

Noticias

El pasado 14 de enero de 2019, tuvo lugar en la sede del Ministerio de Industria, Comercio y Turismo una [Jornada para impulsar la participación del sector español de baterías en nuevas aplicaciones industriales](#), organizada por La Secretaría General de Industria y PYME del Ministerio de Industria, Comercio y Turismo, y la entidad InnoEnergy - designada por la Comisión Europea para impulsar la creación de partenariados entre la industria, el ámbito académico y el sector financiero -. Su objetivo era presentar los avances y las oportunidades industriales asociadas a las baterías, tanto para vehículos eléctricos como para almacenamiento energético estacionario y otras aplicaciones industriales.

El 17 de enero de 2019, el Servicio de Estadísticas y Estudios de la Oficina Española de Patentes y Marcas, O.A. (OEPM) publicó [dos nuevos Informes](#):

- 1- ["Tecnologías en el sector de Automoción 2008-2017"](#). El estudio muestra las tendencias evolutivas en las invenciones asociadas al sector de la automoción, que han sido publicadas como patentes o como modelos de utilidad en España.
- 2- ["Tecnologías de mitigación del cambio climático 2005-2017"](#). Este estudio analiza las tendencias evolutivas de las Tecnologías de Mitigación del Cambio Climático (TMCC). El estudio pretende mostrar la contribución de las

invenciones a la difusión de la información técnica cualificada, en materia energética recogida en las mismas y, a su vez, poner de manifiesto que estos títulos de Propiedad Industrial sirven como indicador de I+D de las tendencias evolutivas de las llamadas "energías limpias".

El Consejo de Ministros, a propuesta del Ministerio para la Transición Ecológica, ha aprobado el [Real Decreto 132/2019, de 8 de marzo](#), por el que se otorga la concesión directa de ayudas del Programa de Incentivos a la Movilidad Eficiente y Sostenible (MOVES) a las comunidades autónomas y las ciudades de Ceuta y Melilla y el [Real Decreto 72/2019, de 15 de febrero](#), por el que se regulan las bases del Programa de Incentivos a la Movilidad Eficiente y Sostenible (MOVES), dotado con 45 millones de euros y dirigido a incentivar la compra de vehículos alternativos, instalar infraestructuras de recarga de vehículos eléctricos, el desarrollo de incentivos para implantar sistemas de préstamos de bicicletas eléctricas y la implantación de medidas recogidas en Planes de Transporte a los centros de Trabajo.

Todos los boletines que publica periódicamente la OEPM están disponibles en el siguiente enlace:

[BOLETINES OEPM](#)

NIPO: 116-19-009-9

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Solicitudes de Patente Publicadas

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

BATERÍAS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2019050346 A1	LG CHEMICAL LTD	Lithium electrode and lithium secondary battery comprising same, and flexible secondary battery
WO 2019050147 A1	LG CHEMICAL LTD	Electrode having improved electrode tab welding characteristic and secondary battery comprising same
WO 2019050203 A2	LG CHEMICAL LTD	Anode for lithium secondary battery, and lithium secondary battery comprising same
WO 2019052765 A1	BOSCH GMBH ROBERT	Electrochemical cell with surface-modified active material
WO 2019049510 A1	KURARAY CO	Coating liquid for non-aqueous electrolyte battery separator, non-aqueous electrolyte battery separator using same, and non-aqueous electrolyte battery
WO 2019050181 A1	SAMSUNG SDI CO LTD	Secondary battery
WO 2019051201 A1	SOBOTA RODRIGUEZ CRISTIAN	Opto-inductive coupling system and method for wireless charging and data communications
WO 2019052422 A1	CHONGQING JINKANG NEW ENERGY VEHICLE CO LTD	Ribbonbond interconnects for electric vehicle battery blocks
WO 2019052426 A1	CHONGQING JINKANG NEW ENERGY VEHICLE CO LTD	Electric vehicle battery current collector
WO 2019052428 A1	CHONGQING JINKANG NEW ENERGY VEHICLE CO LTD	Embedded current collector for electric vehicle battery monitoring
WO 2019054456 A1	DENSO CORP	Thermo-siphon
WO 2019052882 A1	BOSCH GMBH ROBERT	Method for correcting the position of electrode stacks when arranging them
WO 2019055301 A1	NIO USA INC	System and method for providing asil d fail operational power systems in automated vehicle applications
WO 2019054455 A1	FUJIFILM CORP	Solid electrolyte composition, solid electrolyte-containing sheet, all-solid-state secondary battery, method for producing solid electrolyte-containing sheet, and method for producing all-solid-state secondary battery
WO 2019050177 A1	LG CHEMICAL LTD	Pouch-type secondary battery
WO 2019050216 A2	LG CHEMICAL LTD	Anode active material, anode comprising same anode active material, and secondary battery comprising same anode
WO 2019049719 A1	DENSO CORP	Power supply system
WO 2019052429 A1	CHONGQING JINKANG NEW ENERGY VEHICLE CO LTD	Battery packs to power electric vehicles
WO 2019052945 A1	BOSCH GMBH ROBERT	Method for operating an electrical energy storage unit
WO 2019052881 A1	BOSCH GMBH ROBERT	Method for cutting strip-shaped electrode and separator material on a curved surface by means of a laser beam
WO 2019052815 A1	BOSCH GMBH ROBERT	Stacking device for multilayer, flat electrode stacks
WO 2019052962 A1	EASE LINK GMBH	Vehicle connection device, ground contact unit, vehicle coupling system and method for automatically conductively connecting a vehicle contact unit with a ground contact unit
WO 2019053557 A1	SEMICONDUCTOR ENERGY LAB	Abnormality detection system for secondary cells and abnormality detection method for secondary cells
WO 2019054216 A1	NISSAN MOTOR	Separator for lithium ion battery
WO 2019055658 A2	SHAPE CORP	Vehicle battery tray with tubular peripheral wall
WO 2019049826 A1	NATIONAL UNIV CORPORATION YOKOHAMA NATIONAL UNIV	Lithium-sulfur battery
WO 2019050282 A1	LG CHEMICAL LTD	Lithium secondary battery cathode active material, preparation method therefor, lithium secondary battery cathode comprising same, and lithium secondary battery
WO 2019049728 A1	KK TOYOTA JIDOSHOKKI	Battery pack

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WO 2019052943 A1	BOSCH GMBH ROBERT	Method for operating an electrical energy storage unit
WO 2019053408 A1	DYSON TECHNOLOGY LTD	Laser ablation for manufacture of battery cells
WO 2019052814 A1	BOSCH GMBH ROBERT	Method for producing electrodes
WO 2019052813 A1	BOSCH GMBH ROBERT	Method for producing an electrode stack for a battery cell, and battery cell
WO 2019052425 A1	CHONGQING JINKANG NEW ENERGY VEHICLE CO LTD	Integrated current collector for electric vehicle battery cell
WO 2019048522 A1	CONTINENTAL AUTOMOTIVE GMBH	Control module for the temperature control of a camera
WO 2019052427 A1	CHONGQING JINKANG NEW ENERGY VEHICLE CO LTD	Integrated sense board of electric vehicle battery management system
WO 2019054765 A1	LG CHEMICAL LTD	Cylindrical battery cell having no beading part
WO 2019054184 A1	FUJIFILM CORP	All-solid secondary cell, outer cladding material for all-solid secondary cell, and method for manufacturing said all-solid secondary cell
WO 2019054191 A1	FUJIFILM CORP	Solid electrolyte composition, method for producing same, storage method and kit, solid electrolyte-containing sheet, storage method and kit therefor, and all-solid secondary battery
WO 2019052764 A1	BOSCH GMBH ROBERT	Anode with intermediate polymer-ceramic particle layer
WO 2019052750 A1	BAYERISCHE MOTOREN WERKE AG	Method for monitoring the functional capability of the cooling system of a high-voltage accumulator
WO 2019054729 A1	LG CHEMICAL LTD	Electrode for all-solid-state battery, comprising solid electrolyte
WO 2019057678 A1	THYSSENKRUPP STEEL EUROPE AG	Heat transfer element, temperature-control device, and battery housing having at least one heat transfer element
WO 2019060301 A1	UNIV CALIFORNIA MASSACHUSETTS INST TECHNOLOGY	Cation-disordered rocksalt lithium metal oxides and oxyfluorides and methods of making same
WO 2019050103 A1	SAMSUNG SDI CO LTD	Device for monitoring connector coupling
WO 2019050330 A1	LG CHEMICAL LTD	Device and method for estimating state-of-charge of battery
WO 2019052421 A1	CHONGQING JINKANG NEW ENERGY VEHICLE CO LTD	Modular battery system to provide power to electric vehicles
WO 2019054079 A1	HITACHI AUTOMOTIVE SYSTEMS LTD	Battery module
WO 2019057587 A1	BOSCH GMBH ROBERT	Solid electrolyte cell and method for producing a solid electrolyte cell
WO 2019008243 A1	PSA AUTOMOBILES SA	Method for controlling the recharging of a traction battery when stopped, for a hybrid vehicle
WO 2019025980 A1	TESLA MOTORS CANADA ULC	Novel battery systems based on lithium difluorophosphate
WO 2019039856 A1	DONG A UNIV RESEARCH FOUNDATION FOR INDUSTRY ACADEMY COOPERATION	Method for producing porous silicon-carbon complex, secondary battery negative electrode comprising porous silicon-carbon complex produced by production method, and secondary battery comprising secondary battery negative electrode
WO 2019039815 A2	LG CHEMICAL LTD	Secondary battery electrode, manufacturing method therefor, and electrode assembly
WO 2019039504 A1	DAINIPPON PRINTING CO LTD	Packaging material for batteries, battery, and production method for packaging material for batteries
WO 2019039506 A1	DAINIPPON PRINTING CO LTD	Battery packaging material, battery, and manufacturing method for battery packaging material
WO 2019042416 A1	BYD CO LTD	Battery equalization method and system, vehicle, and electronic device
WO 2019042430 A1	BYD CO LTD	Battery information acquisition device, battery balancing system, vehicle, method, and storage medium
WO 2019042818 A1	RENAULT SAS	Method for managing the state of charge of a hybrid vehicle
WO 2019045365 A1	LG CHEMICAL LTD	Pouch type secondary battery including heat transfer member
WO 2019020766 A1	LION SMART GMBH	Temperature control device for the temperature control of a battery system, and battery system
WO 2019025937 A1	LITHIUM ENERGY & POWER GMBH & CO KG	Energy storage device
WO 2019039582 A1	AIST	Lithium metal sulfide and method for producing same
WO 2019042400 A1	BYD CO LTD	Battery equalization method and system, vehicle, storage medium, and electronic device
WO 2019042398 A1	BYD CO LTD	Battery equalization method and system, vehicle, storage

		medium, and electronic device
WO 2019044526 A1	MURATA MANUFACTURING CO	Battery, battery pack, electronic equipment, electric-powered vehicle, electric storage device and electric power system
WO 2019044770 A1	MURATA MANUFACTURING CO	Positive electrode active material, positive electrode, battery, battery pack, electronic device, electric vehicle, power storage device, and electric power system
WO 2019045312 A1	LG CHEMICAL LTD	Method for improving life properties and charging speed of lithium-sulfur secondary battery
WO 2019051361 A1	FCA US LLC	Hybrid transmission for a motor vehicle
WO 2019052423 A1	CHONGQING JINKANG NEW ENERGY VEHICLE CO LTD	Dynamic cooling control for battery systems
WO 2019008465 A1	CSIR	Dual active cathode materials
WO 2019020262 A1	MAHLE INT GMBH	Energy storage arrangement
WO 2019025304 A1	BOSCH GMBH ROBERT	Amorphous lif as an artificial sei layer for lithium batteries
WO 2019039633 A1	GREEN POWER CO LTD	Self-alignment guide system for wireless charging
WO 2019039089 A1	DENSO CORP	Battery cooler
WO 2019039820 A2	SK INNOVATION CO LTD	Porous composite separator and manufacturing method therefor
WO 2019043792 A1	TOSHIBA KK	Battery system and vehicle
WO 2019044295 A1	HONDA MOTOR CO LTD	Electric vehicle
WO 2019045387 A1	KCF TECH CO LTD	Electrolytic copper foil, method for producing same, and anode for high capacity li secondary battery including same
WO 2019045404 A1	LG CHEMICAL LTD	Method for manufacturing hollow structure
WO 2019044242 A1	HITACHI AUTOMOTIVE SYSTEMS LTD	Battery module
WO 2019009535 A1	LG CHEMICAL LTD	Battery pack management apparatus
WO 2019026095 A1	GREEN ARROW POWER S R L	A mobile charging unit, particularly for electric vehicles, and a management system thereof for the delivery of charges on request
WO 2019039116 A1	HITACHI AUTOMOTIVE SYSTEMS LTD	Battery pack
WO 2019039081 A1	KK TOYOTA JIDOSHOKKI	Power storage device and method for manufacturing power storage device
WO 2019043413 A1	DELTA MOTORSPORT LTD	Mounting system for battery cells
WO 2019043881 A1	YAMAHA MOTOR CO LTD	Saddled electric vehicle
WO 2019045535 A2	LG CHEMICAL LTD	Negative electrode slurry for lithium secondary battery and manufacturing method thereof
WO 2019044708 A1	KYOCERA CORP	Power system, electrical storage device, and control method for power system
WO 2019044260 A1	DAIMLER AG	Temperature management apparatus for vehicle
WO 2019007941 A1	VALEO SYSTEMES THERMIQUES	Thermal regulation device for at least one electrical energy storage element
WO 2019020710 A1	ABB SCHWEIZ AG	Wireless charging system
WO 2019025235 A1	BOSCH GMBH ROBERT	Energy storage device
WO 2019030070 A1	BAYERISCHE MOTOREN WERKE AG	Motor vehicle with hybrid drive
WO 2019039505 A1	DAINIPPON PRINTING CO LTD	Battery packaging material and battery
WO 2019037012 A1	BOSCH GMBH ROBERT XIAO PENGFEI	Methods for estimating state of charge of battery and battery pack, and battery management system, battery and electric car using methods for estimating state of charge
WO 2019042410 A1	BYD CO LTD	Battery equalization method and system, vehicle, storage medium, and electronic device
WO 2019042411 A1	BYD CO LTD	Battery equalization method and system, vehicle, storage medium, and electronic device
WO 2019044261 A1	DAIMLER AG	Vehicular temperature management device
WO 2019044291 A1	HONDA MOTOR CO LTD	Electric vehicle
WO 2019044801 A1	HONDA MOTOR CO LTD	Laminate, in-vehicle battery containing body, and method for producing in-vehicle battery containing body
WO 2019045310 A1	LG CHEMICAL LTD	Pouch-type secondary battery
WO 2019042741 A1	SOLVAY	Fluorinated liquid electrolyte for electrochemical cells having a lithium metal anode
WO 2019044734 A1	MITSUI MINING & SMELTING CO	Positive electrode active substance for all solid-state lithium secondary battery
WO 2019045443 A1	LG CHEMICAL LTD	Method for manufacturing positive active material, and positive active material and lithium secondary battery using same

WO 2019011899 A1	ELECTRICITE DE FRANCE	Method for managing the electric power passing through a metal-air battery cell and associated cell
WO 2019025171 A1	BOSCH GMBH ROBERT	Method and system for estimating battery open cell voltage, state of charge, and state of health during operation of the battery
WO 2019030440 A1	ARKEMA FRANCE	Lithium salt mixture and uses thereof as a battery electrolyte
WO 2019042399 A1	BYD CO LTD	Battery equalization method and system, vehicle, storage medium, and electronic device
WO 2019042353 A1	BYD CO LTD	Battery equalization system, vehicle, battery equalization method, and storage medium
WO 2019044168 A1	PANASONIC IP MAN CO LTD	Nonaqueous electrolyte secondary battery
WO 2019045631 A1	UNITI SWEDEN AB	Energy storage system, electrical vehicle and portable rechargeable energy storage unit
WO 2019044491 A1	NEC CORP	Electrode for electricity storage devices and method for producing same
WO 2019045003 A1	SOFTENERGY CONTROLS INC	Contact function-equipped multichannel charge/discharge power supply
WO 2019044633 A1	GS YUASA INT LTD	Electricity storage element and electricity storage device
WO 2019044733 A1	MITSUI MINING & SMELTING CO	Positive electrode active substance for all solid-state lithium secondary battery
WO 2019009519 A1	LG CHEMICAL LTD	Battery module and battery pack including same
WO 2019007737 A1	AUDI AG	Battery for an electric drive of a car
WO 2019007685 A1	BOSCH GMBH ROBERT	Negative electrode having an electrode layer, an intermediate layer, and a solid electrolyte layer
WO 2019022388 A1	SAMSUNG SDI CO LTD	Battery module
WO 2019020882 A1	PSA AUTOMOBILES SA	Method for a hybrid vehicle to control an on-board network battery recharging alternator
WO 2019022402 A2	LG CHEMICAL LTD	Method for manufacturing lithium electrode
WO 2019025237 A1	BOSCH GMBH ROBERT GS YUASA INT LTD	Method for manufacturing energy storage device
WO 2019026247 A1	MITSUBISHI ELECTRIC CORP	Charging control device and charging control method
WO 2019031601 A1	MITSUI MINING & SMELTING CO	Si-based negative electrode active material
WO 2019039139 A1	SANYO ELECTRIC CO	Battery module and vehicle equipped with same
WO 2019013541 A2	IUCF HYU	Electrolyte and lithium-sulfur battery comprising same
WO 2019013500 A2	LG CHEMICAL LTD	Lithium secondary battery and manufacturing method therefor
WO 2019020723 A1	SONO MOTORS GMBH	Power management system for a motor vehicle
WO 2019018974 A1	BOSCH GMBH ROBERT UNIV BEIJING JIAOTONG	Method and system for performing modeling and estimation of battery capacity
WO 2019022318 A1	MK ELECTRON CO LTD	Anode active material for secondary battery, and preparation method therefor
WO 2019020772 A1	AUTOTECH ENG A I E	Battery box floor for electric vehicles and corresponding vehicle body
WO 2019020639 A1	LION SMART GMBH	Temperature-control device for controlling the temperature of a battery system, battery system, and method for controlling the temperature of and/or extinguishing a battery system
WO 2019025214 A1	BAYERISCHE MOTOREN WERKE AG	Battery module and battery module stack for a motor vehicle
WO 2019035669 A2	LG CHEMICAL LTD	Negative electrode for lithium secondary battery and lithium secondary battery comprising same
WO 2019004553 A1	LG CHEMICAL LTD	Battery module
WO 2019008827 A1	HITACHI AUTOMOTIVE SYSTEMS LTD	Method for manufacturing secondary battery
WO 2019009177 A1	MAXELL HOLDINGS LTD	Lithium ion secondary battery and method for producing same
WO 2019013478 A2	LG CHEMICAL LTD	Method for manufacturing secondary battery using lithium metal as negative electrode
WO 2019013525 A2	SAMSUNG SDI CO LTD	Negative electrode active material for lithium secondary battery, preparation method therefor, and lithium secondary battery comprising same
WO 2019025876 A1	BALASINGHAM MOHANADAS	Battery exchange program using universal rechargeable batteries, fitting battery cases, battery packs, mini rack and rack systems along with gps tracking for battery exchange stations
WO 2019025336 A1	BOSCH GMBH ROBERT LITHIUM ENERGY & POWER GMBH & CO KG	Method for producing electrodes by means of binder fibrillation
WO 2019039436 A1	MURATA	Battery, battery pack, electronic apparatus, electric vehicle,

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	MANUFACTURING CO	electricity storage device, and electric power system
WO 2019043089 A1	BOSCH GMBH ROBERT	Battery cell having an insulation layer
WO 2019003904 A1	NIPPON ELECTRIC GLASS CO	Positive electrode active material for sodium-ion secondary battery
WO 2019009292 A1	GS YUASA INT LTD	Power storage device, vehicle, and two-wheeled vehicle
WO 2019009239 A1	MURATA MANUFACTURING CO	Secondary battery, battery pack, electric vehicle, power storage system, power tool, and electronic device
WO 2019016218 A1	RENAULT SAS	Method for detecting a self-discharge defect in a battery cell
WO 2019015915 A1	LITHIUM ENERGY & POWER GMBH & CO KG	Battery cell and method for producing a battery cell
WO 2019022063 A1	GS YUASA INT LTD	Electrode, power storage element, and method for manufacturing electrode
WO 2019021885 A1	MURATA MANUFACTURING CO	Electrolyte for secondary battery, secondary battery, battery pack, electric vehicle, electric power storage system, electric tool, and electronic device
WO 2019027977 A2	BOSCH GMBH ROBERT	Batteries with polymer electrolyte composites based on tetrahedral arylborate nodes
WO 2019025419 A1	BOSCH GMBH ROBERT	Battery cell with anode layer protrusion and/or cathode layer protrusion contacted on the separator side and/or on the front side
WO 2019035190 A1	HITACHI CHEMICAL CO LTD	Battery member for secondary batteries, and secondary battery
WO 2019033211 A1	HYDRO QUEBEC	Electrode materials in the form of lithium-based alloy and methods for manufacturing same
WO 2019034140 A1	BYD CO LTD	Electric vehicle, and protection control method and system thereof for power battery pack
WO 2019039422 A1	DAIWA CAN CO LTD	Sealing plate
WO 2019025337 A1	BOSCH GMBH ROBERT	Electrode production method by binder fibrillation using a particulate fibrillation auxiliary agent
WO 2019039187 A1	DENSO CORP	Battery temperature regulator
WO 2019039297 A1	GS YUASA INT LTD	Power storage element
WO 2019039566 A1	SUMITOMO METAL MINING CO	Positive electrode active material for nonaqueous electrolyte secondary cell, method for manufacturing said material, nonaqueous electrolyte secondary cell, and method for manufacturing said cell
WO 2019001330 A1	HANGZHOU SANHUA RES INSTITUTE CO LTD	Thermal management system
WO 2019004731 A1	LG CHEMICAL LTD	Cathode for lithium secondary battery and lithium secondary battery comprising same
WO 2019009245 A1	UBE INDUSTRIES	Film wound body
WO 2019013605 A1	IUCF HYU	Positive active material, method for manufacturing same, and lithium secondary battery comprising same
WO 2019022378 A1	LG CHEMICAL LTD	Battery management unit and battery pack including same
WO 2019021778 A1	SANYO ELECTRIC CO	Battery module, and vehicle equipped with same
WO 2019026550 A1	SHINETSU CHEMICAL CO	Negative electrode active material for non-aqueous electrolyte secondary battery, non-aqueous electrolyte secondary battery, and method for manufacturing negative electrode material for non-aqueous electrolyte secondary battery
WO 2019027052 A1	DAINIPPON PRINTING CO LTD	Corrosion-resistant film, packaging material, method for producing packaging material, metal material with corrosion-resistant film, metal material with resin film, packaging material for batteries, method for producing packaging material for batteries, and battery
WO 2019031518 A1	MURATA MANUFACTURING CO	Negative electrode active substance and production method thereof, thin-film electrode, battery, battery pack, electronic device, electric vehicle, power storage device and power system
WO 2019001193 A1	BYD CO LTD	Battery cover assembly, single-cell battery, battery module, power battery pack, and electric vehicle
WO 2019003776 A1	DAIKIN IND LTD	Electrolytic solution, electrochemical device, secondary cell, and module
WO 2019004567 A1	LG CHEMICAL LTD	Jig device for secondary battery quality inspection
WO 2019007735 A1	AUDI AG	Battery for an electric drive of a motor vehicle
WO 2019009242 A1	KUREHA CORP	Binder composition, electrode mix, electrode, non-aqueous electrolyte secondary battery, and dispersant
WO 2019009564 A1	SAMSUNG SDI CO LTD	Separator, lithium battery employing same, and method for manufacturing separator
WO 2019009332 A1	KURARAY CO	Carbon material for negative electrode active material for non-aqueous electrolyte secondary batteries, non-aqueous

		electrolyte secondary battery negative electrode, non-aqueous electrolyte secondary battery, and carbon material production method
WO 2019014325 A1	RIVIAN AUTOMOTIVE LLC	Electric vehicle with modular removable auxiliary battery with integrated cooling
WO 2019013326 A1	GS YUASA INT LTD	Power storage element
WO 2019027190 A1	LG CHEMICAL LTD	Battery management device and battery pack including same
WO 2019027021 A1	DAINIPPON PRINTING CO LTD	Battery packaging material and battery
WO 2019028180 A1	UNIV COLORADO REGENTS	Multi-modular capacitive wireless power transfer circuit and related techniques
WO 2019031169 A1	SANYO ELECTRIC CO	Battery module and vehicle equipped with same
WO 2019031611 A1	DAINIPPON PRINTING CO LTD	Packaging material for battery, battery, production methods therefor, and method for improving printing suitability of ink for packaging material for battery
WO 2019028515 A1	CAPE BOUVARD TECH PTY LTD	A structural battery
WO 2019004544 A1	LG CHEMICAL LTD	System and method for calculating insulation resistance
WO 2019008899 A1	DENSO CORP	Battery device
WO 2019013053 A1	SUMITOMO METAL MINING CO	Metal composite hydroxide, method for producing same, positive electrode active material for nonaqueous electrolyte secondary batteries, method for producing said positive electrode active material, and nonaqueous electrolyte secondary battery using said positive electrode active material
WO 2019017029 A1	MURATA MANUFACTURING CO	Secondary battery, battery pack, electric vehicle, electric power storage system, electric tool, and electronic device
WO 2019019963 A1	NIO CO LTD	Battery assembly and traction battery
WO 2019021095 A1	SEMICONDUCTOR ENERGY LAB	System for controlling charging of secondary cell and method for detecting abnormality in secondary cell
WO 2019022408 A1	LG CHEMICAL LTD	Secondary battery copper foil, manufacturing method therefor, and secondary battery comprising same
WO 2019026986 A1	DENSO CORP	Base station device, communication system, and communication method
WO 2019031638 A1	LG CHEMICAL LTD	Electrode assembly, manufacturing method therefor and secondary battery including same
WO 2019035596 A1	LG CHEMICAL LTD	Customized bms module and design method therefor
WO 2019004288 A1	KYUSHU UNIV NATIONAL UNIV CORPORATION	Positive electrode active material for nonaqueous secondary batteries, and nonaqueous secondary battery using same
WO 2019007733 A1	AUDI AG	Battery for an electric drive of a motor vehicle
WO 2019009576 A1	LG CHEMICAL LTD	Pouch-type secondary battery comprising electrode lead with asymmetric notch formed thereon
WO 2019013027 A1	MURATA MANUFACTURING CO	Secondary battery, battery pack, electric vehicle, electrical energy storage system, electric tool and electronic device
WO 2019013511 A2	LG CHEMICAL LTD ULSAN NAT INST SCIENCE & TECH UNIST	Positive electrode for lithium secondary battery, manufacturing method therefor, and lithium secondary battery comprising same
WO 2019026672 A1	ELIY POWER CO LTD	Sealed battery, battery pack, and method for manufacturing sealed battery
WO 2019027174 A1	KCF TECH CO LTD	Anti-creasing copper foil, electrode comprising same, secondary battery comprising same, and manufacturing method therefor
WO 2019027016 A1	POWER IV INC	Secondary battery
WO 2019027149 A1	LG CHEMICAL LTD	Battery module, battery pack comprising same, and power storage apparatus
WO 2019003846 A1	NIPPON ELECTRIC GLASS CO	All-solid-state sodium ion secondary battery
WO 2019003903 A1	NIPPON ELECTRIC GLASS CO	Positive electrode active material for sodium-ion secondary battery
WO 2019007734 A1	AUDI AG	Battery for an electric drive of a motor vehicle
WO 2019012862 A1	PANASONIC IP MAN CO LTD	Power supply device
WO 2019017991 A1	QUANTUMSCAPE CORP	Predictive model for estimating battery states
WO 2019017456 A1	DAINIPPON PRINTING CO LTD	Battery packaging material, method for manufacturing battery packaging material, and battery
WO 2019017183 A1	GS YUASA INT LTD	Estimation device, power storage device, estimation method, and computer program
WO 2019021779 A1	SANYO ELECTRIC CO	Battery system and vehicle equipped with battery system
WO 2019021777 A1	SANYO ELECTRIC CO	Battery module, and vehicle equipped with same
WO 2019026940 A1	SEKISUI CHEMICAL CO	Carbon material, positive electrode for all-solid-state batteries,

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	LTD	negative electrode for all-solid-state batteries, and all-solid-state battery
WO 2019026779 A1	GS YUASA INT LTD	Power storage element
WO 2019030296 A2	LEVEL ENERGY LTD	Energy generation and supply systems and methods of operation
WO 2019031543 A1	SHOWA DENKO KK	Negative electrode active material for secondary battery, and secondary battery
WO 2019001192 A1	BYD CO LTD	Battery cover plate assembly, single cell battery, battery module, power battery pack, and electric car
WO 2019004699 A1	LG CHEMICAL LTD	Lithium secondary battery
WO 2019009121 A1	AUTOMOTIVE ENERGY SUPPLY CORP	Lithium ion secondary battery element and lithium ion secondary battery
WO 2019013492 A1	LG CHEMICAL LTD	Battery module and battery pack including same
WO 2019016395 A1	IMERYS GRAPHITE & CARBON SWITZERLAND LTD	Carbon-coated silicon oxide / graphite composite particles, as well as preparation methods and applications of the same
WO 2019017344 A1	MURATA MANUFACTURING CO	Positive electrode active material, positive electrode, battery, battery pack, electronic device, electric vehicle, power storage device, and power system
WO 2019017847 A1	VANDA ELECTRICS PTE LTD	Portable power storage
WO 2019022044 A1	MURATA MANUFACTURING CO	Negative electrode for secondary batteries, secondary battery, battery pack, electric vehicle, energy storage system, electric tool and electronic device
WO 2019026690 A1	TOKYO INST TECH NICHIA CORP	Electrode active material for nonaqueous secondary battery, and method for manufacturing same
WO 2019031380 A1	MURATA MANUFACTURING CO	Electrode, battery, battery pack, vehicle, power storage system, electric tool, and electronic equipment
WO 2019031170 A1	SANYO ELECTRIC CO	Battery module and vehicle equipped with same
WO 2019031598 A1	GS YUASA INT LTD THE DOSHISHA	Nonaqueous electrolyte and nonaqueous electrolyte electricity storage element
WO 2019035580 A1	POSCO	Method for producing negative electrode active material for lithium secondary battery, and lithium secondary battery including same
WO 2019003476 A1	HITACHI CHEMICAL CO LTD	Active material holding tube, production method therefor, electrode and lead storage battery
WO 2019004655 A1	LG CHEMICAL LTD	Electrode assembly and lithium secondary battery comprising same
WO 2019009160 A1	SUMITOMO METAL MINING CO	Positive electrode active material for non-aqueous electrolyte secondary battery, method for manufacturing positive electrode active material for non-aqueous electrolyte secondary battery, and non-aqueous electrolyte secondary battery using said positive electrode active material
WO 2019013433 A1	SAMSUNG SDI CO LTD	Secondary battery capable of equalising internal/external pressure
WO 2019017331 A1	GS YUASA INT LTD	Electrode, power storage element and method for producing electrode
WO 2019031315 A1	DAIKIN IND LTD	Electrolytic solution, electrochemical device, lithium ion secondary battery, and module
WO 2019031457 A1	GS YUASA INT LTD	Electricity storage module and electricity storage element
WO 2019028516 A1	CAPE BOUVARD TECH PTY LTD	A structural battery
WO 2019013474 A2	LG CHEMICAL LTD	Coating apparatus
WO 2019014864 A1	SHENZHEN QIANGNENG ELECTRIC CO LTD	Battery pack equalization method and apparatus, and battery pack
WO 2019007736 A1	AUDI AG	Battery for an electric drive of a car
WO 2019016980 A1	mitsubishi electric corp	Method and system for predicting unknown voltage of battery and method for predicting unknown current of rechargeable battery
WO 2019016903 A1	UBE INDUSTRIES	Nonaqueous electrolytic solution and electricity storage device using same
WO 2019017062 A1	YAZAKI CORP	Battery module and battery monitoring unit mounting structure
WO 2019017480 A1	OSAKA SODA CO LTD	Electrode and electricity storage device
WO 2019015533 A1	MICROVAST POWER SYSTEMS CO LTD	Method and apparatus for producing cathode particles
WO 2019017252 A1	SUMITOMO ELECTRIC INDUSTRIES	Porous metal body and current collector for nickel metal-hydride battery
WO 2019016578 A1	PARANDIN EHSAN	Interchangeable battery for electric vehicles (ibev) and ibev

		station
WO 2019017457 A1	DAINIPPON PRINTING CO LTD	Battery wrapping material, method for producing battery wrapping material, and battery
WO 2019028512 A1	CAPE BOUVARD TECH PTY LTD	A composite structure for delivering electric power
WO 2019036002 A2	HYLIION INC	Battery pack optimization for thermal management
WO 2019017994 A1	QUANTUMSCAPE CORP	Active and passive battery pressure management
WO 2019018636 A1	UNIV CORNELL	Lithium sulfur batteries and components thereof
WO 2019017479 A1	OSAKA SODA CO LTD	Binder for electrode, binder composition for electrode, electrode material, electrode and power storage device
WO 2019017569 A1	SAMSUNG SDI CO LTD	Pack case for secondary battery
WO 2019003025 A1	SEMICONDUCTOR ENERGY LAB	Method for manufacturing positive electrode active material, and secondary battery
WO 2019015861 A1	MAHLE INT GMBH	Energy storage arrangement

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SUPERCONDENSADORES

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2019035633 A1	TOKAI CARBON KOREA CO LTD	Method for manufacturing activated carbon for electrode material
WO 2019032278 A1	NANOTEK INSTRUMENTS INC	Rolled supercapacitor electrode having highly oriented flakes of exfoliated or expanded graphite and production process
WO 2019022400 A1	DAEHUNG ELECTRIC MACHINERY CO LTD	Wireless charging device and control method therefor
WO 2019036201 A1	UNIV HOUSTON SYSTEM	Single phase single stage bi-directional level 1 electric vehicle battery charger

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SISTEMAS DE RECUPERACIÓN DE ENERGÍA; FRENOS REGENERATIVOS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2019038394 A1	BAYERISCHE MOTOREN WERKE AG	Impulse start in a hybrid drivetrain
WO 2019049836 A1	NTN TOYO BEARING CO LTD	Vehicle motive power assistance system
WO 2019054321 A1	NTN TOYO BEARING CO LTD	Vehicle power assist system
WO 2019020876 A1	RENAULT SAS	Method for controlling gear changes during phases of regenerative braking
WO 2019039608 A1	HITACHI CONSTRUCTION MACH CO	Electromotive drive type work vehicle
WO 2019053675 A2	DE INNOVATION LAB LTD	Regenerative braking arrangement for electrical vehicles
WO 2019021128 A1	QUEPAL LTD	A load dump
WO 2019008286 A1	CONTINENTAL AUTOMOTIVE FRANCE	Regulating the electrical efficiency and the associated braking torque of an electrical machine
WO 2019016050 A1	VALEO EQUIP ELECTR MOTEUR	Instrumentation and control method for a rotating electrical machine, in particular for a motor vehicle
WO 2019034345 A1	BAYERISCHE MOTOREN WERKE AG	Hybrid drive transmission unit and method for operating a vehicle with a hybrid drive

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MÁQUINAS ELÉCTRICAS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2019049392 A1	TOSHIBA KK	Rotating electric machine
WO 2019052767 A1	SIEMENS AG	Mine vehicle having wheel hub drive
WO 2019043273 A1	BERNABE PANOS JORGE JOSE	Recharging system for electric vehicles
WO 2019051482 A1	ILLINOIS TOOL WORKS	Methods and apparatus to mitigate electrical voltage on a rotating shaft
WO 2019054381 A1	NTN TOYO BEARING CO LTD	Vehicle drive device
WO 2019049973 A1	NTN TOYO BEARING CO LTD	Bearing device for vehicle wheel, and vehicle provided with bearing device for vehicle wheel
WO 2019054637 A1	LG INNOTEK CO LTD	Electric pump and motor
WO 2019043999 A1	TOSHIBA KK	Permanent magnet, rotary electrical machine, and vehicle
WO 2019044397 A1	JATCO LTD	Control system for vehicle and control method for vehicle
WO 2019044999 A1	JATCO LTD	Vehicle control device and vehicle control method
WO 2019044997 A1	JATCO LTD	Vehicle control device and vehicle control method
WO 2019045512 A1	MH TECH INC	Method for manufacturing cooling device and motor housing cooling device using same
WO 2019044335 A1	AISIN AW CO	Drive device for vehicle
WO 2019004249 A1	HITACHI AUTOMOTIVE SYSTEMS LTD	Rotating electric machine
WO 2019031043 A1	NSK LTD	Electric vehicle drive device
WO 2019004062 A1	NTN TOYO BEARING CO LTD	In-wheel motor system and electric automobile
WO 2019031042 A1	NSK LTD	Electric vehicle drive device
WO 2019009444 A1	PARK GYE JEUNG	Power generation system using tire deformation
WO 2019017788 A1	E TRACTION EUROPE B V	In-wheel electric motor provided with an inverter and method of manufacturing such an in-wheel electric motor
WO 2019020148 A1	GROB GMBH & CO KG	Method and device for winding a wave winding mat and wave winding mat that can be produced by means of same
WO 2019008820 A1	MITSUBISHI ELECTRIC CORP	Rotating electric machine
WO 2019017791 A1	E TRACTION EUROPE B V	In-wheel electric motor provided with a control system
WO 2019007880 A1	BAYERISCHE MOTOREN WERKE AG	Stator of an electrical machine and cooling device for same
WO 2019028511 A1	CAPE BOUVARD TECH PTY LTD	A structural battery
WO 2019003443 A1	HONDA MOTOR CO LTD	Control device for vehicle
WO 2019004065 A1	NTN TOYO BEARING CO LTD	Rotary electric machine and in-wheel motor drive device provided with rotary electric machine
WO 2019003561 A1	HITACHI AUTOMOTIVE SYSTEMS LTD	Stator of dynamo-electric machine, and dynamo-electric machine
WO 2019015822 A1	SIEMENS AG	Electrical energy production system and method for operating an electrical energy production system
WO 2019017790 A1	E TRACTION EUROPE B V	Stator with terminal connector
WO 2019031277 A1	JATCO LTD	Vehicle control device and control method
WO 2019017786 A1	E TRACTION EUROPE B V	In-wheel motor provided with cooling channels, and a cooling jacket
WO 2019017337 A1	AISIN AW CO	Control device
WO 2019017426 A1	NIPPON STEEL & SUMITOMO METAL CORP	Non-oriented electromagnetic steel plate
WO 2019031278 A1	JATCO LTD	Vehicle control device and control method
WO 2019014479 A1	AXLE TECH INT IP HOLDINGS LLC	Axle assembly for low floor vehicle
WO 2019015031 A1	SHENZHEN A&E MOTOR TECH CO LTD	Electric vehicle, wheel, and switched reluctance motor and current control method therefor

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CONVERTIDORES, INVERSORES

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2019037904 A1	ZAHNRADFABRIK FRIEDRICHSHAFEN	Power module with cooling plates
WO 2019046939 A1	GOVERNING COUNCIL UNIV TORONTO	Electric vehicle power-hub and operating modes thereof
WO 2019050122 A1	LEE HYUN HWAN	Heat-radiating device casing having refrigerant pipe embedded therein and apparatus and method for manufacturing same
WO 2019048806 A1	VALEO SYSTEMES DE CONTROLE MOTEUR	Voltage converter on board a motor vehicle and associated electric charger
WO 2019051824 A1	BOSCH GMBH ROBERT	Electric drive system
WO 2019052941 A1	VALEO SIEMENS EAUTOMOTIVE GERMANY GMBH	Inverter for an electric vehicle, vehicle and method for operating an inverter
WO 2019057245 A1	TECHNISCHE HOCHSCHULE KOELN	Quantum series resonant power-converting device and integral cycle control method
WO 2019051823 A1	BOSCH GMBH ROBERT	Electric motor and inverter assembly
WO 2019038900 A1	HITACHI LTD	Motor control system
WO 2019043806 A1	MITSUBISHI ELECTRIC CORP	Power converter device
WO 2019044948 A1	DENSO CORP	Power conversion device
WO 2019043136 A1	AVL LIST GMBH	Energy accumulator emulator and method for emulation of an energy accumulator
WO 2019044728 A1	DENSO CORP	Control device for rotating electrical machine
WO 2019044646 A1	JNC CORP	Composition for heat dissipation members, heat dissipation member, electronic device, and method for producing heat dissipation member
WO 2019044177 A1	HITACHI AUTOMOTIVE SYSTEMS LTD	Power semiconductor device and manufacturing method thereof
WO 2019004572 A1	HANON SYSTEMS	Bldc motor integrated with inverter
WO 2019022023 A1	DENSO CORP	Cooling water circuit
WO 2019028444 A1	FARADAY&FUTURE INC	Dead time compensation using an error voltage calculation
WO 2019014341 A1	MAYO FOUND MEDICAL EDUCATION & RES	Systems and methods for current estimation
WO 2019021780 A1	SUMITOMO WIRING SYSTEMS	Electrically conducting path
WO 2019024712 A1	NIO CO LTD	Motor drive system of electric vehicle
WO 2019001843 A1	BOSCH GMBH ROBERT	Dead-time regulation with active feedback by luminescence
WO 2019008932 A1	HITACHI AUTOMOTIVE SYSTEMS LTD	Motor control system and electric vehicle
WO 2019026836 A1	DENKA COMPANY LTD	Power module
WO 2019010698 A1	MAGSONDER INNOVATION SHANGHAI CO LTD	Reactor core and reactor thereof
WO 2019012835 A1	PANASONIC IP MAN CO LTD	Power supply device
WO 2019013075 A1	AUTONETWORKS TECHNOLOGIES LTD	Reactor
WO 2019031408 A1	DENSO CORP	Power conversion device
WO 2019001329 A1	NIO NEXTEV LTD	Fault detection and processing method and apparatus for electric vehicle inverter, and storage medium
WO 2019008678 A1	NISSAN MOTOR	Electric vehicle power conversion device
WO 2019011341 A1	HUAWEI TECH CO LTD	Multi-level power factor correction circuit using hybrid devices
WO 2019031596 A1	DENSO CORP	Reactor cooling structure
WO 2019030966 A1	HITACHI LTD	Power conversion device and power conversion method
WO 2019021138 A2	QUEPAL LTD	A threshold detector circuit for lossless switching
WO 2019021731 A1	DENSO CORP	Semiconductor module
WO 2019034507 A1	BOSCH GMBH ROBERT	Method for controlling a pulse-width-modulated power converter, control device for a pulse-width-modulated power converter, power converter assembly, and electrical drive system
WO 2019020460 A2	BOSCH GMBH ROBERT	Inverter-charger circuit topology with at least two b6-bridges connected in parallel

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RECARGA DE BATERÍAS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2019053369 A1	VALEO SYSTEMES DE CONTROLE MOTEUR	Vehicle charger comprising a dc-to-dc converter
WO 2019037973 A1	ZAHNRADFABRIK FRIEDRICHSHAFEN	Charging vehicle and method for charging an electric vehicle
WO 2019052298 A1	DAR YUN ENERGY SCIENCE TECH CO LTD	Electric forced feedback system of electric carrier
WO 2019052961 A1	EASE LINK GMBH	Vehicle contact unit, ground contact unit, vehicle coupling system and method for checking the contacting and the assignment of contact points
WO 2019050559 A1	APPLE INC	Wireless charging system with image-processing-based foreign object detection
WO 2019052710 A1	INNOGY SE	Method for detecting profiles of charging currents
WO 2019053329 A1	MOVEKOTECH OY	Method and apparatus for transmitting electric energy
WO 2019054020 A1	PANASONIC IP MAN CO LTD	Battery management device, battery system, and battery management method
WO 2019048794 A1	VALEO SYSTEMES DE CONTROLE MOTEUR	Method for connecting a motor vehicle to a charging device
WO 2019051144 A2	NIO USA INC	Split battery for autonomous driving
WO 2019053370 A1	VALEO SYSTEMES DE CONTROLE MOTEUR	Vehicle charger comprising a dc/dc converter
WO 2019055150 A2	QUALCOMM INC	Hybrid foreign-object detection and positioning system
WO 2019002853 A1	MULLER EV LTD	A cable storage system for an electric vehicle charger cabinet
WO 2019039263 A1	AUTONETWORKS TECHNOLOGIES LTD	Power source system and electric vehicle
WO 2019043997 A1	mitsubishi motors corp	Electric vehicle
WO 2019042438 A1	BYD CO LTD	Battery balancing system and vehicle
WO 2019042437 A1	BYD CO LTD	Battery information acquisition device, battery balancing system, vehicle, method, and storage medium
WO 2019042441 A1	BYD CO LTD	Battery balancing system, vehicle, battery balancing method, and storage medium
WO 2019043311 A1	VALEO SYSTEMES THERMIQUES	Electrical connector participating in a charging of a vehicle battery and comprising a heat treatment element
WO 2019037632 A1	NIO CO LTD	Electric vehicle power-on method based on wake-up sources
WO 2019042365 A1	BYD CO LTD	Battery equalization method and system, vehicle, storage medium, and electronic device
WO 2019042440 A1	BYD CO LTD	Battery balancing system, vehicle, battery balancing method, and storage medium
WO 2019042363 A1	BYD CO LTD	Battery equalization system, vehicle, battery equalization method, and storage medium
WO 2019042439 A1	BYD CO LTD	Battery balancing system, vehicle, battery balancing method, and storage medium
WO 2019038183 A1	BOMBARDIER PRIMOVE GMBH	Inductive power transfer pad
WO 2019042362 A1	BYD CO LTD	Battery equalization system, vehicle, battery equalization method, and storage medium
WO 2019042415 A1	BYD CO LTD	Battery equalization method and system, vehicle, storage medium, and electronic device
WO 2019042866 A1	HOCHSCHULE OSNABRUECK	Charging point, arrangement comprising multiple such charging points, and method for operating such a charging point
WO 2019042354 A1	BYD CO LTD	Battery equalization system, vehicle, battery equalization method, and storage medium
WO 2019042401 A1	BYD CO LTD	Battery equalization method and system, vehicle, storage medium, and electronic device
WO 2019042413 A1	BYD CO LTD	Battery equalization method and system, vehicle, storage medium, and electronic device
WO 2019048453 A1	KEMPKA REINHOLD	System for inductively charging an electric vehicle
WO 2019042412 A1	BYD CO LTD	Battery equalization method and system, vehicle, storage medium, and electronic device
WO 2019042356 A1	BYD CO LTD	Battery equalization method and system, vehicle, storage medium, and electronic device

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WO 2019042436 A1	BYD CO LTD	Battery balancing system, vehicle, battery balancing method, and storage medium
WO 2019000951 A1	NIO NEXTEV LTD	Battery charging system and electrical vehicle charging station comprising same
WO 2019020632 A1	A T KEARNEY LTD	Aggregating energy resources
WO 2019030125 A1	CONTINENTAL AUTOMOTIVE GMBH	Storage-battery charging device for a motor vehicle, method for operating an on-board storage-battery charging device, high-voltage vehicle electrical system and use of a storage-battery charging device
WO 2019010375 A1	KAUFFMANN ALAN	An apparatus that automates the connecting process between a primary connector and a secondary connector for charging an electric vehicle
WO 2019020303 A1	BAYERISCHE MOTOREN WERKE AG	Device and method for balancing an energy storage module
WO 2019032318 A1	ZOOX INC	Smart battery circuit
WO 2019034695 A1	VOLKSWAGEN AG	Method for operating a battery management system, battery management system and motor vehicle
WO 2019034456 A1	CONTINENTAL AUTOMOTIVE GMBH	Foreign body detection
WO 2019002432 A1	BAYERISCHE MOTOREN WERKE AG	Coil device for a motor vehicle, in particular for a car
WO 2019007879 A1	BOSCH GMBH ROBERT	Master control device for a battery system
WO 2019037033 A1	HAIMEN THE PINGE IND DESIGN CO LTD	Electric vehicle direct-current charger based on dsp_cpld control
WO 2019039188 A1	DENSO CORP	Battery temperature regulator and external heat source supply device
WO 2019004558 A1	LG CHEMICAL LTD	Off-prevention circuit of contactor
WO 2019008047 A1	PAXOS CONSULTING & ENG GMBH & CO KG	Charging cable system with cooling
WO 2019009531 A1	LG CHEMICAL LTD	Wireless battery management system and battery pack including same
WO 2019020531 A1	BOSCH GMBH ROBERT	Method and device for equalising charging states of individual batteries of a battery system
WO 2019043337 A1	VALEO SYSTEMES THERMIQUES	Electrical connection device for vehicle cooled by a heat transfer fluid circuit
WO 2019001943 A1	DAIMLER AG	Charging device for charging an energy store of a vehicle, and vehicle having such a charging device
WO 2019020747 A1	WOBLEN PROPERTIES GMBH	Charging station having dynamic charging current distribution
WO 2019001818 A1	AUDI AG	Method for controlling a contactless energy transmission process, motor vehicle and charging station
WO 2019016998 A1	MITSUBISHI ELECTRIC CORP	Accumulator system charging control device, accumulator system, and accumulator charging control method
WO 2019017595 A1	LG CHEMICAL LTD	Wireless battery management system and battery pack including same
WO 2019020629 A1	KOSTAL LEOPOLD GMBH & CO KG	Method for network evaluation and generating nominal values for a charging appliance
WO 2019028451 A1	GLOBAL BATTERY SOLUTIONS LLC	Battery monitor system and method
WO 2019027094 A1	KOREA ELECTROTECHNOLOGY RES INSTITUTE	Battery management system
WO 2019007721 A1	INNOGY SE	Charging box unit for a charging post
WO 2019008218 A1	PARKKISAHEKOE OY	The recognition and selection of the phases of an electric vehicle charging device
WO 2019013077 A1	SANYO ELECTRIC CO	Management device and power supply system
WO 2019015759 A1	EPCOS SCHWEIZ GMBH	Primary assembly for use in a wireless power transmission system, positioning system, and method of determining a distance between a primary assembly and a secondary assembly
WO 2019026143 A1	NISSAN MOTOR	Charging time computation method and charge control device
WO 2019034495 A1	CONTINENTAL AUTOMOTIVE GMBH	Wireless charging device for an inductive power transfer, wireless power receiving unit and method for wirelessly transferring power for wireless charging
WO 2019020596 A1	LION SMART GMBH	Transmission device, data acquisition device, system consisting of a temperature-controlling device and a data acquisition device, battery system and method for communicating state data

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WO 2019011905 A2	ABB SCHWEIZ AG	Variable power charging
WO 2019017596 A1	LG CHEMICAL LTD	Wireless battery management system and battery pack including same
WO 2019020669 A1	ABB SCHWEIZ AG	Electrical vehicle charging device for charging an electrical vehicle with a dc voltage
WO 2019020600 A1	WOBLEN PROPERTIES GMBH	Charging station with dynamic charging current distribution
WO 2019007861 A1	CONTINENTAL AUTOMOTIVE GMBH	Inductive charging device for an electrically driven motor vehicle and method for operating the charging device
WO 2019018611 A1	WEBB RONALD MICHAEL	Autonomous vehicle service station, systems and methods

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CAMBIO DE BATERÍAS

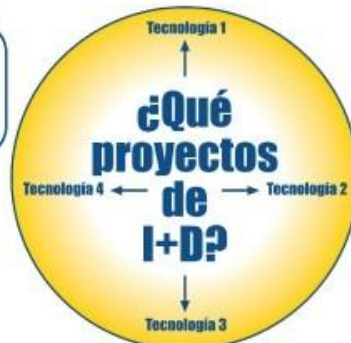
Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2019024886 A1	SHANGHAI DIANBA NEW ENERGY TECH CO LTD	Battery box, bracket and battery box assembly
WO 2019033716 A1	NIO CO LTD	Bolt locking method, swappable battery pack installation system, and installation method
WO 2019007730 A1	AUDI AG	Motor vehicle and method for arranging at least one traction energy storage device in a motor vehicle
WO 2019033721 A1	NIO CO LTD	Bolt locking method, swappable battery pack installation system, and installation method

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EJECUCIÓN



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



CONCLUSIÓN



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



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