

Noticias

La vicepresidenta cuarta del Gobierno y ministra para la Transición Ecológica y el Reto Demográfico, Teresa Ribera, presentó el 7 de octubre de 2020, el [Plan de Recuperación, Transformación y Resiliencia de la economía española](#), según el cual, el Ejecutivo pondrá en marcha un paquete integral de reformas e inversiones orientadas a la movilidad eléctrica, que incluye el despliegue de más de 100.000 puntos de recarga de coches eléctricos antes de 2023.

El 3 de noviembre de 2020, [El Consejo de la Unión Europea](#) publicó en el Diario Oficial de la Unión Europea, su decisión relativa a la posición que debe adoptarse en nombre de la Unión Europea, en el Foro Mundial para la Armonización de la Reglamentación sobre Vehículos de la Comisión Económica para Europa de las Naciones Unidas, por lo que respecta a las propuestas de modificaciones de los Reglamentos número 0, 13, 16, 17, 44, 55, 83, 93, 94, 95, 100, 115, 137, 144, 151, 152 y 153 de las Naciones Unidas, a las propuestas de modificaciones de los Reglamentos Técnicos Mundiales número 7, 15 y 18, a la propuesta de enmiendas a la Resolución Mutua R.M.3, a las propuestas de dos nuevos Reglamentos de las Naciones Unidas relativos al desplazamiento en marcha atrás y los sistemas de información al inicio de la marcha y a la propuesta de un nuevo Reglamento Técnico Mundial sobre la determinación de la potencia de los vehículos eléctricos.

El [Ministerio del Interior](#) publicó el 23 de noviembre de 2020, una nota de prensa informando de la adquisición por parte de la Guardia Civil, de 50 vehículos eléctricos (Nissan LEAF con batería de 40 kW) para su uso en zonas portuarias y aeropuertos.

El 30 de diciembre de 2020 el Ministerio para la Transición Ecológica y el Reto Demográfico (MITECO), abrió una [convocatoria de expresiones de interés \(call for interest\) sobre "Movilidad eléctrica: infraestructura de recarga, innovación y electrificación del parque móvil en el marco del Plan de Recuperación, Transformación y Resiliencia"](#), para identificar proyectos y nuevas líneas de actuación que contribuyan a diseñar y dimensionar las ayudas y los mecanismos que desarrollen el Plan de Recuperación, Transformación y Resiliencia de la economía española.

El plazo de entrega finaliza el 29 de enero de 2021.

[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 2020208652 A1	PANASONIC INDIA PVT LTD	Improved utilization of electric vehicles
WO 2020217013 A1	PSA AUTOMOBILES SA	Rechargeable vehicle battery having a case pre-fitted with interfaces
WO 2020208653 A1	PANASONIC INDIA PVT LTD	Charging of electric vehicles based on driving behaviour
WO 2020203429 A1	GS YUASA INT LTD	Negative electrode for non-aqueous electrolyte power storage element, non-aqueous electrolyte power storage element, and methods for manufacturing same
WO 2020203420 A1	PANASONIC IP MAN CO LTD	Nonaqueous electrolyte secondary battery
WO 2020203289 A1	GS YUASA INT LTD	Non-aqueous electrolyte for power storage element, non-aqueous electrolyte power storage element, and method for producing non-aqueous electrolyte power storage element
WO 2020209260 A1	DENKA COMPANY LTD	Composition
WO 2020208459 A1	SEMICONDUCTOR ENERGY LAB	Method for preparing positive electrode active material
WO 2020213647 A1	ZEON CORP	Catalyst, electrode, membrane electrode assembly, and air cell
WO 2020218373 A1	DENSO CORP	Cell monitoring device
WO 2020246580 A1	DAIKIN IND LTD	Electrolyte solution for alkali metal ion secondary battery, alkali metal ion secondary battery and module
WO 2020205447 A1	MAXWELL LAB	Compositions and methods for dry electrode films including elastic polymer binders
WO 2020202845 A1	PANASONIC IP MAN CO LTD	Non-aqueous electrolyte secondary battery
WO 2020203882 A1	TEIJIN LTD	Polymeric binder and all-solid-state secondary battery
WO 2020203322 A1	MITSUI CHEMICALS INC	Nonaqueous electrolyte solution for batteries, and lithium secondary battery
WO 2020218739 A1	UNIV HANYANG IND UNIV COOP FOUND	Anode active material, method for manufacturing same, and lithium secondary battery comprising same
WO 2020218008 A1	DENSO CORP	Cooling system
WO 2020251472 A1	AGENCY SCIENCE TECH & RES	A cathode material and a method of preparing the same
WO 2020195790 A1	HITACHI METALS LTD	Lithium ion secondary battery positive electrode active material, method for manufacturing same, and lithium ion secondary battery
WO 2020222465 A1	LG CHEMICAL LTD	Non-aqueous electrolyte for lithium secondary battery and lithium secondary battery comprising same
WO 2020246072 A1	DAINIPPON PRINTING CO LTD	Electricity storage device, electricity storage device assembly, electric vehicle, and method for manufacturing electricity storage device
WO 2020246558 A1	VEHICLE ENERGY JAPAN INC	Battery control device
WO 2020196042 A1	FUJIFILM CORP	All-solid-state secondary battery and method for producing same
WO 2020192927 A1	BAYERISCHE MOTOREN WERKE AG	Lithium battery and use of a urea-based additive as an electrolyte additive contained therein
WO 2020201893 A1	SEMICONDUCTOR ENERGY LAB	State of charge estimation method for secondary battery, state of charge estimation system for secondary battery, and abnormality detection method for secondary battery
WO 2020202844 A1	PANASONIC IP MAN CO LTD	Lithium secondary battery
WO 2020208800 A1	KAO CORP	Dispersant composition for carbon nanotubes
WO 2020213673 A1	VALEO JAPAN CO LTD	Heat exchanger for cooling vehicle battery
WO 2020218456 A1	MURATA MANUFACTURING CO	Secondary battery
WO 2020221806 A1	CROSSLINK GMBH	Temperature control system for lithium ion battery cells

WO 2020195432 A1	SUMITOMO METAL MINING CO	Positive-electrode active material for lithium-ion secondary cell, method for manufacturing positive-electrode active material, and lithium-ion secondary cell
WO 2020196041 A1	FUJIFILM CORP	Solid electrolyte composition, sheet for all-solid-state secondary batteries, all-solid-state secondary battery, method for producing sheet for all-solid-state secondary batteries, and method for producing all-solid-state secondary battery
WO 2020196591 A1	APB CORP	Production method for lithium-ion battery member
WO 2020200416 A1	TOYOTA MOTOR EUROPE	3D ordered nanomesh for metal-air battery
WO 2020238628 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Negative electrode pole piece, battery cell, lithium ion battery and preparation method therefor, and device containing lithium ion battery
WO 2020250892 A1	SHOWA DENKO MAT CO LTD	Secondary battery
WO 2020194385 A1	TOSHIBA KK	Electrode, battery and battery pack
WO 2020204584 A1	LG CHEMICAL LTD	Battery management device and method
WO 2020201874 A1	SEMICONDUCTOR ENERGY LAB	Positive electrode active material and secondary battery
WO 2020229477 A1	COMMISSARIAT ENERGIE ATOMIQUE	Process for crushing an electrochemical generator
WO 2020196040 A1	FUJIFILM CORP	All-solid-state lithium ion secondary battery and method for manufacturing same, and negative electrode laminate sheet
WO 2020203658 A1	ENVISION AESC ENERGY DEVICES LTD	Positive electrode for lithium ion secondary battery, positive electrode sheet for lithium ion secondary battery, and method for producing same
WO 2020209200 A1	HITACHI LTD	Battery system, railroad vehicle, and battery management method
WO 2020213905 A1	LG CHEMICAL LTD	Apparatus and method for determining state of degradation of battery, battery pack, and electric vehicle
WO 2020216690 A1	BP PLC	Dielectric thermal management fluids and methods for using them
WO 2020243948 A1	EVONIK SHANGHAI INVESTMENT MAN CO LTD	In-situ polymerized polymer electrolyte for lithium ion batteries
WO 2020246079 A1	KAWASAKI HEAVY IND LTD	System and method for treating waste lithium ion battery
WO 2020250981 A1	MURATA MANUFACTURING CO	Solid-state battery
WO 2020252235 A1	LUBRIZOL CORP	Organic heat transfer system, method and fluid
WO 2020196805 A1	UBE INDUSTRIES	Polyimide-based binder for electricity storage devices, electrode mixture paste, negative electrode active material layer, negative electrode sheet for electricity storage devices, and electricity storage device
WO 2020204074 A1	SEKISUI CHEMICAL CO LTD	Lithium ion secondary battery
WO 2020213369 A1	MURATA MANUFACTURING CO	Electrode structure and secondary battery
WO 2020217622 A1	HITACHI LTD	Electricity storage system, battery selling method, and battery counting system
WO 2020218211 A1	DENKA COMPANY LTD	Slurry including carbon black, electrode paste, method for producing electrode, and method for producing secondary battery
WO 2020246595 A1	MURATA MANUFACTURING CO	Battery pack, electric tool, electric vehicle, and exterior case for storing battery
WO 2020251173 A1	LG CHEMICAL LTD	Battery module, manufacturing method of same, and battery pack comprising battery module
WO 2020197197 A1	LG CHEMICAL LTD	Cathode active material particles for sulfide-based all-solid battery
WO 2020196372 A1	APB CORP	Lithium ion battery
WO 2020204631 A1	LG CHEMICAL LTD	Anode active material, method for manufacturing same, and anode and secondary battery each comprising same
WO 2020205452 A1	MAXWELL LAB	Compositions and methods for multilayer dry coated and wet cast film hybrid electrode films
WO 2020203367 A1	FUJIFILM CORP	Method for manufacturing sheet for all-solid-state secondary battery and all-solid-state secondary battery, sheet for all-solid-state secondary battery, and all-solid-state secondary battery
WO 2020215018 A1	HEXAGON PURUS NORTH AMERICA HOLDINGS INC	Electric powertrain system for heavy duty vehicles
WO 2020217238 A1	TERAWATT TECH INC	Cell design optimization for non-flammable electrolyte

WO 2020251207 A1	LG CHEMICAL LTD	Battery module, manufacturing method therefor, and battery pack
WO 2020196115 A1	ZEON CORP	Conductive material paste for lithium-ion secondary battery electrode, slurry composition for lithium-ion secondary battery electrode, lithium-ion secondary battery electrode, and lithium-ion secondary battery
WO 2020203881 A1	TEIJIN LTD	Polymeric binder and all-solid-state secondary battery including same
WO 2020209685 A1	LG CHEMICAL LTD	Positive electrode active material for secondary battery, method for producing same, and lithium secondary battery including same
WO 2020222469 A1	LG CHEMICAL LTD	Non-aqueous electrolyte for lithium secondary battery, and lithium secondary battery comprising same
WO 2020242237 A1	LG CHEMICAL LTD	Carbon having redox functional group-containing polymer layer formed thereon, and sulfur-carbon composite and lithium secondary battery including same
WO 2020251140 A1	LG CHEMICAL LTD	Battery module and manufacturing method thereof
WO 2020194006 A1	UNIV HONG KONG SCIENCE & TECHNOLOGY	High-power cathode material for lithium-ion batteries
WO 2020196148 A1	KUREHA CORP	Composition for electrode mix, electrode mix, electrode, non-aqueous electrolyte secondary battery, and method for producing electrode
WO 2020218422 A1	JAPAN STEEL WORKS LTD	Method for producing solid electrolyte membrane, method for producing all-solid-state battery, apparatus for producing solid electrolyte membrane, and apparatus for producing all-solid-state battery
WO 2020244758 A1	BLUE SOLUTIONS	Rechargeable electrical energy storage device and system, vehicle and facility provided with such a system
WO 2020203454 A1	DENSO CORP	Control device
WO 2020203149 A1	MURATA MANUFACTURING CO	Secondary battery
WO 2020204209 A1	DENKA COMPANY LTD	Heat-blocking material composition, heat-blocking material, and method for manufacturing same
WO 2020210788 A1	ADVANCED MEASUREMENT TECH INC	Battery monitoring and testing system and methods thereof
WO 2020213627 A1	SHOWA DENKO KK	Composite carbon particle, method for manufacturing same, and use thereof
WO 2020214000 A1	LG CHEMICAL LTD	Battery management device and method using non-destructive resistance analysis
WO 2020214691 A1	BOARD OF TRUSTEES OF NORTHERN ILLINOIS UNIV	Doped lithium anode, battery having a doped lithium anode, and methods of use thereof
WO 2020218417 A1	JAPAN STEEL WORKS LTD	Non-woven fabric, method for producing non-woven fabric, solid electrolyte membrane, method for producing solid electrolyte membrane, all-solid-battery, and method for producing all-solid-state battery
WO 2020248678 A1	GREENOVELTY ENERGY CO LTD	Method of preparing cathode for secondary battery
WO 2020201916 A1	SEMICONDUCTOR ENERGY LAB	Method for producing positive electrode active material, method for producing secondary battery, and secondary battery
WO 2020202973 A1	ENVISION AESC ENERGY DEVICES LTD	Positive electrode for lithium ion secondary battery, positive electrode sheet for lithium ion secondary battery, and manufacturing method thereof
WO 2020208718 A1	TOSHIBA KK	Electrode, electrode group, battery and battery pack
WO 2020209240 A1	MURATA MANUFACTURING CO	Lithium ion secondary battery
WO 2020206552 A1	HYDRO QUEBEC	Ceramic electrolytes, methods for preparing same and electrochemical cells comprising them
WO 2020218020 A1	MURATA MANUFACTURING CO	Negative-electrode active material, negative electrode, and secondary battery
WO 2020195543 A1	JAPAN METALS AND CHEMICALS CO LTD	Hydrogen storage alloy for alkaline storage battery, alkaline storage battery using the same in negative electrode, and vehicle
WO 2020222628 A1	DAEJOO ELECTRONIC MAT CO LTD	Silicon oxide composite for lithium secondary battery anode material and method for manufacturing same
WO 2020195542 A1	JAPAN METALS AND CHEMICALS CO LTD	Hydrogen-intercalated alloy for alkaline battery, alkaline battery using same as negative electrode, and vehicle
WO 2020195431 A1	SUMITOMO METAL MINING CO	Positive electrode active material for lithium ion secondary batteries, method for producing same, and lithium ion secondary battery

WO 2020216516 A1	KAUTEX TEXTRON GMBH & CO KG	Battery housing assembly with heat transfer device, and traction battery with battery housing assembly
WO 2020218217 A1	MURATA MANUFACTURING CO	Secondary battery
WO 2020240786 A1	SHOWA DENKO MAT CO LTD	Slurry composition for batteries, and methods for producing electrode, electrolyte sheet, and battery member
WO 2020194964 A1	SANYO ELECTRIC CO	Voltage detection line and battery module
WO 2020194930 A1	SANYO ELECTRIC CO	Power supply device, electric vehicle using same, and power storage device
WO 2020206293 A1	ARTISAN VEHICLE SYSTEMS INC	Interchangeable energy device for electric vehicle
WO 2020214384 A1	BOSCH GMBH ROBERT	Battery module including asymmetric cell electrical connections
WO 2020222370 A1	MYONGJI UNIV INDUSTRY AND ACADEMIA COOPERATION FOUNDATION	Structure for attachment/detachment of energy pack for electric vehicle
WO 2020226472 A1	LG CHEMICAL LTD	Electrolyte membrane for all-solid-state battery, and all-solid-state battery comprising same
WO 2020196189 A1	GS YUASA INT LTD	Electricity storage device
WO 2020214386 A1	BOSCH GMBH ROBERT	Battery pack with a pressure management system
WO 2020235893 A1	IUCF HYU	Cathode active material having 5v-grade spinel structure, and preparation method therefor
WO 2020236727 A1	NANOGRAP CORP	Anode active material including low-defect turbostratic carbon
WO 2020236725 A1	NEXTECH BATTERIES INC	Pouch cell battery including an ion exchange membrane
WO 2020240324 A1	SEMICONDUCTOR ENERGY LAB	Estimation method for internal resistance of secondary battery and anomaly detection system for secondary battery
WO 2020241804 A1	SUMITOMO METAL MINING CO	Positive electrode active material precursor for lithium-ion secondary battery, positive electrode active material for lithium-ion secondary battery, method for producing positive electrode active material precursor for lithium-ion secondary battery, method for producing positive electrode active material for lithium-ion secondary battery, lithium-ion secondary battery
WO 2020251171 A1	LG CHEMICAL LTD	Battery module, method for preparing same, and battery pack including same
WO 2020251128 A1	LG CHEMICAL LTD	Terminal busbar for improving safety, and battery module and battery pack comprising same
WO 2020226412 A1	LG CHEMICAL LTD	All-solid-state battery comprising composite electrode
WO 2020231087 A1	LG CHEMICAL LTD	Method for manufacturing anode
WO 2020235291 A1	NIPPON ELECTRIC GLASS CO	Electrode composite material
WO 2020246716 A1	SAMSUNG SDI CO LTD	Secondary battery
WO 2020194939 A1	SANYO ELECTRIC CO	Power supply device and electric vehicle
WO 2020194937 A1	SANYO ELECTRIC CO	Power supply device, and electric vehicle and electrical storage device each equipped with same
WO 2020203573 A1	MURATA MANUFACTURING CO	Battery pack
WO 2020207368 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Lithium supplementing layer and negative pole piece thereof, lithium-ion battery and device
WO 2020218583 A1	K E E LLC	Heat-resistant polyolefin-based microporous film and method for producing same
WO 2020218214 A1	MURATA MANUFACTURING CO	Secondary battery
WO 2020231162 A1	LG CHEMICAL LTD	Sulfur-carbon composite, and cathode and lithium secondary battery each comprising same
WO 2020251159 A1	LG CHEMICAL LTD	Battery module, method of manufacturing same, and battery pack
WO 2020251141 A1	LG CHEMICAL LTD	Battery module and battery pack comprising same
WO 2020200885 A1	COVESTRO INTELLECTUAL PROPERTY GMBH & CO KG	Battery housing and its use in electric vehicles
WO 2020209589 A1	LG CHEMICAL LTD	Battery module
WO 2020240143 A1	ARKEMA FRANCE	Device for cooling and/or heating an electric vehicle battery
WO 2020241585 A1	TOYOTA JIDOSHOKKI KK	Power storage device
WO 2020195310 A1	MURATA MANUFACTURING CO	Solid-state battery
WO 2020196806 A1	MITSUBISHI CHEM CORP	Partition member and battery assembly

WO 2020198805 A1	THE UNIV OF ADELAIDE	Electrolytic battery for high-voltage and scalable energy storage
WO 2020203646 A1	MITSUBISHI CHEM CORP	Partition member and battery pack
WO 2020209540 A1	SK INNOVATION CO LTD	Lithium secondary battery including negative electrode having improved resistance to degradation, and method for manufacturing same
WO 2020216060 A1	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Electrolyte, lithium ion battery and device containing lithium ion battery
WO 2020218473 A1	SANYO ELECTRIC CO	Electrode plate, nonaqueous electrolyte secondary battery, and electrode plate manufacturing method
WO 2020226026 A1	HONDA MOTOR CO LTD	Evaluation device, evaluation method, and program
WO 2020241410 A1	SANYO ELECTRIC CO	Nonaqueous electrolyte secondary battery
WO 2020228668 A1	GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP LTD	Method and device for charging, equipment, and storage medium
WO 2020241497 A1	DENSO CORP	Heat-transfer device
WO 2020194938 A1	SANYO ELECTRIC CO	Power supply device and electric vehicle
WO 2020203534 A1	MURATA MANUFACTURING CO	Secondary battery and method for manufacturing secondary battery
WO 2020226334 A1	LG CHEMICAL LTD	Solid electrolyte membrane and solid-state battery comprising same
WO 2020241691 A1	KUREHA CORP	All-solid-state battery and method for producing same
WO 2020246721 A1	LG CHEMICAL LTD	Battery rack and power storage device comprising same
WO 2020251176 A1	LG CHEMICAL LTD	Battery module and battery pack including same
WO 2020197198 A1	LG CHEMICAL LTD	Polyolefin separator and method for producing same
WO 2020199378 A1	REPOWER TECH CO LTD	Avoidance system and method for cask effect of battery pack
WO 2020207679 A1	BAYERISCHE MOTOREN WERKE AG	Method for producing a cover assembly for a cell housing of a prismatic battery cell having a sealing element, and battery cell
WO 2020218521 A1	DENSO CORP	Battery module
WO 2020231088 A1	LG CHEMICAL LTD	Method for manufacturing anode
WO 2020241322 A1	ZEON CORP	Slurry composition for all-solid-state secondary cell, solid-electrolyte-containing layer, all-solid-state secondary cell, and method for manufacturing slurry composition for all-solid-state secondary cell
WO 2020251604 A1	X MAT BATTERY IP HOLDINGS LLC	High capacity, long cycle life battery anode materials, compositions and methods
WO 2020194929 A1	SANYO ELECTRIC CO	Separator for insulating adjacent battery cells and power supply device
WO 2020195988 A1	TORAY INDUSTRIES	Separator for secondary cell, thermoplastic resin granulated body, slurry composition, and method for manufacturing same, and secondary cell
WO 2020201551 A1	VOLKSWAGEN AG	Arrangement for cooling an electronic assembly, electronic assembly, battery and vehicle with a battery of this type
WO 2020203620 A1	MURATA MANUFACTURING CO	Solid-state battery
WO 2020231147 A1	LG CHEMICAL LTD	Positive electrode active material for secondary battery, method for preparing same, and lithium secondary battery comprising same
WO 2020235447 A1	NEC CORP	Carbon material and lithium ion secondary battery using same
WO 2020234586 A1	NEXEON LTD	Electroactive materials for metal-ion batteries
WO 2020241431 A1	VALEO JAPAN CO LTD	Battery cooling system
WO 2020252427 A1	AMPCERA INC	A solid-state electrolyte membrane
WO 2020252216 A1	UNIV MICHIGAN REGENTS	3-d composite anodes for li-ion batteries with high capacity and fast charging capability
WO 2020196190 A1	GS YUASA INT LTD	Electricity storage device
WO 2020203879 A1	MURATA MANUFACTURING CO	Solid-state battery
WO 2020241506 A1	UBE INDUSTRIES	Non-aqueous electrolyte solution and power storage device using same
WO 2020240746 A1	DAICEL CORP	Slurry
WO 2020195381 A1	MURATA MANUFACTURING CO	Solid-state battery
WO 2020197208 A1	LG CHEMICAL LTD	Battery module and manufacturing method therefor
WO 2020202928 A1	MURATA MANUFACTURING CO	Solid state battery
WO 2020218213 A1	MURATA MANUFACTURING CO	Secondary battery

WO 2020230204 A1	SHOWA DENKO MAT CO LTD	Nickel zinc battery
WO 2020251143 A1	LG CHEMICAL LTD	Battery module and manufacturing method therefor
WO 2020194966 A1	SANYO ELECTRIC CO	Battery module
WO 2020214383 A1	BOSCH GMBH ROBERT	Battery module including insulating bus bar assemblies
WO 2020225126 A1	ADLER PELZER HOLDING GMBH	Damping element
WO 2020242219 A1	LG CHEMICAL LTD	Lithium secondary battery
WO 2020242247 A1	LG CHEMICAL LTD	Sulfur-carbon composite, lithium-sulfur battery positive electrode comprising same, and lithium-sulfur battery comprising positive electrode
WO 2020251134 A1	LG CHEMICAL LTD	Cylindrical secondary battery having multilayer-structured battery case, and method for manufacturing same
WO 2020251199 A1	LG CHEMICAL LTD	Sulfur-carbon composite, and cathode for lithium secondary battery and lithium secondary battery which comprise same
WO 2020197040 A1	LG CHEMICAL LTD	Bus bar module and manufacturing method therefor
WO 2020194684 A1	TOSHIBA KK	Battery module, battery pack, and vehicle
WO 2020226322 A1	LG CHEMICAL LTD	Method of manufacturing positive electrode for all-solid-state battery, and positive electrode for all-solid-state battery manufactured by using same
WO 2020202671 A1	SANYO ELECTRIC CO	Power supply device, electric vehicle and power storage device using same, fastening member for power supply device, method of manufacturing power supply device, and method of manufacturing fastening member for power supply device
WO 2020230396 A1	PANASONIC IP MAN CO LTD	Battery
WO 2020235261 A1	SANDEN AUTOMOTIVE CLIMATE SYSTEMS CORP	Vehicle air conditioner
WO 2020235262 A1	SANDEN AUTOMOTIVE CLIMATE SYSTEMS CORP	Vehicle air conditioner
WO 2020241438 A1	PANASONIC IP MAN CO LTD	Non-aqueous electrolyte secondary battery
WO 2020241838 A1	MURATA MANUFACTURING CO	Electrolytic solution and secondary battery
WO 2020226303 A1	LG CHEMICAL LTD	Battery cell for detecting danger
WO 2020239343 A1	BAYERISCHE MOTOREN WERKE AG	Storage module having a degassing line
WO 2020230980 A1	LG CHEMICAL LTD	Battery cell assembly, method of manufacturing same, and battery module including battery cell assembly
WO 2020234210 A1	VALEO SYSTEMES THERMIQUES	Battery equipped with a temperature regulation device using a dielectric fluid
WO 2020207444 A1	BYTON LTD	Vehicle isolation switch for low voltage power supplies
WO 2020230847 A1	MAZDA MOTOR	Lithium ion secondary battery
WO 2020242266 A1	LG CHEMICAL LTD	Positive electrode for lithium secondary battery, and lithium secondary battery including same
WO 2020225018 A1	EVONIK OPERATIONS GMBH	Lithium-ion battery separator coated with surface treated alumina
WO 2020235116 A1	TOSHIBA KK	Battery module, battery pack, and vehicle
WO 2020234750 A1	3M INNOVATIVE PROPERTIES CO	Thermal management system for battery cells
WO 2020235508 A1	TEIJIN LTD	Separator for non-aqueous secondary battery, method for producing same, and non-aqueous secondary battery
WO 2020243524 A1	ANDREW TITUS	Power connector condition monitoring
WO 2020251825 A1	ROGERS CORP	An intumescent battery pad
WO 2020226041 A1	TOSHIBA KK	Storage battery device
WO 2020227458 A1	TEIJIN LTD	Battery containment construct
WO 2020242021 A1	LG CHEMICAL LTD	Cathode additive, method of preparing same, cathode comprising same, and lithium secondary battery
WO 2020225393 A1	TESA SE	A lithium ion battery electrode assembly
WO 2020235065 A1	SHOWA DENKO MAT CO LTD	Battery member, method for manufacturing battery member, and secondary battery
WO 2020225356 A1	TWAICE TECH GMBH	Characterisation of lithium plating in rechargeable batteries
WO 2020231071 A1	LG CHEMICAL LTD	Battery module
WO 2020230528 A1	TOYOTA JIDOSHOKKI KK	Battery pack
WO 2020235908 A1	UNIV HANYANG IND UNIV COOP FOUND	Positive electrode for lithium-sulfur battery, method for producing same, and lithium-sulfur battery comprising same

WO 2020221856 A1	CROSSLINK GMBH	Pressure module, in particular for lithium-ion battery cells
WO 2020227285 A1	BAE SYS CONTROLS INC	Battery cell module
WO 2020235534 A1	DAINIPPON PRINTING CO LTD	Exterior material for power storage device, method for manufacturing same, power storage device, and polyamide film
WO 2020235916 A1	SAMSUNG SDI CO LTD	Secondary battery
WO 2020232131 A1	TERAWATT TECH INC	Cylindrical battery press system and method for compressing a cylindrical battery cell
WO 2020214389 A2	BOSCH GMBH ROBERT	Pressure management device for battery pack
WO 2020214388 A2	BOSCH GMBH ROBERT	Battery pack with thermal management system

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SUPERCONDENSADORES

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2020217730 A1	DKS CO LTD	Binder composition for electrode, coating composition for electrode, electrode for power storage device, and power storage device
WO 2020203085 A1	FUJIFILM CORP	Aluminum foil, method for manufacturing aluminum foil, current collector, lithium ion capacitor, and lithium ion battery
WO 2020245701 A1	SEMICONDUCTOR ENERGY LAB	Secondary cell, electronic device, and vehicle
WO 2020206209 A1	UNIV MICHIGAN REGENTS	Systems and methods for improved supercapacitors with ionic liquid electrolytes
WO 2020217731 A1	DKS CO LTD	Binder composition for electrode, coating composition for electrode, electrode for power storage device, and power storage device
WO 2020196710 A1	GS YUASA INT LTD	Current collector, paste for forming electroconductive layer, electrode, and power storage element
WO 2020246322 A1	OJI HOLDINGS CORP	Polypropylene film roll and metallized polypropylene film roll
WO 2020241242 A1	SEKISUI CHEMICAL CO LTD	Power storage device
WO 2020203101 A1	TOYOTA JIDOSHOKKI KK	Power storage module

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SISTEMAS DE RECUPERACIÓN DE ENERGÍA; FRENOS REGENERATIVOS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2020212162 A1	CONTINENTAL TEVES AG & CO OHG	Method for operating a vehicle brake system, and brake system
WO 2020217726 A1	DAIMLER AG	Regeneration control device
WO 2020199909 A1	LCB INT INC	Heavy truck fuel-saving robot device and control method
WO 2020227286 A1	AIKAR TECH INC	A vehicle braking method and system

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MÁQUINAS ELÉCTRICAS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2020207770 A1	RENAULT SAS	Device for cooling and lubricating an electric power train of an electric or hybrid motor vehicle
WO 2020207537 A1	SCHAEFFLER TECHNOLOGIES AG	Electric drive comprising heat exchanger section
WO 2020214231 A1	SCHAEFFLER TECHNOLOGIES AG	Electric camshaft phaser motor-generator
WO 2020203271 A1	DENSO CORP	Dynamo-electric machine
WO 2020216870 A1	VALEO EMBRAYAGES	Torque transmission system for a hybrid or electric vehicle
WO 2020208389 A1	NISSAN MOTOR	Method and device for controlling hybrid vehicle
WO 2020203273 A1	DENSO CORP	Dynamo-electric machine and method for manufacturing dynamo-electric machine
WO 2020218441 A1	DENSO CORP	Rotating electric machine
WO 2020217208 A1	TEXA DYNAMICS S R L	Electric motor
WO 2020250428 A1	NISSAN MOTOR	Electric device control method and electric device
WO 2020200715 A1	BAYERISCHE MOTOREN WERKE AG	Rotor shaft of an electric motor
WO 2020229228 A1	MAGNA PT BV & CO KG	Transmission unit and assembly of a transmission unit having a terminal block
WO 2020234117 A1	HELLA GMBH & CO KGAA	Electromechanical device with an actuator drive and an actuator
WO 2020241470 A1	HITACHI AUTOMOTIVE SYSTEMS LTD	Drive control device for hybrid vehicle and drive control method for hybrid vehicle
WO 2020233841 A1	THYSSENKRUPP STEEL EUROPE AG	Sheet metal for producing an electromagnetic component, in particular a stator core or a rotor core, and method for producing an electromagnetic component

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CONVERTIDORES, INVERSORES

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2020196123 A1	IHI CORP	Inverter integrated gas supply device
WO 2020195305 A1	PANASONIC IP MAN CO LTD	Power conversion device
WO 2020202655 A1	HITACHI LTD	Drive device for permanent-magnet synchronous machine, torque compensation method for permanent-magnet synchronous machine, and electric vehicle
WO 2020196122 A1	IHI CORP	Inverter integrated gas supply device
WO 2020200747 A1	ABB SCHWEIZ AG	Three-phase ac to dc power converter
WO 2020203624 A1	DENSO CORP	Power conversion device
WO 2020213534 A1	HITACHI LTD	Power converter
WO 2020202946 A1	NIDEC CORP	Inverter unit and motor unit
WO 2020217984 A1	DENSO CORP	Power conversion device
WO 2020243964 A1	SHENZHEN INST ADV TECH	Electrical energy bidirectional conversion apparatus, electric vehicle, and electric vehicle power supply system
WO 2020203996 A1	UNIV TOHOKU	Electricity storage system, new energy system, electricity distribution system, electricity transmission system, transportation equipment, battery system for electric vehicle, and battery system for uninterruptible power supply device
WO 2020200946 A1	BOSCH GMBH ROBERT	Electronic circuit module
WO 2020209058 A1	HITACHI AUTOMOTIVE SYSTEMS LTD	Vehicular control device
WO 2020217983 A1	DENSO CORP	Power conversion device
WO 2020205511 A1	TAE TECH INC	Module-based energy systems having converter-source modules and methods related thereto
WO 2020195141 A1	HITACHI AUTOMOTIVE SYSTEMS LTD	Power converter and method for manufacturing power converter
WO 2020194407 A1	HITACHI JOHNSON CONTROLS AIR CONDITIONING INC	Power conversion device and air conditioner
WO 2020195788 A1	DENSO CORP	Electromechanical unit
WO 2020217764 A1	HITACHI AUTOMOTIVE SYSTEMS LTD	Power conversion device, and electric vehicle system provided therewith
WO 2020191658 A1	HUAWEI TECH CO LTD	Wireless charging transmission apparatus, transmission method and wireless charging system
WO 2020242444 A1	HUAWEI TECH CO LTD	Integrated charger and motor control system comprising a transformer and multi-level power converters
WO 2020224917 A1	BAYERISCHE MOTOREN WERKE AG	Motor vehicle inverter assembly
WO 2020192931 A1	ABB SCHWEIZ AG	Inverter and associated operating method
WO 2020203453 A1	DENSO CORP	Control device
WO 2020246355 A1	SANDEN ADVANCED TECH CORPORATION	Power conversion device
WO 2020223830 A1	UNIV TALCA	Multilevel power converter circuit
WO 2020203456 A1	DENSO CORP	Control device
WO 2020225057 A1	BOSCH GMBH ROBERT	Starting circuit, actuation circuit, and method for supplying a voltage to a controller
WO 2020212278 A1	PRODRIVE TECH BV	Electrical converter
WO 2020250500 A1	SUMITOMO ELECTRIC INDUSTRIES	Power conversion device, vehicle including same, and control method
WO 2020246458 A1	JATCO LTD	Control unit
WO 2020234093 A1	SANDVIK MINING & CONSTRUCTION OY	Mining vehicle
WO 2020246360 A1	HITACHI CONSTRUCTION MACH CO	Power storage system and work machine
WO 2020203455 A1	DENSO CORP	Control device
WO 2020224951 A1	UNIV DER BUNDESWEHR MUENCHEN	A system and method for supplying ac driving voltages to a plurality of electric motors by using a modular energy storage direct converter system
WO 2020245170 A1	VITESCO TECH GMBH	Vehicle on-board electrical system having a dc voltage charging connection
WO 2020241181 A1	DENSO CORP	Power conversion device

WO 2020241214 A1	AUTONETWORKS TECHNOLOGIES LTD	Backup power supply device for vehicle
WO 2020226916 A1	WITRICITY CORP	Active harmonics cancellation
WO 2020230350 A1	TOYOTA MOTOR CO LTD	Device for monitoring degradation of power conversion device
WO 2020241215 A1	AUTONETWORKS TECHNOLOGIES LTD	Backup power supply device for vehicle
WO 2020235500 A1	KEIHIN CORP	Power conversion device and electric drive unit
WO 2020230894 A1	MITSUBISHI ELECTRIC CORP	Power conversion device
WO 2020230749 A1	NIDEC CORP	Inverter unit and motor unit
WO 2020233792 A1	HUAWEI TECH CO LTD	High efficiency converter and its control method
WO 2020241423 A1	MITSUBISHI ELECTRIC CORP	Power converter and method for manufacturing power converter
WO 2020230344 A1	TOSHIBA KK	Storage battery device

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RECARGA DE BATERÍAS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2020208655 A1	PANASONIC INDIA PVT LTD	Charging of electric vehicles using renewable energy
WO 2020200861 A1	ABB SCHWEIZ AG	Charging arrangement and method for charging an electrical vehicle
WO 2020208654 A1	PANASONIC INDIA PVT LTD	Electric vehicle charging management system and method
WO 2020207111 A1	GUANGZHOU AUTOMOBILE GROUP CO	Battery charging control method and apparatus, and electric vehicle
WO 2020218268 A1	SANDEN AUTOMOTIVE CLIMATE SYSTEMS CORP	Vehicle control system
WO 2020209084 A1	DENSO CORP	Power transmission device and power reception device
WO 2020223432 A1	JBT AEROTECH CORP	Airport electric vehicle charging system
WO 2020233788 A1	VOLVO TRUCK CORP	A method for controlling charging of electrically driven vehicles, a computer program, a computer readable medium, a control unit and a battery charging system
WO 2020234467 A1	ACOME	Fast charge device for an electric or hybrid vehicle
WO 2020204181 A1	YAZAKI CORP	Charging device booking system, communications terminal, and server device
WO 2020204180 A1	YAZAKI CORP	Charging device searching system, communication terminal, and server device
WO 2020244731 A1	ABB SCHWEIZ AG	Vehicle charging system
WO 2020233787 A1	VOLVO TRUCK CORP	A method for controlling charging of electrically driven vehicles, a computer program, a computer readable medium, a control unit and a battery charging system
WO 2020240607 A1	MITSUBISHI ELECTRIC CORP	Vehicle mounted charging device
WO 2020233741 A1	UNIV PADERBORN	Apparatus and method for charging an electric battery vehicle
WO 2020230482 A1	TSUBAKIMOTO CHAIN CO	Charge/discharge device, charge/discharge control method, and computer program

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CAMBIO DE BATERÍAS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2020192737 A1	AULTON NEW ENERGY AUTOMOTIVE TECH GROUP	Smart battery swapping method and system for battery swapping station
WO 2020224616 A1	AULTON NEW ENERGY AUTOMOTIVE TECH GROUP	Battery swapping equipment for electric vehicle and positioning method for battery swapping equipment
WO 2020203377 A1	PANASONIC IP MAN CO LTD	Battery management system and battery management method
WO 2020228731 A1	AULTON NEW ENERGY AUTOMOTIVE TECH GROUP	Unlocking method and system, and locking method and system for vehicle battery pack

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LANZAMIENTO



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



EJECUCIÓN



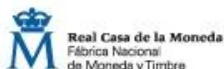
Los ITPs** de la OEPM detectaron solicitudes de patente relevantes cuando estábamos a mitad del proyecto y gracias a ello pudimos reconducir nuestra investigación.



CONCLUSIÓN



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



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