

Noticias

Real Decreto 1009/2023, de 5 de diciembre, por el que se establece la estructura orgánica básica de los departamentos ministeriales. [BOE» núm. 291, de 6 de diciembre de 2023, páginas 161991 a 162009](#)

[Proyectos de producción de baterías aprobados en el PERTE VEC II](#), La propuesta de resolución definitiva de la convocatoria, publicada por el Ministerio de Industria, Comercio y Turismo, recoge ayudas concedidas a 26 proyectos de 21 empresas por un importe total de 528,7 millones de euros en forma de subvención, lo que representa más del 95% de los fondos europeos que recoge la convocatoria. A estos fondos hay que sumar otros 100 millones de euros concedidos en forma de crédito.

[BOLETINES OEPM](#)

CONTENIDO:

- **TECNOLOGÍAS VEHICULARES**
 - [Baterías](#)
 - [Supercondensadores](#)
 - [Sistemas de recuperación de energía, p.ej. frenos regenerativos](#)
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- **INFRAESTRUCTURAS DE CARGA**
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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 2023232719 A1	DUKOSI LTD	IMPROVED BATTERY MANAGEMENT SYSTEM AND MONITORING DEVICES
WO 2023232385 A1	BAYERISCHE MOTOREN WERKE AG	MODULAR SYSTEM FOR PRODUCING AT LEAST TWO DESIGN VARIANTS OF A STORAGE HOUSING FOR A MOTOR VEHICLE AND METHOD
WO 2023235074 A1	COOPER STANDARD AUTOMOTIVE INC	APPARATUS AND METHOD FOR THE INTEGRATED CONTROL OF A THERMAL MANAGEMENT SYSTEM
WO 2023244658 A1	TESLA INC	ENERGY STORAGE CELL
WO 2023237429 A1	DIEHL AKO STIFTUNG GMBH & CO	CELL CONNECTOR FOR A CELL CONTACTING SYSTEM, AND ENERGY STORAGE DEVICE
WO 2023237430 A1	DIEHL AKO STIFTUNG GMBH & CO	TEMPERATURE-CONTROL AND DEGASSING ASSEMBLY FOR ENERGY STORAGE CELLS, AND ENERGY STORE
WO 2023240191 A1	TESLA INC	CARBONATE COMPOUNDS FOR ENERGY STORAGE DEVICE ELECTROLYTE COMPOSITIONS, AND METHODS THEREOF
WO 2023237385 A1	VALEO SYSTEMES THERMIQUES	TRAY FOR ACCOMMODATING A PART CAPABLE OF GIVING OFF HEAT
WO 2023237527 A1	WEBASTO SE	BATTERY HOUSING AND BATTERY SYSTEM COMPRISING SAME FOR A MOTOR VEHICLE
WO 2023234676 A1	LG ENERGY SOLUTION LTD	POSITIVE ELECTRODE FOR ALL-SOLID-STATE BATTERY, METHOD FOR MANUFACTURING SAME, AND ALL-SOLID-STATE BATTERY COMPRISING POSITIVE ELECTRODE
WO 2023234709 A1	LG ENERGY SOLUTION LTD	POLYMER SOLID ELECTROLYTE AND MANUFACTURING METHOD THEREFOR
WO 2023234711 A1	LG ENERGY SOLUTION LTD	POLYMER SOLID ELECTROLYTE AND PREPARATION METHOD THEREFOR
WO 2023194869 A1	NEMAK SAB DE CV	ONE-PIECE BATTERY CARRIER, AND METHOD FOR PRESSURE DIE CASTING A ONE-PIECE BATTERY CARRIER
WO 2023200236 A1	LG ENERGY SOLUTION LTD	ELECTROLYTE FOR LITHIUM SECONDARY BATTERY, AND LITHIUM SECONDARY BATTERY COMPRISING SAME
WO 2023222439 A1	VALEO SYSTEMES THERMIQUES	DEVICE FOR THERMALLY CONTROLLING A VEHICLE BATTERY PACK
WO 2023244020 A1	LG ENERGY SOLUTION LTD	SIDE SEALING DEVICE FOR ELECTRODE STACK, SECONDARY BATTERY HAVING ELECTRODE STACK, AND MANUFACTURING METHOD THEREFOR
WO 2023205399 A1	CPS TECH HOLDINGS LLC	BATTERY THERMAL EVENT DETECTION AND SUPPRESSION
WO 2023217687 A1	UMICORE NV	METHOD FOR MANUFACTURING A SOLID SULFIDE ELECTROLYTE
WO 2023234594 A1	LG ENERGY SOLUTION LTD	BATTERY MODULE AND ASSEMBLY METHOD THEREFOR
WO 2023205120 A1	LUBRIZOL CORP	ORGANIC HEAT TRANSFER SYSTEM, METHOD, AND FLUID
WO 2023222459 A1	VALEO SYSTEMES THERMIQUES	INTER-BATTERY SPACER AND THERMAL REGULATION SYSTEM FOR A SET OF BATTERIES
WO 2023234600 A1	LG ENERGY SOLUTION LTD	BATTERY DIAGNOSIS APPARATUS AND METHOD
WO 2023230995 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	BATTERY REGULATION SYSTEM, METHOD AND ELECTRIC APPARATUS USING SAME
WO 2023238510 A1	TOYOTA JIDOSHOKKI KK	BATTERY TEMPERATURE ADJUSTMENT SYSTEM
WO 2023198629 A1	MUEHLBAUER GMBH & CO KG	CONFIGURATION CHANGER MECHANISM, CARRIER DEVICES, AND SYSTEM FOR PROCESSING POUCH BATTERY CELL HOUSINGS

WO 2023227311 A1	BAYERISCHE MOTOREN WERKE AG	HOUSING EMERGENCY DRAINAGE FOR A MOTOR VEHICLE AND MOTOR VEHICLE HAVING SAME
WO 2023234593 A1	LG ENERGY SOLUTION LTD	APPARATUS AND METHOD FOR DIAGNOSING BATTERY
WO 2023233520 A1	TOSHIBA KK	BATTERY AND BATTERY PACK
WO 2023236598 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	ELECTRODE SHEET STRUCTURE AND PREPARATION METHOD THEREFOR, BATTERY CELL, AND SECONDARY BATTERY
WO 2023187090 A1	AUTOMOTIVE CELLS COMPANY SE	BATTERY WITH LONGITUDINAL CLAMPING FOR AN ELECTRIC OR HYBRID VEHICLE, AND METHOD FOR ASSEMBLING SUCH A BATTERY
WO 2023225797 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	POSITIVE ELECTRODE SHEET USED FOR SECONDARY BATTERY, AND SECONDARY BATTERY
WO 2023235611 A1	GILL PREET	STATE-OF-HEALTH ESTIMATION PIPELINE FOR LI-ION BATTERY PACKS WITH HETEROGENEOUS CELLS
WO 2023234223 A1	PANASONIC IP MAN CO LTD	LITHIUM SECONDARY BATTERY AND COMPOSITE MEMBER
WO 2023234684 A1	LG ENERGY SOLUTION LTD	ELECTRODE ASSEMBLY, METHOD FOR MANUFACTURING SAME, AND LITHIUM SECONDARY BATTERY COMPRISING SAME
WO 2023234754 A1	LG ENERGY SOLUTION LTD	BATTERY RACK INCLUDING IMPROVED COOLING STRUCTURE
WO 2023234729 A1	IUCF HYU	ANODE ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY, AND PREPARATION METHOD THEREFOR
WO 2023236957 A1	HUAWEI TECH CO LTD	THERMAL MANAGEMENT SYSTEM AND VEHICLE
WO 2023238580 A1	PANASONIC HOLDINGS CORP	COATED ACTIVE MATERIAL, BATTERY USING SAME, AND METHOD FOR PRODUCING COATED ACTIVE MATERIAL
WO 2023213466 A1	AUDI AG	CRASH SYSTEM
WO 2023234358 A1	FUJIFILM CORP	ELECTRODE COMPOSITION FOR ALL-SOLID-STATE SECONDARY BATTERIES, ELECTRODE SHEET FOR ALL-SOLID-STATE SECONDARY BATTERIES, ALL-SOLID-STATE SECONDARY BATTERY, AND METHODS FOR PRODUCING ELECTRODE SHEET FOR ALL-SOLID-STATE SECONDARY BATTERIES AND FOR PRODUCING ALL-SOLID-STATE SECONDARY BATTERY
WO 2023234706 A1	LG ENERGY SOLUTION LTD	DEVICE AND METHOD FOR MANUFACTURING ELECTRODE ASSEMBLY
WO 2023233874 A1	NOK CORP	BUFFERING MATERIAL FOR BATTERIES
WO 2023239702 A1	SAN DIEGO STATE UNIV RESEARCH FOUNDATION	POWER CONTROL SYSTEMS FOR BATTERY ENERGY STORAGE SYSTEMS USING SECOND-LIFE ELECTRIC VEHICLE (EV) BATTERIES
WO 2023198248 A1	AZL AACHEN GMBH	BATTERY HOUSING AND BATTERY FOR AN ELECTRICALLY OPERATED VEHICLE AND METHOD
WO 2023198964 A1	PSA AUTOMOBILES SA	METHOD FOR DETECTING A BLOCKED CLOSED STATE OF AN INTERMEDIATE MEMBER FOR CUTTING OFF AN ELECTRIC CURRENT ARRANGED WITHIN AN ELECTRIC BATTERY OF A VEHICLE
WO 2023227443 A1	DIEHL AKO STIFTUNG GMBH & CO	CELL MANAGEMENT CONTROLLER FOR A BATTERY MODULE
WO 2023234722 A1	SAMSUNG SDI CO LTD	BATTERY PACK
WO 2023187035 A1	SOLVAY SPECIALTY POLYMERS IT	METHOD FOR SEPARATING THE ELECTRODE MATERIALS FROM THE CURRENT COLLECTOR IN ELECTRODES FROM SPENT LITHIUM-ION BATTERIES
WO 2023234756 A1	LG ENERGY SOLUTION LTD	ELECTRODE ASSEMBLY TRANSFER TRAY
WO 2023232720 A1	DUKOSI LTD	IMPROVED COMMUNICATION DEVICE FOR BATTERY PACKS
WO 2023234357 A1	FUJIFILM CORP	ACTIVE MATERIAL RECOVERY METHOD
WO 2023243988 A1	LG ENERGY SOLUTION LTD	ELECTRODE ASSEMBLY, AND METHOD FOR MANUFACTURING ELECTRODE ASSEMBLY
WO 2023203352 A1	NEXEON LTD	PROCESS FOR THE PREPARATION OF SILICON-CONTAINING COMPOSITE PARTICLES
WO 2023203184 A1	PLASTIC OMNIUM CLEAN ENERGY SYSTEMS RES	BATTERY MODULE FOR A MOTOR VEHICLE
WO 2023205403 A1	LYTEN INC	CYLINDRICAL LITHIUM-SULFUR BATTERIES
WO 2023234296 A1	NIPPON ELECTRIC GLASS CO	ELECTRODE MIX FOR SECONDARY BATTERY, ELECTRODE FOR ALL-SOLID-STATE SECONDARY BATTERY, AND ALL-SOLID-STATE SECONDARY BATTERY

WO 2023234349 A1	FUJIFILM CORP	ALL-SOLID-STATE LITHIUM-ION SECONDARY BATTERY AND METHOD FOR MANUFACTURING ALL-SOLID-STATE LITHIUM-ION SECONDARY BATTERY
WO 2023234708 A1	LG ENERGY SOLUTION LTD	POLYMER SOLID ELECTROLYTE AND MANUFACTURING METHOD THEREFOR
WO 2023234712 A1	LG ENERGY SOLUTION LTD	POLYMER SOLID ELECTROLYTE AND PREPARATION METHOD THEREFOR
WO 2023231591 A1	BYD CO LTD	CHARGING CONTROL METHOD, CHARGING CONTROL APPARATUS, VEHICLE AND COMPUTER-READABLE STORAGE MEDIUM
WO 2023237045 A1	HSU CHUN HSIANG	COOLING AND FIRE-EXTINGUISHING DEVICE FOR ELECTRIC POWER STORAGE SYSTEM
WO 2023186978 A1	AUTOMOTIVE CELLS COMPANY SE	BATTERY WITH CROSS-MEMBERS AND CORNER MEMBERS FOR AN ELECTRIC OR HYBRID VEHICLE, AND METHOD FOR ASSEMBLING SUCH A BATTERY
WO 2023194039 A1	MAHLE INT GMBH	RING FILTER ELEMENT
WO 2023203296 A1	CONSTELLIUM NEUF BRISACH	HEAT EXCHANGER BASED ON AN ALUMINIUM ALLOY OBTAINED BY BRAZING
WO 2023222339 A1	DRAEXLMAIER LISA GMBH	BATTERY CELL ASSEMBLY FOR A BATTERY OF A MOTOR VEHICLE WITH THERMAL INSULATION FOR PREVENTING HEAT TRANSFER BY THERMAL RADIATION
WO 2023222677 A1	SHELL INT RESEARCH	THERMAL MANAGEMENT SYSTEM
WO 2023234716 A1	LG ENERGY SOLUTION LTD	METHOD FOR MANUFACTURING COMPOSITE SOLID ELECTROLYTE
WO 2023234518 A1	LG ENERGY SOLUTION LTD	SEPARATOR FOR LITHIUM SECONDARY BATTERY AND LITHIUM SECONDARY BATTERY COMPRISING SAME
WO 2023235992 A1	AK MOTOR INT CORPORATION	AN AUXILIARY BATTERY SYSTEM AND METHODS OF USING SAME
WO 2023244095 A2	KOREA ZINC CO LTD	AUTOMATIC BATTERY DISMANTLING SYSTEM
WO 2023187816 A1	TVS MOTOR CO LTD	METHOD AND SYSTEM FOR MANAGING POWER IN A VEHICLE
WO 2023236101 A1	NINGDE AMPEREX TECHNOLOGY LTD	ELECTROCHEMICAL DEVICE AND ELECTRONIC DEVICE
WO 2023239088 A1	SAMSUNG ELECTRONICS CO LTD	ELECTRONIC APPARATUS AND CONTROLLING METHOD THEREOF
WO 2023203189 A1	PLASTIC OMNIUM CLEAN ENERGY SYSTEMS RES	SYSTEM FOR THE THERMAL REGULATION OF A BATTERY
WO 2023229906 A1	CPS TECH HOLDINGS LLC	SMART BATTERY MANAGEMENT
WO 2023234395 A1	MURATA MANUFACTURING CO	POWER SUPPLY DEVICE, DIAGNOSIS DEVICE, AND DIAGNOSIS METHOD
WO 2023198891 A1	CELLFORCE GROUP GMBH	SURFACE-COATED SILICON-CARBON COMPOSITE MATERIAL, METHOD FOR MANUFACTURING A SURFACE-COATED SILICON-CARBON COMPOSITE MATERIAL, ANODE ELECTRODE AND ELECTROCHEMICAL STORAGE DEVICE
WO 2023198918 A1	CELLFORCE GROUP GMBH	ANODE FOR AN ELECTROCHEMICAL ENERGY STORAGE DEVICE
WO 2023203366 A1	DACA I POWERTRAIN ENG S R L	METHOD OF MANAGING BATTERIES FOR ELECTRIC PROPULSION SYSTEMS
WO 2023217710 A1	UMICORE NV	RECOVERY OF NICKEL AND COBALT FROM BLACK MASS
WO 2023234713 A1	LG ENERGY SOLUTION LTD	COMPOSITE SOLID ELECTROLYTE FOR LITHIUM SECONDARY BATTERY AND METHOD FOR PREPARING SAME
WO 2023231483 A1	BYD CO LTD	BATTERY CIRCUIT AND VEHICLE
WO 2023222326 A1	BAYERISCHE MOTOREN WERKE AG	LITHIUM BATTERY COMPRISING A LITHIUM METAL ANODE WITH A POROUS CURRENT CONDUCTOR
WO 2023234283 A1	UNIV YAMAGUCHI	AQUEOUS ELECTROLYTIC LIQUID AND SECONDARY BATTERY
WO 2023234350 A1	FUJIFILM CORP	WOUND ALL-SOLID-STATE LITHIUM ION SECONDARY BATTERY AND METHOD FOR PRODUCING WOUND ALL-SOLID-STATE LITHIUM ION SECONDARY BATTERY
WO 2023234710 A1	LG ENERGY SOLUTION LTD	POLYMER SOLID ELECTROLYTE AND METHOD FOR MANUFACTURING SAME
WO 2023230786 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	BINDER AND PREPARATION METHOD THEREFOR, SECONDARY BATTERY, BATTERY MODULE, BATTERY PACK AND ELECTRIC DEVICE
WO 2023187042 A1	AUTOMOTIVE CELLS COMPANY SE	BATTERY AND ASSOCIATED ASSEMBLY METHOD

WO 2023193206 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	END COVER ASSEMBLY, BATTERY CELL, BATTERY AND ELECTRIC DEVICE
WO 2023206386 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	HEATING METHOD, HEATING APPARATUS AND HEATING SYSTEM FOR BATTERY
WO 2023207483 A1	BYD CO LTD	BATTERY SELF-HEATING CONTROL METHOD AND SYSTEM, AND ELECTRIC VEHICLE
WO 2023225940 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	BINDER, AND INSULATING FILM AND BATTERY MODULE USING SAME
WO 2023229442 A1	LG ENERGY SOLUTION LTD	LITHIUM SECONDARY BATTERY
WO 2023239158 A1	LG ENERGY SOLUTION LTD	BATTERY PACK AND VEHICLE INCLUDING SAME
WO 2023239187 A1	LG ENERGY SOLUTION LTD	BATTERY PACK AND VEHICLE INCLUDING SAME
WO 2023196682 A1	SUTARDJA SEHAT	ACTIVE BATTERY BALANCER USING SPARE CELL
WO 2023193152 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	BATTERY CELL AS WELL AS MANUFACTURING METHOD AND MANUFACTURING APPARATUS THEREFOR, BATTERY, AND ELECTRIC APPARATUS
WO 2023213546 A1	MERCEDES BENZ GROUP AG	METHOD FOR OPERATING A HIGH-VOLTAGE ENERGY STORAGE UNIT, HIGH-VOLTAGE ENERGY STORAGE UNIT AND MOTOR VEHICLE
WO 2023229300 A1	LG CHEMICAL LTD	ELECTRODE FOR LITHIUM SECONDARY BATTERY AND LITHIUM SECONDARY BATTERY COMPRISING SAME
WO 2023237422 A2	DIEHL AKO STIFTUNG GMBH & CO	TEMPERATURE SENSOR ASSEMBLY, ARRANGEMENT OF A CIRCUIT BOARD WITH A TEMPERATURE SENSOR ASSEMBLY AND ENERGY STORE
WO 2023205946 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	END COVER ASSEMBLY, BATTERY AND ELECTRIC DEVICE
WO 2023221073 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	SEPARATOR AND PREPARATION METHOD THEREFOR, SECONDARY BATTERY, AND ELECTRIC DEVICE
WO 2023226944 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	TAB SHAPING DEVICE
WO 2023217786 A1	UNIV PARIS VAL DE MARNE	BATTERIES PROVIDED WITH A THERMAL MANAGEMENT SYSTEM COMPRISING PHASE-CHANGE MATERIALS
WO 2023199544 A1	PANASONIC IP MAN CO LTD	COMPOSITE ACTIVE MATERIAL PARTICLES, BATTERY, AND METHOD FOR PRODUCING COMPOSITE ACTIVE MATERIAL PARTICLES
WO 2023199894 A1	SANOI IND CO LTD	COOLER
WO 2023216053 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	DEVICE AND METHOD FOR PREPARING BATTERY CELL
WO 2023216051 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	SECONDARY BATTERY CONTAINING CYCLIC SILOXANE AND ELECTRIC DEVICE
WO 2023216255 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	ELECTRODE ASSEMBLY, BATTERY CELL, BATTERY AND ELECTRICAL DEVICE
WO 2023229400 A1	LG ENERGY SOLUTION LTD	BATTERY PACK HAVING IMPROVED QUICK CHARGE FUNCTION
WO 2023211260 A1	KOREA ZINC CO LTD	METHOD FOR PRODUCING MANGANESE(II) SULFATE MONOHYDRATE FROM BY-PRODUCT OF ZINC REFINING PROCESS
WO 2023216241 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	SECONDARY BATTERY AND PREPARATION METHOD THEREFOR, AND BATTERY MODULE, BATTERY PACK AND ELECTRIC APPARATUS
WO 2023217482 A1	BAYERISCHE MOTOREN WERKE AG	SUPPORT DEVICE FOR AN ACCUMULATOR COMPONENT WITH PROTECTIVE STRIP
WO 2023228413 A1	IBEX CO LTD	SECONDARY BATTERY
WO 2023239144 A1	LG CHEMICAL LTD	METHOD FOR PREPARING POSITIVE ELECTRODE ACTIVE MATERIAL AND POSITIVE ELECTRODE ACTIVE MATERIAL
WO 2023195751 A1	IUCF HYU ERICA CAMPUS	POSITIVE ELECTRODE ACTIVE MATERIAL AND MANUFACTURING METHOD THEREFOR
WO 2023203941 A1	SANDEN CORP	HEAT MANAGEMENT SYSTEM

WO 2023206494 A1	CONTEMPORARY AMPEREX ENERGY SERVICE TECH LIMITED	BATTERY MANAGEMENT DEVICE, ELECTRIC APPARATUS AND BATTERY
WO 2023206421 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	SECONDARY BATTERY, AND BATTERY MODULE, BATTERY PACK AND ELECTRIC DEVICE COMPRISING SAME
WO 2023216209 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	PORE-FORMING AGENT FOR SECONDARY BATTERY, PREPARATION METHOD FOR PORE-FORMING AGENT, NEGATIVE ELECTRODE SHEET, ELECTRODE ASSEMBLY, AND SECONDARY BATTERY
WO 2023225917 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	BATTERY SYSTEM AND CONTROL METHOD THEREFOR, AND ELECTRIC APPARATUS AND ELECTRONIC DEVICE
WO 2023227337 A1	BAYERISCHE MOTOREN WERKE AG	METHOD, DEVICE, COMPUTER PROGRAM AND COMPUTER-READABLE STORAGE MEDIUM FOR REACTIVATING A CAPACITY OF A BATTERY
WO 2023230136 A1	CPS TECH HOLDINGS LLC	BATTERY DIGITAL ASSETS, AND ACCOUNTABILITY
WO 2023231006 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	LITHIUM-COATED COMPOSITION, NEGATIVE ELECTRODE PLATE, SECONDARY BATTERY, BATTERY MODULE, BATTERY PACK, ELECTRIC DEVICE, METHOD AND USE
WO 2023239000 A1	LG ENERGY SOLUTION LTD	SYSTEM AND METHOD FOR CHARGING CONTROL BETWEEN BATTERY PACKS
WO 2023188772 A1	PANASONIC IP MAN CO LTD	BATTERY ANALYSIS SYSTEM, BATTERY ANALYSIS METHOD, AND BATTERY ANALYSIS PROGRAM
WO 2023194710 A1	UCL BUSINESS LTD	SOLID ELECTROLYTE FILM
WO 2023199942 A1	GS YUASA INT LTD	NON-AQUEOUS ELECTROLYTE STORAGE ELEMENT
WO 2023205524 A1	UNIV ARKANSAS	HIGH-PERFORMANCE LITHIUM-SULFUR BATTERIES ENABLED BY SUPERIOR LITHIUM ANODES AND SULFUR CATHODES
WO 2023225243 A1	GOTION INC	APPARATUS AND METHOD FOR BATTERY SOH ESTIMATION, METHOD FOR FORMING A 2D-LUT THEREOF
WO 2023225975 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	THERMAL RUNAWAY DETECTION METHOD AND APPARATUS
WO 2023229299 A1	LG CHEMICAL LTD	ELECTRODE FOR LITHIUM SECONDARY BATTERY, MANUFACTURING METHOD THEREFOR, AND LITHIUM SECONDARY BATTERY COMPRISING SAME
WO 2023214722 A1	LG ENERGY SOLUTION LTD	ORGANIC/INORGANIC COMPOSITE POROUS COATING LAYER-CONTAINING SEPARATOR FOR ELECTROCHEMICAL DEVICE, AND ELECTROCHEMICAL DEVICE COMPRISING SAME
WO 2023216027 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	SECONDARY BATTERY CONTAINING SILICATE ESTER AND ELECTRICAL DEVICE
WO 2023228475 A1	PANASONIC IP MAN CO LTD	BATTERY
WO 2023195298 A1	PANASONIC IP MAN CO LTD	NON-AQUEOUS ELECTROLYTE SECONDARY BATTERY
WO 2023199825 A1	PANASONIC IP MAN CO LTD	NON-AQUEOUS ELECTROLYTE SECONDARY BATTERY
WO 2023204612 A1	LG ENERGY SOLUTION LTD	BATTERY CONTROL APPARATUS AND BATTERY CONTROL METHOD
WO 2023212229 A1	UNIV ARKANSAS	HIGH-ENERGY LITHIUM METAL BATTERIES ENABLING EXTREMELY FAST CHARGE AND DISCHARGE
WO 2023225928 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	TAB FLATTENING DEVICE
WO 2023230895 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	BINDER COMPOSITION, SECONDARY BATTERY, BATTERY MODULE, BATTERY PACK, AND ELECTRIC APPARATUS
WO 2023187047 A1	VITESCO TECH GMBH	METHOD FOR DETERMINING THE FUNCTIONAL OPERABILITY OF A PRESSURE SENSOR, AND BATTERY ARRANGEMENT
WO 2023195713 A1	LG ENERGY SOLUTION LTD	SECONDARY BATTERY MODULE AND SECONDARY BATTERY PACK COMPRISING SAME
WO 2023199543 A1	PANASONIC IP MAN CO LTD	COMPOSITE ACTIVE MATERIAL PARTICLES, BATTERY, AND METHOD FOR PRODUCING COMPOSITE ACTIVE MATERIAL PARTICLES

WO 2023214132 A1	ARKEMA FRANCE	COMPOSITIONS WITH LITTLE OR NO SOLVENT COMPRISING CARBON NANOTUBES AND AT LEAST ONE POLYMER
WO 2023218235 A1	TOYOTA MOTOR CO LTD	ACTIVE MATERIAL, NEGATIVE ELECTRODE LAYER, BATTERY, AND METHOD FOR PRODUCING THE SAME
WO 2023229171 A1	LG ENERGY SOLUTION LTD	BATTERY MODULE AND MANUFACTURING METHOD THEREFOR
WO 2023239219 A1	LG ENERGY SOLUTION LTD	BATTERY CELL INSPECTION SYSTEM
WO 2023243327 A1	AIST	OXIDE SINTERED BODY AND METHOD FOR PRODUCING OXIDE SINTERED BODY
WO 2023211230 A1	LG ENERGY SOLUTION LTD	LITHIUM-SULFUR BATTERY HAVING HIGH ENERGY DENSITY
WO 2023215966 A1	VOLINERGY TECH INC	BATTERY HAVING INSULATING SEPARATORS AND THERMAL CONDUCTORS FOR COOLING
WO 2023223356 A1	ARYABHATTA MOTORS PRIVATE LTD	SYSTEM AND METHOD FOR COOLING BATTERY PACKS USING CELL PLACEHOLDERS WITH INTEGRATED FAN
WO 2023225716 A1	GELION TECH PTY LTD	A RECYCLING METHOD FOR BATTERY MATERIALS
WO 2023184179 A1	NINGDE AMPEREX TECHNOLOGY LTD	ELECTRODE ASSEMBLY, PREPARATION METHOD THEREFOR AND ELECTROCHEMICAL DEVICE
WO 2023195744 A1	LG CHEMICAL LTD	MANUFACTURING METHOD OF POSITIVE ELECTRODE BINDER OR POSITIVE ELECTRODE INSULATING SOLUTION FOR LITHIUM SECONDARY BATTERY AND LITHIUM SECONDARY BATTERY CONTAINING POSITIVE ELECTRODE BINDER OR POSITIVE ELECTRODE INSULATING SOLUTION PREPARED THEREBY
WO 2023200941 A1	CONAMIX INC	CARBON-FREE CATHODES FOR LITHIUM SULFUR BATTERIES
WO 2023204454 A1	LS ELECTRIC CO LTD	COOLING MODULE AND BATTERY DISCONNECT DEVICE COMPRISING SAME
WO 2023207495 A1	BYD CO LTD	BATTERY SELF-HEATING DEVICE AND METHOD, AND VEHICLE
WO 2023216824 A1	ZHUHAI COSMX BATTERY CO LTD	ELECTROLYTE AND BATTERY
WO 2023187249 A1	TURUN AMMATTIKORKEAKOULU OY	BATTERY LID MODULE, BATTERY CELL ARRANGEMENT, AND BATTERY PACK
WO 2023188397 A1	VEHICLE ENERGY JAPAN INC	BATTERY SYSTEM MONITORING DEVICE
WO 2023197176 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	MATERIAL-STRIP FEEDING INSPECTION METHOD AND APPARATUS FOR STACKING MACHINE, AND STACKING MACHINE, DEVICE AND MEDIUM
WO 2023235978 A1	BLUE SOLUTIONS CANADA INC	LAMINATES FOR LITHIUM-ION BATTERIES AND METHOD FOR PREPARING SAME
WO 2023240633 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	BATTERY CELL, BATTERY, AND ELECTRIC DEVICE
WO 2023188395 A1	VEHICLE ENERGY JAPAN INC	LITHIUM-ION SECONDARY BATTERY
WO 2023194506 A1	NIOCYCLE TEKNOLOJITIC SAN A S	LITHIUM-ION BATTERY RECYCLING METHOD
WO 2023202740 A1	SCHAEFFLER TECHNOLOGIES AG	THERMAL UNIT OF A THERMAL CIRCUIT
WO 2023212692 A2	GEORGIA TECH RES INST	CATHODE MATERIALS FOR ALKALI METAL-ION BATTERIES AND METHODS OF MAKING THE SAME
WO 2023226597 A1	BYD CO LTD	BATTERY ENERGY PROCESSING APPARATUS AND VEHICLE
WO 2023198004 A1	BEIJING CHEHEJIA AUTOMOBILE TECH CO LTD	BATTERY ELECTROLYTE, AND LITHIUM ION BATTERY COMPRISING SAME
WO 2023201021 A1	CONAMIX INC	CATHODE COMPOSITIONS WITH BLENDS OF INTERCALATION MATERIALS FOR USE IN A LITHIUM SULFUR BATTERY
WO 2023206410 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	CONTROL METHOD FOR HEATING SYSTEM OF BATTERY, AND HEATING SYSTEM
WO 2023210913 A1	LG ENERGY SOLUTION LTD	CELL BALANCING METHOD AND BATTERY PACK EMPLOYING SAME
WO 2023213592 A1	MAN TRUCK & BUS SE	METHOD FOR PRODUCING A COMPRESSED BATTERY CELL ASSEMBLY

WO 2023225911 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	BATTERY CELL, BATTERY, AND ELECTRICAL DEVICE
WO 2023225836 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	POSITIVE ELECTRODE ACTIVE MATERIAL, POSITIVE ELECTRODE SHEET, SECONDARY BATTERY, BATTERY MODULE, BATTERY PACK, AND ELECTRICAL APPARATUS
WO 2023188741 A1	HONDA MOTOR CO LTD	STORAGE BATTERY, BATTERY MODULE, AND LAMINATED FILM
WO 2023191466 A1	SAMSUNG SDI CO LTD	COOLING PLATE ARRANGEMENT, BATTERY SYSTEM, ELECTRIC VEHICLE AND METHOD FOR ASSEMBLING
WO 2023213726 A1	SIEMENS ENERGY AS	ENERGY STORAGE SYSTEM
WO 2023221090 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	BATTERY CELL, BATTERY, AND ELECTRIC DEVICE
WO 2023224414 A1	LG ENERGY SOLUTION LTD	BATTERY DIAGNOSIS APPARATUS, BATTERY DIAGNOSIS METHOD, BATTERY PACK, AND VEHICLE
WO 2023228596 A1	TOYOTA MOTOR CO LTD	VEHICLE, VEHICLE CONTROL DEVICE, AND VEHICLE CONTROL METHOD
WO 2023188728 A1	MURATA MANUFACTURING CO	BATTERY PACK
WO 2023224071 A1	GS YUASA INT LTD	NONAQUEOUS ELECTROLYTE POWER STORAGE ELEMENT
WO 2023229921 A1	GOTION INC	APPARATUS AND METHOD FOR BATTERY SOC ESTIMATION
WO 2023221104 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	HOUSING, BATTERY CELL, BATTERY, AND ELECTRIC DEVICE
WO 2023185894 A1	ZHAO YIJUN	SMART CELL, BATTERY MODULE COMPRISING SMART CELL, AND BATTERY PACK
WO 2023189709 A1	MURATA MANUFACTURING CO	SECONDARY BATTERY ELECTROLYTE AND SECONDARY BATTERY
WO 2023223066 A1	NISSAN MOTOR	SECONDARY BATTERY
WO 2023224283 A1	LG ENERGY SOLUTION LTD	BATTERY PACK AND VEHICLE INCLUDING SAME
WO 2023224588 A1	YESILOVA HOLDING ANONIM SIRKETI	A DEMOUNTABLE CONNECTION ASSEMBLY
WO 2023226354 A1	REPT BATTERO ENERGY CO LTD	TOP COVER STRUCTURE OF SECONDARY BATTERY, TOP COVER ASSEMBLY, AND SECONDARY BATTERY
WO 2023190746 A1	ASAHI CHEMICAL IND	NONAQUEOUS SECONDARY BATTERY
WO 2023192769 A1	UNIV NORTHWESTERN	IONOGEL ELECTROLYTES, FORMING METHODS AND APPLICATIONS OF SAME
WO 2023201775 A1	BTR NEW MAT GROUP CO LTD	NEGATIVE ELECTRODE MATERIAL AND PREPARATION METHOD THEREFOR, AND LITHIUM ION BATTERY
WO 2023206492 A1	CONTEMPORARY AMPEREX ENERGY SERVICE TECH LIMITED	WIRELESS CONNECTION METHOD AND APPARATUS FOR BATTERY MANAGER DEVICE, AND BATTERY MANAGER DEVICE
WO 2023220116 A1	GLOBAL GRAPHENE GROUP INC	RECHARGEABLE SODIUM BATTERY CONTAINING A SOLID ELASTOMER ELECTROLYTE AND MANUFACTURING METHOD
WO 2023239216 A1	LG ENERGY SOLUTION LTD	BATTERY PACK AND VEHICLE COMPRISING SAME
WO 2023189101 A1	PANASONIC ENERGY CO LTD	POWER SUPPLY DEVICE
WO 2023189708 A1	MURATA MANUFACTURING CO	SECONDARY BATTERY
WO 2023197236 A1	BOE TECHNOLOGY GROUP CO LTD	BATTERY ASSEMBLY AND MANUFACTURING METHOD THEREFOR
WO 2023207620 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	BATTERY AND ELECTRIC DEVICE
WO 2023211227 A1	KOREA RES INST CHEMICAL TECH	ELECTRODE PROTECTION LAYER BASED ON CARBOXYLATED POLYMER OF INTRINSIC MICROPOROSITY, AND MANUFACTURING METHOD THEREFOR
WO 2023223067 A1	NISSAN MOTOR	LITHIUM SECONDARY BATTERY
WO 2023228492 A1	HITACHI LTD	EV MANAGEMENT SYSTEM
WO 2023229244 A1	LG ENERGY SOLUTION LTD	BATTERY MODULE

WO 2023207866 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	BATTERY AND ELECTRIC APPARATUS
WO 2023215476 A1	UNIV MICHIGAN REGENTS	ARTIFICIAL SOLID ELECTROLYTE INTERPHASE FOR ENABLING ETHYLENE CARBONATE-FREE ELECTROLYTES IN LITHIUM-ION BATTERIES
WO 2023189375 A1	MURATA MANUFACTURING CO	SOLID-STATE ELECTROLYTE FOR SOLID-STATE BATTERY, SOLID-STATE BATTERY, AND BATTERY PACKAGE
WO 2023188573 A1	HONDA MOTOR CO LTD	BATTERY DEGRADATION STATE ESTIMATION DEVICE, DEGRADATION SUPPRESSION SYSTEM, DEGRADATION STATE ESTIMATION METHOD, AND DEGRADATION SUPPRESSION METHOD
WO 2023189693 A1	MAXELL LTD	BATTERY AND METHOD FOR PRODUCING SAME
WO 2023190871 A1	PANASONIC IP MAN CO LTD	SECONDARY BATTERY
WO 2023220857 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	ELECTROLYTE, SECONDARY BATTERY COMPRISING SAME, BATTERY MODULE, BATTERY PACK, AND ELECTRIC APPARATUS
WO 2023229254 A1	LG ENERGY SOLUTION LTD	BATTERY MODULE THAT INTEGRATES GAS VENTING CHANNEL AND COOLING CHANNEL, BATTERY PACK INCLUDING SAME, AND METHOD FOR MANUFACTURING BATTERY MODULE
WO 2023196468 A1	SION POWER CORP	LATERAL CONSTRAINT OF BATTERY COMPONENTS UNDER FORCE
WO 2023201393 A1	UNIV ADELAIDE	IMPROVED ELECTROLYTE FOR BATTERIES
WO 2023204536 A1	LG ENERGY SOLUTION LTD	SECONDARY BATTERY
WO 2023206449 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	SECONDARY BATTERY AND BATTERY MODULE COMPRISING SAME, BATTERY PACK, AND ELECTRICAL DEVICE
WO 2023223581 A1	PANASONIC IP MAN CO LTD	BATTERY
WO 2023195336 A1	DENSO CORP	REMAINING BATTERY POWER ESTIMATION DEVICE
WO 2023206216 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	NON-AQUEOUS ELECTROLYTE, SECONDARY BATTERY, BATTERY MODULE, BATTERY PACK, AND ELECTRICAL DEVICE
WO 2023207619 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	BATTERY, ELECTRIC DEVICE, AND SECONDARY UTILIZATION METHOD FOR WIRE HARNESS OF BATTERY
WO 2023223810 A1	MURATA MANUFACTURING CO	SOLID ELECTROLYTE CERAMIC AND SOLID-STATE BATTERY
WO 2023224342 A1	LG ENERGY SOLUTION LTD	ALL-SOLID-STATE BATTERY AND MANUFACTURING METHOD THEREFOR
WO 2023229044 A1	IBIDEN CO LTD	HEAT-TRANSMISSION CONTROLLING SHEET AND BATTERY PACK
WO 2023229046 A1	IBIDEN CO LTD	HEAT TRANSFER SUPPRESSION SHEET AND BATTERY PACK
WO 2023187875 A1	HONDA MOTOR CO LTD	INFORMATION-PROVIDING DEVICE, INFORMATION PROVISION METHOD, AND PROGRAM
WO 2023211164 A1	LG ENERGY SOLUTION LTD	LITHIUM-SULFUR BATTERY HAVING HIGH ENERGY DENSITY
WO 2023216703 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	NEGATIVE ELECTRODE SHEET, PREPARATION METHOD THEREFOR, AND RELATED DEVICE
WO 2023224125 A1	IBIDEN CO LTD	BUS BAR AND PRODUCTION METHOD THEREFOR, AND POWER STORAGE DEVICE
WO 2023224223 A1	PHILOPHOS INC	SECONDARY BATTERY IMPURITY INSPECTION METHOD AND SYSTEM BASED ON OPTICAL COHERENCE TOMOGRAPHY
WO 2023184784 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	SECONDARY BATTERY, BATTERY MODULE, BATTERY PACK AND ELECTRIC DEVICE
WO 2023189149 A1	TOYOTA JIDOSHOKKI KK	POWER STORAGE DEVICE
WO 2023189678 A1	MURATA MANUFACTURING CO	SOLID-STATE BATTERY AND ELECTRONIC DEVICE
WO 2023201774 A1	BTR NEW MAT GROUP CO LTD	NEGATIVE ELECTRODE MATERIAL AND PREPARATION METHOD THEREFOR, AND LITHIUM ION BATTERY
WO 2023203795 A1	PANASONIC IP MAN CO LTD	BATTERY AND METHOD FOR MANUFACTURING SAME

WO 2023203796 A1	PANASONIC IP MAN CO LTD	BATTERY AND METHOD FOR PRODUCING SAME
WO 2023205276 A1	TAE TECH INC	PULSED CHARGING FOR ENERGY SOURCES OF CONNECTED MODULES
WO 2023216139 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	SECONDARY BATTERY AND MANUFACTURING METHOD THEREFOR, BATTERY MODULE, BATTERY PACK AND ELECTRICAL DEVICE
WO 2023217762 A1	RWTH AACHEN	BATTERY DEVICE
WO 2023224177 A1	LPN CO LTD	NOVEL METHOD FOR PREPARING GRANULATED SPHERICAL GRAPHITE, GRANULATED SPHERICAL GRAPHITE PREPARED THEREBY, AND SECONDARY BATTERY COMPRISING SAME AS ANODE ACTIVE MATERIAL
WO 2023229047 A1	IBIDEN CO LTD	HEAT TRANSFER SUPPRESSION SHEET AND BATTERY PACK
WO 2023229267 A1	LG ENERGY SOLUTION LTD	BATTERY MANAGEMENT DEVICE AND OPERATION METHOD THEREOF
WO 2023197117 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	MEASUREMENT METHOD AND APPARATUS FOR TAB
WO 2023197162 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	BATTERY CELL, BATTERY AND ELECTRIC DEVICE
WO 2023200194 A1	LG ENERGY SOLUTION LTD	BATTERY CELL TRACKING DEVICE
WO 2023206483 A1	CONTEMPORARY AMPEREX ENERGY SERVICE TECH LIMITED	BATTERY MANAGEMENT METHOD, BATTERY MANAGEMENT UNIT, AND ELECTRIC DEVICE
WO 2023220884 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	BATTERY AND ELECTRIC DEVICE
WO 2023221113 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	ELECTROLYTE, SECONDARY BATTERY, BATTERY MODULE, BATTERY PACK, AND ELECTRIC DEVICE
WO 2023230930 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	BINDER AND PREPARATION METHOD THEREFOR, SECONDARY BATTERY, BATTERY MODULE, BATTERY PACK, AND ELECTRIC APPARATUS
WO 2023239217 A1	LG ENERGY SOLUTION LTD	BATTERY PACK, METHOD FOR MANUFACTURING BATTERY PACK, AND VEHICLE INCLUDING BATTERY PACK
WO 2023184497 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	DISPERSANT COMPOSITION, POSITIVE ELECTRODE PLATE, SECONDARY BATTERY, BATTERY MODULE, BATTERY PACK, AND ELECTRIC APPARATUS
WO 2023216100 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	BATTERY PACK AND ELECTRIC DEVICE
WO 2023223064 A1	NISSAN MOTOR	ALL-SOLID-STATE BATTERY
WO 2023223065 A1	NISSAN MOTOR	SECONDARY BATTERY
WO 2023223582 A1	PANASONIC IP MAN CO LTD	BATTERY AND PRODUCTION METHOD FOR BATTERY
WO 2023223712 A1	MURATA MANUFACTURING CO	SOLID ELECTROLYTE CERAMICS AND SOLID-STATE BATTERY
WO 2023193213 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	METHOD AND APPARATUS FOR DETECTING DEFECT OF INSULATING COATING OF BATTERY ELECTRODE PLATE, AND COMPUTER DEVICE
WO 2023219283 A1	LG ENERGY SOLUTION LTD	ALL-SOLID-STATE BATTERY
WO 2023189818 A1	MAXELL LTD	ELECTRODE FOR ALL-SOLID-STATE BATTERY AND ALL-SOLID-STATE BATTERY
WO 2023189636 A1	MURATA MANUFACTURING CO	SECONDARY BATTERY, BATTERY PACK, ELECTRONIC DEVICE, ELECTRIC TOOL, ELECTRIC AIRCRAFT, ELECTRIC VEHICLE, AND METHOD FOR MANUFACTURING ELECTRODE WINDING BODY FOR SECONDARY BATTERY
WO 2023204620 A1	LG ENERGY SOLUTION LTD	POSITIVE ELECTRODE AND SECONDARY BATTERY COMPRISING SAME POSITIVE ELECTRODE
WO 2023208007 A1	HUAWEI TECH CO LTD	COMPOSITE MATERIAL, PREPARATION METHOD THEREFOR AND APPLICATION THEREOF
WO 2023210636 A1	GS YUASA INT LTD	LEAD-ACID BATTERY
WO 2023219325 A1	LG ENERGY SOLUTION LTD	ELECTRODE ASSEMBLY, MANUFACTURING METHOD THEREFOR AND BATTERY CELL INCLUDING SAME

WO 2023220102 A1	LI IND INC	METHODS AND SYSTEMS FOR SCALABLE DIRECT RECYCLING OF BATTERY WASTE
WO 2023224070 A1	GS YUASA INT LTD	NON-AQUEOUS ELECTROLYTE POWER STORAGE ELEMENT
WO 2023225937 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	NEGATIVE ELECTRODE PLATE AND PREPARATION METHOD THEREFOR, SECONDARY BATTERY, BATTERY MODULE, BATTERY PACK AND ELECTRIC DEVICE
WO 2023190517 A1	MAXELL LTD	ALL-SOLID-STATE SECONDARY BATTERY
WO 2023195823 A1	LG ENERGY SOLUTION LTD	POSITIVE ELECTRODE ACTIVE MATERIAL, POSITIVE ELECTRODE INCLUDING SAME, AND LITHIUM SECONDARY BATTERY
WO 2023193166 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	ELECTRODE ASSEMBLY AND SECONDARY BATTERY CONTAINING SAME, AND BATTERY MODULE, BATTERY PACK AND ELECTRIC APPARATUS
WO 2023203424 A1	SEMICONDUCTOR ENERGY LAB	POSITIVE ELECTRODE ACTIVE MATERIAL AND SECONDARY BATTERY
WO 2023204504 A1	KOREA MARITIME UNIV IND ACAD	BATTERY MODULE COMPRISING THREE-DIMENSIONAL PULSATING HEAT PIPE
WO 2023210635 A1	GS YUASA INT LTD	LEAD STORAGE BATTERY
WO 2023210941 A1	LG ENERGY SOLUTION LTD	ELECTRODE ASSEMBLY AND BATTERY CELL INCLUDING SAME
WO 2023216254 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	ELECTRODE ASSEMBLY, BATTERY CELL, BATTERY, AND ELECTRIC DEVICE
WO 2023224234 A1	LG ENERGY SOLUTION LTD	METHOD AND SYSTEM FOR DRYING A BATTERY PART
WO 2023184328 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	LITHIUM ION BATTERY, BATTERY MODULE, BATTERY PACK, AND ELECTRICAL DEVICE
WO 2023190576 A1	HONDA MOTOR CO LTD	CHARGE CONTROL DEVICE
WO 2023200052 A1	COSBON CO LTD	METHOD FOR MANUFACTURING BATTERY PACK BY USING RESIN MOLDING
WO 2023210232 A1	ABRI CO LTD	LITHIUM SULFUR BATTERY POSITIVE ELECTRODE, LITHIUM SULFUR BATTERY, AND CHARGING/DISCHARGING METHOD FOR SAME
WO 2023210751 A1	FUJIFILM CORP	BATTERY ELECTRODE PLATE GROUP MANUFACTURING METHOD AND BATTERY ELECTRODE PLATE GROUP MANUFACTURING DEVICE
WO 2023214991 A1	HYZON MOTORS INC	SOLID STATE ELECTROLYTE FOR ENERGY STORAGE DEVICES
WO 2023218218 A1	NISSAN MOTOR	LITHIUM SECONDARY BATTERY
WO 2023189374 A1	MURATA MANUFACTURING CO	SOLID-STATE BATTERY ELECTRODE AND METHOD FOR MANUFACTURING SAME, SOLID-STATE BATTERY AND METHOD FOR MANUFACTURING SAME, AND BATTERY PACKAGE
WO 2023190872 A1	PANASONIC IP MAN CO LTD	LITHIUM SECONDARY BATTERY
WO 2023191687 A1	SCANIA CV AB	BATTERY PACK AND A VEHICLE COMPRISING A BATTERY PACK
WO 2023201467 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	BATTERY TRANSMISSION SYSTEM, CONTROL METHOD, SIMULATION METHOD, DEVICE, PLC AND MEDIUM
WO 2023202238 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	NEGATIVE ELECTRODE SHEET, SECONDARY BATTERY, BATTERY MODULE, BATTERY PACK, AND ELECTRICAL DEVICE
WO 2023204163 A1	MITSUBISHI GAS CHEMICAL CO	METHOD FOR PRODUCING LGPS-BASED SOLID ELECTROLYTE, AND METHOD FOR PRODUCING ALL-SOLID-STATE BATTERY
WO 2023204647 A1	LG ENERGY SOLUTION LTD	ELECTRODE, SECONDARY BATTERY COMPRISING SAME, AND METHOD FOR MANUFACTURING SAME
WO 2023200305 A1	LG ENERGY SOLUTION LTD	NEGATIVE ELECTRODE AND SECONDARY BATTERY COMPRISING SAME
WO 2023218864 A1	TOYOTA JIDOSHOKKI KK	POWER STORAGE DEVICE
WO 2023189322 A1	MAXELL LTD	LITHIUM ION SECONDARY BATTERY
WO 2023190502 A1	HONDA MOTOR CO LTD	BATTERY PACK
WO 2023191235 A1	SAMSUNG SDI CO LTD	ELECTROLYTE FOR LITHIUM SECONDARY BATTERY AND LITHIUM SECONDARY BATTERY COMPRISING SAME
WO 2023200108 A1	SAMSUNG SDI CO LTD	SEPARATOR FOR LITHIUM SECONDARY BATTERY, AND LITHIUM SECONDARY BATTERY COMPRISING SAME

WO 2023200272 A1	LG ENERGY SOLUTION LTD	ELECTRODE ASSEMBLY INCLUDING ELECTRODE TAPE HAVING MOISTURE ABSORBENT LAYER, AND SECONDARY BATTERY COMPRISING SAME
WO 2023204009 A1	AISIN CORP	VEHICLE BATTERY CASE
WO 2023219285 A1	LG ENERGY SOLUTION LTD	BATTERY CELL, MANUFACTURING APPARATUS THEREFOR, AND MANUFACTURING METHOD THEREFOR
WO 2023184501 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	POSITIVE-ELECTRODE ACTIVE MATERIAL COMPOSITION, POSITIVE ELECTRODE PLATE, SECONDARY BATTERY, BATTERY MODULE, BATTERY PACK AND ELECTRIC APPARATUS
WO 2023190646 A1	MINITUBISHI CHEM CORP	PARTITIONING MEMBER AND BATTERY ASSEMBLY
WO 2023191030 A1	MINITUBISHI MATERIALS CORP	ELECTRODE MATERIAL LEACHING METHOD AND METHOD FOR SEPARATING COBALT AND NICKEL
WO 2023210658 A1	NUVOTON TECH CORPORATION JAPAN	BATTERY MANAGEMENT SYSTEM
WO 2023215526 A1	ZERO NOX INC	MODULARIZATION AND POWER MANAGEMENT OF BATTERY MODULES
WO 2023219304 A1	SAMSUNG SDI CO LTD	SEPARATOR FOR LITHIUM SECONDARY BATTERY AND LITHIUM SECONDARY BATTERY COMPRISING SAME
WO 2023187804 A1	TVS MOTOR CO LTD	A SYSTEM OF FASTENING A BATTERY PACK
WO 2023187824 A1	ARYABHATTA MOTORS PRIVATE LTD	A DYNAMIC BATTERY COOLING SYSTEM AND METHOD THEREOF
WO 2023201726 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	BATTERY CELL, BATTERY AND ELECTRICAL DEVICE
WO 2023210513 A1	GS YUASA INT LTD	LEAD-ACID BATTERY AND METHOD FOR MANUFACTURING SAME, AND METHOD FOR USE THEREOF
WO 2023210931 A1	LG ENERGY SOLUTION LTD	BATTERY MODULE, BATTERY PACK AND VEHICLE COMPRISING SAME
WO 2023216240 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	SECONDARY BATTERY AND PREPARATION METHOD THEREFOR, BATTERY MODULE, BATTERY PACK, AND ELECTRIC DEVICE
WO 2023224330 A1	LG ENERGY SOLUTION LTD	BATTERY PACK
WO 2023193227 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	APPARATUS AND METHOD FOR MANUFACTURING ELECTRODE ASSEMBLY
WO 2023193231 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	SECONDARY BATTERY, PREPARATION METHOD FOR CORRESPONDING POSITIVE ELECTRODE ACTIVE MATERIAL, BATTERY MODULE, BATTERY PACK AND ELECTRIC DEVICE
WO 2023190363 A1	RESONAC CORP	ELECTROCHEMICAL DEVICE, AND ELECTROLYTE FOR ELECTROCHEMICAL DEVICE
WO 2023196095 A1	TOYOTA ENG & MFG NORTH AMERICA	MOVABLE RECEIVER COIL FOR IMPROVED WIRELESS COUPLING & CHARGING
WO 2023204566 A1	LG CHEMICAL LTD	NEGATIVE ELECTRODE MATERIAL, MANUFACTURING METHOD THEREFOR, NEGATIVE ELECTRODE INCLUDING SAME, AND LITHIUM SECONDARY BATTERY INCLUDING SAME NEGATIVE ELECTRODE
WO 2023184397 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	POSITIVE ELECTRODE SHEET, SECONDARY BATTERY AND ELECTRIC DEVICE
WO 2023191200 A1	SAMSUNG SDI CO LTD	CATHODE FOR RECHARGEABLE LITHIUM BATTERY AND RECHARGEABLE LITHIUM BATTERY INCLUDING SAME
WO 2023219307 A1	SAMSUNG SDI CO LTD	SEPARATOR FOR LITHIUM SECONDARY BATTERY AND LITHIUM SECONDARY BATTERY INCLUDING SAME
WO 2023188949 A1	MURATA MANUFACTURING CO	SECONDARY BATTERY ELECTROLYTE AND SECONDARY BATTERY
WO 2023190027 A1	PANASONIC ENERGY CO LTD	NON-AQUEOUS ELECTROLYTE SECONDARY BATTERY
WO 2023204260 A1	MITSUBI CHEMICALS INC	TEMPERATURE CONTROL HOLDER STRUCTURE, TEMPERATURE CONTROL PACK, AND METHOD FOR PRODUCING TEMPERATURE CONTROL HOLDER
WO 2023206427 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	SECONDARY BATTERY, BATTERY MODULE COMPRISING SAME, BATTERY PACK, AND ELECTRIC DEVICE
WO 2023189179 A1	DENSO CORP	IMPEDANCE MEASUREMENT DEVICE FOR SECONDARY BATTERY
WO 2023191098 A1	VEHICLE ENERGY JAPAN INC	BATTERY CONTROL DEVICE

WO 2023211179 A1	LG ENERGY SOLUTION LTD	SIDE SEALING DEVICE FOR STACKED ELECTRODE BODY, SECONDARY BATTERY HAVING STACKED ELECTRODE BODY, AND METHOD FOR MANUFACTURING SAME
WO 2023214860 A1	LG ENERGY SOLUTION LTD	ELECTRODE PRE-LITHIATION METHOD, PRE-LITHIATED ELECTRODE FOR LITHIUM SECONDARY BATTERY, AND ELECTRODE PRE-LITHIATION DEVICE
WO 2023191416 A1	SOLIVIS INC	METHOD FOR PREPARING SULFIDE-BASED SOLID ELECTROLYTE
WO 2023204550 A1	LG ENERGY SOLUTION LTD	BATTERY MODULE AND BATTERY PACK INCLUDING SAME
WO 2023216028 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	POLYMER AND PREPARATION THEREOF, AND ELECTROLYTE MEMBRANE AND PREPARATION THEREOF
WO 2023191541 A1	LG ENERGY SOLUTION LTD	NONAQUEOUS ELECTROLYTE AND LITHIUM SECONDARY BATTERY COMPRISING SAME
WO 2023191269 A1	LG ENERGY SOLUTION LTD	GEL POLYMER ELECTROLYTE COMPOSITION HAVING REDUCED CROSSLINKING TIME, SECONDARY BATTERY COMPRISING SAME, AND METHOD FOR MANUFACTURING SECONDARY BATTERY
WO 2023191540 A1	LG ENERGY SOLUTION LTD	NON-AQUEOUS ELECTROLYTE FOR LITHIUM SECONDARY BATTERY AND LITHIUM SECONDARY BATTERY INCLUDING SAME
WO 2023197859 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	BATTERY CELL, BATTERY AND ELECTRIC DEVICE
WO 2023206949 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	CYLINDRICAL ELECTRODE ASSEMBLY, BATTERY CELL, BATTERY, ELECTRICAL DEVICE, AND MANUFACTURING METHOD
WO 2023214703 A1	LG ENERGY SOLUTION LTD	SECONDARY BATTERY
WO 2023191246 A1	LG ENERGY SOLUTION LTD	BATTERY CASE AND SECONDARY BATTERY
WO 2023206397 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	SECONDARY BATTERY, BATTERY MODULE, BATTERY PACK AND ELECTRICAL DEVICE
WO 2023184506 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	SECONDARY BATTERY, BATTERY MODULE, BATTERY PACK AND ELECTRIC DEVICE
WO 2023204412 A1	LG ENERGY SOLUTION LTD	LAMINATION APPARATUS AND UNIT CELL MANUFACTURING METHOD
WO 2023214844 A1	LG ENERGY SOLUTION LTD	METHOD FOR MANUFACTURING ELECTRODE ASSEMBLY, ELECTRODE ASSEMBLY, AND LITHIUM SECONDARY BATTERY COMPRISING SAME
WO 2023216052 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	ELECTROLYTE, SECONDARY BATTERY, BATTERY MODULE, BATTERY PACK, AND ELECTRIC APPARATUS
WO 2023211126 A1	LG ENERGY SOLUTION LTD	BATTERY MODULE, BATTERY PACK AND VEHICLE INCLUDING SAME
WO 2023191517 A1	STANDARD ENERGY INC	SYSTEMS CONFIGURED FOR THERMAL MANAGEMENT OF BATTERY CELLS
WO 2023216130 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	ELECTROLYTE, SECONDARY BATTERY, BATTERY MODULE, BATTERY PACK AND ELECTRICAL DEVICE
WO 2023191199 A1	SAMSUNG SDI CO LTD	EXTERIOR MATERIAL FOR RECHARGEABLE LITHIUM BATTERY AND RECHARGEABLE LITHIUM BATTERY INCLUDING SAME
WO 2023191595 A1	SK ON CO LTD	POSITIVE ELECTRODE ACTIVE MATERIAL
WO 2023224384 A1	LG ENERGY SOLUTION LTD	PRISMATIC SECONDARY BATTERY
WO 2023187192 A1	PLASTIC OMNIUM CLEAN ENERGY SYSTEMS RES	BATTERY ASSEMBLY FOR A MOTOR VEHICLE
WO 2023216029 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	SECONDARY BATTERY, BATTERY MODULE, BATTERY PACK AND ELECTRIC APPARATUS
WO 2023191185 A1	SAMSUNG SDI CO LTD	SEPARATOR FOR RECHARGEABLE LITHIUM BATTERY AND RECHARGEABLE LITHIUM BATTERY INCLUDING SAME
WO 2023216039 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	NEGATIVE POLE PIECE, ELECTRODE ASSEMBLY, BATTERY CELL, BATTERY AND ELECTRICAL APPARATUS

WO 2023221120 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	NON-AQUEOUS ELECTROLYTE, SECONDARY BATTERY COMPRISING SAME, BATTERY MODULE, BATTERY PACK, AND ELECTRIC DEVICE
WO 2023184294 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	POSITIVE ELECTRODE SHEET, SECONDARY BATTERY, BATTERY MODULE, BATTERY PACK, AND ELECTRIC DEVICE
WO 2023184408 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	POSITIVE ELECTRODE ACTIVE MATERIAL AND PREPARATION METHOD THEREFOR, POSITIVE ELECTRODE PLATE COMPRISING SAME, SECONDARY BATTERY AND ELECTRIC DEVICE
WO 2023216142 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	SECONDARY BATTERY, BATTERY MODULE, BATTERY PACK, AND ELECTRICAL DEVICE
WO 2023191240 A1	LG ENERGY SOLUTION LTD	ANODE, MANUFACTURING METHOD THEREFOR, SECONDARY BATTERY COMPRISING SAME, AND SECONDARY BATTERY MANUFACTURING METHOD
WO 2023191604 A1	LG CHEMICAL LTD	CATHODE ACTIVE MATERIAL, PREPARATION METHOD THEREFOR, AND LITHIUM SECONDARY BATTERY COMPRISING SAME
WO 2023201094 A2	FORGE NANO INC	METHODS OF REACTIVE DRYING A SEPARATOR DURING BATTERY MANUFACTURING, DRIED SEPARATORS, AND BATTERIES CONTAINING THE SEPARATOR
WO 2023216101 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	POSITIVE ELECTRODE SLURRY, POSITIVE ELECTRODE SHEET, AND SECONDARY BATTERY COMPRISING POSITIVE ELECTRODE SHEET
WO 2023191253 A1	LG ENERGY SOLUTION LTD	BATTERY CONTROL SYSTEM FOR PREVENTING IMBALANCE BETWEEN BATTERY CELLS, AND CONTROL METHOD THEREFOR
WO 2023184154 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	ELECTROLYTE AND SECONDARY BATTERY THEREOF, BATTERY MODULE, BATTERY PACK AND ELECTRIC DEVICE
WO 2023191198 A1	SAMSUNG SDI CO LTD	SHEET FOR RECHARGEABLE LITHIUM BATTERY AND RECHARGEABLE LITHIUM BATTERY INCLUDING SAME
WO 2023200083 A1	LG ENERGY SOLUTION LTD	LITHIUM SECONDARY BATTERY HAVING IMPROVED STABILITY
WO 2023191386 A1	SEOUL NAT UNIV R&DB FOUNDATION	ELECTROLYTE ADDITIVE FOR LITHIUM ION BATTERY, ELECTROLYTE COMPRISING SAME, AND LITHIUM ION BATTERY COMPRISING SAME
WO 2023184355 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	POSITIVE ELECTRODE ACTIVE MATERIAL, PREPARATION METHOD THEREFOR, AND POSITIVE ELECTRODE PLATE, SECONDARY BATTERY, AND ELECTRIC DEVICE COMPRISING SAME
WO 2023184494 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	POSITIVE ELECTRODE ACTIVE MATERIAL AND PREPARATION METHOD THEREFOR, POSITIVE ELECTRODE PLATE COMPRISING SAME, SECONDARY BATTERY AND ELECTRIC DEVICE
WO 2023216143 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	ELECTRODE PLATE AND PREPARATION METHOD THEREFOR, AND SECONDARY BATTERY, BATTERY MODULE, BATTERY PACK AND ELECTRIC APPARATUS
WO 2023211011 A1	LG ENERGY SOLUTION LTD	PRISMATIC SECONDARY BATTERY WITH HEAT ABSORBER EMBEDDED THEREIN
WO 2023191270 A1	LG ENERGY SOLUTION LTD	GEL POLYMER ELECTROLYTE COMPOSITION ATTAINING SHORTENED CROSSLINKING TIME, SECONDARY BATTERY COMPRISING SAME, AND MANUFACTURING METHOD FOR SECONDARY BATTERY
WO 2023193230 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	ELECTROLYTE SOLUTION, SECONDARY BATTERY, BATTERY MODULE, BATTERY PACK, AND ELECTRIC DEVICE
WO 2023201491 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	ELECTRODE ACTIVE MATERIAL AND PREPARATION METHOD THEREFOR, POLE PIECE AND BATTERY
WO 2023211033 A1	LG ENERGY SOLUTION LTD	BATTERY PACK WITH ENHANCED COOLING PERFORMANCE
WO 2023193335 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	BATTERY CELL, BATTERY, AND ELECTRIC APPARATUS
WO 2023184541 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	BATTERY PACK AND ELECTRIC DEVICE COMPRISING SAME

WO 2023184335 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	POSITIVE ELECTRODE SHEET, SECONDARY BATTERY, AND ELECTRICAL APPARATUS
WO 2023184903 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	ELECTRODE ASSEMBLY, BATTERY CELL, BATTERY, ELECTRIC DEVICE, WINDING DEVICE, AND METHOD
WO 2023200082 A1	LG ENERGY SOLUTION LTD	LITHIUM SECONDARY BATTERY ALLOWING EASY STATE ESTIMATION
WO 2023184304 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	NEW POSITIVE ELECTRODE PLATE, SECONDARY BATTERY, BATTERY MODULE, BATTERY PACK AND ELECTRIC DEVICE
WO 2023184496 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	SECONDARY BATTERY, BATTERY MODULE, BATTERY PACK, AND ELECTRIC DEVICE

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SUPERCONDENSADORES

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2023228196 A1	CHIRAL LTD	A METHOD FOR CONTROLLING A WORK FUNCTION OF AT LEAST ONE SURFACE, ELECTRODE, ELECTROCHEMICAL CELL ENERGY STORAGE DEVICE, PHOTOVOLTAIC CELL AND ELECTRICAL COMPONENT THEREOF
WO 2023213932 A1	KAYHAN SWISS GMBH	POLYMER SYNTHETIC STONES WITH THE ABILITY TO STORE ELECTRICAL ENERGY, AND THEIR MANUFACTURING
WO 2023238926 A1	MAXELL LTD	ELECTRODE STACK, METHOD FOR PRODUCING SAME AND ELECTROCHEMICAL ELEMENT
WO 2023243336 A1	GS YUASA INT LTD	NEGATIVE ELECTRODE FOR ENERGY STORAGE ELEMENT AND ENERGY STORAGE ELEMENT
WO 2023195434 A1	GS YUASA INT LTD	POWER STORAGE ELEMENT AND POWER STORAGE DEVICE
WO 2023223125 A1	SEMICONDUCTOR ENERGY LAB	ELECTRIC POWER STORAGE MODULE
WO 2023189249 A1	TOYOTA JIDOSHOKKI KK	POWER STORAGE DEVICE
WO 2023216004 A1	UNIV CONCEPCION	METHOD FOR PRODUCING GRAPHENE-BASED MATERIALS AND USE THEREOF IN THE MANUFACTURE OF ELECTRODES FOR ELECTROCHEMICAL CAPACITORS

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SISTEMAS DE RECUPERACIÓN DE ENERGÍA; FRENOS REGENERATIVOS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2023242423 A1	NEW H POWERTRAIN HOLDING S L U	METHOD AND SYSTEM FOR CONTROLLING A HYBRID MOTOR VEHICLE DURING DECELERATIONS
WO 2023238119 A1	NENNER WEIL MICHAEL	ELECTRICAL MOTOR TRANSMISSION
WO 2023186672 A1	JAGUAR LAND ROVER LTD	CONTROLLING THERMAL ENERGY FROM VEHICLE REGENERATIVE BRAKING
WO 2023196164 A1	UNIV IOWA RES FOUND	USING 'DYNAMIC REGENERATIVE BRAKING' TO ENHANCE CRASH AVOIDANCE
WO 2023215216 A1	CONS METCO INC	VEHICLE ELECTRICAL POWER APPARATUS
WO 2023213955 A2	LEIBER THOMAS	DRIVING DYNAMICS SYSTEM, VEHICLE AND METHOD FOR OPERATING A

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MÁQUINAS ELÉCTRICAS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2023232566 A1	RENAULT SAS	HALF-HOUSING FOR AN ELECTRIC MOTOR
WO 2023233247 A1	INVACTION S R L	ELECTRIC MACHINE DEVICE, USE AND OPERATING METHOD
WO 2023227279 A1	VALEO SYSTEMES DE CONTROLE MOTEUR	ACTUATOR FOR A PARKING LOCK SYSTEM OF A VEHICLE GEARBOX
WO 2023213579 A1	RENAULT SAS	CASING FOR A MECHANICAL OR ELECTRICAL PART, AND OIL PUMP
WO 2023202775 A1	SCHUNK TRANSIT SYS GMBH	DISSIPATION DEVICE AND METHOD FOR DISSIPATING ELECTRICAL CURRENTS
WO 2023222532 A1	ZAHNRADFABRIK FRIEDRICHSHAFEN	DUAL-LAYER WAVE WINDING MAT AND POWER-DEPENDENT COMPONENT HAVING A DUAL-LAYER WAVE WINDING MAT
WO 2023186210 A1	SCHAEFFLER TECHNOLOGIES AG	STATOR
WO 2023227464 A1	KASPER ROLAND	WINDING, ELECTRIC MACHINE AND MANUFACTURING METHOD
WO 2023187390 A1	SAIETTA GROUP PLC	A ROTOR FOR AN ELECTRICAL MACHINE
WO 2023227616 A1	SOGEFI AIR & COOLING	FLUID CIRCULATION MODULE HAVING AT LEAST TWO PUMPS AND COOLING SYSTEM HAVING AT LEAST ONE SUCH MODULE
WO 2023214302 A1	TORINO POLITECNICO	ELECTRIC MOTOR ADAPTED TO BE MOUNTED IN A WHEEL OF A VEHICLE AND BRAKING SYSTEM THEREOF
WO 2023195502 A1	KOKUSAI KEISOKUKI KK	ELECTRIC ACTUATOR AND ELECTRIC MOBILITY VEHICLE
WO 2023204958 A1	CANOO TECH INC	COST-EFFECTIVE ELECTRIC VEHICLE DRIVE UNIT COOLING AND LUBRICATION SYSTEM
WO 2023223359 A1	ARYABHATTA MOTORS PRIVATE LTD	A HUBLESS RIM ASSEMBLY AND A METHOD THEREOF
WO 2023189824 A1	NIPPON STEEL CORP	ROTATING ELECTRIC MACHINE
WO 2023195439 A1	NIHON PARKERIZING	ELECTRONIC COMPONENT
WO 2023195548 A1	VEHICLE ENERGY JAPAN INC	BATTERY CONTROL DEVICE AND BATTERY SYSTEM
WO 2023225478 A2	UNIV CALIFORNIA	AN AIR-CORE-STATOR ELECTRIC MACHINE WITH SUPERCONDUCTING CIRCUITS AND SHIELDING

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CONVERTIDORES, INVERSORES

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2023237502 A1	VALEO EAUTOMOTIVE FRANCE SAS	ELECTRONIC POWER DEVICE FOR A DRIVE DEVICE OF A MOBILITY VEHICLE
WO 2023237405 A1	BRUSA HYPOWER AG	CHARGING SYSTEM, VOLTAGE CONVERTER UNIT, AND ACCUMULATOR UNIT
WO 2023243138 A1	MITSUBISHI HEAVY IND LTD	SUBSTRATE FOR POWER MODULE
WO 2023243169 A1	HITACHI ASTEMO LTD	POWER CONVERSION DEVICE
WO 2023208531 A1	SIEMENS MOBILITY GMBH	METHOD FOR CONTROLLING AN ELECTRODYNAMIC BRAKE APPARATUS OF A RAIL VEHICLE
WO 2023196767 A1	TEXAS INSTRUMENTS INC	PULSE WIDTH MODULATOR FOR A STACKED HALF BRIDGE
WO 2023217470 A1	BAYERISCHE MOTOREN WERKE AG	SUPPLYING POWER TO A LV ONBOARD ELECTRICAL SUBSYSTEM OF A VEHICLE FROM THE HV ONBOARD ELECTRICAL SUBSYSTEM THEREOF
WO 2023202867 A1	MAGNA POWERTRAIN GMBH & CO KG	METHOD FOR PRODUCING AN INVERTER AND INVERTER
WO 2023215657 A1	TRANSPHORM TECH INC	CASCADE NORMALLY OFF SWITCH WITH DRIVER AND SELF BIAS
WO 2023186368 A1	BOSCH GMBH ROBERT	CONTROL DEVICE FOR A DC-DC CONVERTER AND METHOD FOR CONTROLLING A DC-DC CONVERTER
WO 2023227205 A1	HUAWEI DIGITAL POWER TECH CO LTD	TECHNIQUES FOR POWER CONVERSION IN SINGLE-PHASE AND MULTI-PHASE POWER NETWORKS
WO 2023210439 A1	HINO MOTORS LTD	CRUISING RANGE CALCULATION DEVICE AND METHOD FOR CALCULATING CRUISING RANGE
WO 2023229476 A1	EUROLOOP SP Z O O	ELECTRIC VEHICLE DC CHARGER
WO 2023219595 A1	ASELSAN ELEKTRONIK SANAYI VE TICARET ANONIM SIRKETI	TRANSFORMERLESS 3-PHASE, 3-LEVEL T-TYPE NPC UNFOLDING INVERTER WITH 3 HF SWITCHES ON DC SIDE
WO 2023222963 A1	NIDEC PSA EMOTORS	DEVICE FOR MAKING AN ELECTRICAL CONNECTION BETWEEN AN ELECTRIC MOTOR AND AN INVERTER
WO 2023186423 A1	BOSCH GMBH ROBERT	DC/DC CONVERTERS WITH COMBINED CURRENT AND VOLTAGE REGULATION
WO 2023186878 A1	VALEO EAUTOMOTIVE FRANCE SAS	METHOD FOR ESTIMATING AN OUTPUT ELECTRIC CURRENT OF A POWER CONVERTER
WO 2023187976 A1	HITACHI ASTEMO LTD	TRANSFORMATION CONTROL DEVICE AND POWER CONVERSION DEVICE
WO 2023204081 A1	DENSO CORP	LOAD DRIVING DEVICE
WO 2023205550 A1	PARKER HANNIFIN CORP	BIDIRECTIONAL ISOLATED HIGH VOLTAGE DC-DC CONVERTER
WO 2023227278 A1	BOSCH GMBH ROBERT	ELECTRIC CIRCUIT FOR AN ELECTRIC DRIVE, AND METHOD FOR OPERATING THE ELECTRIC CIRCUIT
WO 2023228639 A1	SANDEN CORP	INVERTER DEVICE AND ELECTRIC COMPRESSOR PROVIDED WITH SAME
WO 2023192396 A1	TAE TECH INC	SYSTEMS, DEVICES, AND METHODS FOR PULSE CHARGING AND PULSE HEATING OF RECHARGEABLE ENERGY SOURCES
WO 2023203901 A1	FCC KK	ELECTRIC VEHICLE
WO 2023228642 A1	SANDEN CORP	INVERTER DEVICE AND ELECTRIC COMPRESSOR COMPRISING SAME
WO 2023228649 A1	SANDEN CORP	ELECTRIC COMPRESSOR AND METHOD FOR MANUFACTURING SAME
WO 2023218059 A1	PRODRIVE TECH INNOVATION SERVICES B V	POLYPHASE CONVERTER WITH HIGH-FREQUENCY ISOLATION
WO 2023187274 A1	NIDEC PSA EMOTORS	METHOD FOR CONTROLLING AN INVERTER COMPRISING SELECTING A SAFETY MODE
WO 2023189182 A1	DENSO CORP	DC-DC CONVERTER CONTROL DEVICE AND PROGRAM
WO 2023228436 A1	MITSUBISHI ELECTRIC CORP	ELECTRIC POWER CONVERSION DEVICE
WO 2023200103 A1	LS ELECTRIC CO LTD	DC-DC CONVERTER OF POWER CONVERSION SYSTEM

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RECARGA DE BATERÍAS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2023232214 A1	SOZEN MURAT	INTELLIGENT ELECTRICAL VEHICLE CHARGING INFRASTRUCTURE
WO 2023237633 A1	SCHNEIDER THORSTEN	DIAGNOSTICS FOR ELECTRICAL VEHICLE
WO 2023237621 A1	BOSCH GMBH ROBERT	WALL-MOUNTED CHARGING STATION FOR ELECTRIC VEHICLES
WO 2023237963 A1	STELLANTIS EUROPE S P A	SYSTEM FOR CHARGING ELECTRIC VEHICLES
WO 2023242486 A1	STELLANTIS AUTO SAS	ONBOARD CHARGER FOR USE WITH DIFFERENT TERMINAL VOLTAGES, AND SYSTEM, VEHICLE AND METHOD BASED ON SUCH A CHARGER
WO 2023232755 A1	BAYERISCHE MOTOREN WERKE AG	ELECTRIC VEHICLE WITH SOLAR PANELS
WO 2023237501 A1	VALEO EAUTOMOTIVE GERMANY GMBH	ELECTRIC MACHINE CONTROL CIRCUIT, ELECTRIC DRIVE ASSEMBLY SYSTEM AND VEHICLE
WO 2023194859 A1	PENCZEK JAN	ELECTRIC VEHICLE CHARGER AND NETWORK OF ELECTRIC VEHICLE CHARGERS
WO 2023199100 A1	VOLVO TRUCK CORP	SMART PREDICTIVE BATTERY DOCK AND SWAP MODULE TO RECHARGE A COMMERCIAL VEHICLE WHEN THE COMMERCIAL VEHICLE IS IN MOTION
WO 2023220371 A1	ENEL X WAY S R L	SYSTEM AND METHOD FOR AUTHORIZING AN ELECTRIC VEHICLE TO RECEIVE CHARGE AT A CHARGING STATION
	KLEINERMAN ROMAN	
WO 2023222496 A1	NEXT E GO MOBILE SE	BATTERY FOR A MOTOR VEHICLE, MOTOR VEHICLE, AND METHOD FOR CHARGING SUCH A BATTERY
WO 2023243942 A1	STANDARD ENERGY INC	APPARATUS AND METHOD FOR CHARGING ELECTRIC VEHICLES BY USING VIB ESS
WO 2023194000 A1	MAHLE INT GMBH	STATIONARY INDUCTIVE CHARGING DEVICE
WO 2023194011 A1	DRAEXLMAIER LISA GMBH	BUS-BAR HAVING ACTIVE COOLING
WO 2023208900 A1	CARICO GMBH	APPARATUS FOR SIMULATING A BATTERY-ELECTRIC VEHICLE AT A CHARGING STATION
WO 2023223160 A1	STELLANTIS EUROPE S P A	RECHARGING UNIT FOR AN ELECTRICALLY POWERED MOTOR VEHICLE
WO 2023194012 A1	DRAEXLMAIER LISA GMBH	BUS BAR WITH PASSIVE COOLING
WO 2023222338 A1	DRAEXLMAIER LISA GMBH	METHOD FOR DETERMINING THE TEMPERATURE IN A CHARGING SOCKET OF AN ELECTRIC VEHICLE, AND CHARGING SOCKET FOR AN ELECTRIC VEHICLE
WO 2023198465 A1	BOSCH GMBH ROBERT	METHOD FOR DETERMINING A SETPOINT VALUE OF A CHARGING OUTPUT FOR CHARGING A BATTERY OF A VEHICLE BY MEANS OF A CHARGING DEVICE
WO 2023239017 A1	PARK IN SOK	ELECTRIC VEHICLE CHARGING SYSTEM IN PARKING LOT
WO 2023243895 A1	PMGROW CORP	BATTERY CHARGING VOUCHER PROVISION METHOD
WO 2023194155 A1	MAHLE INT GMBH	INDUCTION CHARGING UNIT AND ENERGY TRANSMISSION SYSTEM COMPRISING SAME
WO 2023238134 A1	BATTERI THOMAS LTD	A MOBILE AUTONOMOUS CHARGING SYSTEM FOR ELECTRIC VEHICLES AND METHOD OF USING THEREOF
WO 2023194151 A1	MAHLE INT GMBH	INDUCTION CHARGING APPARATUS, VEHICLE INDUCTION CHARGING APPARATUS, ENERGY TRANSMITTER APPARATUS, COMBINATION OF AN ENERGY TRANSMITTER APPARATUS AND A BATTERY ELECTRIC VEHICLE, AND METHOD FOR BRINGING A BATTERY ELECTRIC VEHICLE EQUIPPED WITH A VEHICLE INDUCTION CHARGING APPARATUS TO AN INDUCTION CHARGING APPARATUS
WO 2023198462 A1	BOSCH GMBH ROBERT	METHOD FOR DETERMINING A CHARGING POWER FOR CHARGING A BATTERY OF A VEHICLE BY MEANS OF A CHARGING DEVICE
WO 2023194004 A1	MAHLE INT GMBH	STATIONARY INDUCTIVE CHARGING DEVICE
WO 2023198428 A1	MERCEDES BENZ GROUP AG	METHOD FOR ASSIGNING VEHICLES TO CHARGING STATIONS, AND CHARGING SYSTEM
WO 2023227285 A1	VOLKSWAGEN AG	METHOD FOR DETERMINING THE LOCATION OF A CHARGING STATION AND DETERMINING THE PARKING POSITION OF AN ELECTRIC VEHICLE

WO 2023227515 A1	NEXT E GO MOBILE SE	METHOD FOR OPERATING A HYBRID ENERGY STORAGE SYSTEM, HYBRID ENERGY STORAGE SYSTEM AND MOTOR VEHICLE
WO 2023234234 A1	HITACHI ASTEMO LTD	VEHICLE CHARGING DEVICE, VEHICLE CHARGING CONTROL METHOD, AND VEHICLE CHARGING SYSTEM
WO 2023194383 A1	MAHLE INT GMBH	INDUCTION CHARGING DEVICE
WO 2023236918 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	CHARGING COMPARTMENT AND BATTERY SWAPPING SYSTEM
WO 2023243893 A1	PMGROW CORP	PATH SCHEDULING METHOD FOR MOVING OBJECT ON BASIS OF STATE OF BATTERY
WO 2023187815 A1	TVS MOTOR CO LTD	METHOD AND SYSTEM FOR MANAGING BATTERIES IN A VEHICLE
WO 2023186421 A1	BOSCH GMBH ROBERT	CHARGING CIRCUIT AND METHOD FOR CHARGING A TRACTION BATTERY, ELECTRIC VEHICLE
WO 2023189724 A1	TOYOTA CHUO KENKYUSHO KK	BATTERY MANAGEMENT PROGRAM AND BATTERY MANAGEMENT APPARATUS
WO 2023194048 A1	MAHLE INT GMBH	STATIONARY INDUCTIVE CHARGING DEVICE
WO 2023229414 A1	LG ENERGY SOLUTION LTD	BATTERY SWAPPING STATION
WO 2023209281 A1	KEMPOWER OYJ	SYSTEM AND METHOD FOR DYNAMIC CHARGING OF BATTERY DRIVEN VEHICLES AND A SWITCH ARRANGEMENT IN SUCH A SYSTEM
WO 2023239018 A1	PARK IN SOK	ELECTRIC VEHICLE BATTERY CHARGING DEVICE AND CHARGING METHOD THEREOF
WO 2023215255 A1	ENPHASE ENERGY INC	METHODS AND APPARATUS FOR PROVIDING CHARGING-RELATED BENEFITS TO AN ELECTRIC VEHICLE USER
WO 2023215691 A1	FCA US LLC	INTEGRATION OF DIRECT CURRENT BOOST CHARGING IN A CHARGING MODULE FOR ELECTRIFIED VEHICLE HIGH VOLTAGE BATTERY SYSTEMS
WO 2023225419 A1	CANOO TECH INC	SYSTEM AND METHOD FOR CHARGING VEHICLE'S HIGHER-VOLTAGE POWER SUPPLY USING LOWER-VOLTAGE CHARGING STATION
WO 2023220420 A1	R A PHILLIPS IND INC	SYSTEM AND METHOD FOR CHARGING AN AUXILIARY BATTERY OF A VEHICLE
WO 2023200133 A1	LS AUTOMOTIVE TECH CO LTD	VEHICULAR SOLAR POWER CONTROL SYSTEM
WO 2023218471 A1	TVS MOTOR CO LTD	A SYSTEM FOR MANAGING POWER IN A VEHICLE AND METHOD THEREOF
WO 2023209030 A2	GE T GMBH	ENERGY SUPPLY SYSTEM AND METHOD FOR OPERATING AN ENERGY SUPPLY SYSTEM

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CAMBIO DE BATERÍAS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2023236919 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	BATTERY SWAPPING STATION AND BATTERY SWAPPING METHOD
WO 2023233416 A1	TVS MOTOR CO LTD	EXTENDING RANGE OF ELECTRIC VEHICLES
WO 2023211059 A1	LG ENERGY SOLUTION LTD	SWAPPABLE BATTERY MODULE
WO 2023211058 A1	LG ENERGY SOLUTION LTD	REPLACEABLE BATTERY MODULE
WO 2023211378 A1	SUN MOBILITY PTE LTD	PRE-AUTHENTICATION OF BATTERY PACK(S) FOR AN UPCOMING SWAP AT A BATTERY CHARGING AND SWAPPING STATION
WO 2023198000 A1	CONTEMPORARY AMPEREX ENERGY SERVICE TECH LIMITED	METHOD FOR SWAPPING BATTERY OF POWER CONSUMING DEVICE AND BATTERY SWAP STATION

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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.



* La OEPM cuenta con más de 150 examinadores de patentes especializados en los diversos sectores tecnológicos y en la búsqueda de información científico-técnica.

** Los Informes Tecnológicos de Patentes o ITPs son estudios a la medida que incluyen una búsqueda de patentes y de literatura científica con un análisis en profundidad de los documentos más relevantes. Su coste es de 440 euros más IVA.