

Noticias

El Consejo de Ministros nombró el 17 de enero a José María López Martínez como comisionado para el PERTE del Vehículo Eléctrico y Conectado (VEC).

El [Comisionado especial para el PERTE VEC](#), con rango de Subsecretaría, bajo la dependencia directa de la persona titular del Ministerio de Industria, Comercio y Turismo, llevará a cabo las siguientes funciones, sin perjuicio de las que correspondan a los departamentos ministeriales:

a) Promover, impulsar y divulgar las políticas y planes vinculados al PERTE VEC, a la transformación de las cadenas de valor del sector de la automoción y al desarrollo de un ecosistema para la fabricación del vehículo eléctrico y conectado, incluyendo tanto las que corresponden a la Administración General del Estado en el ámbito de sus competencias, como las que puedan resultar del apoyo y colaboración con las demás Administraciones Públicas.

b) Desarrollar las medidas de apoyo y colaboración público-privada para garantizar el acceso y la ejecución de los proyectos vinculados al PERTE VEC y al desarrollo general de un ecosistema para la fabricación del vehículo eléctrico y conectado.

c) En coordinación con el Ministerio de Asuntos Exteriores, Unión Europea y Cooperación, colaborar en el impulso de la interlocución internacional de España en el ámbito de estrategias, acciones e iniciativas nacionales vinculadas al PERTE VEC y al desarrollo general del ecosistema para la fabricación del vehículo eléctrico y conectado.

d) Coordinar e instaurar medidas e iniciativas de seguimiento en colaboración con otros órganos ministeriales y organismos implicados en el

desarrollo de un ecosistema para la fabricación del Vehículo Eléctrico y Conectado.

e) Participar en las comisiones, grupos de trabajo y órganos colegiados vinculados al PERTE VEC y al desarrollo del ecosistema para la fabricación del vehículo eléctrico y conectado.

f) Servir de interlocutor con el Gobierno y otros actores, informándoles periódicamente sobre el desarrollo y resultado de la ejecución de los proyectos, o de cuantas propuestas considere necesarias para el adecuado cumplimiento de la función encomendada.

g) Realizar cuantas actuaciones en relación con el desarrollo del ecosistema para la fabricación del vehículo eléctrico y conectado y la consecución de sus objetivos resulten precisas, incluyendo, en su caso, la correcta ejecución de fondos, asignados en esta materia. En concreto la elaboración, gestión y seguimiento de programas y actuaciones destinados al desarrollo del ecosistema del vehículo eléctrico y conectado.

El 14 de marzo conocimos el [Informe de Estado de Situación PERTE VEC](#), según el cual hasta ese momento se habían autorizado convocatorias por valor de 2.069 millones de euros, lo que supone el 50% de los fondos previstos. Respecto a los fondos de las convocatorias resueltas, un total de 1.304 millones de euros ya están a disposición de los usuarios finales.

En el BOE nº 71 del 24 de marzo, salió publicada la Orden TMA/277/2023, de 21 de marzo, por la que se modifica la Orden de 16 de diciembre de 1997, por la que se regulan los accesos a las carreteras del Estado, las vías de servicio y la construcción de instalaciones de servicio. Con

esta nueva Orden el Ministerio de Transportes, Movilidad y Agenda Urbana (MITMA), pretende [simplificar y agilizar el procedimiento de obtención de las autorizaciones para facilitar el despliegue de instalaciones para la recarga de vehículos eléctricos en la Red de Carreteras del Estado](#). Para ello, se establece una declaración responsable en la que el titular de la autorización de la instalación principal manifieste que ostenta dicha autorización y que está conforme con que

un tercero instale los puntos de recarga de vehículos eléctricos.

[BOLETINES OEPM](#)

NIPO: 116-19-009-9



Oficina Española de Patentes y Marcas
Unidad de Información Tecnológica
www.oepm.es

CONTENIDO:

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

- **INFRAESTRUCTURAS DE CARGA**
 - [Recarga de baterías](#)
 - [Cambio de baterías](#)

Solicitudes de Patente Publicadas

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

BATERÍAS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2023031406 A1	MUHR & BENDER KG	Battery cooling device for an electrical battery module of an electric drive
WO 2023034181 A1	TEXAS INSTRUMENTS INC	Power balancing for communications
WO 2023030835 A1	BOSCH GMBH ROBERT	Method for determining an availability of an electrical energy store, electrical energy store, and device
WO 2023046724 A1	ROBERT BOSCH GMBH	Battery system, method for operating said battery system, and vehicle
WO 2023031356 A1	KIRCHHOFF AUTOMOTIVE D GMBH	Traction battery unit
WO 2023288029 A1	OUR NEXT ENERGY INC	Structural cell to pack battery
WO 2023031177 A1	VOLKSWAGEN AG	Coolant distributor device for a motor vehicle, and motor vehicle comprising a coolant distributor device
WO 2023030793 A1	VALEO SYSTEMES THERMIQUES	Thermal management device for a modular platform of an electric motor vehicle chassis
WO 2023025852 A1	SCHULER PRESSEN GMBH	Battery, and process for manufacturing a battery housing of a battery
WO 2023025580 A1	KE TEC GMBH	Method and device for electrically contacting a battery cell, cell module and battery
WO 2023025853 A1	SCHULER PRESSEN GMBH	Battery, and process for manufacturing a battery housing for a battery
WO 2023031528 A1	PSA AUTOMOBILES SA	Battery system having a means for measuring an internal pressure in order to manage a charge setpoint
WO 2023031527 A1	PSA AUTOMOBILES SA	Method for prolonging a duration of use of a battery
WO 2023031227 A1	ENWIRES	Process for the production of silicon-carbon composite materials
WO 2023030799 A1	ELRINGKLINGER AG	Control device for a battery system
WO 2023026313 A1	HITACHI LTD	Battery charge/discharge management system and method
WO 2023020934 A1	FRAUNHOFER GES FORSCHUNG	Methods for producing a solid state battery having a porous support body, and solid state battery having a porous support body
WO 2023020829 A1	BAYERISCHE MOTOREN WERKE AG	Anode material for an all solid state battery, and all solid state battery
WO 2023002015 A1	REPSOL SA	Composition for preparing a gel polymer electrolyte, gel polymer electrolyte, and lithium-metal secondary battery comprising it
WO 2023004298 A1	FED MOGUL POWERTRAIN LLC	Thermal and dielectric insulator for a battery pack
WO 2023015396 A1	HYDRO QUEBEC	Surface-modified electrodes, preparation methods and electrochemical uses
WO 2023029048 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Battery heating device, and control method, control circuit and power device therefor
WO 2023041852 A1	PSA AUTOMOBILES SA	Battery system for storing electrical energy comprising a gas-release safety venting system
WO 2023286347 A1	TOYOTA JIDOSHOKKI KK	Vehicular heat management system
WO 2023029676 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Battery casing, battery, electrical device, and method and device for manufacturing battery
WO 2023001464 A1	RENAULT SAS	Electrochemical cell for storing electrical energy
WO 2023031708 A1	MOLEX LLC	Busbar assembly for arrays of battery cells
WO 2023038472 A1	LG ENERGY SOLUTION LTD	Positive electrode active material powder for lithium secondary battery, method for preparing same, positive electrode for lithium secondary battery, and lithium secondary battery
WO 2023039439 A1	SILA NANOTECHNOLOGIES INC	Battery anode comprising carbon and optionally silicon characterized by the carbon domain size estimated by x ray diffraction
WO 2023007032 A1	WEBASTO SE	Battery module and battery
WO 2023016765 A1	ELRINGKLINGER AG	Battery module, module housing, and process for manufacturing the module housing

WO 2023029047 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Battery heating device, and control method, control circuit and power device therefor
WO 2023043634 A1	BALICO LLC	Battery cartridge attachment mechanism
WO 2023016065 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Battery pack safety monitoring method and apparatus, device, system, and storage medium
WO 2023028745 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Battery box, battery, electrical device, and method and apparatus for preparing battery
WO 2023033525 A1	SAMSUNG SDI CO LTD	Negative electrode for rechargeable lithium battery and rechargeable lithium battery including same
WO 2023288106 A1	HUNT ENERGY ENTPR LLC	Coating of cathode materials for energy storage devices
WO 2023029795 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Electrode assembly, battery cell, battery, and electrical device
WO 2023028789 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Temperature determination method, current threshold determination method, and battery management system
WO 2023030537 A1	TRINA SOLAR CO LTD	Electrolyte injection method for lithium ion battery, and use
WO 2023033370 A1	LG ENERGY SOLUTION LTD	Negative electrode active material, negative electrode comprising negative electrode active material, secondary battery comprising negative electrode, and method for preparing negative electrode active material
WO 2023039013 A2	CHEMOURS CO FC LLC	Cathodes for high voltage lithium-ion secondary battery and dry method for manufacture of same
WO 2023038396 A1	LG ENERGY SOLUTION LTD	Cell assembly to which longitudinal extension structure of pouch-type battery cell is applied, and battery pack comprising same
WO 2023032639 A1	MURATA MANUFACTURING CO	Power supply device
WO 2023041297 A1	RENAULT SAS	Interface for cooling plate coolant manifold
WO 2023278616 A1	AMPLIFY POWER INC	Route based battery preconditioning systems and methods
WO 2023277852 A1	IZMIR YUEKSEK TEKNOLOJİ ENSTITUESUE REKTOERLUEGUE	Electric vehicle ultra fast charging stations and a battery pack thermal management system which can be integrated with these stations
WO 2023002218 A1	FARADION LTD	Sodium-ion cells
WO 2023018907 A2	ELKEM SILICONES USA CORP	Secondary battery pack with improved thermal management
WO 2023028888 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Lithium-ion battery, battery module, battery pack, and electrical device
WO 2023032500 A1	PANASONIC IP MAN CO LTD	Positive electrode for secondary batteries, and secondary battery
WO 2023032871 A1	KYOCERA CORP	Lithium ion secondary battery and nonaqueous electrolyte solution
WO 2023036510 A1	BOSCH GMBH ROBERT	Device and method for heating a traction battery
WO 2023016989 A1	VOLKSWAGEN AG	Battery cell
WO 2023033606 A1	POSCO HOLDINGS INC	Positive electrode active material for rechargeable lithium battery, method of preparing same, and rechargeable lithium battery including same
WO 2023028760 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Battery module, battery and assembly method therefor, assembly apparatus, and electric device
WO 2023288042 A1	SPEAR POWER SYSTEMS INC	Adaptable battery ventilation enclosure with integrated turbulence enhancing cover
WO 2023028850 A1	HUAWEI TECH CO LTD	Power battery thermal runaway control method and apparatus, and power battery
WO 2023001474 A1	PSA AUTOMOBILES SA	High-voltage battery pack and vehicle having the same
WO 2023006434 A1	ATEQ	Leak detection device for a battery pack of a motor vehicle
WO 2023032499 A1	PANASONIC IP MAN CO LTD	Non-aqueous electrolyte secondary battery
WO 2023038469 A1	LG ENERGY SOLUTION LTD	Positive electrode active material, method for preparing same, positive electrode including same, and lithium secondary battery
WO 2023041913 A2	HYPERDRIVE INNOVATION LTD	Modular battery system and method
WO 2023018517 A1	CANOO TECH INC	Single conductor layer cell-to-cell interconnect for electric vehicle power supply or other power supply
WO 2023026799 A1	TOYOTA JIDOSHOKKI KK	Restraining jig

WO 2023038452 A1	LG ENERGY SOLUTION LTD	Battery module and battery pack including same
WO 2023040355 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Negative electrode plate and preparation method thereof, secondary battery, battery module, battery pack and power-consuming apparatus
WO 2023280757 A1	SOLVAY	New method for the preparation of a Li-P-S-O product and corresponding products
WO 2023012496 A1	ARCELORMITTAL	Cooling system of battery pack and its manufacturing method
WO 2023038442 A1	LG ENERGY SOLUTION LTD	Non-aqueous electrolyte solution for lithium secondary battery and lithium secondary battery comprising same
WO 2023043245 A1	LG ENERGY SOLUTION LTD	Electrode for lithium secondary battery, method for manufacturing same, and lithium secondary battery comprising same
WO 2023285058 A2	AUDI AG	Method for determining aging processes of a battery assembly, computer program product, and computer-readable data carrier
WO 2023038109 A1	GCE INST INC	Power generation function-equipped secondary battery
WO 2023042456 A1	OMRON TATEISI ELECTRONICS CO	Battery capacity estimation device, charging plan generation device, discharging plan generation device, and battery capacity estimation method
WO 2023283120 A1	LANXESS CORP	Phosphate ester heat transfer fluids for immersion cooling system
WO 2023037271 A1	3M INNOVATIVE PROPERTIES COMPANY	Firm silicone rubber foam thermal insulation
WO 2023038110 A1	GCE INST INC	Power generation system
WO 2023040402 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Winding needle structure and winding apparatus
WO 2023000889 A1	SHENZHEN CAPCHEM TECHNOLOGY CO LTD	Non-aqueous electrolyte and lithium-ion battery
WO 2023018518 A1	CANOO TECH INC	Single conductor layer cell-to-cell interconnect for electric vehicle power supply or other power supply
WO 2023038439 A1	LG ENERGY SOLUTION LTD	Non-aqueous electrolyte for lithium secondary battery, and lithium secondary battery comprising same
WO 2023035668 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Electrode assembly, battery cell, battery, and electrical device
WO 2023287227 A1	LG ENERGY SOLUTION LTD	Electrolyte composition, gel polymer electrolyte, and lithium secondary battery including same
WO 2023000113 A1	UNIV BRITISH COLUMBIA	Quasi-solid-state lithium tellurium batteries having flexible gel polymer electrolytes
WO 2023018289 A1	LG ENERGY SOLUTION LTD	Cathode for lithium secondary battery, including cathode additive
WO 2023022518 A1	LG CHEMICAL LTD	Positive electrode active material, method for preparing same, and lithium secondary battery comprising same
WO 2023042028 A1	SEMICONDUCTOR ENERGY LAB	Secondary battery and method for producing same
WO 2023279094 A1	ASPEN AEROGELS INC	Venting and filtering components for encapsulated thermal barriers
WO 2023274563 A1	VOLVO TRUCK CORP	A battery system for a heavy-duty vehicle and a heavy-duty vehicle comprising such a battery system
WO 2023286424 A1	PANASONIC IP MAN CO LTD	Current collector and battery
WO 2023015498 A1	HUAWEI DIGITAL POWER TECH CO LTD	Charging method, charging apparatus and computer-readable storage medium
WO 2023022434 A1	LG ENERGY SOLUTION LTD	Electrode cutting device and cell manufacturing device comprising same
WO 2023028076 A1	POLESTAR PERFORMANCE AB	Electric vehicle battery bus bar temperature regulation system and method
WO 2023035163 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Method for charging power battery, and battery management system
WO 2023272566 A1	SCHAEFFLER TECHNOLOGIES AG	Thermal management system for vehicle, and working method thereof
WO 2023002815 A1	PANASONIC IP MAN CO LTD	Sign detection system, sign detection method, and sign detection program
WO 2023034947 A1	UNIFRAX I LLC	Silicon-carbon composite fiber
WO 2023035161 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Power battery charging method and battery management system
WO 2023038402 A1	LG ENERGY SOLUTION LTD	Method for preparing negative electrode active material, negative electrode, and secondary battery

WO 2023043107 A1	LG ENERGY SOLUTION LTD	Charging/discharging jig for measuring battery cell impedance
WO 2023283117 A1	LANXESS CORP	Phosphate ester heat transfer fluids and their use in an immersion cooling system
WO 2023286718 A1	GS YUASA INT LTD	Power storage element
WO 2023024604 A1	ZHEJIANG SANHUA INTELLIGENT CONTROLS CO LTD	Thermal management system and control method therefor
WO 2023031149 A1	VALEO SYSTEMES THERMIQUES	Thermal management device for batteries for an electric or hybrid vehicle
WO 2023034050 A1	EAGLEPICHER TECHNOLOGIES LLC	Battery vent protector
WO 2023272561 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Battery, electric device, method and device for preparing battery, and alarming method
WO 2023276756 A1	PANASONIC IP MAN CO LTD	Lithium secondary battery
WO 2023004361 A1	WATTRII INC	Self-charging electrochemical cells
WO 2023022416 A1	LG ENERGY SOLUTION LTD	Battery pack and device including same
WO 2023024690 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Battery cell and battery, device, preparation method, and preparation device related thereto
WO 2023280798 A1	RHODIA OPERATIONS	Inorganic additive to trap transition metal ions in sodium ion batteries
WO 2023012497 A1	ARCELORMITTAL	Cooling system of battery pack and its manufacturing method
WO 2023018054 A1	LG ENERGY SOLUTION LTD	Electrode assembly
WO 2023039236 A1	SION POWER CORP	High voltage lithium-containing electrochemical cells and related methods
WO 2023035164 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Power battery charging method and battery management system
WO 2023038427 A1	SAMSUNG ELECTRONICS CO LTD	Battery comprising composite electrode protective layer, and manufacturing method therefor
WO 2023037898 A1	DENSO CORP	Vehicle thermal management system and method for operating the same
WO 2023007790 A1	IBIDEN CO LTD	Thermal insulation sheet, method for producing thermal insulation sheet, and battery pack
WO 2023017268 A1	JOHNSON MATTHEY PLC	Lithium ion conductive ceramic material
WO 2023029002 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Negative current collector and secondary battery comprising same, and battery module, battery pack and electric device
WO 2023039486 A1	BATTELLE ENERGY ALLIANCE LLC	Methods of separating metals from a lithium ion battery leachate
WO 2023038473 A1	LG ENERGY SOLUTION LTD	Cathode active material, and cathode and lithium secondary battery comprising same
WO 2023286423 A1	PANASONIC IP MAN CO LTD	Current collector and battery
WO 2023000289 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Battery assembly and processing method and apparatus, battery cell, battery and electric device
WO 2023038388 A1	LG ENERGY SOLUTION LTD	Secondary battery activation method
WO 2023039723 A1	DONGGUAN POWERAMP TECH LIMITED	Battery pack and electrical device
WO 2023043165 A1	LG ENERGY SOLUTION LTD	Secondary battery and battery module including same
WO 2023283229 A1	ENERSYS DELAWARE INC	Bidirectional electrical systems with high-voltage versatile battery packs
WO 2023035145 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Negative electrode pole piece and secondary battery, battery pack, battery module, and electric device
WO 2023043176 A1	LG ENERGY SOLUTION LTD	Electrode assembly, apparatus for manufacturing same, and method for manufacturing same
WO 2023283115 A1	LANXESS CORP	Phosphate ester heat transfer fluids for immersion cooling system
WO 2023279762 A1	GUANGZHOU AUTOMOBILE GROUP CO	Battery state testing method, vehicle device and computer-readable storage medium
WO 2023002816 A1	PANASONIC IP MAN CO LTD	Indication detection system, indication detection method, and indication detection program

WO 2023024040 A1	HUAWEI DIGITAL POWER TECH CO LTD	Firefighting device, battery pack, energy storage system, and electric vehicle
WO 2023026743 A1	PANASONIC IP MAN CO LTD	Deterioration determination system, deterioration determination method, and deterioration determination program
WO 2023038298 A1	LG ENERGY SOLUTION LTD	Pouch-type battery cell with easy-to-cool structure and manufacturing method therefor
WO 2023039771 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Battery cell, battery, electric apparatus, and method and device for preparing battery cell
WO 2023042581 A1	TOYOTA JIDOSHOKKI KK	Control system
WO 2023003340 A1	LG ENERGY SOLUTION LTD	Jelly-roll type electrode assembly and method for manufacturing same
WO 2023276552 A1	DENSO CORP	Battery measuring system
WO 2023282157 A1	PANASONIC IP MAN CO LTD	Battery
WO 2023004115 A1	LYDALL THERMAL/ACOUSTICAL INC	Multi-layer insulator for thermal run-away containment in lithium-ion batteries
WO 2023008151 A1	ZEON CORP	Slurry composition for all-solid-state secondary batteries, solid electrolyte-containing layer, and all-solid-state secondary battery
WO 2023004832 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Battery cell, battery, apparatus, and battery cell manufacturing method and device
WO 2023012294 A1	SGL CARBON SE	Anode material
WO 2023018108 A1	LG ENERGY SOLUTION LTD	Negative electrode active material, method for manufacturing negative electrode active material, negative electrode comprising negative electrode active material, and secondary battery comprising same
WO 2023028894 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Preparation method for modified graphite, secondary battery, battery module, battery pack, and electric apparatus
WO 2023275203 A1	DUKOSI LTD	Battery fault determination
WO 2023015171 A1	ASCEND ELEMENTS INC	Lithium iron phosphate (lfp) battery recycling
WO 2023027359 A1	LG ENERGY SOLUTION LTD	Porous solid compound, method for preparing same, cathode for lithium secondary battery comprising porous solid compound, and lithium secondary battery
WO 2023027436 A1	LG ENERGY SOLUTION LTD	Reuse method of active material of positive electrode
WO 2023282156 A1	PANASONIC IP MAN CO LTD	Battery
WO 2023008569 A1	SHOWA DENKO MAT CO LTD	Electrochemical device, electrolyte solution, and additive used for electrolyte solution
WO 2023280102 A1	DAMITZ THOMAS GERHARD WILHELM	Lithium ion battery and manufacturing method thereof
WO 2023287113 A1	LG ENERGY SOLUTION LTD	Battery device, battery management system, and diagnosis method
WO 2023003259 A1	HYUNDAI DOOSAN INFRACORE CO LTD	Battery pack
WO 2023018218 A1	LG ENERGY SOLUTION LTD	Anode active material, anode slurry, anode, and secondary battery
WO 2023023999 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Liquid bag, battery cell, battery and power device
WO 2023030404 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Pressure relief apparatus, battery cell, battery and electrical device
WO 2023277449 A1	BEILAB CORP	Method for producing amorphous sulfide exhibiting excellent ionic conductivity
WO 2023276577 A1	DENSO CORP	Battery measurement device and battery measurement method
WO 2023005463 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	End cover assembly, battery cell, battery and electrical apparatus
WO 2023020162 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Battery and electrical apparatus
WO 2023021696 A1	HONDA MOTOR CO LTD	Battery output control system and battery output control method
WO 2023022542 A1	LG ENERGY SOLUTION LTD	Electrode assembly and secondary battery comprising same
WO 2023026851 A1	SHINETSU CHEMICAL CO	Non-aqueous electrolyte and non-aqueous electrolyte secondary battery

WO 2023005462 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Battery and electrical apparatus
WO 2023018187 A1	LG ENERGY SOLUTION LTD	Negative electrode active material, negative electrode including same, secondary battery including same and method for preparing negative electrode active material
WO 2023021744 A1	HITACHI ASTEMO LTD	Management device, battery data transmission device, and transmission system
WO 2023026852 A1	SHINETSU CHEMICAL CO	Nonaqueous electrolyte and nonaqueous electrolyte secondary battery
WO 2023027413 A1	LG CHEMICAL LTD	Positive electrode material, method for preparing same, and lithium secondary battery comprising same
WO 2023282233 A1	SHOWA DENKO MAT CO LTD	Method for predicting lifetime improvement effect of lithium-ion secondary battery using additives, and method for manufacturing electrolyte
WO 2023007756 A1	VEHICLE ENERGY JAPAN INC	Secondary battery
WO 2023004833 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Battery cell, battery, power consuming device, and method and device for preparing battery cell
WO 2023010207 A1	LI CYCLE CORP	System and method for recovering metal from battery materials
WO 2023017685 A1	MURATA MANUFACTURING CO	Secondary battery electrolyte solution and secondary battery
WO 2023000291 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Battery assembly and processing method and apparatus, battery cell, battery, and electrical device
WO 2023007919 A1	PANASONIC IP MAN CO LTD	Battery and method for producing same
WO 2023004823 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Wound-type electrode assembly, battery cell, battery and electric device
WO 2023019291 A1	COMMW SCIENT IND RES ORG	A battery management system
WO 2023026849 A1	SHINETSU CHEMICAL CO	Nonaqueous electrolyte and nonaqueous electrolyte secondary battery
WO 2023282358 A1	APB CORP	Secondary battery module and control method therefor
WO 2023015020 A1	VIRGINIA TECH INTELLECTUAL PROPERTIES INC	Rechargeable solid state lithium batteries working over a wide temperature range
WO 2023010927 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Secondary battery, battery module, battery pack, and power-consuming apparatus
WO 2023016047 A1	BTR NEW MAT GROUP CO LTD	Negative electrode material and preparation method therefor, lithium ion battery
WO 2023027456 A1	LG ENERGY SOLUTION LTD	Method and apparatus for manufacturing unit cell
WO 2023029636 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Lithium chip inerting processing apparatus and processing method, and battery lithium supplementing system
WO 2023281910 A1	PANASONIC IP MAN CO LTD	Battery and method for producing same
WO 2023028748 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Battery, electric device, and battery preparation method and device
WO 2023281362 A1	RICOH CO LTD	Power storage system, power supply, driving device, power control device, and method for equalizing power storage statuses
WO 2023023917 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Battery cell, fabrication method therefor and fabrication system thereof, battery, and electrical device
WO 2023028514 A1	GLOBAL GRAPHENE GROUP INC	Flame-resistant hybrid inorganic-polymeric solid-state electrolytes and lithium batteries containing same
WO 2023027431 A1	SAMSUNG SDI CO LTD	Electrode for lithium secondary battery and lithium secondary battery including same
WO 2023279761 A1	GUANGZHOU AUTOMOBILE GROUP CO	Battery state detection apparatus and vehicle device
WO 2023005483 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Lithium supplementing apparatus and lithium supplementing method
WO 2023014329 A1	IZMIR YUEKSEK TEKNOLOJI	Thermal management system for a hybrid battery pack

	ENSTITUESUE REKTOERLUEGUE	
WO 2023022470 A1	LG ENERGY SOLUTION LTD	Secondary battery and device including same
WO 2023027566 A1	LG ENERGY SOLUTION LTD	Secondary battery and secondary battery module comprising same
WO 2023282999 A1	ENEVATE CORP	Prelithiation of free-standing silicon dominant anode batteries
WO 2023283873 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Battery and power consuming device
WO 2023028919 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Positive electrode collector, secondary battery and electrical apparatus
WO 2023281911 A1	PANASONIC IP MAN CO LTD	Battery and method for producing same
WO 2023006094 A1	BYD CO LTD	Charging system and charging device for battery pack
WO 2023007939 A1	PANASONIC IP MAN CO LTD	Negative electrode material, negative electrode, battery, and method for producing same
WO 2023008061 A1	DENSO CORP	Battery-monitoring device
WO 2023013594 A1	TOAGOSEI CO LTD	Electrode binder, electrode mixture layer formation composition, lithium ion secondary battery electrode, and lithium ion secondary battery
WO 2023015558 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Battery cell, battery, electrical device, and method and device for manufacturing battery cell
WO 2023017804 A1	FURUKAWA CO LTD	Sulfide-based inorganic solid electrolyte material, solid electrolyte membrane, all-solid-state lithium-ion battery, apparatus for manufacturing sulfide-based inorganic solid electrolyte material, and method for manufacturing sulfide-based inorganic solid electrolyte material
WO 2023027511 A1	LG ENERGY SOLUTION LTD	Battery module with improved wire bonding connection structure between busbar plate and ICB assembly and battery pack including same
WO 2023024580 A1	HUAWEI TECH CO LTD	Battery monitoring apparatus and battery apparatus
WO 2023027432 A1	LG ENERGY SOLUTION LTD	Lithium secondary battery
WO 2023019374 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Battery, battery manufacturing method and electric apparatus
WO 2023004822 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Battery cell, battery, electric device, and method and device for manufacturing battery cell
WO 2023003263 A1	LG ENERGY SOLUTION LTD	Electrode laminate heating unit and lamination apparatus comprising same
WO 2023004633 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Battery, battery module, battery pack, and electrical device
WO 2023283808 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Battery cell, battery, and electronic apparatus
WO 2023282683 A1	LG ENERGY SOLUTION LTD	Negative electrode for lithium secondary battery, method for preparing negative electrode for lithium secondary battery, and lithium secondary battery comprising negative electrode
WO 2023016411 A1	SHENZHEN CAPCHEM TECHNOLOGY CO LTD	Non-aqueous electrolyte solution and battery
WO 2023024000 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Battery cell, battery, and power consuming device
WO 2023281304 A1	NASH INDUSTRIES I PRIVATE LTD	A battery thermal management system for electric vehicles and a method to operate the same
WO 2023279090 A1	ASPEN AEROGELS INC	Materials, systems, and methods for encapsulating thermal barrier materials
WO 2023279065 A1	UNIV CALIFORNIA	Zircon type ab04 materials as magnesium cathodes
WO 2023003348 A1	CHUNBO CO LTD	Electrolyte composition comprising aluminum corrosion inhibitor and bis(fluorosulfonyl)imide alkali metal salt
WO 2023278506 A1	CONAMIX INC	Battery cathodes
WO 2023014533 A1	QUANVERGE INC	Serviceable batteries with reusable electrodes
WO 2023015521 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Separator, lithium-ion battery, battery module, battery pack, and power consuming device

WO 2023277207 A1	CSIM CO LTD	Method for preparing phosphate propargyl ester compound useful as flame retardant for lithium ion battery
WO 2023276547 A1	DENSO CORP	Battery measurement device
WO 2023277316 A1	SAMSUNG SDI CO LTD	Positive electrode active material for lithium secondary battery, preparation method therefor, and lithium secondary battery comprising positive electrode containing positive electrode active material
WO 2023282558 A1	LG ENERGY SOLUTION LTD	Composite negative electrode active material, method for preparing same, negative electrode comprising same, and secondary battery
WO 2023012383 A1	BEEPLANET FACTORY S L	Method for characterising batteries
WO 2023018190 A1	LG ENERGY SOLUTION LTD	Negative electrode active material, and negative electrode and secondary battery including same
WO 2023018775 A1	NOHMS TECH INC	Silicon-polymer based composite anodes for lithium-ion batteries and methods of making the same
WO 2023018191 A1	LG ENERGY SOLUTION LTD	Silicon-containing negative electrode active material, negative electrode including same, and secondary battery including same
WO 2023282607 A1	MH TECH INC	Battery housing for actively cooling, heating or insulating battery storing electrical energy and method of controlling the same
WO 2023000281 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Thermal management part, battery, and electrical device
WO 2023004774 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Battery group, battery pack and electric apparatus
WO 2023000184 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Battery cell, battery, electrical device, and method and device for fabricating battery cell
WO 2023004720 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Battery, electrical apparatus, and manufacturing system and manufacturing method for battery
WO 2023008775 A1	LG ENERGY SOLUTION LTD	Lithium secondary battery and manufacturing method therefor
WO 2023004750 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Battery, electrical device, and battery production method and device
WO 2023004779 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Battery, power consuming device, and preparation method and device for battery
WO 2023013967 A1	LG ENERGY SOLUTION LTD	Apparatus and method for managing battery
WO 2023015339 A1	KNORR BREMSE AUSTRALIA PTY LTD	A cooling system for cooling the battery of an electric vehicle
WO 2023282713 A1	LG ENERGY SOLUTION LTD	Battery management system, battery pack, electric vehicle, and battery management method
WO 2023013889 A1	LG CHEMICAL LTD	Lithium secondary battery
WO 2023004819 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Secondary battery and battery module comprising same, battery pack, and electric device
WO 2023000254 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Method for determining full-charge capacity of battery pack, method for determining state of health of battery pack, system, and apparatus
WO 2023004660 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Battery, power-utilization device, and battery preparation method and device
WO 2023013835 A1	THE INDUSTRY & ACADEMIC COOPERATION IN CHUNGNAM NATIONAL UNIV	Electrode having current collector that has three-dimensional structure, and battery using same
WO 2023277561 A1	LG ENERGY SOLUTION LTD	Prediction system and prediction method for time of occurrence of vent in battery cell
WO 2023283847 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Electrode assembly, processing method and apparatus, battery cell, battery, and electronic device
WO 2023015444 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Lithium-ion secondary battery, battery module, battery pack, and electrical device

WO 2023004777 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Battery box body, battery, electric device, and battery preparation method and device
WO 2023283341 A2	UNIV MICHIGAN REGENTS	Early-life diagnostics for fast battery formation protocols and their impacts to long-term aging
WO 2023004821 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Electrolyte, secondary battery, battery module, battery pack, and electric device
WO 2023282684 A1	LG ENERGY SOLUTION LTD	Anode for lithium secondary battery, manufacturing method of anode for lithium secondary battery, and lithium secondary battery comprising anode
WO 2023004673 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Battery charging method, battery management system, and charging and discharging device
WO 2023003654 A2	UNIV ARKANSAS	Sulfide coatings for ultra-stable cathodes of lithium batteries
WO 2023000234 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Battery, electrical device, and method and device for preparing battery
WO 2023004780 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Battery, electrical device, and method and device for preparing battery

[..volver a CONTENIDO](#)

SUPERCONDENSADORES

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2023021274 A1	UNIV SURREY	A supercapacitor comprising a separator with a permanent electrical dipole
WO 2023276863 A1	GS YUASA INT LTD	Non-aqueous electrolyte power storage element
WO 2023033291 A1	LS MAT CO LTD	Electric double layer capacitor
WO 2023026792 A1	TOYOTA JIDOSHOKKI KK	Restraint jig and method for manufacturing power storage module
WO 2023026793 A1	TOYOTA JIDOSHOKKI KK	Method for manufacturing power storage module
WO 2023282056 A1	SHOWA DENKO PACKAGING CO LTD	Exterior material for power storage device, method for manufacturing same, and power storage device

[...volver a CONTENIDO](#)

SISTEMAS DE RECUPERACIÓN DE ENERGÍA; FRENOS REGENERATIVOS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2023042138 A1	BREMBO SPA	Method and system for controlling wheel slip with mixing of the dissipative braking torque and the regenerative braking torque in a braking system with B-b-W technology of a vehicle
WO 2023280876 A1	BOSCH GMBH ROBERT	Brake control device for a vehicle, and method for operating a brake control device for a vehicle
WO 2023042517 A1	MITSUBISHI MOTORS CORP	Electric vehicle control device
WO 2023276696 A1	DENSO CORP	Vehicle control device, and program
WO 2023276615 A1	DENSO CORP	Vehicle control device, and program

[...volver a CONTENIDO](#)

MÁQUINAS ELÉCTRICAS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2023030888 A1	MAHLE INT GMBH	Hollow shaft for a rotor of electric motor
WO 2023030867 A1	OBRIST TECH GMBH	Drive system for a vehicle
WO 2023031429 A1	MAHLE INT GMBH	One-shot overmolding of the rotor for electric motor
WO 2023284912 A1	SCHAEFFLER TECHNOLOGIES AG	Method for controlling the temperature of an electric motor, and fluid supply device
WO 2023030911 A1	MAHLE INT GMBH	Direct cooled electric motor
WO 2023031280 A1	MAHLE INT GMBH	Electric motor
WO 2023029037 A1	SCHAEFFLER TECHNOLOGIES AG	In-wheel electric motor drive system
WO 2023032257 A1	HITACHI ASTEMO LTD	Electric motor system
WO 2023017275 A1	SAIETTA GROUP PLC	Radial flux electrical machine
WO 2023020662 A1	KIEKERT AG	Electric motor-driven actuation device for motor vehicle applications
WO 2023020863 A1	RENAULT SAS	Method for assembling a stator body for an axial flux electric machine
WO 2023041551 A1	BAYERISCHE MOTORENWERKE AG	Vehicle with an electric energy storage device
WO 2023006653 A1	VALEO EAUTOMOTIVE GERMANY GMBH	Stator-housing assembly for an electric machine, having improved welding joints
WO 2023026637 A1	NIDEC CORP	Rotating electrical machine
WO 2023274634 A1	VALEO EAUTOMOTIVE GERMANY GMBH	Rotor having an end plate with a radial ventilation opening
WO 2023275702 A1	ELDOR CORP SPA	Switching device for an electric motor and an electric motor comprising said switching device
WO 2023276729 A1	DENSO CORP	Clutch actuator
WO 2023276724 A1	DENSO CORP	Control device, and manufacturing method therefor
WO 2023018121 A1	LG INNOTEK CO LTD	Motor
WO 2023026499 A1	HITACHI ASTEMO LTD	Rotating electric machine rotor and rotating electric machine
WO 2023272714 A1	SCHAEFFLER TECHNOLOGIES AG	Housing having heat dissipation function, electric motor and vehicle
WO 2023276720 A1	DENSO CORP	Clutch actuator
WO 2023018488 A1	GRAY PHILIP	Distributed and synchronized self-charging electric car
WO 2023272728 A1	SCHAEFFLER TECHNOLOGIES AG	Motor stator and motor
WO 2023274635 A1	VALEO EAUTOMOTIVE GERMANY GMBH	Rotor with a filling opening comprising a guide
WO 2023276719 A1	DENSO CORP	Clutch actuator
WO 2023027876 A1	SCHAEFFLER TECHNOLOGIES AG	Motor with stator formed from stator motorettes and compression spacers for increased heat transfer efficiency
WO 2023012010 A1	BROSE FAHRZEUGTEILE SE & CO KG BAMBERG	Adjusting drive for an adjusting element of a motor vehicle, and use of a screw
WO 2023008048 A1	HITACHI LTD	Heat cycle system, in-wheel motor, and vehicle
WO 2023018971 A1	PAHA DESIGNS LLC	High efficiency electric motor
WO 2023279135 A1	BLUVEIN INNOVATION AB	Electric vehicle for heavy duty applications

[...volver a CONTENIDO](#)

CONVERTIDORES, INVERSORES

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2023028328 A1	HUMMINGBIRD EV	Systems and methods for energy transfer for electrical vehicles
WO 2023025715 A1	SAX POWER GMBH	Circuit arrangement and method for generating an ac voltage
WO 2023285020 A1	BOSCH GMBH ROBERT	Central module of an electric vehicle, and electric vehicle
WO 2023046333 A1	ROBERT BOSCH GMBH	Device and method for charging an intermediate circuit capacitor, energy supply network and electrical drive system
WO 2023021087 A1	ZAHNRADFABRIK FRIEDRICHSHAFEN	Method and device for detecting a short circuit of a semiconductor switch element in an inverter for energizing an electric drive in an electric vehicle or hybrid vehicle; inverter comprising such a device
WO 2023288315 A1	KARMA AUTOMOTIVE LLC	Vehicle to vehicle charging system
WO 2023032419 A1	KYOSAN ELECTRIC MFG	RF band power supply device and pulse width modulation control method
WO 2023036727 A1	SZYMANSKI LUKASZ	A power system for driving an electric motor
WO 2023041482 A1	VITESCO TECH GMBH	Electrical system for a motor vehicle
WO 2023008758 A1	WONIK PNE CO LTD	Controller for controlling converter for charging/discharging battery, and charger/discharger
WO 2023036628 A1	VALEO EAUTOMOTIVE GERMANY GMBH	DC link film capacitor having spring connectors for a power converter, particularly for an inverter
WO 2023006726 A1	MERCEDES BENZ GROUP AG	Electrical drive system for a vehicle, vehicle having a corresponding electrical drive system, and method for operating a corresponding electrical drive system
WO 2023036495 A1	BOSCH GMBH ROBERT	Method and device for operating an electrically driven vehicle
WO 2023032024 A1	MITSUBISHI ELECTRIC CORP	Semiconductor drive device and power conversion device comprising same
WO 2023040448 A1	HUAWEI DIGITAL POWER TECH CO LTD	Energy storage system, uninterruptible power supply, and battery balancing method
WO 2023033108 A1	FCC KK	Electric vehicle
WO 2023285446 A1	VALEO EAUTOMOTIVE FRANCE SAS	Power converter
WO 2023043249 A1	LG INNOTEK CO LTD	Converter
WO 2023031345 A1	PRODRIVE TECH INNOVATION SERVICES B V	Flying capacitor circuit with active capacitor voltage control
WO 2023039127 A1	HITT JOSHUA PAUL	Programmable hybrid battery bank
WO 2023016715 A1	ZAHNRADFABRIK FRIEDRICHSHAFEN	Half bridge for an inverter for operating an electric vehicle drive, power module comprising a plurality of half bridges, inverter, and method for producing an inverter
WO 2023032590 A1	KYOCERA CORP	Film capacitor, combined capacitor, inverter, and electric vehicle
WO 2023009305 A1	WANG YONGXIN	Power supply system for electric vehicles
WO 2023012628 A1	ELDOR CORP SPA	A bidirectional DC-DC converter and a method of controlling said bidirectional DC-DC converter
WO 2023012635 A1	HORACIO PAGANI S P A	High performance electric vehicle
WO 2023036529 A1	SIEMENS ENERGY GLOBAL GMBH & CO KG	Method for operating a vehicle electrical system
WO 2023001828 A1	VITESCO TECH GMBH	Battery management method and battery management system for an on-board electrical system battery of a hybrid motor vehicle
WO 2023002623 A1	HITACHI ASTEMO LTD	Electric power converting device, and method for manufacturing electric power converting device
WO 2023023991 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Control method, apparatus and system for electric motor, and electric vehicle
WO 2023276797 A1	MURATA MANUFACTURING CO	Switching power supply device
WO 2023274695 A1	HELLA GMBH & CO KGAA	Capacitively isolated DC-DC converter, system, battery and vehicle comprising said DC-DC converter
WO 2023021088 A1	ZAHNRADFABRIK FRIEDRICHSHAFEN	Storage inductor with modular inner cores for a DC voltage converter, DC voltage converter, and vehicle
WO 2023038289 A1	LG ENERGY SOLUTION LTD	Battery management device and method for operating same
WO 2023022001 A1	MITSUBISHI ELECTRIC CORP	Power module and power conversion device
WO 2023039333 A1	ATIEVA INC	Multi-motor electric-vehicle drive units

WO 2023015523 A1	HUAWEI TECH CO LTD	Voltage conversion apparatus having current equalization function, current equalization method and apparatus, and medium
WO 2023031393 A1	ZAHNRADFABRIK FRIEDRICHSHAFEN	Inverter arrangement for a vehicle, and vehicle having the inverter arrangement
WO 2023042962 A1	HYOSUNG CORP	Multi-channel charging system
WO 2023031384 A1	ZAHNRADFABRIK FRIEDRICHSHAFEN	Switch module for an inverter arrangement, inverter arrangement having the switch module and vehicle having the inverter arrangement
WO 2023275140 A1	ATLAS TECH HOLDING B V	Seamless electrical integration of solar panels to the low-voltage architecture of any ev
WO 2023278822 A1	TAE TECH INC	Systems, devices, and methods for module-based cascaded energy systems having reconfigurable arrays
WO 2023002936 A1	SANDEN ADVANCED TECH CORPORATION	Inverter device
WO 2023009648 A1	UNIV COLUMBIA	Systems and methods for power conversion with lc filter having additional capacitor
WO 2023002810 A1	DENSO CORP	Device for vehicle
WO 2023037579 A1	HITACHI ASTEMO LTD	Inverter control device, electric power steering system, electric vehicle system
WO 2023006441 A2	DEEPDRIVE GMBH	Three- or multi-level inverter circuit, electric drive system and method
WO 2023027557 A1	LG ENERGY SOLUTION LTD	Hybrid charging device for electric vehicle, charging system comprising same, and charging method using same
WO 2023015316 A1	IGRENERGI INC	System and method for dynamically balancing power from distributed power sources in a battery pack
WO 2023278972 A1	MAGNA POWERTRAIN USA INC	Charger and DC-DC converter for in plug-in electric vehicles
WO 2023279196 A1	EXRO TECH INC	Dynamically reconfigurable power converter utilizing windings of electrical machine
WO 2023275085 A1	VALEO EAUTOMOTIVE FRANCE SAS	Busbar assembly comprising a magnetic core device

[...volver a CONTENIDO](#)

RECARGA DE BATERÍAS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2023031427 A1	CHARGE X GMBH	Device for charging electrical appliances, in particular electric vehicles
WO 2023046542 A1	MERCEDES BENZ GROUP AG	Method for detecting defective charging stations
WO 2023031665 A1	IVECO FRANCE SAS	Improved recharge system for vehicular batteries and related recharge method
WO 2023025995 A1	PSA AUTOMOBILES SA	Method for managing an electric vehicle recharging session so as to determine a target end-of-charge state of charge
WO 2023285910 A1	WIBAR TECH SP Z O O	Hybrid system for power supply
WO 2023021443 A1	RHODES CLARA M	Heat exchanger for a charging inlet assembly
WO 2023285923 A1	ACCELERATED SYSTEMS INC	Electric vehicle battery management and usage limitations derived from environmental events
WO 2023006295 A1	BOSCH GMBH ROBERT	Device and method for controlling the energy consumption in an electrically driven vehicle
WO 2023036894 A1	ADAPTIVE BALANCING POWER GMBH	Booster functionality for a charging station for charging electric vehicles
WO 2023041386 A1	RENAULT SAS	Electric charging system of a vehicle
WO 2023006253 A1	SIEMENS MOBILITY GMBH	Power supply for a rail vehicle, having a traction battery
WO 2023001966 A1	WEBASTO SE	Device and method for charging an electric vehicle
WO 2023041355 A1	VITESCO TECH GMBH	Unit for controlling the power management of a heating system of a catalytic converter for a motor vehicle
WO 2023002104 A1	NEXANS	Wireless system for charging an electric battery for a motor vehicle suitable for use in a car park
WO 2023279098 A1	UNIVERSAL POWER & PNEUMATICS LLC	Modular charging and power system
WO 2023043679 A1	CUMMINS INC	Integrated onboard charging of electric vehicles
WO 2023283178 A1	VOLTA CHARGING LLC	Systems and methods for charging an electric vehicle based on inferred dwell time
WO 2023016655 A1	HITACHI ENERGY SWITZERLAND AG	Controlling and scheduling of charging of electrical vehicles and related systems and methods
WO 2023041231 A1	MERCEDES BENZ GROUP AG	Method for determining an intelligent preselection of suitable charging stations for carrying out a charging stop, charging stop planning assistant, and vehicle
WO 2023009784 A1	FREEWIRE TECH INC	High-availability low-impact vehicle charger
WO 2023000645 A1	SHANGHAI ENNEAGON ENERGY TECH LTD	Battery swap station platform and battery swap system for electric vehicle
WO 2023008027 A1	SUMITOMO WIRING SYSTEMS	Charging connector
WO 2023009638 A1	ELECTRIC POWER SYSTEMS INC	Mobile charging system with bi-directional dc / dc converter
WO 2023022102 A1	POWERX INC	Rapid-charging device and system
WO 2023001026 A1	HUAWEI TECH CO LTD	Driving assembly and control method therefor
WO 2023006900 A1	EASELINK GMBH	Ground contact unit for a vehicle battery charging system
WO 2023275344 A2	WEBASTO SE	Charging cable, charging station, charging system, and method for transmitting a charging current from a charging station to a traction battery
WO 2023019191 A2	ENERSYS DELAWARE INC	Methods, systems, and devices for inductive charging of vehicle batteries
WO 2023004716 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Charging/discharging apparatus, battery charging and discharging method, and charging/discharging system
WO 2023004659 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Charging and discharging device and battery charging method
WO 2023004712 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Charging and discharging apparatus, battery charging method, and charging and discharging system
WO 2023004711 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Charging/discharging apparatus, battery charging method, and charging/discharging system

[...volver a CONTENIDO](#)

CAMBIO DE BATERÍAS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2023020462 A1	GEELY HOLDING GROUP CO LTD	Quick-swapping hybrid vehicle, quick swapping platform, and quick swapping method
WO 2023028862 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Battery swapping method, server, and battery installation/removal device
WO 2023028887 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Server for battery swapping station, battery charging method, system and device, and medium
WO 2023041085 A1	AULTON NEW ENERGY AUTOMOBILE TECH CO LTD	Vehicle-bearing platform for reducing friction in direction of vehicle, and battery-swapping station
WO 2023038297 A1	LG ENERGY SOLUTION LTD	Battery swapping station using battery pack operation during power supply cutoff
WO 2023028873 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Battery swapping method, apparatus and system, and device and medium
WO 2023028852 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Vehicle control method, module and system, and device and medium
WO 2023028876 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Battery swapping method, module, device, and medium
WO 2023023977 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Method for swapping battery of vehicle, and battery swapping vehicle and electronic device

[...volver a CONTENIDO](#)

iiPor sólo 500€ añada 150 especialistas* a su Equipo de I+D!!



Los ITPs** de la OEPM nos proporcionan información imprescindible para decidir la priorización óptima de proyectos de I+D en los que invertir.



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



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



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.

OEPM