

### Noticias

El 7 de abril supimos que El Ministerio para la Transición Ecológica y el Reto Demográfico (MITECO) va a destinar un [presupuesto adicional de 125 millones de euros al Programa de Incentivos a la Movilidad Eficiente y Sostenible \(MOVES III\)](#), para el impulso de la movilidad eléctrica en Cataluña, la Comunidad de Madrid, Castilla y León e Islas Baleares.

El 14 de mayo se publicó en el BOE la Orden ICT/426/2022, de 13 de mayo, en la que se amplía por segunda vez, el [plazo para solicitar las ayudas contempladas en el Proyecto Estratégico para la Recuperación y Transformación Económica del Vehículo Eléctrico y Conectado \(PERTE VEC\)](#), desplazando la fecha límite al 3 de junio.

El 9 de junio la Ministra Reyes Maroto avanzó los [resultados de la convocatoria del PERTE VEC](#). Se han recibido solicitudes de 13 proyectos tractores por valor de 5.927 millones euros de inversión subvencionable, conformados por 487 proyectos primarios que involucran a 327 empresas.

Las pymes representan el 55,7% de las entidades participantes, seguido de las grandes empresas que representan 38,8%. El 5,5% lo conforman Universidades públicas, centros tecnológicos de ámbito estatal y entidades sin ánimo de lucro, entre otros.

Los proyectos se distribuyen geográficamente por todo el territorio peninsular. Por número de proyectos presentados destacan Cataluña con 89 y la Comunidad Valencia con 82, seguida del País Vasco con 39, mientras que, por inversión

movilizada, la Comunidad Valenciana se sitúa en primer lugar, seguida de Cataluña y Extremadura.

El Consejo de Ministros aprobó el 14 de junio el [Real Decreto de modificación del Código Técnico de la Edificación \(CTE\)](#) para facilitar el despliegue de la infraestructura de recarga para el impulso del vehículo eléctrico en España.

En él se fija la dotación mínima de infraestructura de recarga de vehículos eléctricos con la que deben contar los edificios nuevos y las intervenciones en edificios existentes de determinada entidad:

- Para los edificios de uso residencial privado, con más de 20 plazas de aparcamiento, este Real Decreto exige canalizaciones que sirvan como preinstalación de las infraestructuras de recarga para el 100% de las plazas de aparcamiento.
- Para los edificios de usos distintos al residencial privado, con más de 10 plazas de aparcamiento, la norma exige canalizaciones que sirvan como preinstalación de las infraestructuras de recarga para el 20% de las plazas de aparcamiento, así como la instalación de un punto de recarga cada 40 plazas o fracción. La exigencia de puntos de recarga se eleva a un punto de recarga cada 20 plazas o fracción para los edificios que pertenezcan a la Administración General de Estado.

[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
<a href="#">WO 2022130450 A1</a>	TOSHIBA KK	Battery
<a href="#">WO 2022106221 A1</a>	BAYERISCHE MOTOREN WERKE AG	Cathode active material, and lithium ion battery comprising said cathode active material
<a href="#">WO 2022108080 A1</a>	LG ENERGY SOLUTION LTD	Secondary battery and manufacturing method for same
<a href="#">WO 2022106120 A1</a>	BAYERISCHE MOTOREN WERKE AG	Method for producing a lithium-ion battery cell, and lithium-ion battery cell
<a href="#">WO 2022074051 A1</a>	SMART BATTERY SOLUTIONS GMBH	Smart electrical connector for exchangeable battery units of an electrically operated vehicle
<a href="#">WO 2022107740 A1</a>	NISSAN CHEMICAL CORP	Secondary battery electrode additive
<a href="#">WO 2022130275 A1</a>	UFI INNOVATION CENTER S R L	Thermal regulation device
<a href="#">WO 2022074016 A1</a>	RENAULT SAS	Cooling system
<a href="#">WO 2022074431 A1</a>	H55 SA	Battery module for electrically-driven aircraft
<a href="#">WO 2022101780 A1</a>	INVISTA TEXTILES UK LTD	Hybrid cooling plate for modular array
<a href="#">WO 2022118443 A1</a>	SHOWA DENKO MAT CO LTD	Electrolyte and dual ion battery
<a href="#">WO 2022107428 A1</a>	NIDEC CORP	Temperature regulator
<a href="#">WO 2022074282 A1</a>	TURUN AMMATTIKORKEAKOULU OY	Battery lid and battery assembly
<a href="#">WO 2022073677 A1</a>	BAYERISCHE MOTOREN WERKE AG	Battery cell having a plurality of electrode units in a common battery cell housing
<a href="#">WO 2022076207 A1</a>	EXXONMOBIL CHEMICAL PATENTS INC	Heat transfer fluids comprising isomeric branched paraffin dimers derived from linear alpha olefins and use thereof
<a href="#">WO 2022074369 A1</a>	KING S COLLEGE LONDON	Method of forming an electrode
<a href="#">WO 2022123634 A1</a>	HONDA MOTOR CO LTD	Management system
<a href="#">WO 2022131262 A1</a>	SHOWA DENKO MAT CO LTD	Lithium-ion secondary-battery negative electrode material and method for manufacturing same, lithium-ion secondary-battery negative electrode, and lithium ion secondary battery
<a href="#">WO 2022111964 A1</a>	BAYERISCHE MOTOREN WERKE AG	Method for contacting components in electric systems in a bonded manner, energy storage unit, and use of the energy of an energy storage unit
<a href="#">WO 2022130092 A1</a>	SEMICONDUCTOR ENERGY LAB	Secondary battery and monitoring system for secondary battery
<a href="#">WO 2022126634 A1</a>	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Electrode assembly and manufacturing method and manufacturing system therefor, battery cell, battery and electrical device
<a href="#">WO 2022105696 A1</a>	SONGSHAN LAKE MAT LAB	Positive electrode active material precursor and preparation method therefor, positive electrode active material and preparation method therefor, positive electrode of lithium ion secondary battery, and lithium ion secondary battery
<a href="#">WO 2022133019 A1</a>	PHILLIPS 66 CO	In situ electrolyte additives for batteries
<a href="#">WO 2022118640 A1</a>	OTSUKA CHEMICAL CO LTD	Titanic acid-based solid electrolyte material
<a href="#">WO 2022132897 A1</a>	THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ARKANSAS	Coated nickel-rich layered oxide electrodes and applications thereof
<a href="#">WO 2022126906 A1</a>	GUANGZHOU AUTOMOBILE GROUP CO	Method and system for optimizing battery management system model, and storage medium and electric vehicle
<a href="#">WO 2022074329 A1</a>	COMMISSARIAT ENERGIE ATOMIQUE	Method for discharging an electrochemical generator
<a href="#">WO 2022087358 A1</a>	SILA NANOTECHNOLOGIES INC	Surface coated porous substrates and particles and systems and methods thereof

<a href="#">WO 2022092700 A1</a>	LG ENERGY SOLUTION LTD	Lithium-sulfur secondary battery comprising electrolyte containing borate-based lithium salt
<a href="#">WO 2022098666 A1</a>	UNIV NORTHERN ILLINOIS BOARD OF TRUSTEES	Doped sodium anode, battery having a doped sodium anode, and methods of use thereof
<a href="#">WO 2022105614 A1</a>	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Lithium metal negative electrode, preparation method therefor and related lithium metal battery thereof, and device
<a href="#">WO 2022087830 A1</a>	NINGDE AMPEREX TECHNOLOGY LTD	Electrolyte and electrochemical device and electronic device comprising same
<a href="#">WO 2022096278 A1</a>	VALEO SYSTEMES THERMIQUES	Temperature control device, in particular a cooling device for a motor vehicle
<a href="#">WO 2022102961 A1</a>	SAMSUNG ELECTRONICS CO LTD	Cathode active material, cathode and lithium secondary battery comprising same, and preparation method therefor
<a href="#">WO 2022103213 A1</a>	LG ENERGY SOLUTION LTD	Battery diagnostic device and battery diagnostic method
<a href="#">WO 2022107383 A1</a>	NIDEC CORP	Temperature regulating device
<a href="#">WO 2022120026 A1</a>	SION POWER CORP	Low porosity electrodes and related methods
<a href="#">WO 2022124700 A1</a>	LG ENERGY SOLUTION LTD	Battery pack and vehicle comprising battery pack
<a href="#">WO 2022070312 A1</a>	SHOWA DENKO MAT CO LTD	Electrolyte solution and electrochemical device
<a href="#">WO 2022101974 A1</a>	SHOWA DENKO MAT CO LTD	Electrode group for battery, storage battery, battery pack, electric vehicle, and manufacturing method for electrode group for battery
<a href="#">WO 2022102910 A1</a>	LG ENERGY SOLUTION LTD	Battery pack having circuit board and electrode lead bonded directly to each other by laser welding method
<a href="#">WO 2022118928 A1</a>	MAXELL LTD	All-solid-state battery system
<a href="#">WO 2022120210 A1</a>	NEPTUNE SCOOTERS	Manufacturing a battery pack using a welding jig
<a href="#">WO 2022124370 A1</a>	GS YUASA INT LTD	Solid electrolyte, method for manufacturing solid electrolyte, power storage element, electronic device, and automobile
<a href="#">WO 2022069811 A1</a>	PSA AUTOMOBILES SA	Vehicle battery voltage management method
<a href="#">WO 2022103101 A1</a>	LG ENERGY SOLUTION LTD	Lithium secondary battery
<a href="#">WO 2022107429 A1</a>	NIDEC CORP	Temperature regulator
<a href="#">WO 2022124660 A1</a>	LG ENERGY SOLUTION LTD	Battery module and battery pack including same
<a href="#">WO 2022092302 A1</a>	ASAHI CHEMICAL IND	Siloxane dispersed crosslinked separator
<a href="#">WO 2022103105 A1</a>	LG ENERGY SOLUTION LTD	Cathode active material for lithium secondary battery, method for manufacturing same, and lithium secondary battery comprising same
<a href="#">WO 2022119524 A1</a>	CETKIN ERDAL	A battery pack with thermal management system
<a href="#">WO 2022069838 A1</a>	HUTCHINSON	Method for recycling a lithium ion battery electrode, precursor mixture and electrode composition for said battery
<a href="#">WO 2022096995 A1</a>	3M INNOVATIVE PROPERTIES CO	Fluids for immersion cooling of electronic components
<a href="#">WO 2022094992 A1</a>	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Electrical device, method for preparing electrical device, and apparatus for preparing electrical device
<a href="#">WO 2022100280 A1</a>	GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP LTD	Composite current collector, composite pole piece, battery, and electronic device
<a href="#">WO 2022108291 A1</a>	LG ENERGY SOLUTION LTD	Battery pack including structure for suppressing thermal diffusion
<a href="#">WO 2022118721 A1</a>	CANON KK	Active material particles, positive electrode, secondary battery, and method for producing active material particles
<a href="#">WO 2022074999 A1</a>	MURATA MANUFACTURING CO	Secondary battery
<a href="#">WO 2022081375 A1</a>	COVESTRO LLC	A modular battery pack
<a href="#">WO 2022102792 A1</a>	MURATA MANUFACTURING CO	Solid-state battery
<a href="#">WO 2022103184 A1</a>	LG CHEMICAL LTD	Separator for lithium secondary battery, and method for manufacturing same
<a href="#">WO 2022103231 A1</a>	LG ENERGY SOLUTION LTD	Battery cell cooling device, battery pack including same, and method for cooling battery cell by using same
<a href="#">WO 2022107384 A1</a>	NIDEC CORP	Temperature regulating device
<a href="#">WO 2022115976 A1</a>	GEELY HOLDING GROUP CO LTD	Method and apparatus for controlling heat pump air-conditioning system of traveling vehicle, and device and storage medium

<a href="#">WO 2022069277 A1</a>	RENAULT SAS	Dynamic system for balancing charging voltage for battery modules
<a href="#">WO 2022075618 A1</a>	LG ENERGY SOLUTION LTD	Battery device and method for predicting battery output
<a href="#">WO 2022076280 A1</a>	UNIV NORTHWESTERN	Composites with surface refining and conformal graphene coating, electrodes, and fabricating methods of same
<a href="#">WO 2022103112 A1</a>	LG ENERGY SOLUTION LTD	Non-aqueous electrolyte for lithium secondary battery and lithium secondary battery comprising same
<a href="#">WO 2022124584 A1</a>	LG ENERGY SOLUTION LTD	Battery module and battery pack including same
<a href="#">WO 2022075655 A1</a>	SAMSUNG ELECTRONICS CO LTD	Methods and systems for detecting faulty behavior in a battery
<a href="#">WO 2022103094 A1</a>	LG ENERGY SOLUTION LTD	Positive electrode for lithium secondary battery, and lithium secondary battery
<a href="#">WO 2022107826 A1</a>	MURATA MANUFACTURING CO	Solid electrolyte ceramic and solid state battery
<a href="#">WO 2022108278 A1</a>	LG ENERGY SOLUTION LTD	Air cooling type battery module having separate cooling structure for battery cell
<a href="#">WO 2022114929 A1</a>	LG ENERGY SOLUTION LTD	Cathode active material, and cathode and lithium secondary battery comprising same
<a href="#">WO 2022124774 A1</a>	LG ENERGY SOLUTION LTD	Positive electrode active material for lithium secondary battery, and lithium secondary battery comprising same
<a href="#">WO 2022090060 A1</a>	BOSCH GMBH ROBERT	Lid module of a battery cell housing, method for production thereof, and use of such a lid module
<a href="#">WO 2022090348 A1</a>	KAUTEX TEXTRON GMBH & CO KG	Battery shell, traction battery, motor vehicle, tool for producing a monolithic battery shell and method for producing a monolithic battery shell
<a href="#">WO 2022099247 A1</a>	GLOBAL GRAPHENE GROUP INC	Lithium-protecting polymer layer for an anode-less lithium metal secondary battery and manufacturing method
<a href="#">WO 2022103211 A1</a>	LG ENERGY SOLUTION LTD	Battery pack, vehicle, and electronic device
<a href="#">WO 2022107892 A1</a>	MURATA MANUFACTURING CO	Secondary battery, secondary battery control system, and battery pack
<a href="#">WO 2022113969 A1</a>	RICOH CO LTD	Liquid composition for electrode, storage container, electrode manufacturing device, method of manufacturing electrode, electrode, and electrochemical device
<a href="#">WO 2022117500 A1</a>	H K O ISOLIER UND TEXTILTECHNIK GMBH	Multilayer protective element for a battery
<a href="#">WO 2022124213 A1</a>	CANON KK	Solid-state secondary battery
<a href="#">WO 2022099623 A1</a>	SCHAEFFLER TECHNOLOGIES AG	Battery assembly
<a href="#">WO 2022106954 A1</a>	SEMICONDUCTOR ENERGY LAB	Secondary battery, power storage system, vehicle, and positive electrode production method
<a href="#">WO 2022117080 A1</a>	BYD CO LTD	Lithium ion battery and power vehicle
<a href="#">WO 2022084600 A1</a>	ARKEMA FRANCE	Thermal regulation of a battery by immersion in a liquid composition
<a href="#">WO 2022120666 A1</a>	MICROVAST POWER SYSTEMS CO LTD	Lithium ion secondary battery and electric vehicle
<a href="#">WO 2022100201 A1</a>	GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP LTD	Electrode plate, battery cell component, battery component, and electronic device
<a href="#">WO 2022107801 A1</a>	MURATA MANUFACTURING CO	Solid electrolyte ceramic and solid-state battery
<a href="#">WO 2022083992 A1</a>	BAYERISCHE MOTOREN WERKE AG	Production of a cell casing of a battery cell, and cell casing
<a href="#">WO 2022081325 A1</a>	SION POWER CORP	Electrolytes for lithium batteries
<a href="#">WO 2022102994 A1</a>	LG ENERGY SOLUTION LTD	Anode for all-solid-state battery and all-solid-state battery including same
<a href="#">WO 2022122394 A1</a>	BOSCH GMBH ROBERT	Method for detecting an unstable state of a vehicle battery
<a href="#">WO 2022121487 A1</a>	HUAWEI DIGITAL POWER TECH CO LTD	Battery module, battery pack, and vehicle
<a href="#">WO 2022071392 A1</a>	FUJIFILM CORP	Inorganic solid electrolyte-containing composition, sheet for all-solid secondary battery, and all-solid secondary battery, and methods for manufacturing sheet for all-solid secondary battery and all-solid secondary battery
<a href="#">WO 2022097073 A1</a>	EOCELL LTD	Nonaqueous electrolyte for lithium ion secondary battery, and lithium ion secondary battery containing the same
<a href="#">WO 2022097943 A1</a>	LG ENERGY SOLUTION LTD	Air-cooled battery pack for electric vehicle

<a href="#">WO 2022098097 A1</a>	LG ENERGY SOLUTION LTD	Coolant port assembly
<a href="#">WO 2022103130 A1</a>	LG ENERGY SOLUTION LTD	Battery pack, electronic device, automobile, and battery management system module
<a href="#">WO 2022070892 A1</a>	PANASONIC IP MAN CO LTD	Negative electrode active material for secondary batteries, and secondary battery
<a href="#">WO 2022080050 A1</a>	MURATA MANUFACTURING CO	Secondary battery
<a href="#">WO 2022082397 A1</a>	JIANGSU CONTEMPORARY AMPEREX TECH LTD	Battery, electric apparatus, and method and device for preparing battery
<a href="#">WO 2022085759 A1</a>	TOYOTA MOTOR CO LTD	Method for producing electrode member
<a href="#">WO 2022097423 A1</a>	DENSO CORP	Disconnection abnormality diagnosis device
<a href="#">WO 2022103104 A1</a>	LG ENERGY SOLUTION LTD	Positive electrode for lithium secondary battery, and lithium secondary battery
<a href="#">WO 2022110142 A1</a>	DONGGUAN POWERAMP TECH LIMITED	Battery and electric device
<a href="#">WO 2022071175 A1</a>	PANASONIC IP MAN CO LTD	Nonaqueous electrolyte secondary battery
<a href="#">WO 2022071048 A1</a>	GS YUASA INT LTD	Computer program, determining device, and determining method
<a href="#">WO 2022075646 A1</a>	LG ENERGY SOLUTION LTD	Battery charging/discharging system including cooling unit enabling uniform flow rate distribution
<a href="#">WO 2022085733 A1</a>	FUJIFILM CORP	Electrode composition, electrode sheet for all-solid-state secondary batteries, all-solid-state secondary battery, method for producing electrode sheet for all-solid-state secondary batteries, and method for producing all-solid-state secondary battery
<a href="#">WO 2022086103 A1</a>	LG ENERGY SOLUTION LTD	Electrode for secondary battery, secondary battery including same, and electrode manufacturing method
<a href="#">WO 2022085318 A1</a>	MURATA MANUFACTURING CO	Secondary battery
<a href="#">WO 2022092055 A1</a>	MAXELL LTD	Negative electrode for all-solid-state secondary cell, and all-solid-state secondary cell
<a href="#">WO 2022090776 A1</a>	VIDYASIRIMEDHI INSTITUTE OF SCIENCE AND TECH VISTEC	A lithium-ion battery and method for preparing the same
<a href="#">WO 2022092691 A1</a>	LG ENERGY SOLUTION LTD	Electrolyte for lithium secondary battery, and lithium secondary battery comprising same
<a href="#">WO 2022070646 A1</a>	PANASONIC IP MAN CO LTD	Lithium secondary battery
<a href="#">WO 2022085996 A1</a>	LG ENERGY SOLUTION LTD	Battery management apparatus and method
<a href="#">WO 2022094793 A1</a>	GAO FEIFEI	Battery pack for electric vehicle
<a href="#">WO 2022108411 A1</a>	LG ENERGY SOLUTION LTD	Method for manufacturing lithium ion secondary battery
<a href="#">WO 2022109453 A1</a>	PRINCETON NUENERGY INC	Systems and methods for lithium ion battery cathode material recovery, regeneration, and improvement
<a href="#">WO 2022114693 A1</a>	LG ENERGY SOLUTION LTD	Electrolyte for lithium-sulfur battery and lithium-sulfur battery comprising same
<a href="#">WO 2022067812 A1</a>	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Blended positive electrode material, positive electrode sheet and preparation method therefor, battery, and device
<a href="#">WO 2022070850 A1</a>	FUJIFILM CORP	Inorganic solid-state electrolyte-containing composition, sheet for all-solid-state secondary battery, all-solid-state secondary battery, method for producing sheet for all-solid-state secondary battery, and method for producing all-solid-state secondary battery
<a href="#">WO 2022085637 A1</a>	FUJIFILM CORP	Inorganic solid electrolyte-containing composition, sheet for all-solid secondary battery, all-solid secondary battery, and methods for producing sheet for all-solid secondary battery and all-solid secondary battery
<a href="#">WO 2022094169 A1</a>	ALLIANCE SUSTAINABLE ENERGY	Methods and devices for electrochemical relithiation of lithium-ion batteries
<a href="#">WO 2022098136 A1</a>	LG ENERGY SOLUTION LTD	Cathode active material for lithium secondary battery, manufacturing method therefor, and lithium secondary battery including same
<a href="#">WO 2022098027 A1</a>	LG ENERGY SOLUTION LTD	Secondary battery module, and secondary battery pack and vehicle comprising same
<a href="#">WO 2022114873 A1</a>	LG CHEMICAL LTD	Apparatus and method for managing battery
<a href="#">WO 2022071298 A1</a>	GS YUASA INT LTD	Power storage element

<a href="#">WO 2022086289 A1</a>	LG ENERGY SOLUTION LTD	Negative electrode and secondary battery comprising same
<a href="#">WO 2022092679 A1</a>	LG ENERGY SOLUTION LTD	Electrode assembly and battery cell including same
<a href="#">WO 2022094891 A1</a>	JIANGSU YANGKOU PORT CO LTD	Electric vehicle battery cooling structure
<a href="#">WO 2022115077 A1</a>	YESILOVA HOLDING ANONIM SIRKETI	Battery box with graphene reinforced aluminum matrix composite heat conduction plates
<a href="#">WO 2022119220 A1</a>	LG ENERGY SOLUTION LTD	Secondary battery and device comprising same
<a href="#">WO 2022069910 A1</a>	RIMAC AUTOMOBILI D O O	Battery module and method for cooling the battery module
<a href="#">WO 2022098098 A1</a>	LG ENERGY SOLUTION LTD	Electrode including active material layer in bilayer structure, manufacturing method therefor, and secondary battery comprising same
<a href="#">WO 2022108111 A1</a>	LG ENERGY SOLUTION LTD	Battery diagnostic apparatus and method
<a href="#">WO 2022092800 A1</a>	LG ENERGY SOLUTION LTD	Liquid electrolyte for lithium-sulfur secondary battery and lithium-sulfur secondary battery comprising same
<a href="#">WO 2022090843 A1</a>	SEMICONDUCTOR ENERGY LAB	Secondary battery, electronic device and vehicle
<a href="#">WO 2022092480 A1</a>	SAMSUNG SDI CO LTD	All solid-state battery
<a href="#">WO 2022094925 A1</a>	TEXAS INSTRUMENTS INC	Battery cell monitor
<a href="#">WO 2022108274 A1</a>	LG ENERGY SOLUTION LTD	Bms management device and method
<a href="#">WO 2022114826 A1</a>	LG ENERGY SOLUTION LTD	Battery management device and method
<a href="#">WO 2022114872 A1</a>	LG ENERGY SOLUTION LTD	Cathode active material for lithium secondary battery, preparation method therefor, and lithium secondary battery comprising same
<a href="#">WO 2022070213 A1</a>	ENERJAZZ TECH SOLUTIONS PVT LTD	A battery architecture allowing reusability of components of a battery and recyclability of battery cells
<a href="#">WO 2022075710 A1</a>	LG ENERGY SOLUTION LTD	Battery module, and battery pack and vehicle that include same
<a href="#">WO 2022085682 A1</a>	MURATA MANUFACTURING CO	Secondary battery
<a href="#">WO 2022097967 A1</a>	LG ENERGY SOLUTION LTD	Battery rack management apparatus
<a href="#">WO 2022098073 A1</a>	LG ENERGY SOLUTION LTD	Secondary battery and device including same
<a href="#">WO 2022103227 A1</a>	LG ENERGY SOLUTION LTD	Electrode assembly and secondary battery including same
<a href="#">WO 2022107255 A1</a>	SHOWA DENKO MAT CO LTD	Lithium ion secondary battery and separation membrane
<a href="#">WO 2022108277 A1</a>	LG ENERGY SOLUTION LTD	Electrolyte for lithium-sulfur battery and lithium-sulfur battery including same
<a href="#">WO 2022113855 A1</a>	PANASONIC IP MAN CO LTD	Secondary battery
<a href="#">WO 2022071324 A1</a>	PANASONIC IP MAN CO LTD	Secondary battery
<a href="#">WO 2022085891 A1</a>	SAMSUNG ELECTRONICS CO LTD	Electrode active material, preparation method therefor, electrode comprising same, and secondary battery
<a href="#">WO 2022093668 A1</a>	TEXAS INSTRUMENTS INC	Management of modular subsystems using variable length frame length
<a href="#">WO 2022092675 A1</a>	LG ENERGY SOLUTION LTD	Battery rack and energy storage device comprising battery rack
<a href="#">WO 2022092710 A1</a>	LG ENERGY SOLUTION LTD	Negative electrode active material for lithium secondary battery, negative electrode, and lithium secondary battery
<a href="#">WO 2022101531 A1</a>	CAF POWER & AUTOMATION S L U	Electrical energy storage system
<a href="#">WO 2022102876 A1</a>	INU RES & BUSINESS FOUNDATION	Electrolyte solution comprising pre-polymer electrolyte for lithium secondary battery and lithium secondary battery comprising same
<a href="#">WO 2022103095 A1</a>	NAT UNIV PUKYONG IND UNIV COOP FOUND	Composite electrode active material for lithium secondary battery, manufacturing method therefor, and lithium secondary battery comprising same
<a href="#">WO 2022114930 A1</a>	LG ENERGY SOLUTION LTD	Non-aqueous electrolytic solution for lithium secondary battery and lithium secondary battery comprising same
<a href="#">WO 2022113782 A1</a>	FURUKAWA CO LTD	Inorganic solid electrolyte material, solid electrolyte, solid electrolyte film, and lithium ion battery

<a href="#">WO 2022114651 A1</a>	LG ENERGY SOLUTION LTD	Method for manufacturing cathode for lithium-sulfur battery
<a href="#">WO 2022071174 A1</a>	PANASONIC IP MAN CO LTD	Lithium secondary battery
<a href="#">WO 2022074959 A1</a>	AIST	Composite oxide with novel crystal structure, and all-solid-state lithium ion secondary battery using said composite oxide as solid electrolyte
<a href="#">WO 2022077120 A1</a>	2555663 ONTARIO LTD	Lithium metal anode assemblies and an apparatus and method of making
<a href="#">WO 2022080042 A1</a>	NIPPON STEEL CORP	Cell case of secondary battery and module
<a href="#">WO 2022082116 A1</a>	UNIV CALIFORNIA	Stabilized electrolytes for low-temperature batteries
<a href="#">WO 2022082759 A1</a>	ENVISION DYNAMICS TECH JIANGSU CO LTD	Sulphate compound and non-aqueous electrolyte and power storage device containing same
<a href="#">WO 2022092664 A1</a>	LG ENERGY SOLUTION LTD	Electrode for secondary battery, secondary battery including same, and method for manufacturing electrode
<a href="#">WO 2022098135 A1</a>	LG ENERGY SOLUTION LTD	Positive electrode active material for lithium secondary battery, and lithium secondary battery comprising same
<a href="#">WO 2022098012 A1</a>	LG ENERGY SOLUTION LTD	Battery management method and battery system using same
<a href="#">WO 2022108288 A1</a>	LG ENERGY SOLUTION LTD	Battery pack including structure for suppressing thermal diffusion
<a href="#">WO 2022113783 A1</a>	FURUKAWA CO LTD	Sulfide inorganic solid electrolyte material, solid electrolyte, solid electrolyte film, and lithium ion battery
<a href="#">WO 2022072928 A1</a>	NEXTECH BATTERIES INC	Battery cells including lithium-ion conducting solid electrolytes and methods of making thereof
<a href="#">WO 2022079967 A1</a>	MURATA MANUFACTURING CO	Electrolyte for secondary battery, and secondary battery
<a href="#">WO 2022080699 A1</a>	LG ENERGY SOLUTION LTD	Battery system thermal event detection method and battery system using same
<a href="#">WO 2022089160 A1</a>	GREAT WALL MOTOR CO LTD	Control method and device for thermal runaway of battery pack, and storage medium and system
<a href="#">WO 2022092136 A1</a>	PANASONIC IP MAN CO LTD	Non-aqueous electrolyte secondary battery
<a href="#">WO 2022091673 A1</a>	GS YUASA INT LTD	Abnormality detection method, abnormality detection device, power storage device, and computer program
<a href="#">WO 2022097945 A1</a>	LG ENERGY SOLUTION LTD	Non-aqueous electrolyte for lithium secondary battery, and lithium secondary battery comprising same
<a href="#">WO 2022098002 A1</a>	APRO CO LTD	Pressure activation device including degassing unit
<a href="#">WO 2022108118 A1</a>	KOREA ELECTRONICS TECHNOLOGY	Method for producing sulfide-based solid electrolyte using ester-based organic solvent, and sulfide-based solid electrolyte and all-solid-state battery manufactured by said manufacturing method
<a href="#">WO 2022108027 A1</a>	SAMSUNG ELECTRONICS CO LTD	Composite solid electrolyte for secondary battery, secondary battery comprising same, and method of preparing same
<a href="#">WO 2022113716 A1</a>	MURATA MANUFACTURING CO	Method for manufacturing secondary battery
<a href="#">WO 2022067808 A1</a>	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Battery, device, and battery fabrication method and fabrication apparatus
<a href="#">WO 2022093716 A1</a>	ENEVATE CORP	Symmetrical or asymmetrical alkylsulfonyle imide or cyclic alkylene sulfonyle imide salts as cathode additives, electrolyte additives, or si anode additives for si anode-based li-ion cells
<a href="#">WO 2022094893 A1</a>	JIANGSU YANGKOU PORT CO LTD	Temperature management control system for power battery of electric vehicle
<a href="#">WO 2022114538 A1</a>	LG ENERGY SOLUTION LTD	Method for manufacturing lithium secondary battery, and lithium secondary battery manufactured thereby
<a href="#">WO 2022119154 A1</a>	LG ENERGY SOLUTION LTD	Battery pack and device including same
<a href="#">WO 2022086102 A1</a>	LG ENERGY SOLUTION LTD	Electrode for secondary battery, secondary battery including same, and method for manufacturing electrode
<a href="#">WO 2022085458 A1</a>	ZEON CORP	Binder composition for all-solid-state secondary batteries, slurry composition for all-solid-state secondary batteries, solid electrolyte-containing layer, and all-solid-state secondary battery
<a href="#">WO 2022091894 A1</a>	PANASONIC IP MAN CO LTD	Computation system, charging plan creation program, and discharging plan creation program
<a href="#">WO 2022097715 A1</a>	IDEMITSU KOSAN CO	Method for producing lithium hydroxide
<a href="#">WO 2022108290 A1</a>	LG ENERGY SOLUTION LTD	Battery pack including structure for suppressing thermal diffusion
<a href="#">WO 2022114824 A1</a>	LG ENERGY SOLUTION LTD	Cathode active material for lithium secondary battery, preparation method therefor, and lithium secondary battery comprising same



<a href="#">WO 2022114792 A1</a>	LG ENERGY SOLUTION LTD	Cylindrical secondary battery
<a href="#">WO 2022072839 A1</a>	NOHMS TECH INC	Lithium-ion battery electrolyte additive
<a href="#">WO 2022075730 A1</a>	LG ENERGY SOLUTION LTD	Secondary battery and device including same
<a href="#">WO 2022093797 A1</a>	ENEVATE CORP	Functional epoxides in catalyst-based electrolyte compositions for li-ion batteries
<a href="#">WO 2022098096 A1</a>	LG ENERGY SOLUTION LTD	Battery diagnostic device and method
<a href="#">WO 2022114472 A1</a>	LG ENERGY SOLUTION LTD	Battery module, and battery pack and vehicle comprising same
<a href="#">WO 2022119226 A1</a>	LG ENERGY SOLUTION LTD	Pouch-type battery sealing device comprising position adjustment unit, and pouch-type battery sealing method using same
<a href="#">WO 2022074985 A1</a>	DENSO CORP	Monitoring device for assembled battery
<a href="#">WO 2022080910 A1</a>	LG ENERGY SOLUTION LTD	Negative electrode for secondary battery, and secondary battery comprising same
<a href="#">WO 2022075712 A1</a>	LG ENERGY SOLUTION LTD	Battery pack, battery system, and pre-charge method
<a href="#">WO 2022085561 A1</a>	MURATA MANUFACTURING CO	Secondary battery, electronic device, and power tool
<a href="#">WO 2022092214 A1</a>	PANASONIC IP MAN CO LTD	Positive electrode for secondary battery, and secondary battery
<a href="#">WO 2022092588 A1</a>	LG ENERGY SOLUTION LTD	Battery module, battery pack comprising same battery module, and vehicle comprising same battery pack
<a href="#">WO 2022097960 A1</a>	LG ENERGY SOLUTION LTD	Battery module and battery pack comprising same
<a href="#">WO 2022102682 A1</a>	AIST	Electrolyte solution for nonaqueous secondary batteries, nonaqueous secondary battery using same, and method for discharging nonaqueous secondary battery
<a href="#">WO 2022107276 A1</a>	SHOWA DENKO MAT CO LTD	Electrode group, storage battery, battery pack, and electric-powered vehicle
<a href="#">WO 2022108285 A1</a>	LG ENERGY SOLUTION LTD	Battery pack comprising structure for suppressing thermal diffusion
<a href="#">WO 2022071722 A1</a>	LG ENERGY SOLUTION LTD	Lithium-sulfur battery having high energy density
<a href="#">WO 2022080809 A1</a>	SAMSUNG SDI CO LTD	Positive electrode for lithium secondary battery, and lithium secondary battery including same
<a href="#">WO 2022080835 A1</a>	LG ENERGY SOLUTION LTD	Battery diagnostic device and battery diagnostic method
<a href="#">WO 2022080838 A1</a>	LG ENERGY SOLUTION LTD	Battery module, battery pack, and electric automobile
<a href="#">WO 2022080936 A1</a>	LG ENERGY SOLUTION LTD	Battery pack and device including same
<a href="#">WO 2022085764 A1</a>	ENVISION AESC JAPAN LTD	Battery module, battery device, and method for manufacturing battery module
<a href="#">WO 2022092827 A1</a>	LG ENERGY SOLUTION LTD	Battery management device and method
<a href="#">WO 2022085997 A1</a>	LG ENERGY SOLUTION LTD	Battery module and battery pack comprising same
<a href="#">WO 2022093717 A1</a>	ENEVATE CORP	Boron-containing chemicals as cathode additives, si anode additives, electrolyte additives or separator modifiers for li-ion batteries
<a href="#">WO 2022085962 A1</a>	LG ENERGY SOLUTION LTD	Battery monitoring device, battery monitoring method, battery pack and electric vehicle
<a href="#">WO 2022080766 A1</a>	LG ENERGY SOLUTION LTD	Cathode slurry composition for lithium secondary battery, cathode, and lithium secondary battery comprising same
<a href="#">WO 2022089961 A1</a>	KAUTEX TEXTRON GMBH & CO KG	Battery shell, traction battery, motor vehicle, tool for producing a battery shell and method for producing a battery shell
<a href="#">WO 2022072715 A1</a>	GROUP14 TECH INC	Methods of passivation to control oxygen content and reactivity of silicon-carbon composite materials
<a href="#">WO 2022087709 A1</a>	HPQ SILICON RESOURCES INC	Process for transforming silicon slag into high capacity anode material for lithium-ion batteries
<a href="#">WO 2022080692 A1</a>	LG ENERGY SOLUTION LTD	Battery apparatus, battery management system, and method for diagnosing connection status
<a href="#">WO 2022080761 A1</a>	LG ENERGY SOLUTION LTD	Battery pack and device including same
<a href="#">WO 2022092764 A1</a>	LG CHEMICAL LTD	Battery device

<a href="#">WO 2022071775 A1</a>	LG ENERGY SOLUTION LTD	Separator for lithium secondary battery, method for manufacturing same, and lithium secondary battery comprising same
<a href="#">WO 2022080669 A1</a>	LG ENERGY SOLUTION LTD	Non-aqueous electrolyte for lithium secondary battery and lithium secondary battery comprising same
<a href="#">WO 2022080745 A1</a>	LG ENERGY SOLUTION LTD	Battery management device and method
<a href="#">WO 2022080836 A1</a>	LG ENERGY SOLUTION LTD	Negative electrode for lithium ion secondary battery
<a href="#">WO 2022077058 A1</a>	SENDAI HOLDINGS PTY LTD	Multi-chamber rechargeable zinc manganese dioxide battery
<a href="#">WO 2022092688 A1</a>	LG ENERGY SOLUTION LTD	Non-aqueous electrolyte for lithium secondary battery, and lithium secondary battery comprising same
<a href="#">WO 2022071704 A1</a>	LG ENERGY SOLUTION LTD	Electrode
<a href="#">WO 2022075606 A1</a>	E TESS CO LTD	Battery module
<a href="#">WO 2022080832 A1</a>	LG ENERGY SOLUTION LTD	Apparatus for managing battery pack
<a href="#">WO 2022092475 A1</a>	ECOPRO BM CO LTD	Cathode active material and lithium secondary battery comprising same
<a href="#">WO 2022080854 A1</a>	LG ENERGY SOLUTION LTD	Non-aqueous electrolyte for lithium secondary battery and lithium secondary battery comprising same
<a href="#">WO 2022080979 A1</a>	LG ENERGY SOLUTION LTD	Negative electrode and method for manufacturing same
<a href="#">WO 2022080829 A1</a>	LG CHEMICAL LTD	Battery device
<a href="#">WO 2022080906 A1</a>	LG ENERGY SOLUTION LTD	Battery module and manufacturing method therefor
<a href="#">WO 2022080973 A1</a>	LG ENERGY SOLUTION LTD	Activation protocol generating method, and activation method and device using same
<a href="#">WO 2022072313 A1</a>	UNIV NORTHWESTERN	Heterostructure ionogel electrolytes, fabricating methods and applications of same
<a href="#">WO 2022080786 A1</a>	LG ENERGY SOLUTION LTD	Negative electrode for lithium secondary battery, lithium secondary battery comprising same, and method for manufacturing lithium secondary battery
<a href="#">WO 2022080837 A1</a>	LG ENERGY SOLUTION LTD	Battery diagnostic apparatus and method
<a href="#">WO 2022080918 A1</a>	LG ENERGY SOLUTION LTD	Battery pack having improved cooling performance, and device comprising same
<a href="#">WO 2022071216 A1</a>	ISUZU MOTORS LTD	Battery unit, and method for manufacturing battery unit
<a href="#">WO 2022104372 A1</a>	POLESTAR PERFORMANCE AB	Resilient high-voltage systems
<a href="#">WO 2022070686 A1</a>	GS YUASA INT LTD	Computer program, determination device, and determination method
<a href="#">WO 2022080763 A1</a>	LG ENERGY SOLUTION LTD	Module strain estimation device and method
<a href="#">WO 2022085937 A1</a>	LG ENERGY SOLUTION LTD	Battery pack, electronic device, and vehicle
<a href="#">WO 2022086075 A1</a>	LG ENERGY SOLUTION LTD	Battery module and battery pack including same
<a href="#">WO 2022092982 A1</a>	LG ENERGY SOLUTION LTD	Negative electrode and secondary battery comprising same
<a href="#">WO 2022086097 A1</a>	LG ENERGY SOLUTION LTD	Battery test device
<a href="#">WO 2022092954 A1</a>	LG ENERGY SOLUTION LTD	Pouch-type battery cell comprising electrode lead capable of maintaining constant internal pressure, and battery pack comprising same
<a href="#">WO 2022097710 A1</a>	APB CORP	Lithium ion battery manufacturing device and manufacturing method
<a href="#">WO 2022095041 A1</a>	SZ DJI TECHNOLOGY CO LTD	Battery storage device
<a href="#">WO 2022085995 A1</a>	LG ENERGY SOLUTION LTD	Method for manufacturing anode having inorganic coating layer formed thereon
<a href="#">WO 2022085954 A1</a>	LG ENERGY SOLUTION LTD	Battery pack, electronic device and vehicle
<a href="#">WO 2022086247 A1</a>	LG ENERGY SOLUTION LTD	Electrode powder for manufacturing dry electrode for secondary battery, preparation method therefor, method for manufacturing dry electrode using same, dry electrode, secondary battery comprising same, energy storage apparatus, and apparatus for manufacturing dry electrode

<a href="#">WO 2022097804 A1</a>	KOREA INSTITUTE OF MAT SCIENCE	Composition for forming lithium secondary battery electrode, and lithium secondary battery comprising electrode formed therefrom
<a href="#">WO 2022097884 A1</a>	LG ENERGY SOLUTION LTD	Method for assigning communication id and system providing same
<a href="#">WO 2022071734 A1</a>	LG ENERGY SOLUTION LTD	Non-aqueous electrolyte for lithium secondary battery and lithium secondary battery comprising same
<a href="#">WO 2022080908 A1</a>	LG ENERGY SOLUTION LTD	Battery module and battery pack including same
<a href="#">WO 2022086006 A1</a>	POSCO	Battery case
<a href="#">WO 2022086141 A1</a>	LG ENERGY SOLUTION LTD	Method for manufacturing electrode assembly and electrochemical device comprising the electrode assembly
<a href="#">WO 2022086076 A1</a>	LG ENERGY SOLUTION LTD	Battery blocking unit and battery pack including same
<a href="#">WO 2022085969 A1</a>	LG ENERGY SOLUTION LTD	Battery module and battery pack comprising same

[...volver a CONTENIDO](#)

## SUPERCONDENSADORES

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
<a href="#">WO 2022130763 A1</a>	TOYOTA JIDOSHOKKI KK	Power storage device
<a href="#">WO 2022099595 A1</a>	UNIV GUILIN ELECTRONIC TECH	Composite silicon monoxide thin film, preparation method therefor and use thereof
<a href="#">WO 2022124371 A1</a>	GS YUASA INT LTD	Sulfide solid electrolyte, method for selecting elements for sulfide solid electrolyte, method for manufacturing sulfide solid electrolyte, power storage element, electronic device, and automobile
<a href="#">WO 2022102591 A1</a>	GS YUASA INT LTD	Non-aqueous electrolyte storage element, and non-aqueous electrolyte storage device
<a href="#">WO 2022112370 A2</a>	UCL BUSINESS LTD	Oxide anode materials
<a href="#">WO 2022102286 A1</a>	TOYOTA JIDOSHOKKI KK	Power storage module
<a href="#">WO 2022110849 A1</a>	XIAMEN YAXON NETWORK CO LTD	Curve prediction-based electric vehicle energy management method, terminal device, and storage medium
<a href="#">WO 2022113913 A1</a>	TOYOTA JIDOSHOKKI KK	Electricity storage device
<a href="#">WO 2022075822 A1</a>	UNIV SANGMYUNG INDUSTRY ACADEMY COOPERATION FOUNDATION	Electric double-layer capacitor in which self-discharge is suppressed and manufacturing method therefor
<a href="#">WO 2022080083 A1</a>	MAXELL LTD	Electrode active material for electrochemical element and method for producing same, electrode material for electrochemical element, electrode for electrochemical element, electrochemical element, and mobile object
<a href="#">WO 2022115059 A1</a>	ISTANBUL UNIV CERRAHPASA REKTORLUGU OZEL KALEM	An electrode providing high energy and power density and supercapacitors containing the same
<a href="#">WO 2022087064 A1</a>	SCHUMACHER ELECTRIC CORP	Battery booster
<a href="#">WO 2022113912 A1</a>	TOYOTA JIDOSHOKKI KK	Power storage device
<a href="#">WO 2022110850 A1</a>	XIAMEN YAXON NETWORK CO LTD	Terrain prediction-based power battery pack equalization method

[...volver a CONTENIDO](#)

## SISTEMAS DE RECUPERACIÓN DE ENERGÍA; FRENOS REGENERATIVOS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
<a href="#">WO 2022122323 A1</a>	BOSCH GMBH ROBERT	Braking torque control device, brake system and method for controlling a braking torque
<a href="#">WO 2022133175 A1</a>	CONS METCO INC	Vehicle electronic control unit and method
<a href="#">WO 2022075005 A1</a>	TOYOTA JIDOSHOKKI KK	Brake control device for industrial vehicle
<a href="#">WO 2022071500 A1</a>	ADVICS CO LTD	Braking control device

[...volver a CONTENIDO](#)

## MÁQUINAS ELÉCTRICAS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
<a href="#">WO 2022105970 A1</a>	CONTINENTAL TEVES AG & CO OHG	Drive unit having an electric motor
<a href="#">WO 2022105955 A1</a>	SCHAEFFLER TECHNOLOGIES AG	Electric machine
<a href="#">WO 2022105954 A1</a>	SCHAEFFLER TECHNOLOGIES AG	Electric machine
<a href="#">WO 2022117159 A1</a>	BUHLER MOTOR GMBH	Stator of an electric motor, and process for manufacturing same
<a href="#">WO 2022128632 A1</a>	VALEO SIEMENS EAUTOMOTIVE GERMANY GMBH	Method for impregnating rotor coils
<a href="#">WO 2022117217 A1</a>	PIERBURG PUMP TECHNOLOGY GMBH	Claw-pole stator for an electric motor
<a href="#">WO 2022122086 A1</a>	BROSE FAHRZEUGTEILE SE & CO KG WUERZBURG	Electric motor for a motor vehicle
<a href="#">WO 2022131007 A1</a>	DENSO CORP	Cooling system
<a href="#">WO 2022117154 A1</a>	KIEKERT AG	Electromotive drive unit for motor vehicle applications
<a href="#">WO 2022073551 A1</a>	SCHAEFFLER TECHNOLOGIES AG	Axial flux machine
<a href="#">WO 2022112145 A1</a>	RENAULT SAS	Device for powering an electric motor of a motor vehicle
<a href="#">WO 2022128563 A1</a>	THYSSENKRUPP STEEL EUROPE AG	Weight-optimized rotor shaft, and process for manufacturing same
<a href="#">WO 2022109561 A1</a>	ATIEVA INC	Patterns for balanced stator windings in electric motor
<a href="#">WO 2022109581 A1</a>	BLUE VOLTA TECH INC	Powertrain for an electric vehicle comprising a scalable and manageable energy storage system
<a href="#">WO 2022127975 A1</a>	SCHAEFFLER TECHNOLOGIES AG	Electric machine
<a href="#">WO 2022107574 A1</a>	HITACHI ASTEMO LTD	Electric actuator and vehicle drum brake comprising same
<a href="#">WO 2022117265 A1</a>	PRO MICRON GMBH	Status monitoring for a rotating element of a motor or work machine, more particularly for the rotor of an electric motor
<a href="#">WO 2022079942 A1</a>	MITSUBISHI ELECTRIC CORP	Electric machine with combined axial- and radial-flux
<a href="#">WO 2022075317 A1</a>	NTN TOYO BEARING CO LTD	Motor unit and electrical pump equipped with same
<a href="#">WO 2022096055 A1</a>	SCHAEFFLER TECHNOLOGIES AG	Axial flux machine
<a href="#">WO 2022083975 A1</a>	VALEO SYSTEMES THERMIQUES	Ventilation device for a motor vehicle cooling module
<a href="#">WO 2022069570 A1</a>	VALEO SIEMENS EAUTOMOTIVE GERMANY GMBH	Discharge unit for an electric rotating machine
<a href="#">WO 2022107515 A1</a>	TOSHIBA KK	Rotating electric machine rotor and rotating electric machine
<a href="#">WO 2022089980 A1</a>	KAUTEX TEXTRON GMBH & CO KG	Battery shell, traction battery, motor vehicle, tool for producing a battery shell and method for producing a battery shell
<a href="#">WO 2022069503 A1</a>	SIEMENS AG	Electric machine and installation
<a href="#">WO 2022092496 A1</a>	KYUNGPOOK NAT UNIV IND ACADEMIC COOP FOUND	Device for diagnosing inter-turn short fault of induction motor and method therefor
<a href="#">WO 2022085351 A1</a>	HITACHI ASTEMO LTD	Motor control device, mechatronic integrated unit, hybrid system, and electric power steering system
<a href="#">WO 2022114909 A1</a>	SEOUL NATIONAL UNIV R&DB FOUNDATAION	Motor device
<a href="#">WO 2022097345 A1</a>	ASTER CO LTD	Coil, stator, and motor

[...volver a CONTENIDO](#)

## CONVERTIDORES, INVERSORES

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
<a href="#">WO 2022106339 A1</a>	ZAHNRADFABRIK FRIEDRICHSHAFEN	Semiconductor switch assembly comprising at least two power semiconductors
<a href="#">WO 2022106662 A1</a>	RENAULT SAS	Battery charger for motor vehicle, associated vehicle and implementation method
<a href="#">WO 2022130612 A1</a>	MITSUBISHI ELECTRIC CORP	Power conversion device
<a href="#">WO 2022122382 A1</a>	BOSCH GMBH ROBERT	Control circuit for an electric machine, electric drive system, and method for decelerating an electric machine
<a href="#">WO 2022130221 A1</a>	TALLINN UNIV OF TECHNOLOGY	System and method for a partial power transfer between two DC sources
<a href="#">WO 2022111894 A1</a>	BOSCH GMBH ROBERT	Dc converter arrangement, on-board electrical system for an electric vehicle and method for operating a DC converter arrangement
<a href="#">WO 2022129538 A1</a>	EATON INTELLIGENT POWER LTD	System and method of a mobile electrical system
<a href="#">WO 2022074141 A1</a>	VITESCO TECHNOLOGIES GERMANY GMBH	Control module for a vehicle with at least one electric motor and a transmission
<a href="#">WO 2022131019 A1</a>	DENSO CORP	Power conversion device
<a href="#">WO 2022112217 A1</a>	VALEO SYSTEMES DE CONTROLE MOTEUR	Electronic component comprising a magnetic circuit and a plurality of electrical conductors
<a href="#">WO 2022126458 A1</a>	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Power supply device, battery management system, power supply system, control method and medium
<a href="#">WO 2022101824 A1</a>	ALTRA S P A	Power-supply system of electric motors and auxiliary electric loads for an electric vehicle, and electric vehicle
<a href="#">WO 2022128252 A1</a>	BOSCH GMBH ROBERT	Energy management system for a motor vehicle, motor vehicle, and method
<a href="#">WO 2022126205 A1</a>	TRITIUM HOLDINGS PTY LTD	Electric vehicle charging system
<a href="#">WO 2022130731 A1</a>	HITACHI ASTEMO LTD	Motor control device, electromechanical integrated unit, boost converter system, electric vehicle system, and motor control method
<a href="#">WO 2022074137 A1</a>	VITESCO TECHNOLOGIES GERMANY GMBH	Compact control module for a vehicle with at least one electric motor and a transmission
<a href="#">WO 2022106035 A1</a>	HUAWEI DIGITAL POWER TECH CO LTD	Asymmetrical impedance network for 3-port bidirectional isolated DC-DC converter
<a href="#">WO 2022122359 A1</a>	BOSCH GMBH ROBERT	Charging circuit and method for charging an electrical energy store, and electric vehicle
<a href="#">WO 2022089789 A1</a>	VALEO SIEMENS EAUTOMOTIVE NORWAY AS	An interleaved power converter comprising coupled inductors
<a href="#">WO 2022096818 A1</a>	NIDEC PSA EMOTORS	Method for controlling an inverter and corresponding system
<a href="#">WO 2022109416 A1</a>	UNIV CALIFORNIA	Multi-resonant switched capacitor power converter architecture
<a href="#">WO 2022107381 A1</a>	NIDEC CORP	Temperature regulating device
<a href="#">WO 2022107382 A1</a>	NIDEC CORP	Temperature regulating device
<a href="#">WO 2022083341 A1</a>	NINGBO GEELY AUTOMOBILE RES & DEVELOPMENT CO LTD	Vehicle electrical system
<a href="#">WO 2022102510 A1</a>	DENSO CORP	Inverter control device
<a href="#">WO 2022070282 A1</a>	SUMITOMO ELECTRIC INDUSTRIES	Circuit structure
<a href="#">WO 2022120436 A1</a>	INVERTEDPOWER PTY LTD	An interleaved switching method of control for a polyphase inductive load
<a href="#">WO 2022084245 A1</a>	ZAHNRADFABRIK FRIEDRICHSHAFEN	Device for providing an operating power for an auxiliary drive for an electric vehicle and method for converting an operating voltage
<a href="#">WO 2022118070 A1</a>	BRUSA HYPOWER AG	Charging system, voltage converter unit, and accumulator unit
<a href="#">WO 2022117263 A1</a>	VALEO SIEMENS EAUTOMOTIVE GERMANY GMBH	Inverter, electric drive, vehicle and method for controlling controllable switches of an inverter and corresponding computer program product
<a href="#">WO 2022070283 A1</a>	SUMITOMO ELECTRIC INDUSTRIES	Heating structure

<a href="#">WO 2022084218 A1</a>	ZAHNRADFABRIK FRIEDRICHSHAFEN	Inverter device for an electric vehicle, drive device and method for providing a drive voltage for a drive motor for an electric vehicle
<a href="#">WO 2022119278 A1</a>	HANON SYSTEMS	Arrangement and method for discharging a DC link capacitor
<a href="#">WO 2022071031 A1</a>	TOYOTA JIDOSHOKKI KK	Noise filter
<a href="#">WO 2022070715 A1</a>	PANASONIC IP MAN CO LTD	Management device and power supply system
<a href="#">WO 2022085495 A1</a>	ROHM CO LTD	Controller and control method for power transistor
<a href="#">WO 2022102412 A1</a>	HITACHI LTD	Power conversion device
<a href="#">WO 2022109728 A1</a>	ECAMION INC	Electric vehicle charging depot and protection control module therefor
<a href="#">WO 2022114575 A1</a>	KERI KOREA ELECTROTECHNOLOGY RES INST	Dc-to-dc converter for charging/discharging battery
<a href="#">WO 2022091710 A1</a>	KYOCERA CORP	Film capacitor, connection-type capacitor, inverter and electric vehicle
<a href="#">WO 2022081338 A1</a>	CUMMINS INC	Flexible isolated power-switch gate-drive power supply
<a href="#">WO 2022097561 A1</a>	AUTONETWORKS TECHNOLOGIES LTD	DC/DC converter
<a href="#">WO 2022085393 A1</a>	AUTONETWORKS TECHNOLOGIES LTD	Isolated DC/DC converter and isolated DC/DC converter production method
<a href="#">WO 2022086165 A1</a>	WIPOWERONE INC	Wired and wireless vehicle charging system and wired and wireless charging control method
<a href="#">WO 2022097051 A1</a>	AUCKLAND UNISERVICES LTD	A converter

[...volver a CONTENIDO](#)



## RECARGA DE BATERÍAS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
<a href="#">WO 2022122901 A1</a>	ATEQ	Charger for a service battery of an electric vehicle and electric vehicle comprising such a charger
<a href="#">WO 2022132252 A1</a>	SCHUMACHER ELECTRIC CORP	Automotive battery power system
<a href="#">WO 2022106190 A1</a>	ABB SCHWEIZ AG	Vehicle charging station
<a href="#">WO 2022112226 A1</a>	VITO NV	Method and system for adaptively charging of electric vehicles
<a href="#">WO 2022119591 A1</a>	AUTO MOTIVE POWER INC	Low cost fast charge contactor for high voltage battery management systems
<a href="#">WO 2022078777 A1</a>	IFP ENERGIES NOW	Method for optimised management of the sequencing of vehicle charging on a local electricity grid
<a href="#">WO 2022091109 A1</a>	TVS MOTOR CO LTD	A system and method for fast charging a battery using combined constant current and constant voltage charging
<a href="#">WO 2022084262 A1</a>	NTN SNR ROULEMENTS	Method for charging the electric power supply battery of the engine of a motor vehicle
<a href="#">WO 2022084599 A1</a>	ARKEMA FRANCE	Cooling a battery by immersion in a composition with a change in state
<a href="#">WO 2022082286 A1</a>	CORDEIRO DE OLIVEIRA EMERSON	Rotary vertical parking space for electric vehicles and sliding cable distributor for vertical elevator
<a href="#">WO 2022090558 A1</a>	COMMISSARIAT ENERGIE ATOMIQUE	Electric power supply system
<a href="#">WO 2022084263 A1</a>	NTN SNR ROULEMENTS	Backup battery for charging the power supply battery of the motor of a motor vehicle
<a href="#">WO 2022080828 A1</a>	LG CHEMICAL LTD	Vehicle battery overcharging prevention system and method
<a href="#">WO 2022085453 A1</a>	DENSO CORP	Charge control device
<a href="#">WO 2022113918 A1</a>	SUMITOMO ELECTRIC INDUSTRIES	Switching device, vehicle-mounted switching system, and switch control method
<a href="#">WO 2022068593 A1</a>	BYD CO LTD	Charging control method and apparatus for hybrid electric vehicle, and vehicle
<a href="#">WO 2022092612 A1</a>	LG ENERGY SOLUTION LTD	Charging management device, charging management method, and electric vehicle
<a href="#">WO 2022097555 A1</a>	PANASONIC IP MAN CO LTD	Charge control device, charge system, charge control method, and program

[...volver a CONTENIDO](#)

## CAMBIO DE BATERÍAS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
<a href="#">WO 2022094889 A1</a>	RUDONG YANGKOU PORT IND HOLDINGS CO LTD	Battery swapping device for electric vehicle
<a href="#">WO 2022078329 A1</a>	AULTON NEW ENERGY AUTOM TECH GROUP	Battery changing station

[...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.