

Noticias

Aunque debería estar activo desde el 1 de Enero, el nuevo [Plan MOVEA 2017](#) se pospone hasta después del verano. La razón es el retraso en la aprobación de los presupuestos generales del estado. En los presupuestos que ha presentado Cristóbal Montoro en el Congreso hablan de una partida de 50 millones de euros para incentivar la compra de coches eficientes. De este montante, 16 millones irán destinados al Plan MOVEA.

La [venta de vehículos híbridos y eléctricos](#) ha crecido en la Comunidad de Madrid un 90% de noviembre a febrero. Esta subida es muy superior a la media nacional, y se debe en buena medida a la llegada a la capital de una nueva flota de coches de alquiler con motor eléctrico.

[SEAT](#) se une a los fabricantes de automoción que apuestan por la movilidad eléctrica: el primer vehículo de la marca está previsto para el 2019. En palabras del presidente de SEAT, Luca de Meo, esto supondrá un punto de inflexión para la compañía en su apuesta por la electromovilidad.

La Granja (Segovia) se dispone a estrenar en los próximos meses la primera [“electrolinera verde”](#) de gran capacidad. Con ocho surtidores se podrá cargar en corriente continua rápida a una potencia de treinta kilovatios por hora, lo que garantiza que en veinte minutos la batería recupere el ochenta por ciento de la carga. La instalación incorporará 90 módulos solares y permitirá cargar hasta veinte vehículos simultáneamente.

Durante los próximos días 5, 6 y 7 de mayo se celebrará en Madrid la tercera edición del [VEM](#) (Vehículos Eléctricos Madrid) en la Plaza de Colón, donde aquellos ciudadanos que lo deseen podrán conducir toda clase de vehículos eléctricos de 2 y 4 ruedas para que los puedan probar en un entorno urbano.

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

[BOLETINES OEPM](#)

NIPO: 073-15-016-6

CONTENIDO:

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

- **INFRAESTRUCTURAS DE CARGA**
 - [Recarga de baterías](#)
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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 2017052246	LG CHEMICAL LTD	Cathode active material and cathode comprising metal nano particles, and lithium-sulfur battery comprising same
WO 2017052194	LG CHEMICAL LTD	Battery module including array of cooling fins having different thicknesses
WO 2017051521	PANASONIC IP MAN CO LTD	Temperature conditioning unit, temperature conditioning system, and vehicle
WO 2017042505	VALEO SYSTEMES THERMIQUES	Storage heat exchange bundle for a thermal energy storage battery comprising tubes
WO 2017052051	LG CHEMICAL LTD	Battery module, battery pack comprising battery module, and vehicle comprising battery pack
WO 2017055323	KARLSRUHER INST FÜR TECH	Electrically conductive base material and layer composite, method for producing the same, and use of the same
WO 2017042017	JAGUAR LAND ROVER LTD	Battery monitoring system for lead-acid battery based on molality of acid
WO 2017050945	COMMISSARIAT ENERGIE ATOMIQUE	Method for estimating an indicator of the state of health of a lithium battery and associated estimating device
WO 2017001119	BOSCH GMBH ROBERT	Holding-down means for fixing battery cells in a battery submodule, and battery submodule
WO 2017043236	HITACHI AUTOMOTIVE SYSTEMS LTD	Storage battery control device
WO 2017043178	SONY CORP	Secondary battery
WO 2017047640	OSAKA SODA CO LTD	Positive electrode material for nonaqueous electrolyte secondary battery
WO 2017047738	AUTONETWORKS TECHNOLOGIES LTD SUMITOMO WIRING SYSTEMS SUMITOMO ELECTRIC INDUSTRIES	Terminal-equipped electrical wire and wiring module
WO 2017048203	HEKSAGON MUHENDISLIK VE TASARIM ANONIM SIRKETI	A battery pack and placement system
WO 2017005559	BAYERISCHE MOTOREN WERKE AG	Cooling circuit, method for air-conditioning a vehicle, and vehicle
WO 2017021019	VOLKSWAGEN AG	Traction battery with battery cell modules
WO 2017037981	PANASONIC IP MAN CO LTD	Nonaqueous electrolyte secondary battery
WO 2017043023	SONY CORP	Battery, battery can, battery pack, electronic device, electric vehicle, electricity storage device and electric power system
WO 2017043221	DENSO CORP	Battery pack
WO 2017045813	LITHIUM ENERGY AND POWER GMBH & CO KG	Electrochemical energy storage device
WO 2017045877	VOLKSWAGEN AG	Battery housing with incorporated cooling
WO 2017037984	PANASONIC IP MAN CO LTD	Gas sensor and fuel cell vehicle
WO 2017043239	HITACHI AUTOMOTIVE SYSTEMS LTD	Storage battery control device
WO 2017045945	BOSCH GMBH ROBERT	Active material for a positive electrode of a battery cell, positive electrode and battery cell
WO 2017046545	RENAULT SAS	Cable or hose reel device
WO 2017045815	LITHIUM ENERGY AND POWER GMBH & CO KG	Energy storage device and energy storage device production method

WO 2017047046	PANASONIC IP MAN CO LTD	Temperature conditioning unit, temperature conditioning system, and vehicle
WO 2017047211	KK TOYOTA JIDOSHOKKI	Battery pack and battery module
WO 2017035749	NINGDE AMPEREX TECHNOLOGY LTD	Secondary battery cell and winding formation system thereof
WO 2017039419	LG CHEMICAL LTD	Cable-type secondary battery
WO 2017047030	SHIN-ETSU CHEMICAL CO LTD	Method for producing negative electrode active material for nonaqueous electrolyte secondary batteries and method for manufacturing nonaqueous electrolyte secondary battery
WO 2017047554	UBE INDUSTRIES	Nonaqueous electrolyte solution for electricity storage devices and electricity storage device using same
WO 2017047790	LITHIUM ENERGY AND POWER GMBH & CO KG GS YUASA INT LTD	Electricity storage element and method for manufacturing electricity storage element
WO 2017005921	IMERYS GRAPHITE & CARBON SWITZERLAND LTD	High-conductive carbon black with low viscosity
WO 2017025234	BAYERISCHE MOTOREN WERKE AG	Cooling device for stored energy sources
WO 2017042956	KK TOSHIBA	Negative electrode active material and manufacturing method therefor, nonaqueous electrolyte battery, and battery pack
WO 2017043142	HITACHI LTD	Power storage system, secondary battery control system, and secondary battery control method
WO 2017045941	BOSCH GMBH ROBERT	Active material for a positive electrode of a battery cell, positive electrode and battery cell
WO 2017047639	OSAKA SODA CO LTD	Positive electrode material for nonaqueous electrolyte secondary battery
WO 2017048020	LG CHEMICAL LTD	Battery pack
WO 2017043889	LG CHEMICAL LTD	Battery module having improved cooling performance
WO 2017045781	BOSCH GMBH ROBERT	Cover element of a battery module housing, battery module having such a cover element and method for the production thereof, and battery
WO 2017045943	BOSCH GMBH ROBERT	Active material for a positive electrode of a battery cell, positive electrode and battery cell
WO 2017047998	LG CHEMICAL LTD	Cathode for lithium-sulfur battery, manufacturing method therefor, and lithium-sulfur battery containing same
WO 2017001118	BOSCH GMBH ROBERT	Silicon monolith-graphite anode for a lithium cell
WO 2017001120	BOSCH GMBH ROBERT	Battery sub-module and battery system
WO 2017025398	BOSCH GMBH ROBERT	Method for determining a pressure inside a housing of a battery cell, and battery cell
WO 2017043379	ZEON CORP	Binder composition for all-solid-state battery
WO 2017043017	PANASONIC IP MAN CO LTD	Non-aqueous electrolyte secondary battery
WO 2017045775	LITHIUM ENERGY AND POWER GMBH & CO KG	Energy storage device
WO 2017047205	DENSO CORP	Battery pack
WO 2017047755	UBE INDUSTRIES	Fibrous carbon-containing lithium-titanium composite oxide powder, electrode sheet using same, and power storage device using same
WO 2017047789	LITHIUM ENERGY AND POWER GMBH & CO KG GS YUASA INT LTD	Electricity storage element and method for manufacturing electricity storage element
WO 2017012850	VOLKSWAGEN AG	Battery arrangement in an electrically operated vehicle
WO 2017030312	LG CHEMICAL LTD	Cell lead connection device, and battery module comprising same
WO 2017033497	HITACHI CHEMICAL CO LTD	Lead storage-battery separator, lead storage-battery, and method for producing same
WO 2017034351	LG CHEMICAL LTD	Negative electrode for secondary battery, and secondary battery comprising same
WO 2017016759	IFP ENERGIES NOW	Method and system for controlling a hybrid propulsion system, optimising fuel consumption and polluting emissions
WO 2017030290	LG CHEMICAL LTD	Battery module, battery pack including battery module, and automobile including battery pack

WO 2017032571	BOSCH GMBH ROBERT	Battery pack
WO 2017034000	SUMITOMO METAL MINING CO	Positive electrode active material for non-aqueous electrolyte secondary cell and method for manufacturing said material, and non-aqueous electrolyte secondary cell
WO 2017039398	LG CHEMICAL LTD	Cable-type secondary battery and method for producing same
WO 2017009734	GIGA AMPS UK LTD BACON BRIAN	Electrical storage batteries
WO 2017012865	BOSCH GMBH ROBERT	Cell unit, and method for determining a current flowing through a cell unit
WO 2017033894	SUMITOMO METAL MINING CO	Nonaqueous electrolyte secondary battery positive electrode active material and method for manufacturing same, and nonaqueous electrolyte secondary battery
WO 2017034001	SUMITOMO METAL MINING CO	Positive electrode active material for nonaqueous electrolyte secondary cell, method for manufacturing same, and nonaqueous electrolyte secondary cell
WO 2017034656	ZHAMU ARUNA JANG BOR Z NANOTEK INSTRUMENTS INC	Rechargeable lithium batteries having an ultra-high volumetric energy density and required production process
WO 2017038615	DAINIPPON INK & CHEMICALS	Lamination adhesive, multilayered film, and secondary cell using same
WO 2017028301	BOSCH GMBH ROBERT GUO YUGUO YIN YAXIA LI NIANWU CHEN YUNHUA ZHAO NAHONG INST OF CHEMISTRY CHINESE ACAD OF SCIENCES	Sulfur-carbon composite comprising carbon substrate and sulfur for lithium-sulfur batteries and process for preparing the same
WO 2017032789	HALDOR TOPSØE AS	High tap density lithium positive electrode active material, intermediate and process of preparation
WO 2017033213	NEC CORP	Additives for Fast Chargeable Lithium Ion Batteries
WO 2017033765	FUJIFILM CORP	Method for producing electrode sheet for all-solid-state secondary batteries and method for manufacturing all-solid-state secondary battery
WO 2017042659	UMICORE NV UMICORE KOREA LTD	Lithium metal oxide material, the use thereof in a positive electrode of a secondary battery and a method for preparing such a lithium metal oxide material
WO 2017009681	TOYOTA MOTOR EUROPE NV/SA CENTRE NAT RECH SCIENT	Sodium layered oxide as cathode material for sodium ion battery
WO 2017030127	OSAKA MUNICIPAL TECH RES INST SUMITOMO SEIKA CHEMICALS CO LTD	All solid state secondary-battery additive, all-solid-state secondary battery, and method for producing same
WO 2017033600	ZEON CORP	Binder composition for all-solid-state batteries
WO 2017039143	LG CHEMICAL LTD	Electrode assembly, secondary battery comprising same, and manufacturing method thereof
WO 2017029945	NIPPON ELECTRIC GLASS CO	Negative electrode active material for power storage device
WO 2017037911	NISSAN MOTOR	Vehicle management method and vehicle management device
WO 2017038669	HITACHI LTD	Lithium ion secondary battery
WO 2017045948	BOSCH GMBH ROBERT	Method for operating a battery cell
WO 2017038439	KK TOYOTA JIDOSHOKKI	Electricity storage device
WO 2017002529	HITACHI AUTOMOTIVE SYSTEMS LTD	Power conversion control device, battery control device, and driving control subsystem
WO 2017003197	LG CHEMICAL LTD	Cathode active material particles and secondary battery including same
WO 2017006763	HITACHI AUTOMOTIVE SYSTEMS LTD	Cell module
WO 2017007030	TOKYO INST TECH TOYOTA MOTOR CO LTD	Lithium solid electrolyte

WO 2017014046	KK TOYOTA JIDOSHOKKI	Battery module and battery pack
WO 2017014470	LG CHEMICAL LTD	Battery module assembly and battery pack including same
WO 2017014472	LG CHEMICAL LTD	Electrode lead connecting structure, battery module comprising electrode lead connecting structure, and battery pack comprising battery module
WO 2017017867	PANASONIC IP MAN CO LTD	Cooling device
WO 2017018120	NIPPON KODOSHI CORP TOYOTA MOTOR CO LTD	Battery positive electrode active material, battery, and method for producing battery positive electrode active material
WO 2017017910	SONY CORP	Battery, battery pack, electronic device, electric vehicle, electricity storage device and electric power system
WO 2017026285	NIPPON ELECTRIC GLASS CO	Solid electrolyte sheet, method for manufacturing same, and sodium ion all-solid-state secondary cell
WO 2017003083	KOREA ELECTRONICS TECH INST	High power energy storage device additive and high power energy storage device comprising same
WO 2017006834	NIPPON STEEL & SUMITOMO METAL CORP	Steel plate for case of non-aqueous-electrolyte secondary cell, and case of non-aqueous-electrolyte secondary cell
WO 2017006760	SUMITOMO SEIKA CHEMICALS CO LTD	Binder for lithium ion secondary battery positive electrodes
WO 2017016829	VALEO SYSTEMES THERMIQUES	Mounting of thermal-conditioning pipes of a motor vehicle battery, comprising a base provided with a spring
WO 2017015826	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Battery group heat management module
WO 2017026634	LG ELECTRONICS INC	Heat exchange device for battery of electric vehicle
WO 2017026228	NIPPON ELECTRIC GLASS CO	Negative electrode active material for electricity storage devices
WO 2017000293	MICROVAST POWER SYSTEMS CO LTD	Battery pack
WO 2017002288	SONY CORP	Negative electrode, battery, battery pack, electronic device, electric vehicle, electricity storage device and electric power system
WO 2017002444	THE FURUKAWA BATTERY CO LTD UNIV TOKYO METROPOLITAN 3DOM INC	Lithium secondary battery
WO 2017010780	LG CHEMICAL LTD	Separator and electrochemical device comprising same
WO 2017010490	JATCO LTD	Low-voltage abnormality determination device and low-voltage abnormality determination method
WO 2017014448	LG CHEMICAL LTD	Battery module having wire fixing ribs
WO 2017018099	SUMITOMO METAL MINING CO	Nonaqueous electrolyte secondary battery positive electrode active material and nonaqueous electrolyte secondary battery
WO 2017022486	KURARAY CO KURARAY CHEMICAL KK KUREHA CORP	Hardly graphitizable carbonaceous material for nonaqueous electrolyte secondary batteries used in fully charged state, method for producing same, negative electrode material for nonaqueous electrolyte secondary batteries, and nonaqueous electrolyte secondary battery in fully charged state
WO 2017025020	LIU HUI	Intelligent charging system and method for electric car
WO 2017002959	SHOWA DENKO KK UMICORE NV	Negative electrode material for lithium-ion batteries and use therefor
WO 2017008290	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Device and method for coating secondary battery electrode sheet
WO 2017010334	KANEKA CORP NAGOYA ELECTRICAL EDUCATIONAL FOUND	Electrode sheet used in nonaqueous electrolyte secondary battery and nonaqueous electrolyte secondary battery
WO 2017017914	SANYO ELECTRIC CO	Power supply device, power supply system provided with said power supply device, and separator for battery cells
WO 2017018147	SONY CORP	Switching device, electrical moving body, and power supply system
WO 2017026169	DENSO CORP	Battery pack

WO 2017026268	SONY CORP	Negative electrode for secondary battery and production method therefor, secondary battery and production method therefor, battery pack, electric vehicle, power storage system, electric tool and electronic device
WO 2017026312	DENSO CORP	Battery pack
WO 2017035173	TESLA MOTORS INC	Gasket and diaphragm for electrochemical cell
WO 2017002284	KK NIHON MICRONICS	Battery and charging/discharging method therefor
WO 2017002509	KYB CORP	Control system and control method for hybrid construction machine
WO 2017002971	TOKYO INST TECH TOYOTA MOTOR CO LTD	Sulfide-based solid electrolyte material, battery, and process for producing sulfide-based solid electrolyte material
WO 2017010295	AUTONETWORKS TECHNOLOGIES LTD SUMITOMO WIRING SYSTEMS SUMITOMO ELECTRIC INDUSTRIES	Wiring module
WO 2017010750	LG INNOTEK CO LTD	Device and method for charging electric vehicle
WO 2017014487	LG CHEMICAL LTD	Battery stack balancing apparatus
WO 2017014245	HITACHI CHEMICAL CO LTD	Lithium ion secondary battery
WO 2017026084	DENSO CORP	Storage battery system
WO 2017026269	SONY CORP	Negative electrode for secondary battery and production method therefor, secondary battery and production method therefor, battery pack, electric vehicle, power storage system, electric tool and electronic device
WO 2017027950	FCA FIAT CHRYSLER AUTOMOVEIS BRASIL LTDA	System and method of battery monitoring
WO 2017003509	FARADAY&FUTURE INC	Solid state switch for vehicle energy-storage systems
WO 2017010476	SHOWA DENKO KK	Production method for graphite-containing carbon powder for secondary battery, and carbon material for battery electrode
WO 2017014473	LG CHEMICAL LTD	Battery pack and vehicle comprising same
WO 2017017913	SANYO ELECTRIC CO	Power supply device and vehicle using same
WO 2017018656	LG CHEMICAL LTD	Apparatus and method for coating electrode active material slurry
WO 2017017868	SONY CORP	Negative electrode, battery, battery pack, electronic device, electric vehicle, power storage device, and power system
WO 2017026326	DENSO CORP	Battery pack
WO 2017000297	MICROVAST POWER SYSTEMS CO LTD	Battery group
WO 2017002325	SANYO ELECTRIC CO	Power source device
WO 2017008286	BOSCH GMBH ROBERT LU QIANG WANG LEI ZHANG JINGJUN	Separator for lithium-ion battery, manufacturing method therefor, and lithium-ion battery
WO 2017010776	LG CHEMICAL LTD	Bus bar structure
WO 2017013827	KK TOYOTA JIDOSHOKKI	Lithium ion secondary battery
WO 2017018287	NAT UNIV CORP UNIV OF FUKUI NISSAN CHEMICAL IND LTD	Collector for energy storage device, electrode for energy storage device, and energy storage device
WO 2017022845	KURARAY CO	Resin composition for nonaqueous electrolyte battery separator, and separator for nonaqueous electrolyte battery and nonaqueous electrolyte battery using same
WO 2017022460	NIPPON ELECTRIC GLASS CO	Negative electrode active material for power storage device
WO 2017006561	SHIN-ETSU CHEMICAL CO LTD MITSUI CHEMICALS INC	Method for manufacturing negative-electrode active material for non-aqueous-electrolyte secondary cell, method for manufacturing negative electrode for non-aqueous-electrolyte secondary cell, and non-aqueous-electrolyte secondary cell
WO 2017011974	MICROVAST POWER SYSTEMS CO LTD	Battery pack and battery pack system

WO 2017019663	X DEV LLC	Graphene application in battery
WO 2017026181	CENTRAL GLASS CO LTD	Non-aqueous electrolyte solution and non-aqueous electrolyte battery in which same is used
WO 2017006667	HONDA MOTOR CO LTD	Lithium ion battery electrolyte elimination method
WO 2017011366	JOHNSON CONTROLS TECH CO	System and method of overmolded terminal posts of a battery module
WO 2017016830	VALEO SYSTEMES THERMIQUES	Holder for thermal conditioning tube of a motor vehicle battery, comprising a base provided with a spring
WO 2017007091	KOREA ADVANCED INST SCI & TECH	Conductive single crystal silicon particles comprising micropores and having highly conductive carbon and ultra-thin metal film coated thereon, negative electrode active material for high capacity secondary battery comprising same, and method for preparing same
WO 2017007203	KOREA ADVANCED INST SCI & TECH	Catalyst, for lithium air battery, having one dimensional polycrystalline tube structure formed from ruthenium oxide and manganese oxide composite and method for preparing same
WO 2017013718	KK TOSHIBA	Non-aqueous electrolyte battery and battery pack

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SUPERCONDENSADORES

Nº PUBLICACIÓN	SOLICITANTE	Contenido técnico
WO 2017016994	AVL LIST GMBH	Battery emulator, and method for controlling the battery emulator
WO 2017033354	DENSO CORP	Vehicle control device
WO 2017022477	HITACHI AUTOMOTIVE SYSTEMS LTD	Charging device
WO 2017010579	VOLVO CONSTR EQUIP AB CHOI DONG-UK	Pre-charge of hybrid construction machine
WO 2017033411	SANYO ELECTRIC CO	Power supply device, and electric vehicle provided with power supply device
WO 2017018462	FUJIFILM CORP	Aluminum plate and method for producing aluminum plate

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SISTEMAS DE RECUPERACIÓN DE ENERGÍA; FRENOS REGENERATIVOS

Nº PUBLICACIÓN	SOLICITANTE	Contenido técnico
WO 2017029017	BOSCH GMBH ROBERT	Method and device for operating a brake system of a motor vehicle, brake system
WO 2017042209	JAGUAR LAND ROVER LTD	Electric vehicle with and method, controller and computer program for a braking system
WO 2017035534	TEXAS INSTRUMENTS INC TEXAS INSTRUMENTS JAPAN	Regenerative braking controller for electric motors
WO 2017047231	HITACHI AUTOMOTIVE SYSTEMS LTD	Brake control device
WO 2017047071	MITSUBISHI MOTORS CORP	Regenerative brake control device
WO 2017033753	NISSAN MOTOR	Electric vehicle control method, and control device
WO 2017046006	JAGUAR LAND ROVER LTD	Vehicle brake systems
WO 2017037739	CHAUDHARI SAURABH	Pulse wheel/ pulse flywheel
WO 2017017855	MITSUBISHI ELECTRIC CORP	Car information management device
WO 2017017816	NISSAN MOTOR	Electric vehicle control device and electric vehicle control method
WO 2017025041	BYD CO LTD	Brake system and method for four-wheel drive electric vehicle and electric vehicle
WO 2017046502	RENAULT SAS	Method for limiting wear of electric motor brushes
WO 2017016716	CONTINENTAL AUTOMOTIVE GMBH	Driver assistance system for adapting the braking power of an electric recuperation brake of a motor vehicle
WO 2017013843	PANASONIC IP MAN CO LTD	Vehicular power source device and method of

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MÁQUINAS ELÉCTRICAS

Nº PUBLICACIÓN	SOLICITANTE	Contenido técnico
WO 2017055725	VALEO EQUIP ELECTR MOTEUR	Rotary electric machine cooled by a heat-transfer fluid
WO 2017054993	VALEO KLIMASYSTEME GMBH	Fastening module for fastening a fan motor, and heating, ventilation and/or air-conditioning system module with such a fastening module
WO 2017055445	SIEMENS HEALTHCARE GMBH	Wheel suspension of an electrical drive for supporting a manual movement impulse
WO 2017020903	SCHAEFFLER TECHNOLOGIES AG	Method for the time-discrete controlling of an electronically commutated electric motor
WO 2017043207	HITACHI AUTOMOTIVE SYSTEMS LTD	Stator and rotating electric machine
WO 2017047247	HITACHI AUTOMOTIVE SYSTEMS LTD	Rotary electric machine
WO 2017005996	RENAULT SA NISSAN MOTOR	Method for the anticipatory starting of a heat engine
WO 2017043210	HITACHI AUTOMOTIVE SYSTEMS LTD	Stator of rotating electrical machine, and rotating electrical machine
WO 2017047236	HITACHI AUTOMOTIVE SYSTEMS LTD	Electric fluid pump
WO 2017000990	PIERBURG PUMP TECH GMBH	Pump housing having a fastening structure
WO 2017045478	SCHAEFFLER TECHNOLOGIES AG FANG SHANGUO WAGENBRET MARKUS WU ZHENHUA	Coolant sleeve and fixing device thereof and electric machine
WO 2017047171	SUMITOMO ELECTRIC INDUSTRIES	Traveling plan generation apparatus, vehicle, traveling plan generation system, and computer program
WO 2017005928	VOLKSWAGEN AG	Electrical machine comprising a magnetic flux weakening apparatus
WO 2017021244	CONTINENTAL AUTOMOTIVE GMBH	Air-cooled electric motor with a parallel circuit of two fan wheels
WO 2017047969	LG INNOTEK CO LTD	Motor and brake device including same
WO 2017033001	MAGNOMATICS LTD	Magnetically geared apparatus and a pole piece for such apparatus
WO 2017033861	HITACHI METALS LTD	Diffusion treatment device and method for manufacturing r-t-b system sintered magnet using same
WO 2017033944	AISIN SEIKI	Hybrid vehicle drive device
WO 2017038326	HITACHI AUTOMOTIVE SYSTEMS LTD	Rotor, rotating electrical machine provided therewith, and method of manufacturing rotor
WO 2017039486	KHADEEV RAVIL GAFIEVICH	Device for controlling the torque and revolutions of a synchronous electric motor
WO 2017010959	TOFAS TURK OTOMOBIL FABRIKASI AS	An engine cooling system
WO 2017032536	CONTINENTAL AUTOMOTIVE GMBH	Rotor for a permanent-magnet excited electrical machine
WO 2017002603	NTN TOYO BEARING CO LTD	In-wheel motor drive device
WO 2017018291	HITACHI METALS LTD	Method for producing r-t-b system sintered magnet
WO 2017033412	SANYO ELECTRIC CO	Battery system and electric vehicle equipped with same battery system
WO 2017006716	NTN TOYO BEARING CO LTD	Motor drive device for vehicle
WO 2017012778	ZAHNRADFABRIK FRIEDRICHSHAFEN	Power connection for an electrical device, in particular for an electrical machine for driving a motor vehicle
WO 2017026243	DENSO CORP	Device for driving vehicle
WO 2017022697	NTN TOYO BEARING CO LTD	Wheel bearing device with generator
WO 2017023250	NISSAN MOTOR WISCONSIN ALUMNI RES FOUND	Permanent magnet synchronous motor

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CONVERTIDORES, INVERSORES

Nº PUBLICACIÓN	SOLICITANTE	Contenido técnico
WO 2017051814	SUMITOMO ELECTRIC INDUSTRIES	Power supply device
WO 2017028988	BOSCH GMBH ROBERT	Three-phase dc converter
WO 2017005505	BROADBAND POWER SOLUTIONS S A	High power density inverter (ii)
WO 2017047696	AISIN AW CO	Inverter device for electric vehicle
WO 2017043219	HITACHI AUTOMOTIVE SYSTEMS LTD	Electric circuit device
WO 2017028990	BOSCH GMBH ROBERT	Voltage converter, electric drive system and method for reducing interference voltages
WO 2017048310	FARADAY&FUTURE INC	Methods and apparatus for generating current commands for an interior permanent magnet (ipm) motor
WO 2017016675	PORSCHE AG	Matryoshka converter
WO 2017038596	NTN TOYO BEARING CO LTD	Electric vehicle
WO 2017016828	BOSCH GMBH ROBERT	Multiphase inverter
WO 2017048309	FARADAY & FUTURE INC	Methods and apparatus for generating current commands for an interior permanent magnet (ipm) motor
WO 2017006949	HITACHI AUTOMOTIVE SYSTEMS LTD	Drive device
WO 2017017922	PANASONIC IP MAN CO LTD	Temperature conditioning unit, temperature conditioning system, and vehicle
WO 2017006845	HITACHI AUTOMOTIVE SYSTEMS LTD	Power converter
WO 2017009883	HITACHI LTD	Ac motor control device
WO 2017022244	NIKKEI HEAT EXCHANGER COMPANY LTD	Cooler
WO 2017022478	HITACHI AUTOMOTIVE SYSTEMS LTD	Dc-dc converter integrated charger
WO 2017022414	HITACHI AUTOMOTIVE SYSTEMS LTD	Power module
WO 2017017448	SEVCON LTD	Power electronics assembly
WO 2017005863	CONSTRUCTIONS ELECTRONIQUES + TELECOMMUNICATIONS	High power density inverter (i)

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RECARGA DE BATERÍAS

Nº PUBLICACIÓN	SOLICITANTE	Contenido técnico
WO 2017005678	ZAPTEC AS	Methods and apparatuses for communication between electronic vehicle supply equipment and wireless device
WO 2017041932	BOSCH GMBH ROBERT	Method for inductive energy transmission and device for operating an inductive energy transmission device
WO 2017008927	IPT TECH GMBH	Device and method for inductively transmitting electrical energy to movable electrical consumers
WO 2017032496	BAYERISCHE MOTOREN WERKE AG	Induction charging system having a housing structure having carbon fibers that are without contact
WO 2017019231	QUALCOMM INC	Systems, methods, and apparatus implementing hybrid symmetric and asymmetric control for soft switching in wireless power transfer applications
WO 2017028975	RWE AG	Charging station for electric vehicles and interface unit in a charging station of this type as well as a method for operating a charging station
WO 2017008846	VOLVO TRUCK CORP	A method and system for balancing a battery pack
WO 2017004078	FARADAY&FUTURE INC	Vehicle energy-storage systems
WO 2017003607	QUALCOMM INC	Systems, methods and apparatus for guidance and alignment between electric vehicles and wireless charging systems

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CAMBIO DE BATERÍAS

Nº PUBLICACIÓN	SOLICITANTE	Contenido técnico
WO 2017020674	HAN LEI	Internet-of-things controlled battery pack replacement and explosion protection system on electric vehicle chassis

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



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



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



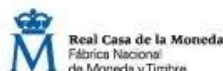
Los ITPs** de la OEPM detectaron solicitudes de patente relevantes cuando estábamos a mitad del proyecto y gracias a ello pudimos reconducir nuestra investigación.



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.



* La OEPM cuenta con más de 150 examinadores de patentes especializados en los diversos sectores tecnológicos y en la búsqueda de información científico-técnica.

** Los Informes Tecnológicos de Patentes o ITPs son estudios a la medida que incluyen una búsqueda de patentes y de literatura científica con un análisis en profundidad de los documentos más relevantes. Su coste es de 440 euros más IVA.