

Noticias

El 25 de noviembre, el presidente del Gobierno, Pedro Sánchez, recibió en la Moncloa al consejero delegado de [Stellantis](#), Carlos Tavares, para analizar los retos del sector del automóvil, el impulso al vehículo electrificado y los planes de inversión del grupo.

El presidente del Gobierno puso en valor la apuesta decidida del Ejecutivo por la electrificación del sector de la automoción, con más de 5.500 millones de euros de fondos públicos destinados a la reindustrialización del sector, en la que destaca el PERTE del Vehículo Eléctrico y Conectado. La última convocatoria de este proyecto estratégico (PERTE VEC III) se resolverá a finales de año. También está previsto el lanzamiento de una cuarta convocatoria, dotada con 1.250 millones de euros próximamente.

El grupo Stellantis, que incluye marcas como Citroën, Peugeot, Opel, Fiat, Alfa Romeo o Jeep, entre otras, produjo el año pasado más de un millón de vehículos en España, y ha sido adjudicatario de 357,8 millones de euros, a través de diferentes convocatorias del PERTE VEC y del PERTE de descarbonización en diversos proyectos de sus tres plantas en España (Vigo, Madrid y Figueruelas (Zaragoza)).

El 12 de diciembre el Ministro de Industria y Turismo, Jordi Hereu se reunió con el presidente de [ANFAC](#), Josep María Recasens, para tratar el Proyecto de Ley de Industria y analizar la situación del sector de la automoción.

Durante el encuentro, se analizó la situación del sector de la automoción en España, así como la reciente firma del acuerdo entre la empresa Stellantis y el fabricante de baterías CATL, que se viene a sumar a acuerdos como el de Ebro

Motors y Chery o a la gigafactoría de baterías de PowerCo, filial de Volkswagen, en Sagunto.

Por último, abordaron las medidas para seguir impulsando la demanda del vehículo eléctrico conectado en España y la propuesta del canciller alemán, Olaf Scholz, de implementar un plan de ayudas europeas para la adquisición de vehículos eléctricos.

El 24 de diciembre se publicó en el [BOE nº 309](#) el Real Decreto-ley 9/2024, de 23 de diciembre, cuya Disposición final décima anuncia una nueva ampliación del plazo de vigencia del programa MOVES III, hasta el 30 de junio de 2025.

[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 |
|--------------------------------|---|--|
| WO2024239974A1 | D AUS ENERGY STORAGE TECH XIAN CO LTD [CN] | Battery pack and electric vehicle |
| WO2024220126A1 | GARRETT TRANSPORTATION I INC [US] | Battery thermal controls for batteries used in electric vehicles and power wall applications |
| WO2024258934A1 | MIDTRONICS INC [US] | Electric vehicle maintenance device for low voltage electrical system |
| WO2024225574A1 | LG ENERGY SOLUTION LTD [KR] | Battery pack, charging method therefor and electric vehicle comprising same |
| WO2024225998A1 | BUKAN SADIN [TR] | Battery cooling system that can work synchronously as an integrated battery and dynamo for electric vehicles |
| WO2024197907A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Silicon-containing compound, electrolyte for secondary battery, and secondary battery and electric device |
| WO2024252187A1 | MILOSIU JOHANN MARIUS [DE] | Charging method for electric cars, and electric cars with interchangeable batteries |
| WO2024197793A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Battery module, secondary battery, and electric device |
| WO2024248253A1 | LG ENERGY SOLUTION LTD [KR] | Battery array |
| WO2024212188A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Electrolyte solution, battery cell, battery, and electric device |
| WO2024242057A1 | PANASONIC IP MAN CO LTD [JP] | Electrode for secondary batteries, and secondary battery |
| WO2024201588A1 | NISSAN MOTOR [JP] | Control device and method for determining allowable output power of battery |
| WO2024204146A1 | TOKYO SEIMITSU CO LTD [JP] | Charge/discharge test system |
| WO2024258144A1 | SK ON CO LTD [KR] | Electrode for lithium metal battery and lithium metal battery comprising same |
| WO2024263700A1 | FCA US LLC [US] | Battery pack having structural support assembly for electrified vehicle |
| WO2024225852A1 | LG CHEMICAL LTD [KR] | Cathode active material, cathode and lithium secondary battery |
| WO2024248255A1 | KOREA ZINC CO LTD [KR] | Treatment method of waste battery |
| WO2024205174A1 | SAMSUNG SDI CO LTD [KR] | Lithium metal battery, and method for manufacturing lithium metal battery anode included therein |
| WO2024210357A2 | LG ENERGY SOLUTION LTD [KR] | Separator for electrochemical device and electrochemical device comprising same |
| WO2024228601A1 | LG ENERGY SOLUTION LTD [KR] | Separator for electrochemical device and electrochemical device comprising same |
| WO2024221838A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Polymer and preparation method therefor, gel polymer electrolyte, battery, and electrical device |
| WO2024221262A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Electrolyte solution, metal battery and preparation method therefor, and electrical device |
| WO2024237425A1 | LG ENERGY SOLUTION LTD [KR] | Automatic separation jig for manufacturing battery module |
| WO2024237483A1 | LS E MOBILITY SOLUTIONS CO LTD [KR] | Battery disconnect apparatus |
| WO2024217014A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Positive electrode active material for sodium metal battery, positive electrode sheet, battery cell, sodium metal battery, and electric device |

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| WO2024256489A1 | AMPERE SAS [FR] | Solid or semi-solid electrolyte for na-ion battery |
| WO2024258005A1 | LG ENERGY SOLUTION LTD [KR] | Battery pack with reduced temperature deviation |
| WO2024252490A1 | TBK CO LTD [JP] | Battery temperature adjustment system |
| WO2024200725A1 | VALEO EMBRAYAGES [FR] | Cover for a battery of a mobility vehicle |
| WO2024202784A1 | KOBE STEEL LTD [JP] | Vehicular battery case |
| WO2024253083A1 | MAXELL LTD [JP] | Electrode for solid-state batteries, and solid-state battery |
| WO2024197667A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Electrolyte, secondary battery, and electrical apparatus |
| WO2024216724A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Battery system and electric device |
| WO2024244161A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Battery cell, battery, and electrical device |
| WO2024225735A1 | LG ENERGY SOLUTION LTD [KR] | Battery module |
| WO2024259665A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Battery supporting mechanism and battery heating device |
| WO2024210345A1 | SK ON CO LTD [KR] | Composite cathode for all-solid-state lithium secondary battery, and all-solid-state lithium secondary battery including same |
| WO2024241999A1 | TDK CORP [JP] | Cured product for lithium ion secondary batteries, negative electrode for lithium ion secondary batteries, and lithium ion secondary battery |
| WO2024259653A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Battery adhesive bonding device and battery adhesive bonding method |
| WO2024210335A1 | SK ON CO LTD [KR] | Secondary battery |
| WO2024233993A1 | UNIV TEXAS [US] | Positive electrodes for rechargeable batteries |
| WO2024197491A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Composite separator, secondary battery, and electrical apparatus |
| WO2024204375A1 | IBIDEN CO LTD [JP] | Heat transfer suppressing sheet, method for manufacturing same, and battery module |
| WO2024203702A1 | KRI INC [JP] | Lithium ion secondary battery and method for using lithium ion secondary battery after deterioration |
| WO2024202580A1 | PANASONIC IP MAN CO LTD [JP] | Battery analysis system, battery analysis method, battery analysis program, and storage medium in which battery analysis program is stored |
| WO2024225854A1 | LG CHEMICAL LTD [KR] | Cathode active material, cathode and lithium secondary battery |
| WO2024219337A1 | VEHICLE ENERGY JAPAN INC [JP] | Battery control device and vehicle control device |
| WO2024250149A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Secondary battery and electric device |
| WO2024225857A1 | LG CHEMICAL LTD [KR] | Cathode active material, cathode, and lithium secondary battery |
| WO2024234585A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Heat exchange system, battery and control method |
| WO2024252491A1 | TBK CO LTD [JP] | Battery cooling/heating device |
| WO2024225853A1 | LG CHEMICAL LTD [KR] | Cathode active material, cathode and lithium secondary battery |
| WO2024245751A1 | VOLKSWAGEN AG [DE] | Method for operating a battery system |
| WO2024210254A1 | J&S CO LTD [KR] | Cooling pipe for electric vehicle battery |
| WO2024239678A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Battery and electrical device |
| WO2024250144A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Secondary battery and electric device |
| WO2024215302A1 | SERINUS LABS INC [US] | Battery cell thermal failure mitigation |
| WO2024244397A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Battery and electric device |
| WO2024253322A1 | SK ON CO LTD [KR] | Battery cell and battery cell manufacturing method |
| WO2024198927A1 | BYD CO LTD [CN] | Support assembly, battery pack, and vehicle |

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| WO2024216490A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Electrolyte, secondary battery, and electrical apparatus |
| WO2024257971A1 | LG ENERGY SOLUTION LTD [KR] | Battery diagnostic device, and operation method therefor |
| WO2024244313A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Gel polymer electrolyte, battery and electric device |
| WO2024243903A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Battery cell, preparation method therefor, battery, and electric device |
| WO2024250136A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Non-aqueous electrolyte, secondary battery, and electrical apparatus |
| WO2024214339A1 | AESC JAPAN LTD [JP] | Control device, battery performance estimation method, and program |
| WO2024225545A1 | SAMSUNG SDI CO LTD [KR] | Negative electrode for all-solid-state rechargeable batteries and all-solid-state rechargeable batteries |
| WO2024227052A1 | ELECTRIC POWER SYSTEMS INC [US] | Battery module systems, assemblies, and methods of manufacture |
| WO2024250666A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Secondary battery and electric device comprising same |
| WO2024246719A1 | SEMICONDUCTOR ENERGY LAB [JP] | Secondary battery, electronic apparatus, and vehicle |
| WO2024240807A1 | IEE SA [LU] | Flexible Battery Expansion Sensor for Rechargeable Battery |
| WO2024216723A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Battery system and electrical device |
| WO2024248468A1 | LG ENERGY SOLUTION LTD [KR] | Vehicle |
| WO2024259885A1 | EVE ENERGY CO LTD [CN] | Battery module and battery pack |
| WO2024254932A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Case, battery and electric device |
| WO2024205258A1 | LG ENERGY SOLUTION LTD [KR] | Pre-dispersed solution, electrode composition, electrode slurry, electrode, and lithium-ion secondary battery |
| WO2024236154A1 | TOTALENERGIES ONETECH [FR] | Battery cooling system incorporating a dielectric fluid without forced convection |
| WO2024261077A1 | DUKOSI LTD [GB] | A communications system for monitoring an electric battery system |
| WO2024216945A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Battery system and electrical device |
| WO2024212495A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Carbon fiber pole piece, lithium metal battery, battery module, battery pack and, electric apparatus |
| WO2024197461A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Use of compound as electrolyte additive, electrolyte, battery and electrical apparatus |
| WO2024225851A1 | LG CHEMICAL LTD [KR] | Cathode active material, cathode, and lithium secondary battery |
| WO2024244330A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Composite current collector, negative electrode sheet, secondary battery, electric device and preparation method |
| WO2024207749A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Battery cell, battery, and electric device |
| WO2024234652A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Battery separator and preparation method therefor, and secondary battery and electric device |
| WO2024246281A1 | AMPERE SAS [FR] | Heat exchanger, and associated electronic system and motor vehicle |
| WO2024239561A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Anode piece, battery, and electric apparatus |
| WO2024239155A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Battery cell and preparation method therefor, battery and electric apparatus |

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| WO2024219868A1 | SK ON CO LTD [KR] | Method for manufacturing electrode assembly for secondary battery and method for manufacturing secondary battery including same |
| WO2024244372A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Formation apparatus |
| WO2024216827A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Battery cell, battery, and electric device |
| WO2024250624A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Separator and preparation method therefor, secondary battery and electric device |
| WO2024258009A1 | LG ENERGY SOLUTION LTD [KR] | Battery diagnosis apparatus and method |
| WO2024242400A1 | LG ENERGY SOLUTION LTD [KR] | Method for manufacturing electrode, electrode manufactured thereby, and lithium secondary battery comprising same electrode |
| WO2024205034A1 | SAMSUNG SDI CO LTD [KR] | Lithium metal battery and method for producing same |
| WO2024242275A1 | SAMSUNG SDI CO LTD [KR] | Solid electrolyte membrane and all-solid-state rechargeable battery |
| WO2024245296A1 | BYD CO LTD [CN] | Controller, electric assembly, driving system, and vehicle |
| WO2024230119A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Battery and electric device having same |
| WO2024225860A1 | LG CHEMICAL LTD [KR] | Cathode active material, cathode, and lithium secondary battery |
| WO2024250635A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Electrode assembly, battery cell, battery and electric device |
| WO2024246682A1 | SEMICONDUCTOR ENERGY LAB [JP] | Battery module |
| WO2024230123A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Battery and electric device having same |
| WO2024198375A1 | BYD CO LTD [CN] | Battery pack and electrical apparatus |
| WO2024203325A1 | MURATA MANUFACTURING CO [JP] | Secondary battery and battery pack |
| WO2024205304A1 | LG CHEMICAL LTD [KR] | Solid electrolyte and all-solid-state battery comprising same |
| WO2024224951A1 | DENSO CORP [JP] | State of charge estimating device, state of charge estimating system, and state of charge estimating program |
| WO2024221754A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Battery and charging method therefor, battery management system, and electrical device |
| WO2024227391A9 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Solid-state electrolyte membrane and preparation method therefor, solid-state battery and electric device |
| WO2024261109A1 | FOGTEC BRANDSCHUTZ GMBH [DE] | Protective device for an energy store |
| WO2024239157A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Positive electrode sheet, battery, and electric device |
| WO2024219080A1 | GS YUASA INT LTD [JP] | Method for manufacturing power storage device |
| WO2024253249A1 | SAMSUNG SDI CO LTD [KR] | Slurry additive for rechargeable lithium battery, and electrode and rechargeable lithium battery including same |
| WO2024228502A1 | LG ENERGY SOLUTION LTD [KR] | Electrode assembly and method for manufacturing same |
| WO2024216478A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Battery cell, battery, and electric apparatus |
| WO2024204180A1 | IBIDEN CO LTD [JP] | Heat transfer suppression sheet and battery pack |
| WO2024200932A1 | STELLANTIS AUTO SAS [FR] | Device for checking the conformity of a battery pack element |
| WO2024204486A1 | GS YUASA INT LTD [JP] | Power storage device |
| WO2024204452A1 | MURATA MANUFACTURING CO [JP] | Positive electrode for secondary battery, and secondary battery |
| WO2024232742A1 | REXCEL CO LTD [KR] | Compound for electrolyte, compound for electrolyte additive, electrolyte material, electrolyte additive, electrolyte for secondary battery, and secondary battery |

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| WO2024217074A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Battery, battery preparation method, and electric device |
| WO2024259669A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Downward-pressing mechanism, pressure application apparatus and battery production device |
| WO2024202358A1 | MURATA MANUFACTURING CO [JP] | Solid state battery |
| WO2024216956A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Battery cell, battery, and electrical device |
| WO2024248237A1 | POSCO FUTURE M CO LTD [KR] | Method for preparing cathode active material for lithium secondary battery, cathode active material prepared using same, and lithium secondary battery comprising same |
| WO2024222451A9 | HUAWEI TECH CO LTD [CN] | Battery fixing device, battery formation and capacity grading method, battery and electronic device |
| WO2024202579A1 | PANASONIC IP MAN CO LTD [JP] | Battery analysis system, battery analysis method, battery analysis program, and storage medium having battery analysis program recorded thereon |
| WO2024262733A1 | LG ENERGY SOLUTION LTD [KR] | Negative electrode for lithium secondary battery, having improved safety against internal short circuit, lithium secondary battery comprising same, and lithium secondary battery system for same |
| WO2024253291A1 | LG ENERGY SOLUTION LTD [KR] | Battery pack and vehicle comprising same |
| WO2024228088A1 | SEMICONDUCTOR ENERGY LAB [JP] | Secondary battery |
| WO2024221753A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Battery, charging method therefor, battery management system and electrical device |
| WO2024205169A1 | SAMSUNG SDI CO LTD [KR] | Lithium metal battery and preparation method therefor |
| WO2024259684A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Heating structure, heating chamber and battery production apparatus |
| WO2024212522A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Battery cell, battery and electric device |
| WO2024219696A1 | LG ENERGY SOLUTION LTD [KR] | Battery pack |
| WO2024242237A1 | NAIEEL TECH INC [KR] | Lithium ion secondary battery |
| WO2024199483A1 | SVOLT ENERGY TECH CO LTD [CN] | Cooling structure for battery pack, and battery pack |
| WO2024260496A1 | BAYERISCHE MOTOREN WERKE AG [DE] | Sodium ion battery, method for producing a sodium ion battery and use of a sodium ion battery |
| WO2024224996A1 | PANASONIC IP MAN CO LTD [JP] | Secondary battery |
| WO2024215404A1 | CATERPILLAR INC [US] | Battery module monitoring and repurposing |
| WO2024258032A1 | LG ENERGY SOLUTION LTD [KR] | Battery module and battery pack including same |
| WO2024251248A1 | EVE POWER CO LTD [CN] | Battery capable of monitoring electrolyte, and battery pack |
| WO2024237192A1 | NIPPON KODOSHI CORP [JP] | Secondary battery support, solid electrolyte sheet, and secondary battery |
| WO2024207877A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Electrode assembly, battery cell, battery, and electric device |
| WO2024208953A1 | BASQUEVOLT S A U [ES] | Electrolyte comprising sulfonamides and lithium salts, electrochemical cell and battery comprising said electrolyte, method of preparation and uses thereof |
| WO2024216967A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Battery cell, battery and electric device |
| WO2024253575A1 | SODION ENERGY PTE LTD [SG] | Method of improving a sodium-ion battery and an improved sodium-ion battery |
| WO2024214991A1 | LG ENERGY SOLUTION LTD [KR] | Battery pack |
| WO2024216928A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Battery cell, battery and electric device |

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| WO2024253405A1 | LG ENERGY SOLUTION LTD [KR] | Battery cell thickness measuring device and lamination device for secondary batteries, including same |
| WO2024253290A1 | LG ENERGY SOLUTION LTD [KR] | Battery pack and vehicle comprising same |
| WO2024214483A1 | PANASONIC IP MAN CO LTD [JP] | Nonaqueous electrolyte secondary battery |
| WO2024214586A1 | PANASONIC IP MAN CO LTD [JP] | Secondary battery |
| WO2024258033A1 | LG ENERGY SOLUTION LTD [KR] | Battery module and battery pack including same |
| WO2024209887A1 | DENSO CORP [JP] | Battery diagnosis device and program |
| WO2024244419A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Pole piece, electrode assembly, battery cell, battery, and electrical device |
| WO2024253289A1 | LG ENERGY SOLUTION LTD [KR] | Battery module, battery pack, and vehicle comprising same |
| WO2024207812A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Battery separator and manufacturing method therefor, secondary battery, and electric device |
| WO2024262004A1 | NISSAN MOTOR [JP] | Positive electrode for secondary battery, secondary battery using same, and method for manufacturing secondary battery |
| WO2024225862A1 | LG CHEMICAL LTD [KR] | Positive electrode active material, positive electrode, and lithium secondary battery |
| WO2024221435A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Silicon-carbon composite material and preparation method therefor, negative electrode sheet, secondary battery, and electrical apparatus |
| WO2024252780A1 | PANASONIC IP MAN CO LTD [JP] | Battery manufacturing method and battery |
| WO2024238937A2 | UNIV TEXAS [US] | Modified inorganic solid-state electrolytes (sses) for lithium, sodium, and potassium batteries |
| WO2024244455A1 | SUNWODA MOBILITY ENERGY TECHNOLOGY CO LTD [CN] | Battery pack |
| WO2024212946A1 | HANGZHOU JIANDE SHENGKAI NEW MAT CO LTD [CN] | Metal negative electrode protective film, secondary battery and electric device |
| WO2024243727A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Lithium-sodium composite manganese-based material and preparation method therefor, positive electrode sheet, secondary battery, and electrical device |
| WO2024225572A1 | UNIV KOREA RES & BUS FOUND [KR] | Anode for lithium secondary battery and method for manufacturing same |
| WO2024225856A1 | LG CHEMICAL LTD [KR] | Cathode active material, cathode, and lithium secondary battery |
| WO2024225859A1 | LG CHEMICAL LTD [KR] | Positive electrode active material, positive electrode, and lithium secondary battery |
| WO2024207858A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Core-shell structure composite material, preparation method therefor, use thereof, secondary battery and electric device |
| WO2024224481A1 | HITACHI HIGH TECH CORP [JP] | Battery management device and battery management method |
| WO2024248417A1 | POSCO FUTURE M CO LTD [KR] | Anode active material for lithium secondary battery, manufacturing method therefor, and lithium secondary battery comprising same |
| WO2024258036A1 | SK ON CO LTD [KR] | Battery cell comprising cover including cooling passage, and battery device comprising same |
| WO2024230121A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Battery and electric device |
| WO2024225858A1 | LG CHEMICAL LTD [KR] | Cathode active material, cathode, and lithium secondary battery |
| WO2024208355A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Positive electrode material and battery comprising same, and electric device |
| WO2024212947A1 | HANGZHOU JIANDE SHENGKAI NEW MAT CO LTD [CN] | Negative-electrode enhancement film for secondary battery, and secondary battery and electric apparatus |
| WO2024225849A1 | LG CHEMICAL LTD [KR] | Cathode active material, cathode, and lithium secondary battery |
| WO2024239723A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Pressure sensor, battery cell, and electrical device |

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| WO2024219870A1 | SK ON CO LTD [KR] | Method for manufacturing electrode assembly for secondary battery and method for manufacturing secondary battery comprising same |
| WO2024203354A1 | IBIDEN CO LTD [JP] | Cover protector, method for manufacturing cover protector, and battery module |
| WO2024221297A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Electrode plate, electrode assembly, battery cell, battery and electrical device |
| WO2024216467A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Separator, battery cell, battery, and electric device |
| WO2024227343A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Modified solid-state electrolyte and preparation method therefor, solid-state battery, and electric device |
| WO2024212063A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Secondary battery and electrical device |
| WO2024259825A1 | EVE POWER CO LTD [CN] | Battery terminal post, battery top cover and battery cell |
| WO2024214921A1 | SAMSUNG SDI CO LTD [KR] | All-solid-state rechargeable battery and preparation method thereof |
| WO2024217024A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Battery cell, battery and electric device |
| WO2024207407A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Sodium ion battery, battery and electrical apparatus |
| WO2024221426A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Secondary battery and electric device |
| WO2024212527A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Separator film and preparation method therefor, and battery and electric device |
| WO2024206583A1 | UNIV CINCINNATI [US] | All-nonaqueous membrane-free flow batteries |
| WO2024229731A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Secondary battery and electric device |
| WO2024204973A1 | SAMSUNG SDI CO LTD [KR] | Solid electrolyte, preparation method thereof, and all-solid rechargeable battery comprising same |
| WO2024210472A1 | LG ENERGY SOLUTION LTD [KR] | Electrolyte for lithium-sulfur battery and lithium-sulfur battery containing same |
| WO2024216549A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Composite positive electrode material and preparation method therefor, positive electrode sheet, secondary battery and electrical apparatus |
| WO2024204545A1 | PANASONIC ENERGY CO LTD [JP] | Lithium secondary battery |
| WO2024219062A1 | GS YUASA INT LTD [JP] | Power storage device |
| WO202424772A1 | PANASONIC IP MAN CO LTD [JP] | Non-aqueous electrolyte secondary battery |
| WO2024213353A1 | SABIC GLOBAL TECHNOLOGIES BV [NL] | A tray and a system for housing a plurality of individual battery modules, and a method for cooling a plurality of battery modules housed in a tray of such a system |
| WO2024212109A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Electrolyte solution composition for lithium-sulfur battery, lithium-sulfur battery and preparation method therefor, and electric device |
| WO2024261769A1 | TVS MOTOR CO LTD [IN] | Battery pack |
| WO2024224942A1 | SONY GROUP CORP [JP] | Device, battery pack, and battery cell determination method |
| WO2024213355A1 | SABIC GLOBAL TECHNOLOGIES BV [NL] | A tray and a system for housing a plurality of individual battery modules, and a method for cooling a plurality of battery modules housed in a tray of such a system |
| WO2024225855A1 | LG CHEMICAL LTD [KR] | Cathode active material, cathode, and lithium secondary battery |
| WO2024237014A1 | NIPPON CATALYTIC CHEM IND [JP] | Non-aqueous electrolyte secondary battery |
| WO2024264026A1 | HONEYCOMB BATTERY COMPANY [US] | Composite particulates for lithium batteries |
| WO2024248571A1 | LG CHEMICAL LTD [KR] | Positive electrode active material, method for producing same, positive electrode comprising positive electrode active material, and lithium secondary battery comprising positive electrode active material |

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| WO2024203326A1 | MURATA MANUFACTURING CO [JP] | Secondary battery and battery pack |
| WO2024216996A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Fluoropolymer, conductive paste, positive electrode sheet, secondary battery, electrical device |
| WO2024219774A1 | POSCO FUTURE M CO LTD [KR] | Anode active material for lithium secondary battery, manufacturing method therefor, and lithium secondary battery containing comprising same |
| WO2024236853A1 | TOYOTA JIDOSHOKKI KK [JP] | Heat management system for vehicles and integrated switching valve |
| WO2024210467A1 | LG CHEMICAL LTD [KR] | Cathode active material, and cathode and lithium secondary battery comprising same |
| WO2024253282A1 | LG ENERGY SOLUTION LTD [KR] | Apparatus and method for controlling charging of battery |
| WO2024212052A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Isolation film and secondary battery and electric apparatus related thereto |
| WO2024205105A1 | POSCO HOLDINGS INC [KR] | Cathode active material for lithium secondary battery, method for preparing same, and lithium secondary battery comprising same |
| WO2024253568A1 | SCANIA CV AB [SE] | Battery pack and vehicle |
| WO2024205168A1 | SAMSUNG SDI CO LTD [KR] | Lithium battery and manufacturing method therefor |
| WO2024259659A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Heating system for battery module, heating equipment for battery module, and heating method for battery module |
| WO2024234248A1 | DOW SILICONES CORP [US] | Battery pack comprising a polysiloxane composite and methods for producing the same |
| WO2024205345A2 | POSCO HOLDINGS INC [KR] | Cathode active material for lithium secondary battery, manufacturing method therefor, and lithium secondary battery comprising same |
| WO2024243889A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Electrolyte, lithium ion battery and electrical apparatus |
| WO2024215048A1 | LG CHEMICAL LTD [KR] | Cathode active material, preparation method therefor, and cathode and lithium secondary battery which comprise same |
| WO2024241189A1 | SEMICONDUCTOR ENERGY LAB [JP] | Secondary battery and production method for secondary battery |
| WO2024240778A1 | NEWFREY LLC [US] | Thermal barrier for a battery apparatus |
| WO2024205294A1 | LG ENERGY SOLUTION LTD [KR] | Anode composition for lithium ion secondary battery, anode slurry, anode, and lithium ion secondary battery |
| WO2024240766A1 | AMPERE SAS [FR] | Battery pack for a motor vehicle and method for assembling same |
| WO2024225634A1 | LG CHEMICAL LTD [KR] | Electrode for lithium secondary battery, manufacturing method therefor, and lithium secondary battery including electrode |
| WO2024230138A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Battery and electric device |
| WO2024242273A1 | SAMSUNG SDI CO LTD [KR] | Solid electrolyte membrane and all-solid-state rechargeable battery |
| WO2024222152A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Battery and electric apparatus |
| WO2024212245A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Electrolyte, battery cell, battery and electrical apparatus |
| WO2024203324A1 | MURATA MANUFACTURING CO [JP] | Secondary battery |
| WO2024217291A1 | HUAWEI TECH CO LTD [CN] | Secondary battery and preparation method therefor and electric device |
| WO2024211560A1 | UNIV LELAND STANFORD JUNIOR [US] | An ultra-high areal loading mno2 electrode |
| WO2024224978A1 | PANASONIC IP MAN CO LTD [JP] | Nonaqueous electrolyte secondary battery and battery pack |
| WO2024205203A1 | SAMSUNG SDI CO LTD [KR] | Electrolyte and lithium battery comprising same |

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| WO2024203327A1 | MURATA MANUFACTURING CO [JP] | Secondary battery and battery pack |
| WO2024253463A2 | LG ENERGY SOLUTION LTD [KR] | Lithium secondary battery |
| WO2024225850A1 | LG CHEMICAL LTD [KR] | Positive electrode active material, positive electrode, and lithium secondary battery |
| WO2024197897A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Secondary battery and electric device |
| WO2024245433A1 | SVOLT ENERGY TECH CO LTD [CN] | Lamination apparatus |
| WO2024259655A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Pre-stacking device, battery processing apparatus and pre-stacking method |
| WO2024239342A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Secondary battery and electric device |
| WO2024236725A1 | NISSAN MOTOR [JP] | Battery control system and battery control method |
| WO2024231095A1 | BOSCH GMBH ROBERT [DE] | Charging device and charging method for an electrical energy store |
| WO2024241002A1 | ARKEMA FRANCE [FR] | Electrolyte with high lifsi concentration |
| WO2024213356A1 | SABIC GLOBAL TECHNOLOGIES BV [NL] | A tray and a system for housing at least one battery module and a method for cooling at least one battery module housed in a tray of a system |
| WO2024253461A1 | LG ENERGY SOLUTION LTD [KR] | Lithium secondary battery |
| WO2024239162A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Lithium ion secondary battery and electric device |
| WO2024212951A1 | HANGZHOU JIANDE SHENGKAI NEW MAT CO LTD [CN] | Electrolyte for lithium secondary battery and use thereof, lithium secondary battery and electric device |
| WO2024225861A1 | LG CHEMICAL LTD [KR] | Positive electrode active material, positive electrode, and lithium secondary battery |
| WO2024255189A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Negative electrode sheet and preparation method therefor, secondary battery, and electric device |
| WO2024204960A1 | LG ENERGY SOLUTION LTD [KR] | Gasket for delaying flame outbreak during thermal runaway and battery pack equipped with same |
| WO2024228594A1 | SK ON CO LTD [KR] | Ceramic sheet, method for preparing same, and all-solid secondary battery comprising same |
| WO2024237227A1 | MURATA MANUFACTURING CO [JP] | Secondary battery |
| WO2024244381A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Gas path apparatus and electrical device |
| WO2024216596A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Secondary battery and electric device |
| WO2024243988A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Formation device |
| WO2024232275A1 | NIPPON CATALYTIC CHEM IND [JP] | Non-aqueous electrolyte secondary battery |
| WO2024243898A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Positive electrode sheet and preparation method therefor, battery, and electric device |
| WO2024253278A1 | NEO BATTERY MAT KOREA CO LTD [KR] | Si-based anode active material for lithium secondary battery, and preparation method therefor |
| WO2024214988A2 | BTS ENG CO LTD [KR] | Apparatus for low-damage separation of electrode active materials from crushed waste secondary battery scrap thin films |
| WO2024200164A1 | CAMBRIDGE DISPLAY TECH LTD [GB] | Method of forming a composite structure and alkali metal or alkali earth metal battery comprising said composite structure |
| WO2024205176A1 | SAMSUNG SDI CO LTD [KR] | Lithium metal battery and manufacturing method therefor |
| WO2024215064A1 | LG CHEMICAL LTD [KR] | Positive electrode material, and positive electrode and lithium secondary battery comprising same |

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| WO2024216612A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Separator, secondary battery comprising same, and electrical apparatus |
| WO2024225498A1 | VIVA MOBILITY CO LTD [KR] | Expandable bms apparatus |
| WO2024202357A1 | MURATA MANUFACTURING CO [JP] | Solid state battery |
| WO2024205170A1 | SAMSUNG SDI CO LTD [KR] | Negative electrode for lithium metal battery, lithium metal battery comprising same, and method for manufacturing negative electrode for lithium metal battery |
| WO2024216472A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Battery cell, battery, and electrical apparatus |
| WO2024251850A1 | ERWIN QUARDER SYSTEMTECHNIK GMBH [DE] | Cooling component and method for producing same |
| WO2024228578A1 | LG CHEMICAL LTD [KR] | Compound, composite, and solid electrolyte and all-solid-state battery comprising same |
| WO2024261726A1 | VERKOR [FR] | Cell for an electric battery and method for manufacturing same |
| WO2024228449A1 | LG ENERGY SOLUTION LTD [KR] | Negative electrode active material, negative electrode, secondary battery, and method for producing negative electrode active material |
| WO2024216981A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Gel polymer electrolyte and preparation method therefor, battery, charging and discharging method of battery, and electric device |
| WO2024216468A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Separator, battery cell, battery, and electrical device |
| WO2024237244A1 | ENERGYWITH CO LTD [JP] | Liquid-type storage battery and battery pack |
| WO2024242372A1 | SK ON CO LTD [KR] | Secondary battery electrode, and secondary battery including same |
| WO2024258159A1 | LG CHEMICAL LTD [KR] | Lithium silicon oxide, negative electrode comprising same, and lithium secondary battery comprising negative electrode |
| WO2024252161A1 | NISSAN MOTOR [JP] | Electrode for non-aqueous electrolyte secondary battery |
| WO2024199530A1 | SVOLT ENERGY TECH CO LTD [CN] | Bottom plate assembly of battery case, battery case having same, and battery |
| WO2024226624A1 | UNIV VIRGINIA PATENT FOUNDATION [US] | High capacity rechargeable all active material electrode lithium-ion batteries with percolated networks of layered oxides |
| WO2024216471A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Separator, battery cell, battery, and electric device |
| WO2024213354A1 | SABIC GLOBAL TECHNOLOGIES BV [NL] | A tray and a system for housing a plurality of individual battery modules, and a method for cooling a plurality of battery modules housed in a tray of such a system |
| WO2024210526A1 | LG CHEMICAL LTD [KR] | Cathode active material, cathode containing same, and lithium secondary battery |
| WO2024212945A1 | HANGZHOU JIANDE SHENGKAI NEW MAT CO LTD [CN] | Negative electrode sheet for lithium secondary battery, manufacturing method for negative electrode sheet, and lithium secondary battery and electric device |
| WO2024237169A1 | MAXELL LTD [JP] | Solid electrolyte battery and method for manufacturing same |
| WO2024206957A2 | UNIGRID INC [US] | Electrolytes, electrolyte materials, and manufacturing thereof |
| WO2024229913A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Battery testing apparatus, voltage management method, battery cell and electrical device |
| WO2024205178A1 | SAMSUNG SDI CO LTD [KR] | Binder, anode comprising same, and lithium battery |
| WO2024242439A1 | CTNS CO LTD [KR] | Energy storage system having fire spreading prevention device |
| WO2024228571A1 | LG ENERGY SOLUTION LTD [KR] | Stack cell and method for manufacturing stack cell |
| WO2024202139A1 | PANASONIC IP MAN CO LTD [JP] | Battery and method for manufacturing battery |
| WO2024247406A1 | HITACHI HIGH TECH CORP [JP] | Battery state diagnosis method, battery diagnosis device, and battery diagnosis system |
| WO2024214611A1 | PANASONIC IP MAN CO LTD [JP] | Secondary battery |
| WO2024262876A1 | POSCO HOLDINGS INC [KR] | Recycling method of cylindrical battery |

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| WO2024248567A1 | LG CHEMICAL LTD [KR] | Positive electrode active material, and positive electrode and lithium secondary battery comprising same |
| WO2024198255A1 | BYD CO LTD [CN] | Battery pack and electric apparatus |
| WO2024259652A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Pre-stacking device, pre-stacking method, and battery processing apparatus |
| WO2024210396A1 | LG ENERGY SOLUTION LTD [KR] | Battery pack |
| WO2024207352A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Positive electrode sheet and preparation method therefor, battery cell, battery, and electric device |
| WO2024204934A1 | COSMOS LAB CO LTD [KR] | Aqueous electrolyte for zinc-bromine battery and zinc-bromine battery comprising same |
| WO2024262638A1 | ORLIB CO LTD [JP] | Secondary battery |
| WO2024205329A1 | LG ENERGY SOLUTION LTD [KR] | Lithium secondary battery electrode plate and lithium secondary battery comprising same |
| WO2024248563A1 | LG CHEMICAL LTD [KR] | Cathode active material, preparation method therefor, and cathode and lithium secondary battery which comprise same |
| WO2024245295A1 | BYD CO LTD [CN] | Drive system and vehicle |
| WO2024216447A1 | BEIJING EASPRING MAT TECH CO LTD [CN] | Multi-element positive electrode material and preparation method therefor, and lithium ion battery |
| WO2024258162A1 | LG CHEMICAL LTD [KR] | Lithium silicon oxide, anode comprising same, and lithium secondary battery comprising anode |
| WO2024262762A1 | LG ENERGY SOLUTION LTD [KR] | Simulator of battery pack |
| WO2024230042A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Battery detection chip, battery cell, and electric device |
| WO2024200172A1 | CAMBRIDGE DISPLAY TECH LTD [GB] | Sodium salts having borate or aluminate anions |
| WO2024219869A1 | SK ON CO LTD [KR] | Method for manufacturing lithium secondary battery electrode and method for manufacturing secondary battery including lithium secondary battery electrode |
| WO2024257987A1 | LG ENERGY SOLUTION LTD [KR] | Battery pack and vehicle including same |
| WO2024259649A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Adhesive application apparatus, adhesive application method and battery machining device |
| WO2024262683A1 | KOREA MARITIME UNIV IND ACAD [KR] | Flame-retardant sheet composition for lithium secondary battery, characterized by delaying spread of fire, and flame-retardant sheet using same |
| WO2024257997A1 | LG ENERGY SOLUTION LTD [KR] | Busbar assembly and battery pack including same |
| WO2024210400A1 | SK ON CO LTD [KR] | Tape attachment apparatus and tape attachment method |
| WO2024221320A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Secondary battery and electrical apparatus |
| WO2024262889A1 | LG ENERGY SOLUTION LTD [KR] | System for manufacturing secondary battery and method for manufacturing secondary battery |
| WO2024257988A1 | LG ENERGY SOLUTION LTD [KR] | Battery management device, battery system, and battery module assembly balancing method |
| WO2024255162A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Taping device and battery production system |
| WO2024253075A1 | MAXELL LTD [JP] | All-solid-state battery and method for manufacturing same |
| WO2024228552A1 | LG ENERGY SOLUTION LTD [KR] | Positive electrode active material, positive electrode slurry comprising same, manufacturing method thereof, and positive electrode and lithium secondary battery comprising same |
| WO2024248449A1 | SK ON CO LTD [KR] | Monomer for electrolyte, electrolyte for secondary battery comprising same, manufacturing method thereof, and lithium secondary battery comprising same |
| WO2024207179A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Secondary battery and preparation method therefor, and electric device |
| WO2024205269A1 | SK ON CO LTD [KR] | Battery cell and battery device |
| WO2024215942A1 | MOXION POWER CO [US] | Battery retention system with integral structural members |
| WO2024221997A1 | HUAWEI DIGITAL POWER TECH CO LTD [CN] | Battery, battery pack, electronic device, and energy storage system |

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| WO2024221916A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Lithium metal negative electrode material, negative electrode sheet, lithium metal secondary battery, electric device, preparation method and use |
| WO2024237494A1 | LG ENERGY SOLUTION LTD [KR] | Device for manufacturing battery module and method for manufacturing battery module |
| WO2024243070A1 | MARTINREA INT US INC [US] | Double-effect absorption system utilizing a low voltage source in order to limit draining of an electrical vehicle type battery in combination with an hvac assembly for heating and cooling of the battery |
| WO2024258134A1 | YOUIL ENERGY TECH CO LTD [KR] | Secondary battery separator stacking apparatus |
| WO2024205129A1 | SAMSUNG SDI CO LTD [KR] | Separator for secondary battery, and secondary battery comprising same |
| WO2024262513A1 | PANASONIC IP MAN CO LTD [JP] | Lithium secondary battery and composite member |
| WO2024257426A1 | PANASONIC IP MAN CO LTD [JP] | Battery and method for producing same |
| WO2024241329A1 | TVS MOTOR CO LTD [IN] | A cooling member for a power source in a vehicle |
| WO2024229475A1 | SAFIRE TECH GROUP INC [US] | Systems and methods for controlling a dual cell bank battery |
| WO2024262913A1 | TOP ENG CO LTD [KR] | Stack apparatus |
| WO2024248105A1 | PANASONIC IP MAN CO LTD [JP] | Secondary battery |
| WO2024214417A1 | TOYOTA MOTOR CO LTD [JP] | Positive electrode active material and sodium ion secondary battery |
| WO2024203706A1 | KRI INC [JP] | Composition for forming negative electrode active material layer for lithium-ion secondary battery |
| WO2024248415A1 | POSCO FUTURE M CO LTD [KR] | Cathode active material and lithium secondary battery including same |
| WO2024242481A1 | REXCEL CO LTD [KR] | Compound for electrolyte, compound for electrolyte additive, electrolyte material, electrolyte additive, electrolyte for secondary battery, and secondary battery |
| WO2024243912A1 | SHENZHEN HITHIUM ENERGY STORAGE CONTROL TECH CO LTD [CN] | Electrode assembly, energy storage apparatus, and electric device |
| WO2024214763A1 | PANASONIC IP MAN CO LTD [JP] | Secondary battery |
| WO2024228435A1 | LG ENERGY SOLUTION LTD [KR] | Lithium secondary battery having long lifespan |
| WO2024243916A1 | SHENZHEN HITHIUM ENERGY STORAGE CONTROL TECH CO LTD [CN] | Energy storage device, electric system, and energy storage system |
| WO2024253402A1 | LG ENERGY SOLUTION LTD [KR] | Apparatus for manufacturing electrode assembly |
| WO2024245262A1 | SHANGHAI ENNEAGON ENERGY TECH COMPANY [CN] | High-energy-density battery case |
| WO2024197887A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Secondary battery and electric device |
| WO2024237578A1 | EASYMINING CO LTD [KR] | Method for recovering battery material from used battery |
| WO2024257792A1 | CANON KK [JP] | Electrode base material, electrode base material laminate, electrode, secondary battery, and method for manufacturing same |
| WO2024248573A1 | LG CHEMICAL LTD [KR] | Positive electrode active material, and positive electrode and lithium secondary battery comprising same |
| WO2024244005A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Non-aqueous electrolyte, secondary battery, and electric device |
| WO2024198321A1 | HUAWEI TECH CO LTD [CN] | Battery module and electronic device using battery module |
| WO2024219610A1 | LG ENERGY SOLUTION LTD [KR] | Anode active material, method for preparing anode active material, anode composition, lithium secondary battery anode comprising same, and lithium secondary battery comprising anode |
| WO2024237330A1 | MAXELL LTD [JP] | Solid electrolyte sheet and all-solid-state battery |

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| WO2024221453A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Silicon-oxygen composite material, preparation method therefor, secondary battery, and electric device |
| WO2024249183A1 | ENERGY EXPLORATION TECH INC [US] | Compositions and methods for solid-state electrochemical cells |
| WO2024244276A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Charge and discharge control method and apparatus, and device, storage medium and program product |
| WO2024207504A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Battery and electric apparatus |
| WO2024248419A1 | POSCO FUTURE M CO LTD [KR] | Cathode active material for lithium secondary battery, manufacturing method therefor, and lithium secondary battery comprising same |
| WO2024230880A1 | BAYERISCHE MOTOREN WERKE AG [DE] | Sodium ion battery, method for producing a sodium ion battery and use of a sodium ion battery |
| WO2024238908A2 | UNIV TEXAS [US] | Stabilized solid-state electrolyte |
| WO2024238258A1 | HONEYCOMB BATTERY COMPANY [US] | Thermally stable composite separator for a lithium secondary battery and manufacturing method |
| WO2024242341A1 | IUCF HYU ERICA CAMPUS [KR] | Lithium secondary battery comprising amorphous silicon thin film anode and manufacturing method therefor |
| WO2024205173A1 | SAMSUNG SDI CO LTD [KR] | Composite positive electrode active material, positive electrode comprising same, and lithium battery |
| WO2024248043A1 | PANASONIC IP MAN CO LTD [JP] | Positive electrode for secondary battery, secondary battery, and positive electrode mixture slurry |
| WO2024248039A1 | PANASONIC IP MAN CO LTD [JP] | Positive electrode for secondary battery, and secondary battery |
| WO2024229218A1 | PENN STATE RES FOUND [US] | Low-temperature liquid-phase synthesis of lithium thiophosphate-borohydride solid electrolyte with high room-temperature ionic conductivity |
| WO2024263002A1 | LG ENERGY SOLUTION LTD [KR] | Lithium secondary battery |
| WO2024245276A1 | SHANGHAI ENNEAGON ENERGY TECH COMPANY [CN] | Vehicle-mounted battery box and control method therefor |
| WO2024221443A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Positive electrode active material, preparation method therefor, and positive electrode sheet, battery cell, battery and electric device comprising same |
| WO2024231908A2 | EXTO TECH L L C FZ [AE] | Advanced fire safety lithium-ion energy storage system employing the composite thermoreactive material |
| WO2024210301A1 | SAMSUNG SDI CO LTD [KR] | Negative electrode for all-solid-state battery, and all-solid-state battery including same |
| WO2024210309A1 | KERI KOREA ELECTROTECHNOLOGY RES INST [KR] | Method for preparing complex cathode material for lithium sulfur battery, and lithium sulfur battery comprising complex cathode material prepared thereby |
| WO2024208734A1 | SPEIRA GMBH [DE] | Cylindrical battery cell housing with small co2 footprint |
| WO2024217601A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Secondary battery and electric apparatus |
| WO2024253496A1 | LG ENERGY SOLUTION LTD [KR] | Separator for electrochemical device and electrochemical device comprising same |
| WO2024243896A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Negative electrode, preparation method therefor, battery cell comprising same, battery, and electrical apparatus |
| WO2024219567A1 | ECOPRO MAT CO LTD [KR] | Method and system for recycling waste battery materials |
| WO2024207439A1 | BEIJING EASPRING MAT TECH CO LTD [CN] | Lithium manganese iron phosphate positive electrode material and preparation method therefor, manganese iron phosphate precursor and preparation method therefor, and lithium-ion battery |
| WO2024244275A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Charging and discharging circuit and method, computing device, and control apparatus therefor |
| WO2024241775A1 | HITACHI ASTEMO LTD [JP] | Charge/discharge control device and charge/discharge control method |
| WO2024248416A1 | POSCO FUTURE M CO LTD [KR] | Anode active material for lithium secondary battery, manufacturing method therefor and lithium secondary battery comprising same |
| WO2024219784A1 | UIF UNIV INDUSTRY FOUNDATION YONSEI UNIV [KR] | Solid electrolyte including covalent organic framework, and all-solid-state battery including same |

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| WO2024248565A1 | LG CHEMICAL LTD [KR] | Cathode active material, preparation method therefor, and cathode and lithium secondary battery which comprise same |
| WO2024253470A1 | UBATT INC [KR] | Electrochemical device comprising high-capacity positive electrode |
| WO2024211622A2 | SOLID POWER OPERATING INC [US] | Solid electrolyte and method of production |
| WO2024217091A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Battery cell, battery and electrical apparatus |
| WO2024216935A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Composite separator, and preparation method therefor and use thereof |
| WO2024219713A1 | SK ON CO LTD [KR] | Secondary battery and method for manufacturing same |
| WO2024199383A1 | BEIJING CHEHEJIA AUTOMOBILE TECH CO LTD [CN] | Battery cell temperature estimation method and apparatus, electronic device, storage medium, and vehicle |
| WO2024243906A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Positive electrode active material and preparation method therefor, and positive electrode sheet, battery and electric device comprising same |
| WO2024197640A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Electrolyte additive, electrolyte, secondary battery, and electric device |
| WO2024239344A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Secondary battery and electric device |
| WO2024197901A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Secondary battery and electrical apparatus |
| WO2024242370A1 | SK ON CO LTD [KR] | Lithium secondary battery |
| WO2024219867A1 | LG ENERGY SOLUTION LTD [KR] | Electrode assembly and method of manufacturing electrode assembly |
| WO2024246830A1 | ASPEN AEROGELS INC [US] | Composite particles and methods of manufacture thereof |
| WO2024253413A1 | LG ENERGY SOLUTION LTD [KR] | Defect inspection device and defect inspection method |
| WO2024225976A1 | NAT UNIV SINGAPORE [SG] | A composite cathode material of polyanion and layered oxide for sodium-ion battery and method of synthesizing thereof |
| WO2024203681A1 | OHARA KK [JP] | Electrolyte, electrode additive, electrode, and lithium-ion secondary battery |
| WO2024204732A1 | MITSUBISHI MATERIALS CORP [JP] | Method for producing lithium carbonate and apparatus for producing lithium carbonate |
| WO2024221343A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Cell combination, battery, and electric apparatus |
| WO2024222363A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Positive electrode active material, preparation method, positive electrode sheet, secondary battery, and electric device |
| WO2024250028A2 | OUR NEXT ENERGY INC [US] | Electrode design for continuous roll-to-roll lamination |
| WO2024243875A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Gel electrolyte battery, electric device, and preparation method |
| WO2024240785A1 | SAINT GOBAIN ADFORS SA [FR] | Protection element and battery |
| WO2024239253A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Assembly apparatus and assembly method |
| WO2024237724A1 | LG ENERGY SOLUTION LTD [KR] | Apparatus and method for wrapping electrode assembly, and electrode assembly manufactured thereby |
| WO2024212663A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Breaker box system, power supply system, and vehicle |
| WO2024210343A1 | KOREA INST SCI & TECH [KR] | Magnesium electrode, method for preparing same, and magnesium secondary battery including same |
| WO2024210303A1 | SAMSUNG SDI CO LTD [KR] | Negative electrode active material, preparation method therefor, negative electrode for all-solid-state rechargeable battery, and all-solid-state rechargeable battery |
| WO2024235527A1 | ORKLI S COOP LTDA [ES] | Nonwoven mat |
| WO2024241816A1 | PANASONIC HOLDINGS CORP [JP] | Coated active material, coated active material production method, positive electrode material and battery |

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|--------------------------------|----------------------------------|---|
| WO2024261047A1 | GRAENGES AB [SE] | Aluminium alloy foil |
| WO2024231452A1 | JT INT SA [CH] | An aerosol generation device |
| WO2024262523A1 | JFE STEEL CORP [JP] | Positive electrode active material for sodium-ion secondary battery, method for manufacturing positive electrode active material for sodium-ion secondary battery, and sodium-ion secondary battery |
| WO2024248433A1 | SK ON CO LTD [KR] | Porous organic-inorganic composite electrolyte membrane, manufacturing method therefor, and lithium secondary battery comprising same |
| WO2024240895A1 | UMICORE NV [BE] | Allovalently substituted argyrodite-type solid electrolytes |
| WO2024219815A1 | LG CHEMICAL LTD [KR] | Heat control member comprising wet-gel blanket |
| WO2024253495A1 | UNIV KOREA RES & BUS FOUND [KR] | Electrolyte using high-dielectric-constant zwitterionic material, and preparation method therefor |
| WO2024257743A1 | MITSUBISHI GAS CHEMICAL CO [JP] | Method for manufacturing lgps-type solid electrolyte |
| WO2024205306A1 | RES INST IND SCIENCE & TECH [KR] | Olivine cathode active material for lithium secondary battery and manufacturing method thereof |
| WO2024219669A1 | LG ENERGY SOLUTION LTD [KR] | Separator for electrochemical device and electrochemical device comprising same |
| WO2024199698A1 | INTEL CORP [US] | Energy supply- and demand-based configuration and operation of electric vehicles |
| WO2024243870A1 | DAINIPPON INK & CHEMICALS [JP] | Method for producing garnet-type oxide solid electrolyte |
| WO2024215890A1 | GLENCORE LTD [US] | Recovery of lithium from lithium iron phosphate black mass |
| WO2024239307A1 | DOW GLOBAL TECHNOLOGIES LLC [US] | Compositions for the formation of battery shutdown layers |
| WO2024262230A1 | SANDEN CORP [JP] | Heat management system |
| WO2024258103A1 | SK ON CO LTD [KR] | Electrode |
| WO2024262940A1 | LG CHEMICAL LTD [KR] | Binder composition for separator of electrochemical device, and separator of electrochemical device, comprising same |
| WO2024237496A1 | LAKE TECH LTD [KR] | Apparatus for mass-producing lithium sulfide |
| WO2024204581A1 | UNIV OSAKA PUBLIC CORP [JP] | Solid electrolyte material, solid electrolyte composite, electrode, and method for producing solid electrolyte material |
| WO2024260003A1 | HUAWEI TECH CO LTD [CN] | Mobile apparatus, charging control method, and chip |
| WO2024262972A1 | POSCO HOLDINGS INC [KR] | Valuable metal recovery composition, and method for recovering valuable metal |
| WO2024225035A1 | JFE STEEL CORP [JP] | Valuable element recovery method |
| WO2024253494A1 | UNIV KOREA RES & BUS FOUND [KR] | Zwitterionic polymer-based aqueous electrolyte having high potential stability window through control of hydration layer and manufacturing method thereof |
| WO2024253190A1 | ASAHI CHEMICAL IND [JP] | Method for produced non-aqueous lithium power storage element with restored capacity, and non-aqueous lithium power storage element with restorable capacity |
| WO2024203898A1 | IDEMITSU KOSAN CO [JP] | Ion permeable membrane |
| WO2024225041A1 | JFE STEEL CORP [JP] | Method for recovering valuable element |
| WO2024237718A1 | LG CHEMICAL LTD [KR] | Positive electrode material, and positive electrode and lithium secondary battery comprising same |
| WO2024237715A1 | LG CHEMICAL LTD [KR] | Positive electrode material, and positive electrode and lithium secondary battery comprising same |
| WO2024215184A1 | AHN SUNGHEE [KR] | Method for manufacturing porous film, and porous film manufactured thereby |
| WO2024237716A1 | LG CHEMICAL LTD [KR] | Cathode material, cathode comprising same, and lithium secondary battery |
| WO2024219905A1 | BASS CO LTD [KR] | Method for preparing oxide-based solid electrolyte powder |
| WO2024253269A1 | EP CHEMTECH CO LTD [KR] | Method for preparing carbonate solution of alkali metal or alkaline earth metal bis(fluorosulfonyl)imide |
| WO2024216024A1 | CUBERG INC [US] | Methods and systems for restoring lithium metal liquid-electrolyte electrochemical cells |
| WO2024224223A1 | H55 SA [CH] | Insulation fault detection device, electrical power supply system, and a method for detecting an insulation fault |
| WO2024243719A1 | DOW GLOBAL TECHNOLOGIES LLC [US] | Ceramic slurry compositions |

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SUPERCONDENSADORES

| Nº PUBLICACIÓN | SOLICITANTE | CONTENIDO TÉCNICO |
|--------------------------------|---|--|
| WO2024209476A1 | ARIEL SCIENT INNOVATIONS LTD [IL] | Supercapacitor comprising nanostructure of a metal-chalcogen compound |
| WO2024225238A1 | TOMIYAMA PURE CHEMICAL IND LTD [JP] | Electrolyte for power storage device, reinforcing agent, electrolyte solution, and power storage device using same |
| WO2024263226A1 | GRAYSON MICHAEL CURTIS [US] | Powering and recharging long range electric vehicles |
| WO2024225237A1 | TOMIYAMA PURE CHEMICAL IND LTD [JP] | Electrolyte for power storage device, reinforcing agent, electrolyte solution, and power storage device using same |
| WO2024240344A1 | ABB SCHWEIZ AG [CH] | Electrochemical device provided with a safety arrangement for a pouch cell |
| WO2024257397A1 | TOYOTA JIDOSHOKKI KK [JP] | Device for manufacturing power storage module and method for manufacturing power storage module |
| WO2024201265A1 | SEMICONDUCTOR ENERGY LAB [JP] | Secondary battery |
| WO2024211042A2 | FASTCAP SYSTEMS CORP [US] | Electrodes for batteries |
| WO2024232277A1 | TOYOTA JIDOSHOKKI KK [JP]; TOYOTA MOTOR CO LTD [JP] | Power storage module |
| WO2024204284A1 | KURARAY CO [JP] | Electrode, method for producing electrode, and electrochemical device |
| WO2024252821A1 | TOYOTA JIDOSHOKKI KK [JP] | Power storage device |
| WO2024253726A1 | FASTCAP SYSTEMS CORP [US] | Energy storage devices with swellable electrodes |
| WO2024206397A2 | FASTCAP SYSTEMS CORP [US] | Energy storage devices |
| WO2024219399A1 | RESONAC PACKAGING CORP [JP] | Exterior material for electricity storage device |
| WO2024252997A1 | ENEOS MAT CORPORATION [JP] | Power storage device binder composition, power storage device electrode slurry, power storage device electrode, and power storage device |
| WO2024236454A1 | SEMICONDUCTOR ENERGY LAB [JP] | Battery module |
| WO2024226205A2 | NOHMS TECH INC [US] | Functionalized phosphine oxides and functionalized phosphine sulfides for lithium-ion batteries |
| WO2024252996A1 | ENEOS MAT CORPORATION [JP] | Binder composition for power storage devices, slurry for power storage device electrodes, power storage device electrode, and power storage device |

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SISTEMAS DE RECUPERACIÓN DE ENERGÍA; FRENOS REGENERATIVOS

| Nº PUBLICACIÓN | SOLICITANTE | CONTENIDO TÉCNICO |
|--------------------------------|--------------------------------------|--|
| WO2024240773A1 | AMPERE SAS [FR] | Method for managing regenerative braking of a motor vehicle |
| WO2024260943A1 | AMPERE SAS [FR] | Method for managing regenerative braking of an electric or hybrid motor vehicle |
| WO2024228077A1 | TORINO POLITECNICO [IT] | Electric vehicle and method of controlling thereof |
| WO2024232096A1 | HITACHI INDUSTRIAL PRODUCTS LTD [JP] | Electric vehicle |
| WO2024256702A1 | BREMBO SPA [IT] | Vehicle and method for single pedal driving |
| WO2024218738A1 | EPROINN S R L [IT] | Computer-implemented method for managing the propulsion sources of a hybrid vehicle in order to maximise the energy recovery of such a hybrid vehicle during its travel. |

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MÁQUINAS ELÉCTRICAS

| Nº PUBLICACIÓN | SOLICITANTE | CONTENIDO TÉCNICO |
|--------------------------------|---|---|
| WO2024213603A1 | ZAHNRADFABRIK FRIEDRICHSHAFEN [DE] | Electric drive axle for an electric vehicle |
| WO2024213693A1 | ZAHNRADFABRIK FRIEDRICHSHAFEN [DE] | Drive axle for an electric vehicle |
| WO2024245957A1 | VALEO EAUTOMOTIVE GERMANY GMBH [DE] | Electric motor assembly with a connector holder |
| WO2024223152A1 | BAYERISCHE MOTOREN WERKE AG [DE] | Method for operating an electric vehicle, and electric vehicle |
| WO2024251954A1 | MOVING MAGNET TECH [FR] | Electric motor with improved assembly |
| WO2024251958A1 | MOVING MAGNET TECH [FR] | Electric motor with improved assembly |
| WO2024232028A1 | MITSUBISHI ELECTRIC CORP [JP] | Electric vehicle drive device |
| WO2024246251A1 | BROSE FAHRZEUGTEILE SE & CO KG BAMBERG [DE] | Method for emitting an acoustic warning signal during operation of an electric-motor-driven actuator for a motor vehicle and electric-motor-driven actuator |
| WO2024220160A1 | NIKOLA CORP [US] | Torque management in multi-motor electric vehicle |
| WO2024208643A1 | VITESCO TECH GMBH [DE] | Method for positioning a rotor shaft of an electric motor, computer program, computer program product, system, and vehicle |
| WO2024226022A1 | FNSS SAVUNMA SISTEMLERI A S [TR] | Adaptive power management system for armoured series hybrid vehicles |
| WO2024236675A1 | MITSUBISHI ELECTRIC CORP [JP] | Motor unit |
| WO2024261123A1 | VILLENEUVE PIERRE [FR] | Compressed air/electricity drive train, transformation kit and vehicle fitted with such a drive train |
| WO2024217824A1 | BAYERISCHE MOTOREN WERKE AG [DE] | Housing for a machine, machine comprising a housing, and motor vehicle comprising a machine |
| WO2024240847A1 | POLESTAR PERFORMANCE AB [SE] | A connector unit and an electric vehicle and an electric motor comprising such |
| WO2024230886A1 | SCHAEFFLER TECHNOLOGIES AG [DE] | Rotor and electric machine |
| WO2024201183A1 | STELLANTIS EUROPE S P A [IT] | An electric motor-vehicle frame equipped with a system for activating the electrical connection of the battery assembly |
| WO2024251524A1 | AMPERE SAS [FR] | Element for distributing a flow within a hollow shaft |
| WO2024218226A1 | ZAHNRADFABRIK FRIEDRICHSHAFEN [DE] | Electric machine with rotating transformer and vehicle with an electric motor of this type |
| WO2024209627A1 | TOSHIBA KK [JP] | Stator for rotating electrical machine |
| WO2024205753A1 | GARRETT TRANSPORTATION I INC [US] | E-machine system with rotor arrangement in fluid circuit for cooling and lubrication |
| WO2024227808A1 | NOVADRIVES IP 1 GMBH [DE] | Spoke magnet motor with pretensioned wrapping |
| WO2024260734A1 | BAYERISCHE MOTOREN WERKE AG [DE] | Housing for a machine, machine comprising a housing, and motor vehicle comprising a machine |
| WO2024252296A1 | SAFEFIELDS TECH LTD [IL] | System for cancelling magnetic field |
| WO2024214370A1 | JFE STEEL CORP [JP] | Non-oriented electromagnetic steel sheet |
| WO2024255968A1 | SCHAEFFLER TECHNOLOGIES AG [DE] | Stator assembly and method for producing a stator retainer |
| WO2024235388A1 | SCHAEFFLER TECHNOLOGIES AG [DE] | Method for closed-loop control of mechanically field-weakened electric machines |

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CONVERTIDORES, INVERSORES

| Nº PUBLICACIÓN | SOLICITANTE | CONTENIDO TÉCNICO |
|--------------------------------|--|--|
| WO2024210876A2 | TURKIYENIN OTOMOBILI GIRISIM GRUBU SANAYI VE TICARET ANONIM SIRKETI [TR] | An inverter for optimizing the energy used in electric vehicles |
| WO2024241382A1 | NISSAN MOTOR [JP] | Electric vehicle |
| WO2024202019A1 | MITSUBISHI ELECTRIC CORP [JP] | Electric car control system |
| WO2024233749A1 | VITESCO TECHNOLOGIES USA LLC [US] | Vehicle high voltage electronics box with an open-end winding machine |
| WO2024236648A1 | SUBARU CORP [JP] | Charging apparatus for electric vehicle |
| WO2024259896A1 | HUAWEI DIGITAL POWER TECH CO LTD [CN] | Electric motor controller, vehicle brake system and electric vehicle |
| WO2024213661A1 | VALEO EAUTOMOTIVE GERMANY GMBH [DE] | Drive system for electric vehicle, electric vehicle, and drive system assembly method |
| WO2024208630A1 | AMPERE SAS [FR] | System for supplying power to consumers of an electric or hybrid vehicle, and method for managing the power supply of such a vehicle |
| WO2024259895A1 | HUAWEI DIGITAL POWER TECH CO LTD [CN] | Motor controller, vehicle braking system and electric vehicle |
| WO2024215091A2 | SOLUM CO LTD [KR] | Resonant converter and electric vehicle charger comprising same |
| WO2024247001A1 | SHINDENGEN ELECTRIC MFG [JP] | Control module for permanent magnet motor for traveling of two-wheeled electric vehicle |
| WO2024203462A1 | GS YUASA INT LTD [JP] | Multiphase llc resonance converter |
| WO2024237042A1 | DENSO CORP [JP] | Power converter |
| WO2024237348A1 | UNIV KOBE NAT UNIV CORP [JP] | Interleaved high-voltage ratio bidirectional DC-DC converter |
| WO2024238951A2 | TAU MOTORS INC [US] | Systems and methods for control of networked power converters |
| WO2024220802A2 | UNIV COLUMBIA [US] | Power converter control with second order harmonic injection |
| WO2024210005A1 | HITACHI ASTEMO LTD [JP] | Control device and electric vehicle |
| WO2024222997A1 | SCHAEFFLER TECHNOLOGIES AG [DE] | Power-controlled discharge circuit for an intermediate circuit of a drive inverter |
| WO2024202187A1 | MITSUBISHI HEAVY IND LTD [JP] | Power converter and coil unit |
| WO2024260623A1 | BOSCH GMBH ROBERT [DE] | DC voltage converter and method for operating the DC voltage converter |
| WO2024252846A1 | DENSO CORP [JP] | Power conversion device and program |
| WO2024252463A1 | MITSUBISHI ELECTRIC MOBILITY CORP [JP] | Power conversion device, electric vehicle drive device, and power conversion device manufacturing method |
| WO2024249953A1 | RIVIAN IP HOLDINGS LLC [US] | Multiple battery drive system |
| WO2024236170A1 | AMPERE SAS [FR] | Method for determining voltage setpoints of converters of a power supply system of a vehicle and corresponding power supply system |
| WO2024240466A1 | ZAHNRADFABRIK FRIEDRICHSHAFEN [DE] | Method for actuating an electric machine by switching between two synchronous pulse patterns |
| WO2024256121A1 | BAYERISCHE MOTOREN WERKE AG [DE] | Method and device for the secured operation of an electrical machine |
| WO2024240468A1 | ZAHNRADFABRIK FRIEDRICHSHAFEN [DE] | Method for actuating an electric machine by switching between a synchronous pulse pattern and an asynchronous pulse pattern |
| WO2024205922A1 | MAGNA POWERTRAIN AMERICA INC [US] | DC fast-charging bidirectional converter utilizing delta motor and inverter |
| WO2024228818A1 | ELECTRIC HYDROGEN CO [US] | Decoupled control of a power converter |
| WO2024241969A1 | SAKAI JUKOGYO KK [JP] | Electric roller |
| WO2024252869A1 | ROHM CO LTD [JP] | Semiconductor device and vehicle |

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|--------------------------------|--|---|
| WO2024225112A1 | AISIN CORP [JP] | Vehicle drive device |
| WO2024242407A1 | SOLUTION X CO LTD [KR] | Inverted buck-boost-type integrated charger |
| WO2024257176A1 | NISSAN MOTOR [JP] | Electric power conversion apparatus |
| WO2024219146A1 | DENSO CORP [JP] | Power conversion device |
| WO2024247610A1 | DENSO CORP [JP] | Charger and program |
| WO2024214139A1 | HITACHI ASTEMO LTD [JP] | Power conversion device |
| WO2024240479A1 | BOSCH GMBH ROBERT [DE] | Supply circuit arrangement for an electric machine and system having the supply circuit arrangement |
| WO2024237994A1 | DIMAAG AI INC [US] | Battery modules with integrated module converters and methods of operating thereof |
| WO2024202932A1 | DENSO CORP [JP] | Power conversion device |
| WO2024226334A1 | BAE SYS CONTROLS INC [US] | Common-mode current sensing system and protection method for power converters |
| WO2024247680A1 | DENSO CORP [JP] | Power conversion device |
| WO2024252949A1 | HITACHI ASTEMO LTD [JP] | Power conversion device and drive device |
| WO2024203278A1 | ROHM CO LTD [JP] | Semiconductor module and vehicle |
| WO2024214842A1 | LG ELECTRONICS INC [KR] | Charging device and vehicle having same |
| WO2024214458A1 | DENSO CORP [JP] | Power supply device and program |
| WO2024224950A1 | DENSO CORP [JP] | Power supply system and power supply control program |
| WO2024232164A1 | HITACHI ASTEMO LTD [JP] | Power conversion device and method for controlling power conversion device |
| WO2024202838A1 | UNIV TOHOKU [JP] | Power module |
| WO2024241968A1 | SAKAI JUKOGYO KK [JP] | Electric roller |
| WO2024242747A2 | POWER SWITCHING LLC [CA] | Isolated buck-boost topologies and control thereof |
| WO2024220246A1 | LESTER ELECTRICAL OF NEBRASKA INC [US] | Method and apparatus to charge extra low voltage batteries |
| WO2024257263A1 | HITACHI ASTEMO LTD [JP] | Power conversion device |
| WO2024257615A1 | HITACHI ASTEMO LTD [JP] | Switching drive apparatus |
| WO2024219186A1 | DENSO CORP [JP] | Power conversion device and program |
| WO2024246350A1 | VALEO EAUTOMOTIVE GERMANY GMBH [DE] | Electrical power supply circuit for a vehicle electrical energy storage unit |

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RECARGA DE BATERÍAS

| Nº PUBLICACIÓN | SOLICITANTE | CONTENIDO TÉCNICO |
|--------------------------------|---|---|
| WO2024220632A1 | ENPHASE ENERGY INC [US] | Methods and apparatus for use with electric vehicles |
| WO2024258642A1 | INCHARGE ENERGY INC [US] | Systems and methods for charging management of electric vehicles |
| WO2024208264A1 | NIO CO LTD [CN] | Battery charging and swapping system |
| WO2024263548A2 | NOCO CO [US] | Flow battery mechanization and control topology |
| WO2024246246A1 | CAPACTECH LTD [GB] | Wireless charging of different types of electric vehicles |
| WO2024246442A1 | STELLANTIS AUTO SAS [FR] | Motor vehicle comprising a hook for holding a cable for charging the traction battery |
| WO2024225646A1 | LG INNOTEK CO LTD [KR] | Vehicle wireless charging device |
| WO2024217617A1 | KIEKERT AG [DE] | Charging connector for electric and hybrid vehicles |
| WO2024206695A1 | KENNEDY MINING LLC [US] | Systems and methods for distributing power between vehicle chargers and hashed data conversion |
| WO2024215031A1 | 4DREAM CO LTD [KR] | System for managing electric vehicle charging power on basis of demand response, and method therefor |
| WO2024239058A1 | CI CORP PTY LTD [AU] | Battery fast charging system |
| WO2024256471A1 | MAHLE INT GMBH [DE] | Mobile induction-charging device, inductive charging system and vehicle having a mobile induction charging device |
| WO2024244686A1 | NIO TECH ANHUI CO LTD [CN] | Battery charging and swapping station |
| WO2024249208A1 | SAGE GEOSYSTEMS INC [US] | Charging station powered by a renewable energy source |
| WO2024201665A1 | SUBARU CORP [JP] | Control device |
| WO2024248265A1 | LG ENERGY SOLUTION LTD [KR] | Vehicle system, charging system, and charging gender |
| WO2024239059A1 | CI CORP PTY LTD [AU] | Automated overhead fast-charging system |
| WO2024252485A1 | HITACHI ASTEMO LTD [JP] | Electric drive device and method for controlling electric drive device |
| WO2024206505A2 | IONTRA INC [US] | Synthesis and envelope rectification for waveforms and their harmonics in a frequency switched topology |
| WO2024216635A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Charging method and charging apparatus |
| WO2024200653A1 | VITESCO TECH GMBH [DE] | Method for estimating the duration of use of at least one capacitor for an onboard charger |
| WO2024256764A1 | STELLANTIS AUTO SAS [FR] | Robotic device for charging the batteries of an electric or hybrid motor vehicle by induction |
| WO2024209397A1 | BOMBARDIER RECREATIONAL PRODUCTS INC [CA] | System for managing a charging state of an auxiliary battery and vehicle including the system |
| WO2024199397A1 | BYD CO LTD [CN] | Charging apparatus, charging control system, and electric vehicle |
| WO2024245625A1 | MERCEDES BENZ GROUP AG [DE] | Charging system for rechargeable batteries with metal deposition based electrodes |
| WO2024240711A1 | VALEO SYSTEMES THERMIQUES [FR] | Thermal conditioning system for a motor vehicle |
| WO2024200358A2 | VITESCO TECH GMBH [DE] | Method for optimising the service life of at least one capacitor for an on-board charger |
| WO2024260927A1 | BRUSA ELEKTRONIK AG [CH] | Power conversion arrangement with cooling fan |
| WO2024251517A1 | MAHLE INT GMBH [DE] | Stationary inductive charging device |
| WO2024200353A1 | VITESCO TECH GMBH [DE] | Method for controlling the temperature of at least one capacitor for an onboard charger |
| WO2024229902A1 | SHENZHEN HAYLION TECH CO LTD [CN] | Photovoltaic spread-wing container type mobile photovoltaics, energy storage, direct current and flexibility super charging station |

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CAMBIO DE BATERÍAS

| Nº PUBLICACIÓN | SOLICITANTE | CONTENIDO TÉCNICO |
|--------------------------------|--|---|
| WO2024259810A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Battery swapping device, battery swapping apparatus and battery swapping station |
| WO2024250484A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Fire-fighting platform for battery swap station, and battery swap station |
| WO2024255059A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Attitude adjustment method, attitude adjustment apparatus, control device, and storage medium |
| WO2024216641A1 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD [CN] | Charging method and charging device |

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EJECUCIÓN



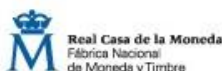
Los ITPs** de la OEPM detectaron solicitudes de patente relevantes cuando estábamos a mitad del proyecto y gracias a ello pudimos reconducir nuestra investigación.



CONCLUSIÓN



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