

Noticias

El Gobierno prepara el lanzamiento de un nuevo plan de incentivos para la compra de vehículos propulsados por energías alternativas (eléctricos, híbridos enchufables, híbridos y los movidos por Gas Natural Comprimido y Licuado (GNC y GNL) y los de Gas Licuado de Petróleo (GLP). Se conocerá como [Plan VEA](#) y se prevé para este mes de junio, con una dotación prevista de 16,6 millones de euros.

Un [estudio](#) reciente señala que la principal barrera para la adopción del vehículo eléctrico entre los españoles la constituye su precio. Así, aunque el 70% de los encuestados considera que será necesario en un futuro utilizar únicamente coches eléctricos o híbridos, un 65% declara que, a pesar de ser su opción preferente, el precio actual frena su posible adquisición.

La [matriculación de vehículos eléctricos](#) volvió a crecer durante el primer trimestre del año en curso, alcanzando un volumen de 2.697 unidades, lo que supone un 119% de lo alcanzado durante dicho período del año anterior. Por otro lado, las

matriculaciones de modelos híbridos registraron un incremento del 31,63% durante el primer cuarto del ejercicio actual, con un volumen de 16.748 unidades

Se prevé que [para 2022 uno de cada cuatro vehículos](#) que se vendan será eléctrico. Los principales obstáculos a superar para una mayor implantación del coche eléctrico son **la carencia de estaciones de recarga** por un lado, y por otro, **la capacidad de las baterías** de cara a la autonomía.

[SEAT](#) sacará para 2020 su primer modelo 100% eléctrico. El director de Investigación y Desarrollo de la firma, Matthias Rabe, ha confirmado que los planes de la marca pasan por lanzar un vehículo de tamaño similar al León, pero con propulsión 100% eléctrica, utilizando la plataforma MEB del Grupo Volkswagen.

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

[BOLETINES OEPM](#)

NIPO: 088-17-022-5

CONTENIDO:

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

- **INFRAESTRUCTURAS DE CARGA**
 - Recarga de baterías
 - Cambio de baterías

Solicitudes de Patente Publicadas

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

BATERÍAS

Nº PUBLICACIÓN	SOLICITANTE	Contenido técnico
WO 2018010863	BAYERISCHE MOTOREN WERKE AG	Method for determining the internal resistance of battery cells, battery module, and device
WO 2018015056	BOSCH GMBH ROBERT	Method for producing an electrode unit for a battery cell, and electrode unit
WO 2018022907	JOHNSON CONTROLS TECH CO; JANSEN MARCO	Cell assembly for a battery module
WO 2018026726	JOHNSON CONTROLS TECH CO	Weldable aluminum terminal pads of an electrochemical cell
WO 2018042361	EOCELL LTD	Volume change compensated silicon-silicon oxide-lithium composite material having nano silicon particles embedded in a silicon: silicon lithium silicate composite matrix, and cyclical ex-situ manufacturing processes
WO 2018043881	POSCO	Method for preparing lithium chloride and method for preparing lithium carbonate
WO 2018043882	POSCO	Method for preparing lithium chloride and method for preparing lithium carbonate
WO 2018045013	SEGAME TECH LLC	Vehicle thermal management system and heat exchangers
WO 2018045226	UNIV RICE WILLIAM M	Anodes, cathodes, and separators for batteries and methods to make and use same
WO 2018043907	LG CHEMICAL LTD	Pouch-type secondary battery and battery module comprising same
WO 2018007216	BAYERISCHE MOTOREN WERKE AG	Housing part of a battery cell or for a battery cell and method for applying a rupture element to a housing part of a battery cell
WO 2018020140	VALEO SYSTEMES THERMIQUES	Device for cooling batteries and associated production method
WO 2018041339	WACKER CHEMIE AG	Anodes of lithium ion batteries
WO 2018043515	SUMITOMO METAL MINING CO	Positive electrode active substance for non-aqueous electrolyte secondary battery and method for producing same, positive electrode mixture paste for non-aqueous electrolyte secondary battery, and non-aqueous electrolyte secondary battery
WO 2018043481	SEKISUI CHEMICAL CO LTD	Electrode material for electricity storage devices, electrode for electricity storage devices, and electricity storage device
WO 2018048159	SAMSUNG SDI CO LTD	Secondary battery
WO 2018047946	FUJIFILM CORP	Electrode layer material, sheet for all-solid-state secondary battery electrode, all-solid-state secondary battery, electrode sheet for all-solid-state secondary battery, and method for producing all-solid-state secondary battery
WO 2018048109	SAMSUNG SDI CO LTD	Secondary battery
WO 2018046767	IMERYS GRAPHITE & CARBON SWITZERLAND LTD	Compositions and their uses
WO 2018048277	LG CHEMICAL LTD	Secondary battery electrode manufacturing method and electrode manufactured thereby
WO 2018015057	BAYERISCHE MOTOREN WERKE AG	High-voltage battery system having a safety device
WO 2018033217	TOYOTA MOTOR EUROPE	Control device and method for charging a non-aqueous rechargeable metal-air battery
WO 2018043419	LITHIUM ENERGY & POWER GMBH & CO KG GS YUASA INT LTD	Layered electrode body and power storage element
WO 2018043484	TOAGOSEI CO LTD	Binder for nonaqueous electrolyte secondary battery electrodes and use of same

WO 2018044420	JOHNSON CONTROLS TECH CO	Battery module connector barrel
WO 2018043890	SAMSUNG SDI CO LTD	Secondary battery
WO 2018048160	SAMSUNG SDI CO LTD	Secondary battery
WO 2018048153	LG CHEMICAL LTD	Electrode coating device
WO 2018047540	DENSO CORP	Device temperature adjusting apparatus
WO 2018043369	GS YUASA INT LTD	Nonaqueous electrolyte power storage device
WO 2018043669	SUMITOMO METAL MINING CO	Positive electrode active material for nonaqueous electrolyte secondary batteries, method for producing same, and nonaqueous electrolyte secondary battery
WO 2018047752	PANASONIC IP MAN CO LTD	Power storage system
WO 2018047351	TOSHIBA KK; TOSHIBA INFRASTRUCTURE SYSTEMS & SOLUTIONS CORP	Vehicle
WO 2018048156	SAMSUNG SDI CO LTD	Cathode active material for lithium secondary battery, and lithium secondary battery comprising same
WO 2018047821	ZEON CORP	Binder composition for all-solid-state battery, slurry composition for all-solid-state battery, electrode for all-solid-state battery, and all-solid-state battery
WO 2018011140	CENTRE NATIONAL DE LA RECHERCHE SCIENT (CNRS) ACCUMULATEURS FIXES; UNIV DE PARIS EST CRETEIL VAL DE MARNE UPEC	Active material for a negative electrode of a nickel/metal hydride alkaline battery
WO 2018025143	TE CONNECTIVITY CORP	Power connector system
WO 2018044235	NAT UNIV SINGAPORE	A battery electrode binder
WO 2018043924	LG CHEMICAL LTD	Strap for battery module, battery module comprising same, and jig for compressing strap
WO 2018047530	DENSO CORP	Device temperature adjusting apparatus
WO 2018048085	LG CHEMICAL LTD	Positive electrode active material for lithium secondary battery, comprising lithium cobalt oxide for high voltage, and method for preparing same
WO 2018048148	SAMSUNG SDI CO LTD	Method for producing electrode tab having thickness difference, and secondary battery comprising same
WO 2018046385	BAYERISCHE MOTOREN WERKE AG	Porous silicon materials and conductive polymer binder electrodes
WO 2018046384	BAYERISCHE MOTOREN WERKE AG	Conductive polymer binder for a novel silicon/graphene anode in lithium ion batteries
WO 2018048128	LG CHEMICAL LTD	Apparatus and method for detecting failure of battery pack
WO 2018007078	JAGUAR LAND ROVER LTD	Battery cell arrangement
WO 2018007699	OMNINOV	Managing a charging station for charging electric automotive vehicle batteries in a parking lot
WO 2018019680	JAGUAR LAND ROVER LTD	Battery management apparatus and method
WO 2018029050	LINDE + WIEMANN SE & CO KG	Connection element for a battery box, and battery box and method for the production thereof
WO 2018043117	mitsubishi ALUMINIUM	Aluminum alloy hard thin foil for secondary battery positive electrode charge collector, secondary battery positive electrode charge collector, and production method for aluminum alloy hard thin foil
WO 2018042842	MURATA MANUFACTURING CO	Battery, battery pack, electronic apparatus, electric car, power storage device and power system
WO 2018044013	LG CHEMICAL LTD	Method for manufacturing electrode using current collector having penetration-type pores or holes formed thereon
WO 2018043889	SAMSUNG SDI CO LTD	Secondary battery
WO 2018047341	TOSHIBA KK	Vehicle

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WO 2018047499	MURATA MANUFACTURING CO	Electrolyte solution for secondary battery, secondary battery, battery pack, electric vehicle, power storage system, electric tool, and electronic device
WO 2018004250	LG CHEMICAL LTD	Positive electrode active material for lithium secondary battery, containing high-voltage lithium cobalt oxide having doping element, and method for preparing same
WO 2018012015	MITSUI MINING & SMELTING CO	Cathode active material for all-solid-state lithium secondary battery
WO 2018012385	GS YUASA INT LTD	Positive electrode active material for nonaqueous electrolyte secondary batteries, transition metal hydroxide precursor, method for producing transition metal hydroxide precursor, method for producing positive electrode active material for nonaqueous electrolyte secondary batteries, electrode for nonaqueous electrolyte secondary batteries, nonaqueous electrolyte secondary battery and electricity storage device
WO 2018011690	TE CONNECTIVITY CORP TYCO ELECTRONICS JAPAN G K	Connector assembly for a battery system
WO 2018021557	SUMITOMO METAL MINING CO	Nickel manganese composite hydroxide, production method for nickel manganese composite hydroxide, positive electrode active material for non-aqueous electrolyte secondary battery, production method for positive electrode active material for non-aqueous electrolyte secondary battery, and non-aqueous electrolyte secondary battery
WO 2018021856	SAMSUNG SDI CO LTD	Rechargeable battery
WO 2018020896	PANASONIC IP MAN CO LTD	Nonaqueous electrolyte secondary battery
WO 2018026850	JOHNSON CONTROLS TECH CO	Overcharge protection systems having dual spiral disk features for prismatic lithium ion battery cells
WO 2018030616	LG CHEMICAL LTD	Sulfur-carbon composite, preparation method therefor, and lithium-sulfur battery comprising same
WO 2018033880	SHAPE CORP	Battery support and protection structure for a vehicle
WO 2018039450	ALLIANCE SUSTAINABLE ENERGY	Long-life rechargeable ion batteries
WO 2018003446	BROTHER IND LTD TOHOKU TECHNO ARCH CO LTD	Method for manufacturing vanadium sulfate (iii) hydrate and method for manufacturing vanadium redox secondary battery
WO 2018003843	SANYO ELECTRIC CO	Secondary battery and method for manufacturing same
WO 2018008990	LG CHEMICAL LTD	Multistage fuse
WO 2018012788	SAMSUNG SDI CO LTD	Rechargeable battery
WO 2018016755	SAMSUNG SDI CO LTD	Battery pack
WO 2018016773	SAMSUNG SDI CO LTD	Secondary battery
WO 2018021590	LG ELECTRONICS INC	Cell lamination and thermocompression apparatus, and cell lamination and thermocompression method
WO 2018026797	NIO USA INC	Battery cell structural integration
WO 2018028518	BYD CO LTD	Electric vehicle energy management system, control method therefor, and electric vehicle
WO 2018034132	AUTONETWORKS TECHNOLOGIES LTD SUMITOMO WIRING SYSTEMS SUMITOMO ELECTRIC INDUSTRIES	Cooling member and power storage module provided with cooling member
WO 2018036764	BAYERISCHE MOTOREN WERKE AG	Cooling device for a battery assembly, and unit consisting of a battery assembly and a cooling device
WO 2018036965	HELLA GMBH & CO KGAA	Cell monitoring module for a battery cell monitoring unit, and battery cell monitoring unit
WO 2018036668	BAYERISCHE MOTOREN WERKE AG	Separator/current collector unit for galvanic cells
WO 2018003290	SANYO ELECTRIC CO	Battery block
WO 2018008262	KUREHA CORP	Binder composition, electrode mixture, electrode, non-aqueous electrolyte secondary battery, and binder composition production method
WO 2018012787	SAMSUNG SDI CO LTD	Secondary battery

WO 2018020906	HITACHI AUTOMOTIVE SYSTEMS LTD	Rectangular secondary battery
WO 2018021550	NEC ENERGY DEVICES LTD	Film pack battery and method for manufacturing same
WO 2018028299	NEXTEV LTD	Cooling system for pure electric vehicle and vehicle
WO 2018030686	LG CHEMICAL LTD	Cathode active material comprising polyimide, manufacturing method thereof, and lithium-sulfur battery comprising same
WO 2018003373	HITACHI HIGH-TECH FINE SYSTEMS CORP	Powder for separators, slurry for separators, lithium ion battery and method for manufacturing same
WO 2018012380	ZEON CORP	Binder composition for solid electrolyte batteries
WO 2018020973	AUTONETWORKS TECHNOLOGIES LTD SUMITOMO WIRING SYSTEMS SUMITOMO ELECTRIC INDUSTRIES	Wiring module for cell
WO 2018034130	AUTONETWORKS TECHNOLOGIES LTD SUMITOMO WIRING SYSTEMS SUMITOMO ELECTRIC INDUSTRIES	Power storage module
WO 2018032972	XIFENG 2D FUJIAN MATERIAL TECH COMPANY LTD	Manufacturing method of electrode material of nickel-hydrogen battery having long service-life
WO 2018034122	AUTONETWORKS TECHNOLOGIES LTD SUMITOMO WIRING SYSTEMS SUMITOMO ELECTRIC INDUSTRIES	Power storage module
WO 2018012721	SK INNOVATION CO LTD	Battery module
WO 2018012466	GS YUASA INT LTD BASF TODA BATTERY MAT LLC	Positive electrode active material for lithium secondary battery, method for producing same, and lithium secondary battery
WO 2018013255	NANOTEK INSTRUMENTS INC	Electrochemical method of producing graphene-based supercapacitor electrode from coke or coal
WO 2018021371	SANYO ELECTRIC CO	Production method for secondary battery
WO 2018030835	SAMSUNG SDI CO LTD UNIST ULSAN NATIONAL INSTITUTE OF SCIENCE AND TECH	Rechargeable battery
WO 2018034471	MPS KOREA CO LTD	Structure of battery pack for cylindrical battery
WO 2018034425	SAMSUNG SDI CO LTD	Rechargeable battery
WO 2018008866	LG CHEMICAL LTD	Battery module, battery pack comprising same, and vehicle
WO 2018016519	FUJIFILM CORP	Electrolyte solution for non-aqueous secondary battery, and non-aqueous secondary battery
WO 2018015210	HALDOR TOPSØE AS	A method for upscalable precipitation synthesis of battery materials with tunable particle size distribution
WO 2018034155	KURARAY CO	Carbonaceous material for negative pole active substance of nonaqueous electrolyte secondary battery, negative pole for nonaqueous electrolyte secondary battery, nonaqueous electrolyte secondary battery, and method for producing carbonaceous material
WO 2018003071	FUJITSU LTD	Positive electrode material for secondary batteries, method for producing same, and lithium ion secondary battery
WO 2018008478	CALSONIC KANSEI CORP	Assembled battery and power source device
WO 2018012728	SAMSUNG SDI CO LTD	Rechargeable battery
WO 2018016766	SAMSUNG SDI CO LTD	Rechargeable battery
WO 2018030150	HITACHI LTD	Solid electrolyte and all-solid cell
WO 2018030199	SUMITOMO METAL MINING CO	Positive electrode active material for nonaqueous electrolyte secondary batteries and method for producing positive electrode active material for nonaqueous electrolyte secondary batteries

WO 2018038164	TOKYO INST TECH	Sulfide solid electrolyte
WO 2018003291	SANYO ELECTRIC CO	Battery block
WO 2018003593	DAICEL CORP	Electric circuit breaker
WO 2018012384	GS YUASA INT LTD	Lithium-transition-metal composite oxide, transition metal hydroxide precursor, method for manufacturing transition metal hydroxide precursor, method for manufacturing lithium-transition-metal composite oxide, positive-electrode active material for nonaqueous-electrolyte secondary cell, electrode for nonaqueous-electrolyte secondary cell, nonaqueous-electrolyte secondary cell, and power storage device
WO 2018021503	FUJIFILM CORP	Solid electrolyte composition, all-solid-state secondary battery sheet, all-solid-state secondary battery, and production method for all-solid-state secondary battery sheet and all-solid-state secondary battery
WO 2018032408	SHENZHEN KLCLEAR TECH CO LTD	Power battery box having battery management system
WO 2018038501	SAMSUNG SDI CO LTD	Composite cathode active material for lithium ion battery, manufacturing method therefor, and lithium ion battery containing cathode comprising same
WO 2018037261	PISMO LABS TECHNOLOGY LTD	Methods and systems for distributing electricity to multiple loads based on a scheduler and ammeter measurements
WO 2018003333	MITSUI MINING & SMELTING CO	Sulfide-based solid electrolyte for lithium secondary battery
WO 2018003929	UBE INDUSTRIES	Lithium titanate powder and active material for power storage device electrode, and electrode sheet and power storage device using same
WO 2018004159	SAMSUNG SDI CO LTD	Secondary battery
WO 2018009002	SAMSUNG SDI CO LTD	Battery submodule carrier, battery submodule, battery system and vehicle
WO 2018016866	INDUSTRY-UNIV COOPERATION FOUNDATION HANYANG UNIV	Method for producing lithium secondary battery thick film and method for producing lithium secondary battery, by using electrostatic slurry spraying of slurry containing sulfide-based solid electrolyte
WO 2018026105	SAMSUNG SDI CO LTD	Secondary battery
WO 2018029745	TORAY INDUSTRIES	Lithium manganese phosphate nanoparticles and method for producing same, carbon-coated lithium manganese phosphate nanoparticles, carbon-coated lithium manganese phosphate nanoparticle granule, and lithium ion battery
WO 2018030131	AUTONETWORKS TECHNOLOGIES LTD SUMITOMO WIRING SYSTEMS SUMITOMO ELECTRIC INDUSTRIES	Wiring module
WO 2018031689	UNIV LELAND STANFORD JUNIOR RUGOLO JASON	Near ambient temperature, high potential secondary battery with liquid electrode materials separated by a solid electrolyte
WO 2018038383	LG CHEMICAL LTD	Device and method for testing performance of battery cell
WO 2018000099	HYDRO-QUÉBEC SONY CORP	Carbon-coated active particles and processes for their preparation
WO 2018012376	PANASONIC CORP	Lithium secondary battery
WO 2018016747	SAMSUNG SDI CO LTD	Rechargeable battery
WO 2018016525	UMICORE NV CS ENERGY MAT LTD	Lithium metal composite oxide powder
WO 2018020990	NIPPON ELECTRIC GLASS CO	Solid electrolyte powder, and electrode composite material and all-solid sodium ion secondary battery formed using same
WO 2018020667	TOSHIBA KK TOSHIBA INFRASTRUCTURE SYSTEMS & SOLUTIONS CORP	Nonaqueous electrolyte battery and battery pack
WO 2018020139	VALEO SYSTEMES THERMIQUES	Heat exchanger, particularly for the thermal regulation of an energy-reserve unit, and assembly formed of said exchanger and of said unit
WO 2018038348	LG CHEMICAL LTD	Battery management system

WO 2018038037	OSAKA PREFECTURE UNIV PUBLIC CORPORATION	Composite positive electrode active material for all-solid-state secondary battery, method for manufacturing same, positive electrode, and all-solid-state secondary battery
WO 2018037260	PISMO LABS TECHNOLOGY LTD	Methods and systems for supplying electricity to multiple loads with current measurements
WO 2018000944	BYD CO LTD	Electric mining dump truck
WO 2018008248	MURATA MANUFACTURING CO	Battery, battery pack, electronic apparatus, electric vehicle, power storage device and power system
WO 2018008532	CALSONIC KANSEI CORP	Cell holder and battery pack
WO 2018008799	LG CHEMICAL LTD	Cartridge for secondary battery and battery module comprising same
WO 2018021556	SUMITOMO METAL MINING CO	Nickel manganese composite hydroxide, production method for nickel manganese composite hydroxide, positive electrode active material for non-aqueous electrolyte secondary battery, production method for positive electrode active material for non-aqueous electrolyte secondary battery, and non-aqueous electrolyte secondary battery
WO 2018030704	LG CHEMICAL LTD	Temperature monitoring apparatus and method for battery pack
WO 2018003833	DOWA ELECTRONICS MATERIALS CO	Solution, method for producing same, and method for producing secondary battery active substance
WO 2018016298	TOSHIBA KK	Earth leakage detecting device and earth leakage detecting method
WO 2018016091	SHINDENGEN ELECTRIC MFG	Vehicle power supply apparatus, vehicle power supply system, and method for controlling vehicle power supply apparatus
WO 2018021555	SUMITOMO METAL MINING CO	Nickel manganese composite hydroxide, production method for nickel manganese composite hydroxide, positive electrode active material for non-aqueous electrolyte secondary battery, production method for positive electrode active material for non-aqueous electrolyte secondary battery, and non-aqueous electrolyte secondary battery
WO 2018030810	LG CHEMICAL LTD	Electrode assembly in which electrode and separation film are partially bonded
WO 2018038448	SAMSUNG SDI CO LTD	Electrode assembly, and secondary battery comprising same
WO 2018003979	UBE INDUSTRIES	Separator and power storage device
WO 2018008951	LG CHEMICAL LTD	Secondary battery
WO 2018021698	SAMSUNG SDI CO LTD	Rechargeable battery
WO 2018036954	HALDOR TOPSØE AS	Cathode active material for high voltage secondary battery
WO 2018000101	HYDRO-QUÉBEC SONY CORP	Electrode materials and processes for their preparation
WO 2018021589	LG ELECTRONICS INC	Method for producing secondary battery
WO 2018009003	SAMSUNG SDI CO LTD	Battery module carrier, battery module, and vehicle with a battery system
WO 2018014137	HYDRO-QUÉBEC TRANSFERT PLUS S E C	Flexible electrode-separator elements, and method for manufacturing same
WO 2018008953	LG CHEMICAL LTD	Negative electrode for secondary battery
WO 2018008806	PLASMAPP CO LTD	Separation film processing method for secondary battery using atmospheric pressure dielectric barrier discharge plasma
WO 2018021372	SANYO ELECTRIC CO	Secondary battery
WO 2018025276	MAHINDRA & MAHINDRA LTD	Estimation of soc of a lead-acid battery
WO 2018012709	SAMSUNG SDI CO LTD	Secondary battery
WO 2018012694	LG CHEMICAL LTD	Lithium secondary battery having lithium metal formed on cathode and manufacturing method therefor
WO 2018025516	DENSO CORP	Air-conditioning control device and air-conditioning control method
WO 2018038662	SCANIA CV AB	A cooling system for an electric power unit in a vehicle
WO 2018009122	SCANIA CV AB	A cooling system in a hybrid vehicle
WO 2018009796	UNIV CALIFORNIA	Nickel nanostructure electrode and method
WO 2018008954	LG CHEMICAL LTD	Positive electrode and secondary battery including same positive electrode

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SUPERCONDENSADORES

Nº PUBLICACIÓN	SOLICITANTE	Contenido técnico
WO 2018052998	JOHNSON CONTROLS TECH CO	Isolation barrier fault detection circuit
WO 2018047258	HITACHI CHEMICAL CO LTD	Simulation method and simulation device
WO 2018052526	JOHNSON CONTROLS TECH CO	Systems and methods for measuring isolation resistance
WO 2018021417	KYOCERA CORP	Film capacitor, connected-type capacitor, inverter, and electric vehicle
WO 2018016089	SHINDENGEN ELECTRIC MFG	Vehicle power supply device, vehicle power supply system, and method for controlling vehicle power supply device
WO 2018041970	VALEO SIEMENS EAUTOMOTIVE GERMANY GMBH	Circuit arrangement, in particular for an electrically driven motor vehicle

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SISTEMAS DE RECUPERACIÓN DE ENERGÍA; FRENOS REGENERATIVOS

Nº PUBLICACIÓN	SOLICITANTE	Contenido técnico
WO 2018047270	HITACHI CONSTRUCTION MACH CO	Regenerative braking device and dump truck
WO 2018047333	SHINDENGEN ELECTRIC MFG	Control device
WO 2018043168	ADVICS CO LTD	Vehicle brake device
WO 2018047487	ADVICS CO LTD TOYOTA MOTOR CO LTD	Vehicle braking device
WO 2018030083	ADVICS CO LTD TOYOTA MOTOR CO LTD	Vehicle brake device
WO 2018008560	TOSHIBA KK TOSHIBA INFRASTRUCTURE SYSTEMS & SOLUTIONS CORP	Train control device, method, and program
WO 2018038062	DENSO CORP	Stop control system
WO 2018011816	NAULI MANJUNATH MALLESH	Systems and processes for use on moving transport systems based on deceleration / accelerator status and the principle of energy conservation, for minimizing energy wastage in locomotives, automotives and lifts, using a dual use vane system
WO 2018032046	TRANSCOM R&D PTY LTD	A modular electric wheel assembly for an electric vehicle

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MÁQUINAS ELÉCTRICAS

Nº PUBLICACIÓN	SOLICITANTE	Contenido técnico
WO 2018019970	GROB-WERKE GMBH & CO KG	Method and device for inserting wires
WO 2018028912	MAGNA POWERTRAIN GMBH & CO KG	Electrical machine
WO 2018047866	DENSO CORP	Control device for rotary electric machine
WO 2018047128	TVS MOTOR CO LTD	A hybrid vehicle
WO 2018050599	MAGNA POWERTRAIN GMBH & CO KG	Method for improving the driving dynamics of a vehicle and drive device suitable for performing the method
WO 2018014908	SCHAEFFLER TECHNOLOGIES AG	Electrical machine with a laminated core which is fixed on both sides and multiple clutch comprising an electrical machine of this kind
WO 2018041836	GROB GMBH & CO KG	Method for producing and inserting a wire winding
WO 2018006109	TECHNISCHE UNIVERSITÄT WIEN	Electrical machine system
WO 2018024295	ZIEHL ABEGG AUTOMOTIVE GMBH & CO KG	Wheel hub drive
WO 2018041361	BAYERISCHE MOTOREN WERKE AG	Transportation means, assembly and method for adapting an acoustic arrangement of transportation means
WO 2018024573	SIEMENS AG	Electric machine having partial windings and reluctance torque
WO 2018009987	ALMOTT LTD	Electrical machine with claw poles
WO 2018029720	HYBRID4KIT S R L S	Kit for electrically supplying a vehicle
WO 2018016267	NTN TOYO BEARING CO LTD	Lubricating oil supply structure
WO 2018016087	SHINDENGEN ELECTRIC MFG	Hybrid vehicle power supply apparatus, hybrid vehicle power supply system, and method for controlling hybrid vehicle power supply apparatus
WO 2018030217	DENSO CORP	Failure detection device of rotating electrical machine
WO 2018016085	SHINDENGEN ELECTRIC MFG	Control apparatus and control method for hybrid vehicle
WO 2018030611	HANON SYSTEMS	Bldc motor
WO 2018002458	RENAULT SAS NISSAN MOTOR	Method and device for controlling the power available on an electric traction chain of a hybrid powertrain
WO 2018025141	TE CONNECTIVITY CORP	Power terminal for an electrical connector
WO 2018030344	NIDEC CORP	Motor unit
WO 2018001621	ZAHNRADFABRIK FRIEDRICHSHAFEN	Hybrid drive module for a motor vehicle drive train, and motor vehicle drive train
WO 2018003461	HITACHI AUTOMOTIVE SYSTEMS LTD	Dynamo-electric machine
WO 2018003436	HITACHI AUTOMOTIVE SYSTEMS LTD	Stator for dynamo-electric machine
WO 2018032003	HARVARD COLLEGE	Aqueous redox flow battery electrolytes with high chemical and electrochemical stability, high water solubility, low membrane permeability
WO 2018037814	NTN TOYO BEARING CO LTD	In-wheel motor drive device for steered wheel
WO 2018037239	THE UNIV OF BIRMINGHAM	Method for facilitating separation of nd from ndfeb magnets
WO 2018016086	SHINDENGEN ELECTRIC MFG	Control apparatus and control method for hybrid vehicle
WO 2018030219	NIDEC CORP	Motor
WO 2018038170	NDFEB CORP	Rare earth sintered magnet and manufacturing method therefor
WO 2018030187	HITACHI METALS LTD	Method of producing r-t-b sintered magnet
WO 2018038261	TOSHIBA KK TOSHIBA INFRASTRUCTURE SYSTEMS & SOLUTIONS CORP	Vehicle system
WO 2018004003	HONDA MOTOR CO LTD	Drive device
WO 2018011637	HITACHI AUTOMOTIVE SYSTEMS LTD	Stator for rotating electrical machine and rotating electrical machine

WO 2018021760	HAN JUNG HOON	Power generation device for charging electric vehicle and emergency rescue vehicle including same
WO 2018039513	DEERE & CO	Systems and methods for reducing dc link voltage dynamics with limited energy storage element
WO 2018025941	NIPPON STEEL & SUMITOMO METAL CORP	Non-oriented electromagnetic steel sheet, production method for non-oriented electromagnetic steel sheet, and production method for motor core
WO 2018026698	CUMMINS INC	Control of engine-integrated electric machine

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CONVERTIDORES, INVERSORES

Nº PUBLICACIÓN	SOLICITANTE	Contenido técnico
WO 2018033456	BOSCH GMBH ROBERT	Dc-dc voltage converter and method for regulating a dc-dc voltage converter
WO 2018042919	NISSAN MOTOR TOKAIKOGYO CO LTD	Bus bar unit
WO 2018042895	HITACHI AUTOMOTIVE SYSTEMS LTD	Control method and control device for rotary electric motor, and rotary electric motor drive system
WO 2018047551	FUJI ELECTRIC CO LTD	Semiconductor device manufacturing method and semiconductor device
WO 2018047534	DENSO CORP	Instrument temperature adjustment device
WO 2018028988	SIEMENS AG	Bus bar system for a power converter
WO 2018050732	VALEO SIEMENS EAUTOMOTIVE GERMANY GMBH	Method for operating a current converter and current converter operating according to said method
WO 2018042896	HITACHI AUTOMOTIVE SYSTEMS LTD	Power conversion device
WO 2018047750	AUTONETWORKS TECHNOLOGIES LTD SUMITOMO WIRING SYSTEMS SUMITOMO ELECTRIC INDUSTRIES	Step-down conversion circuit
WO 2018043535	ROHM CO LTD	Power module, power module with drive circuit, industrial equipment, electric automobile and hybrid car
WO 2018029435	CARROLL & MEYNELL TRANSF LIMITED WARNAKULASURIYA KAPILA GURWICZ DAVID	Dc power supply
WO 2018025777	CALSONIC KANSEI CORP	Power module
WO 2018036355	BYD CO LTD	Intelligent power module, motor controller, and vehicle
WO 2018036766	BOSCH GMBH ROBERT	Control device for an electrical machine, electrical drive system, and method for controlling an electrical machine
WO 2018008371	HITACHI AUTOMOTIVE SYSTEMS LTD	Power conversion device
WO 2018008333	HITACHI AUTOMOTIVE SYSTEMS LTD	Inverter driving device
WO 2018025571	MITSUBISHI ELECTRIC CORP	Power semiconductor device
WO 2018037720	HITACHI AUTOMOTIVE SYSTEMS LTD	Power conversion device
WO 2018030830	GREEN POWER CO LTD	Wired and wireless charging device for electric vehicle
WO 2018026229	LG INNOTEK CO LTD	Electronic component package
WO 2018036354	BYD CO LTD	Intelligent power module, motor controller, and vehicle

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Nº PUBLICACIÓN	SOLICITANTE	Contenido técnico
WO 2018002082	CONTINENTAL AUTOMOTIVE GMBH	Method and device for triggering an emergency shutdown of the inductive charging of a motor vehicle
WO 2018010881	BOSCH GMBH ROBERT	Method for operating a charging apparatus for inductive energy transfer
WO 2018029114	TECHNISCHE HOCHSCHULE INGOLSTADT	System and method for inductive energy transmission
WO 2018044199	LLC SMARTER SHVED ANDREJ ALEKSANDROVICH	Device for storing electrical energy
WO 2018048082	SAMSUNG SDI CO LTD	Battery pack
WO 2018050505	BOSCH GMBH ROBERT	Method for operating a battery cell
WO 2018007051	BAYERISCHE MOTOREN WERKE AG	Method for controlling the electric charging process of a group of vehicles in the event of a power reduction
WO 2018010948	CONTINENTAL AUTOMOTIVE GMBH	Vehicle electrical systems, charging system, charging station, and method for transmitting electrical energy
WO 2018024537	BAYERISCHE MOTOREN WERKE AG	Charging system and method for charging electric vehicles
WO 2018033298	AUDI AG	Energy storage device for a motor vehicle, and motor vehicle
WO 2018034990	CRYNAMT MAN LLC	Wireless charging alignment systems
WO 2018041487	BAYERISCHE MOTOREN WERKE AG	Method for testing a balanced circuit
WO 2018042005	LABORELEC CVBA	Intelligent energy charging system
WO 2018044336	JOHNSON CONTROLS TECH CO	Bi-stable relay
WO 2018048256	CHARGEIN CO LTD	Electric vehicle-charging smart socket and charging method utilizing same
WO 2018050440	BAYERISCHE MOTOREN WERKE AG	Method for charging a battery-operated vehicle
WO 2018001934	BOMBARDIER PRIMOVE GMBH	Cable bearing arrangement and method of installing a cable bearing arrangement
WO 2018009448	CRYNAMT MAN LLC	Battery preconditioning for charging
WO 2018009798	CARRIER CORP	High voltage system for a transport refrigeration unit
WO 2018028829	GIESECKE+DEVRIENT MOBILE SECURITY GMBH	Secure traction battery
WO 2018045243	MANIKTALA SANJAYA	Segmented and longitudinal receiver coil arrangements for wireless power transfer
WO 2018046354	BAYERISCHE MOTOREN WERKE AG	Charging system and method for controlling optimum charging processes
WO 2018006903	HARTING AUTOMOTIVE GMBH	Liquid-cooled contact element
WO 2018010920	BOSCH GMBH ROBERT	Transmission system for contactlessly transmitting energy
WO 2018052626	QUALCOMM INC	Hybrid foreign object detection (fod) loop array board
WO 2018052628	QUALCOMM INC	Variable capacitor series tuning configuration
WO 2018010882	BOSCH GMBH ROBERT	Method for operating a security device
WO 2018046236	BAYERISCHE MOTOREN WERKE AG	Hybrid vehicle with inductive charging device
WO 2018046199	AUDI AG	Charging station, motor vehicle and method for inductive charging of a battery of a motor vehicle
WO 2018019510	AUDI AG	Arrangement consisting of a motor vehicle and a connecting means, motor vehicle and connecting means
WO 2018033377	CONTINENTAL AUTOMOTIVE GMBH	Vehicle electrical system for inductively charging an electric vehicle and method
WO 2018047725	AUTONETWORKS TECHNOLOGIES LTD SUMITOMO WIRING SYSTEMS SUMITOMO ELECTRIC INDUSTRIES	Detection circuit and power storage pack

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WO 2018015024	SEW-EURODRIVE GMBH & CO KG	System for inductive energy transmission to a vehicle movably arranged on a movement surface, in particular a movement plane
WO 2018044372	TEN D ENERGIES INC	Energy management system
WO 2018011483	RENAULT SAS	Method for controlling the members of a hybrid transmission for automotive vehicle
WO 2018033334	BAYERISCHE MOTOREN WERKE AG	Method for controlling electrical charging of a group of vehicles
WO 2018021664	LG CHEMICAL LTD	Battery balancing device and method
WO 2018004205	MAROO ON INC	Battery charging system comprising calculation unit
WO 2018038924	QUALCOMM INC	Multi-coil base pad with angled structure
WO 2018038950	MICROSOFT TECHNOLOGY LICENSING LLC	Charging optimization
WO 2018011124	BOSCH GMBH ROBERT	Method for operating a monitoring device of an inductive energy transmission unit
WO 2018033376	CONTINENTAL AUTOMOTIVE GMBH	On-board vehicle electrical system, motor vehicle and method
WO 2018001337	BYD CO LTD	Hybrid vehicle and mobile power station therefor
WO 2018021032	DENSO CORP	Control system
WO 2018026495	SOLARCITY CORP	Energy generation and storage system with electric vehicle charging capability
WO 2018023063	WITRICITY CORP	Relative position determination and vehicle guidance in wireless power transfer systems
WO 2018024318	BAYERISCHE MOTOREN WERKE AG	A method for providing an inductive-charging device into an existing driving-road, a respective inductive-charging device, a respective inductive-charging system and a respective automobile
WO 2018007295	BOMBARDIER PRIMOVE GMBH	Manufacturing an arrangement for transferring energy from a primary unit conductor arrangement by a magnetic or an electromagnetic field to a secondary unit conductor arrangement
WO 2018019148	BYD CO LTD	Electric car, multi-functional in-vehicle charger of electric car, and control method for same
WO 2018037776	HITACHI LTD	Battery control system
WO 2018019147	BYD CO LTD	Electric car, in-vehicle charger of electric car, and control method for same
WO 2018008919	LG ELECTRONICS INC	Wireless power transmission apparatus and method therefor
WO 2018016231	MURATA MANUFACTURING CO	Cell device, electronic device, electrically driven vehicle, storage system, and control method
WO 2018003334	PANASONIC IP MAN CO LTD	Charging control device, charging control program, and storage medium
WO 2018038706	CASTILLO HERNANDEZ JOHN	Self charging electric motor

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NO SE HAN RECUPERADO REFERENCIAS RELEVANTES EN EL PERIODO		

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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



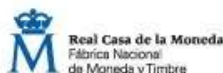
Los ITPs** de la OEPM detectaron solicitudes de patente relevantes cuando estábamos a mitad del proyecto y gracias a ello pudimos reconducir nuestra investigación.



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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