVE FILTER DEVICE AND ELECTRIC COMPRESSOR PROVIDED WITH SAME
WO 2023136340 A1	SANDEN CORP	POWER CONVERSION DEVICE
WO 2023141160 A1	LORDSTOWN EV CORP	ELECTRIC VEHICLE CONTROL SYSTEMS AND METHODS
WO 2023146890 A1	SCALVY INC	ELECTRIC POWER SYSTEM FOR AN ELECTRIC DRIVE SYSTEM AND METHOD OF CONTROLLING THEREOF
WO 2023140077 A1	HITACHI ASTEMO LTD	SEMICONDUCTOR DEVICE AND INVERTER PROVIDED WITH SEMICONDUCTOR DEVICE

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RECARGA DE BATERÍAS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2023186408 A1	MAHLE INT GMBH	STATIONARY INDUCTION CHARGING DEVICE
WO 2023161370 A1	WEBASTO SE	SUPPORT FOR HOLDING A HUMAN-MACHINE INTERFACE PLATE IN A CHARGING STATION AND CHARGING STATION
WO 2023151943 A1	POHLCON GMBH	RECEIVING SYSTEM, METHOD FOR ASSEMBLING THE RECEIVING SYSTEM, CHARGING SYSTEM, AND METHOD FOR INDUCTIVELY CHARGING A BATTERY OF AN ELECTRICALLY OPERABLE VEHICLE
WO 2023160900 A1	MAN TRUCK & BUS SE	VEHICLE, COMBINATION OF VEHICLES, METHOD FOR CHARGING A BATTERY OF A VEHICLE, AND USE OF A CHARGING CONNECTION
WO 2023179963 A1	MAHLE INT GMBH	STATIONARY INDUCTIVE CHARGING DEVICE
WO 2023177369 A1	TEKSAN JENERATOR ELEKTRIK SANAYI VE TICARET ANONIM SIRKETI	MOBILE CHARGING STATION MANUFACTURED FOR ELECTRIC VEHICLES AND CAN ALSO BE INTEGRATED TO ROADSIDE ASSISTANCE VEHICLES
WO 2023175502 A1	META SYSTEM SPA	APPLIANCE FOR CHARGING BATTERIES OF ELECTRIC VEHICLES OR THE LIKE
WO 2023182537 A1	PMGROW CORP	METHOD AND DEVICE FOR EVALUATING BATTERY LIFESPAN
WO 2023152279 A1	RENAULT SAS	ARRANGEMENT OF AN EXPANSION TANK IN AN ENGINE COMPARTMENT
WO 2023165805 A1	SIEMENS SCHWEIZ AG	ELECTRO VEHICLE CHARGING INFRASTRUCTURE AND METHOD
WO 2023178350 A1	SOUTHWIRE CO LLC	LOWER LOSS CHARGING CABLE
WO 2023134891 A1	PREH GMBH	METHOD AND DEVICE FOR CHARGING A HIGH-VOLTAGE BATTERY
WO 2023154391 A1	ENEL X WAY S R L	SYSTEMS AND METHODS FOR BATTERY CAPACITY TRACKING USING VEHICLE CHARGING METRICS
WO 2023162308 A1	ISUZU MOTORS LTD	POWER SUPPLY CONTROL DEVICE
WO 2023163595 A1	UNIV DELFT TECH	AN INDUCTIVE POWER TRANSFER SYSTEM FOR WIRELESSLY CHARGING A BATTERY WITH EITHER HALF OR DOUBLE THE NOMINAL BATTERY VOLTAGE FOR THE SAME OUTPUT POWER AS WELL AS A CORRESPONDING METHOD
WO 2023156356 A1	ZAHNRADFABRIK FRIEDRICHSHAFEN	METHOD FOR TEMPERATURE CONTROL IN AN ELECTRICALLY OPERATED VEHICLE
WO 2023158427 A1	VOLVO TRUCK CORP	ELECTRICAL STORAGE FOR BATTERY ELECTRIC VEHICLE
WO 2023165284 A1	CONTEMPORARY AMPEREX ENERGY SERVICE TECH LIMITED	BATTERY RACK, CHARGING DEVICE, AND BATTERY SWAP STATION
WO 2023150424 A1	CATERPILLAR INC	CHARGING SECURITY DEVICE FOR ELECTRIC WORK VEHICLES
WO 2023152428 A1	PSA AUTOMOBILES SA	LEAKAGE CURRENT MONITORING DURING MODE 4 CHARGING OF A VEHICLE BATTERY
WO 2023170443 A1	MOHAMMADI SIAMAK	DESIGNING A SPRING THE CHARGER MACHINE FOR CHARGING ELECTRIC CARS
WO 2023122937 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	BATTERY CHARGING CIRCUIT AND METHOD, DEVICE, AND STORAGE MEDIUM
WO 2023149026 A1	KUBOTA KK	ELECTRIC WORK VEHICLE
WO 2023149035 A1	KUBOTA KK	ELECTRIC WORK VEHICLE
WO 2023139317 A1	PSA AUTOMOBILES SA	METHOD FOR MONITORING AN ISOLATION DEFECT IN A RECHARGING CIRCUIT
WO 2023152694 A1	IVECO SPA	VEHICLE PROVIDED WITH AN IMPROVED GRILLE
WO 2023138818 A1	FRONIUS INT GMBH	A METHOD AND APPARATUS FOR CONTROLLING A CHARGING PROCESS FOR CHARGING A VEHICLE BATTERY OF AN ELECTRIC VEHICLE
WO 2023161895 A1	B G NEGEV TECHNOLOGIES AND APPLICATIONS LTD AT BEN GURION UNIV	SYSTEM AND METHOD FOR ALIGNMENT OF WIRELESS POWER TRANSFER SYSTEMS
WO 2023143897 A1	BAYERISCHE MOTOREN WERKE AG	BALANCING STATES OF CHARGE OF BATTERY MODULES FOR AN ELECTRIC VEHICLE
WO 2023164902 A1	CONTEMPORARY AMPEREX ENERGY SERVICE TECH LIMITED	CHARGING CONTROL METHOD AND APPARATUS, AND ELECTRONIC DEVICE AND STORAGE MEDIUM

WO 2023128778 A1	LASHIN DMITRII ALEKSANDROVICH	MOBILE DEVICE FOR CHARGING ELECTRIC VEHICLES
WO 2023153237 A1	TOYOTA CHUO KENKYUSHO KK	CONTROL DEVICE FOR HYBRID VEHICLE AND CONTROL METHOD FOR HYBRID VEHICLE, AND HYBRID VEHICLE USING CONTROL DEVICE AND CONTROL METHOD
WO 2023140730 A1	GOULD KENNETH BARTON	CHARGING SYSTEM FOR ELECTRIC DRIVE VEHICLES
WO 2023129507 A1	SUSTAINABLE ENERGY TECH INC	SUPERCAPACITOR TO ELECTROCHEMICAL HYBRID CHARGING SYSTEM
WO 2023129695 A1	SUSTAINABLE ENERGY TECH INC	SUPERCAPACITOR TO ELECTROCHEMICAL HYBRID SYSTEM WITH A REGENERATIVE CHARGING CAPABILITY
WO 2023129741 A1	SUSTAINABLE ENERGY TECH INC	SUPERCAPACITOR TO ELECTROCHEMICAL HYBRID SYSTEM WITH ELECTROCHEMICAL BATTERY TESTING CAPABILITY
WO 2023129614 A1	SUSTAINABLE ENERGY TECH INC	SUPERCAPACITOR TO ELECTROCHEMICAL HYBRID SYSTEM WITH SMART SELF-DISCHARGE CAPABILITY
WO 2023158069 A1	LG ENERGY SOLUTION LTD	BATTERY MANAGEMENT APPARATUS AND OPERATION METHOD THEREFOR
WO 2023135294 A1	ATLAS TECH HOLDING B V	ELECTRIC VEHICLE, ONBOARD CHARGER, METHOD AND COMPUTER PROGRAM
WO 2023134059 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	BATTERY ENERGY RECOVERY METHOD AND DEVICE, BATTERY MANAGEMENT SYSTEM, AND BATTERY
WO 2023145192 A1	KUBOTA KK	ELECTRIC WORK VEHICLE
WO 2023129739 A1	SUSTAINABLE ENERGY TECH INC	SUPERCAPACITOR SYSTEM WITH A ON BOARD COMPUTING AND CHARGING CAPABILITY

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CAMBIO DE BATERÍAS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2023173250 A1	CONTEMPORARY AMPEREX ENERGY SERVICE TECH LIMITED	METHOD, APPARATUS, AND SYSTEM FOR MAINTENANCE MANAGEMENT OF BATTERY IN BATTERY SWAPPING STATION
WO 2023125538 A1	AULTON NEW ENERGY AUTOMOBILE TECH CO LTD	CHARGING CONTROL METHOD AND SYSTEM, ELECTRONIC DEVICE AND STORAGE MEDIUM
WO 2023168633 A1	CONTEMPORARY AMPEREX ENERGY SERVICE TECH LIMITED	BATTERY CHECKING METHOD AND APPARATUS, AND ELECTRONIC DEVICE AND STORAGE MEDIUM
WO 2023161838 A1	SARODEY MANJUNATH SHANTHAKUMAR	A SWAPPABLE BATTERY ASSEMBLY FOR ELECTRIC VEHICLES AND BATTERY SWAPPING METHOD
WO 2023168668 A1	CONTEMPORARY AMPEREX ENERGY SERVICE TECH LIMITED	BATTERY SWAPPING METHOD AND APPARATUS, AND CONTROLLER AND BATTERY SWAPPING STATION
WO 2023168598 A1	CONTEMPORARY AMPEREX ENERGY SERVICE TECH LIMITED	BATTERY SWAPPING METHOD AND APPARATUS, AND CONTROL DEVICE, BATTERY SWAPPING STATION AND READABLE STORAGE MEDIUM
WO 2023168592 A1	CONTEMPORARY AMPEREX ENERGY SERVICE TECH LIMITED	BATTERY REPLACEMENT METHOD AND APPARATUS, AND STATION CONTROL SYSTEM
WO 2023136325 A1	HONDA MOTOR CO LTD	BATTERY CHANGE SYSTEM, BATTERY CHANGE METHOD, AND MANAGEMENT DEVICE
WO 2023125513 A1	AULTON NEW ENERGY AUTOMOBILE TECH CO LTD	CHARGING CONTROL METHOD AND SYSTEM, ELECTRONIC DEVICE AND COMPUTER READABLE STORAGE MEDIUM
WO 2023125637 A1	AULTON NEW ENERGY AUTOMOBILE TECH CO LTD	CHARGING CONTROL METHOD AND SYSTEM, ELECTRONIC DEVICE, AND COMPUTER-READABLE STORAGE MEDIUM
WO 2023125382 A1	AULTON NEW ENERGY AUTOMOBILE TECH CO LTD	BATTERY MANAGEMENT METHOD AND APPARATUS, ELECTRONIC DEVICE, AND STORAGE MEDIUM
WO 2023160037 A1	CONTEMPORARY AMPEREX ENERGY SERVICE TECH LIMITED	BATTERY REPLACEMENT METHOD AND BATTERY REPLACEMENT DEVICE FOR ELECTRIC APPARATUS
WO 2023136323 A1	HONDA MOTOR CO LTD	BATTERY REPLACEMENT SYSTEM, BATTERY REPLACEMENT METHOD, AND MANAGEMENT DEVICE
WO 2023155816 A1	AULTON NEW ENERGY AUTOMOBILE TECH CO LTD	BATTERY PACK SWAPPING METHOD

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LANZAMIENTO



Los ITPs** de la OEPM nos han ahorrado horas de revisión bibliográfica para definir el punto de partida de nuestros proyectos de I+D.



EJECUCIÓN



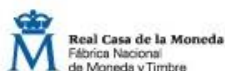
Los ITPs** de la OEPM detectaron solicitudes de patente relevantes cuando estábamos a mitad del proyecto y gracias a ello pudimos reconducir nuestra investigación.



CONCLUSIÓN



Gracias a los ITPs** de la OEPM hemos podido decidir la mejor forma de protección de nuestros resultados de I+D y redactar adecuadamente nuestras solicitudes de patente.



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