

Boletín VT COCHE ELÉCTRICO

3^{er} trimestre 2017

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Vigilancia Tecnológica

Noticias

Las [matriculaciones de vehículos híbridos y eléctricos](#) vuelven a crecer en el tercer trimestre de este año, según datos publicados por la Asociación Española de Fabricantes de Automóviles y Camiones (Anfac). Detrás de este aumento de las matriculaciones se encuentra el estímulo que ha supuesto el Plan MOVEA de ayudas a la compra de vehículos eficientes.

La UE prevé que [la transición hacia el coche eléctrico](#) se lleve a cabo antes de lo previsto por los analistas, según ha declarado comisaria de Mercado Interior e Industria, Elzbieta Bienkowska, durante la presentación de la nueva estrategia de política industrial del bloque comunitario. Para incentivar esta transición rápida hacia modelos de bajas emisiones, Bruselas presentará en otoño un segundo paquete legislativo sobre movilidad que incluirá niveles de emisiones de CO2 para coches y furgonetas.

El [Salón del Automóvil de Fráncfort](#), celebrado el pasado mes de septiembre, ha estado copado por el protagonismo que han cobrado en esta edición los coches eléctricos. Los principales fabricantes a

nivel internacional, especialmente los alemanes, han mostrado sus principales novedades en esta línea, incluyendo el primer concept car de Mercedes totalmente eléctrico para el segmento compacto.

Entre el 24 y el 27 de octubre, IFEMA organizará [Trafic 2017](#), la feria de la movilidad segura y sostenible, que incluye como novedad en esta edición un Área de Movilidad Eléctrica y Eficiente, y donde se exhibirán hasta 14 modelos de vehículos menos contaminantes o cero emisiones.

La [Junta de Andalucía](#) destinará 20 millones de euros para el impulso del coche eléctrico, a través de la Agencia de la Energía. El plan incluye la instalación de hasta 400 puntos de recarga o la adquisición por parte de las administraciones públicas de hasta 2000 nuevos automóviles,

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 2017135996	JOHNSON CONTROLS TECH CO	Battery temperature and charge adjustment system and method
WO 2017143761	NINGDE AMPEREX TECHNOLOGY LTD	Method for recharging rechargeable battery
WO 2017154999	NISSAN MOTOR	Battery pack
WO 2017159167	IHI CORP	Coil apparatus
WO 2017151813	FARADAY&FUTURE INC	Electric vehicle battery monitoring system
WO 2017154553	AUTONETWORKS TECHNOLOGIES LTD SUMITOMO WIRING SYSTEMS SUMITOMO ELECTRIC INDUSTRIES	Structure for connecting electrical storage module and control device
WO 2017154592	HITACHI MAXELL	Nonaqueous electrolyte battery
WO 2017155011	TOKYO ELECTRIC POWER COMPANY HOLDINGS INCORPORATED UNIV TOKYO METROPOLITAN	All-solid-state lithium-sulfur battery and production method for same
WO 2017154631	SUMITOMO METAL MINING CO	Positive electrode for nonaqueous electrolyte secondary batteries, positive electrode active material used for same, and secondary battery using same
WO 2017140382	TOYOTA MOTOR EUROPE	Systems and methods for battery micro-short estimation
WO 2017154908	TOSHIBA KK	Non-aqueous electrolyte cell and cell pack
WO 2017155272	SK INNOVATION CO LTD	Battery overcharging prevention device and battery overcharging prevention method using same
WO 2017155928	UNIV MICHIGAN REGENTS	Method to charge lithium-ion batteries with user, cell and temperature awareness
WO 2017137107	SIEMENS AG	Robust current limitation for an electric drive
WO 2017154760	NEC CORP	Charging facility guidance system, charging facility guidance method, and program storage medium
WO 2017119494	NAT INST ADVANCED IND SCIENCE & TECH	Magnesium compound, positive electrode active material for secondary battery, secondary battery, and magnesium compound production method
WO 2017126312	HITACHI METALS LTD	Positive electrode active material for lithium ion secondary battery, method for manufacturing same, and lithium ion secondary battery
WO 2017126271	CALSONIC KANSEI CORP	Assembled battery
WO 2017130410	YAMAHA MOTOR CO LTD	Electric-vehicle battery charging system
WO 2017130832	FUJIFILM CORP	Solid electrolyte composition, solid electrolyte-containing sheet, all-solid-state secondary battery, method for producing solid electrolyte-containing sheet, and method for manufacturing all-solid-state secondary battery
WO 2017130702	HITACHI AUTOMOTIVE SYSTEMS LTD	Rectangular secondary battery
WO 2017135790	LG CHEMICAL LTD	Cable-type secondary battery
WO 2017138116	HITACHI LTD	Lithium ion battery and method for manufacturing same
WO 2017138309	SONY CORP	Secondary battery positive electrode active material, secondary battery positive electrode, secondary battery, battery pack, electric vehicle, electric power storage system, electric tool, and electronic apparatus

WO 2017138382	NEC ENERGY DEVICES LTD	Positive electrode for lithium ion secondary battery, lithium ion secondary battery, and method of producing and method of evaluating positive electrode for lithium ion secondary battery
WO 2017138753	LG CHEMICAL LTD	Cartridge for secondary battery and secondary battery pack comprising same
WO 2017139967	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Battery pack balancing method, battery management system and battery system
WO 2017142587	JOHNSON CONTROLS TECH CO	Systems and methods for real-time parameter estimation of a rechargeable battery
WO 2017144564	BOSCH GMBH ROBERT	Battery system
WO 2017148814	BAYERISCHE MOTOREN WERKE AG	Method and device for operating a hybrid vehicle having an electrical energy store, an electric motor and an internal combustion engine
WO 2017149217	VALEO SYSTEMES THERMIQUES	Heat exchanger with a flexible wall for the heat management of an electric battery
WO 2017119106	MITSUBISHI ELECTRIC CORP	Power storage module
WO 2017122359	HITACHI LTD	Lithium ion battery and method for manufacturing same
WO 2017124209	JIEHAO YIGUI	Technology for input and output cycling between two battery packs
WO 2017127694	CALIFORNIA INST OF TECHN	Vertical carbon nanotube and lithium ion battery chemistries
WO 2017129520	BOSCH GMBH ROBERT	Secondary battery management
WO 2017129305	BAYERISCHE MOTOREN WERKE AG	Connector system, battery module, method for forming a tap, and operating device
WO 2017130622	NAT INST ADVANCED IND SCIENCE & TECH	Solid electrolyte material and all solid lithium ion secondary battery
WO 2017145874	NISSAN MOTOR	Electrode for lithium ion secondary battery and production method therefor
WO 2017144216	BAYERISCHE MOTOREN WERKE AG	Energy storage housing, vehicle with an energy storage housing, and set of energy storage housings
WO 2017146387	LG CHEMICAL LTD	Battery pack and vehicle having battery pack
WO 2017150012	SANYO ELECTRIC CO	Battery system and electrically driven vehicle equipped with battery system
WO 2017149144	JOHNSON CONTROLS TECH CO JOHNSON CONTROLS ADVANCED POWER SOLUTIONS GMBH	Turnable carrier for electrical components of a battery module
WO 2017115605	NISSAN MOTOR	High-current processing for lithium ion battery having metal-based negative electrode
WO 2017123014	LG CHEMICAL LTD	Battery pack comprising battery modules mounted in two layers
WO 2017123034	LS MTRON LTD	Copper foil, method for manufacturing same, electrode comprising same, and secondary battery comprising same
WO 2017126693	ASAHI CHEMICAL IND	Nonaqueous lithium storage element
WO 2017131988	MICROSOFT TECHNOLOGY LICENSING LLC	Dynamic battery loading for electric vehicles
WO 2017131155	DAINIPPON PRINTING CO LTD	Packaging material and cell
WO 2017142295	INDUSTRY-UNIV COOP FOUND HANYANG UNIV	Method for preparing sulfide-based solid electrolyte, sulfide-based solid electrolyte prepared therefrom, and all-solid lithium secondary battery comprising same
WO 2017142585	JOHNSON CONTROLS TECH CO	Systems and methods for directional capacity estimation of a rechargeable battery
WO 2017142586	JOHNSON CONTROLS TECH CO	Systems and methods for real-time estimation of capacity of a rechargeable battery
WO 2017145654	SHIN-ETSU CHEMICAL CO LTD	Negative electrode active material for nonaqueous electrolyte secondary batteries, nonaqueous electrolyte secondary battery, and method for producing negative electrode material for nonaqueous electrolyte secondary batteries

WO 2017145894	FUJIFILM CORP	Electrode active material for secondary batteries, solid electrolyte composition, electrode sheet for all-solid-state secondary batteries, all-solid-state secondary battery, method for producing electrode active material for secondary batteries, method for producing electrode sheet for all-solid-state secondary batteries, and method for manufacturing all-solid-state secondary battery
WO 2017146395	LG CHEMICAL LTD	Electrical box for battery pack and battery pack structure using same
WO 2017148610	LITHIUM ENERGY AND POWER GMBH & CO KG	Method for manufacturing energy storage device and energy storage device
WO 2017150504	MITSUI MINING & SMELTING CO	Spinel-type lithium-manganese-containing complex oxide
WO 2017149927	NEC ENERGY DEVICES LTD	Positive electrode for lithium ion secondary batteries, and lithium ion secondary battery
WO 2017115404	ELIIY POWER CO LTD	Power storage device, housing sealing structure and housing production method
WO 2017115630	CALSONIC KANSEI CORP	Overcurrent cutoff system
WO 2017122597	UNIV TOKYO	Aqueous electrolytic solution for electrical storage device, and electrical storage device including said aqueous electrolytic solution
WO 2017122438	SONY CORP	Battery pack
WO 2017123003	LG CHEMICAL LTD	Battery module assembly having stable fixing means for unit modules
WO 2017122967	LG CHEMICAL LTD	Battery pack having minimized loading space for device
WO 2017130493	HITACHI HIGH-TECH FINE SYSTEMS CORP	Powder for separators, slurry for separators, lithium ion battery and method for manufacturing same
WO 2017138704	LG CHEMICAL LTD	Busbar for cooling battery cell and battery module using same
WO 2017140450	BAYERISCHE MOTOREN WERKE AG	Battery cell module having a cooling element
WO 2017145497	HITACHI CHEMICAL CO LTD	Lithium ion secondary battery
WO 2017150506	MITSUI MINING & SMELTING CO	Positive electrode active material for lithium secondary battery
WO 2017150802	LG CHEMICAL LTD	Battery module, battery pack comprising same, and vehicle
WO 2017149146	JOHNSON CONTROLS TECH CO JOHNSON CONTROLS ADVANCED POWER SOLUTIONS GMBH	Fixation of electrochemical cells in a housing of a battery module
WO 2017149977	PANASONIC IP MAN CO LTD	Non-aqueous electrolyte secondary battery
WO 2017150949	LG CHEMICAL LTD	Cathode active material for secondary battery, manufacturing method therefor, and secondary battery including same
WO 2017116088	HYOSUNG CORP	Method and device for estimating battery life
WO 2017119493	NAT INST ADVANCED IND SCIENCE & TECH	Positive electrode active material for secondary battery, production method therefor, and secondary battery
WO 2017119775	LG CHEMICAL LTD	Battery pack
WO 2017119212	NISSAN MOTOR	Charging wait time calculation system and method
WO 2017119410	NAT INST ADVANCED IND SCIENCE & TECH	Lithium-copper composite oxide
WO 2017122759	GS YUASA INT LTD	Electricity storage element
WO 2017124875	ZENG JI	Heat-dissipation device for battery pack of electric vehicle
WO 2017131377	LG CHEMICAL LTD KOREA ADVANCED INST SCI & TECH	Lithium-sulfur battery separation film having composite coating layer including polydopamine, manufacturing method therefor, and lithium-sulfur battery comprising same
WO 2017138733	LG CHEMICAL LTD	Integrated cartridge and battery pack comprising same
WO 2017137826	SUMITOMO WIRING SYSTEMS	Charging connector, terminal fitting and method of fixing a sensor to a terminal fitting
WO 2017141613	HITACHI AUTOMOTIVE SYSTEMS LTD	Rectangular secondary battery
WO 2017145614	SANYO ELECTRIC CO	Power supply system
WO 2017146384	LG CHEMICAL LTD	Battery module, battery pack including battery module, and vehicle including battery pack

WO 2017149135	JOHNSON CONTROLS TECH CO JOHNSON CONTROLS ADVANCED POWER SOLUTIONS GMBH	Signal connector for a battery module
WO 2017150522	MITSUI MINING & SMELTING CO	Positive electrode active material for lithium secondary battery
WO 2017150143	NIPPON SHEET GLASS CO LTD	Separator for nonaqueous-electrolytic-solution secondary batteries, and nonaqueous-electrolytic-solution secondary battery
WO 2017121500	LITHIUM ENERGY AND POWER GMBH & CO KG	Energy storage device
WO 2017124859	GRST INT LTD	Method of preparing battery electrodes
WO 2017124715	CHINA ELECTRIC POWER RES INST ARIZONA STATE UNIV STATE GRID CORP CHINA NORTH CHINA BRANCH OF STATE GRID CORP OF CHINA	Lithium-ion battery separator and preparation method therefor
WO 2017126286	HITACHI AUTOMOTIVE SYSTEMS LTD	Power storage device
WO 2017146555	LG CHEMICAL LTD	Lithium secondary battery
WO 2017146237	ASAHI CHEMICAL IND	Nonaqueous electrolyte battery inorganic particles and nonaqueous electrolyte battery
WO 2017143514	TEXAS INSTRUMENTS INC TEXAS INSTRUMENTS JAPAN	Battery apparatus and cell balancing circuits
WO 2017146369	LG CHEMICAL LTD	Battery cell and method for manufacturing such battery cell
WO 2017149731	HITACHI LTD NISSHIN KASEI CO LTD	Negative-electrode material for lithium-ion battery, lithium-ion battery, and method for manufacturing negative-electrode material for lithium-ion battery
WO 2017150195	SONY CORP	Battery pack and charge-discharge control method
WO 2017150893	LG CHEMICAL LTD	Cathode active material for lithium secondary battery and preparation method therefor
WO 2017119697	SIGNET SYSTEM INC	Electric vehicle charger
WO 2017126918	LG CHEMICAL LTD	Electrode assembly and method for manufacturing same
WO 2017130574	DAICEL CORP	Secondary battery
WO 2017135600	LG CHEMICAL LTD	Battery module and battery pack comprising same
WO 2017148622	BOSCH GMBH ROBERT	Battery pack
WO 2017115639	AUTONETWORKS TECHNOLOGIES LTD SUMITOMO WIRING SYSTEMS SUMITOMO ELECTRIC INDUSTRIES	Wiring module
WO 2017119675	LG CHEMICAL LTD	Battery cell comprising extended electrode lead
WO 2017123029	LG CHEMICAL LTD	Anode active material for lithium secondary battery and preparation method therefor
WO 2017126274	CALSONIC KANSEI CORP	Assembled battery production method and assembled battery
WO 2017130705	SANYO ELECTRIC CO	Power supply device, vehicle in which same is used, and bus bar
WO 2017131080	SONY CORP	Negative electrode for secondary batteries, secondary battery, battery pack, electric vehicle, electric power storage system, electric tool and electronic device
WO 2017131051	NAT INST FOR QUANTUM AND RADIOLOGICAL SCIENCE AND TECH	Lithium-selective permeable membrane, lithium recovery device, lithium recovery method and hydrogen production method
WO 2017131432	PARK DONG SIK	Battery module and energy storing device having same
WO 2017120884	GM GLOBAL TECH OPERATIONS LLC DENG SHAWN	Quinary electrolytes for high power lithium ion batteries

WO 2017143754	BYD CO LTD	Single-cell battery, battery module, battery pack, and electric vehicle
WO 2017143753	BYD CO LTD	Single-cell battery, battery module, power battery, and electric vehicle
WO 2017131414	LG CHEMICAL LTD	Battery cell and method for manufacturing battery cell
WO 2017130715	KK TOYOTA JIDOSHOKKI	Power storage device
WO 2017138537	HITACHI CHEMICAL CO LTD	Binder resin composition, method for producing binder resin composition, composition for forming lithium ion secondary battery electrode, method for producing composition for forming lithium ion secondary battery electrode, electrode for lithium ion secondary batteries, and lithium ion secondary battery
WO 2017143021	II-VI INCORPORATED	Immobilized selenium, a method of making, and uses of immobilized selenium in a rechargeable battery
	INST CHEMISTRY CAS	
WO 2017143748	BYD CO LTD	Power battery, protection system thereof, and electric vehicle
WO 2017143749	BYD CO LTD	Single-cell battery, battery module, power battery, and electric automobile
WO 2017135793	LG CHEMICAL LTD	Cable-type secondary battery and manufacturing method therefor
WO 2017136489	CASPO LLC	Smart cooking system that produces and uses hydrogen fuel
WO 2017143830	HUAWEI TECH CO LTD	Method and device for detecting state of health of battery, and battery management system
WO 2017146379	LG CHEMICAL LTD	Battery module, battery pack and vehicle having same
WO 2017115373	PHINERGY LTD	System and method for protecting a battery during sudden load reduction
WO 2017138583	GS YUASA INT LTD	Power storage element and power storage element production method
WO 2017142071	DAINIPPON PRINTING CO LTD	Battery packaging material, battery, and production method for battery packaging material
WO 2017130258	PANASONIC IP MAN CO LTD	Management device and power storage system
WO 2017142261	LG CHEMICAL LTD	Negative electrode manufacturing method and negative electrode
WO 2017143750	BYD CO LTD	Single-cell battery, battery module, power battery, and electric vehicle
WO 2017125592	IMERYS GRAPHITE & CARBON SWITZERLAND LTD IMERYS G C JAPAN CO LTD	Carbonaceous materials and methods of use thereof
WO 2017143751	BYD CO LTD	Single-cell battery, battery module, power battery, and electric vehicle
WO 2017146386	LG CHEMICAL LTD	Roll press, and lamination method using roll press
WO 2017146248	MITSUI MINING & SMELTING CO	Lithium metal composite oxide having layered structure
WO 2017148653	BOSCH GMBH ROBERT	Method for producing an electrode, electrode and battery cell
WO 2017132370	UNIV COLUMBIA	Alkali metal battery electrodes and related methods
WO 2017143752	BYD CO LTD	Single-cell battery, battery module, power battery, and electric vehicle
WO 2017130040	ATHER ENERGY PVT LTD	A vehicle with an integrated battery casing
WO 2017143329	LIANG XINHUA PATEL RAJANKUMAR L	Lithium ion battery electrode

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SUPERCONDENSADORES

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2017155260	LG CHEMICAL LTD	Charging/discharging current estimation device
WO 2017149204	BROADBIT BATTERIES OY	Rechargeable sodium cells for high energy density battery use
WO 2017125207	BOSCH GMBH ROBERT	Method for controlling the intermediate circuit voltage of a hybrid or electric vehicle after disconnection of the high-voltage battery
WO 2017150460	NIPPON ELECTRIC GLASS CO	Wound-type film capacitor
WO 2017121605	BAYERISCHE MOTOREN WERKE AG	Heating system, electric or hybrid vehicle comprising such a heating system and method for operating a heating system
WO 2017149599	MITSUBISHI ELECTRIC ENG COMPANY LTD	Resonance-type wireless power transmission device
WO 2017139289	VOLT SERVER INC	Digital electricity transmission system using reversal sensing packet energy transfer
WO 2017125204	BOSCH GMBH ROBERT	Bidirectional dc/dc converter and method for charging the intermediate circuit capacitor of a dc/dc converter from the low-voltage battery

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SISTEMAS DE RECUPERACIÓN DE ENERGÍA; FRENOS REGENERATIVOS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2017129092	BYD CO LTD	Auxiliary braking system for electric automobile and control method thereof, and electric automobile
WO 2017157502	WABCO GMBH	Electronic brake system for a trailer vehicle
WO 2017148471	FEV GMBH	Method for testing electrical functions in a vehicle
WO 2017151035	ECOMB AB (PUBL)	Method of oxygenating water and producing hydrogen
WO 2017132282	UNIV CALIFORNIA DUAN XIANGFENG	Graphene frameworks for supercapacitors
WO 2017151792	GENTHERM INCORPORATED	Systems and methods for supplying power in a hybrid vehicle using capacitors, a battery and one or more dc/dc converters
WO 2017129091	BYD CO LTD	Collision avoidance system of electric vehicle, control method therefor, and electric vehicle
WO 2017146194	ADVICS CO LTD	Braking device for vehicle
WO 2017144156	HÖSS BERNHARD KOBLER SEBASTIAN	Drive system for a hybrid vehicle and method for operating such a drive system
WO 2017124210	JIEHAO YIGUI	Technology for automatically controlling disc generators for wheels
WO 2017138385	ISUZU MOTORS LTD	Hybrid vehicle and hybrid vehicle control method

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MÁQUINAS ELÉCTRICAS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2017143434	CANADIAN SPACE AGENCY	Energy-efficient motor drive with or without open-circuited phase
WO 2017153061	BOSCH GMBH ROBERT	Electric machine having high rotational-speed resistance
WO 2017156358	BORGWARNER INC	Clutch and electric motor
WO 2017158933	NTN TOYO BEARING CO LTD	In-wheel motor drive device
WO 2017133824	BOSCH GMBH ROBERT	Method, angle determination apparatus and control apparatus
WO 2017154625	HITACHI AUTOMOTIVE SYSTEMS LTD	Electric fluid pump
WO 2017154536	PANASONIC IP MAN CO LTD	Electrically driven pump
WO 2017121520	BAYERISCHE MOTOREN WERKE AG	Electric machine
WO 2017121567	JAGUAR LAND ROVER LTD	Rotor for an electric machine
WO 2017129165	SCHAEFFLER TECHNOLOGIES AG	Clutch arrangement and drive train for a motor vehicle
WO 2017149816	NTN TOYO BEARING CO LTD	In-wheel motor drive device
WO 2017119240	NTN TOYO BEARING CO LTD	In-wheel motor drive device
WO 2017145653	NTN TOYO BEARING CO LTD	In-wheel motor drive device
WO 2017141940	NSK LTD	Electric vehicle drive device
WO 2017142036	FURUKAWA ELECTRIC CO LTD FURUKAWA MAGNET WIRE CO LTD	Insulated electrical wire, motor coil and electrical/electronic apparatus
WO 2017140484	JAGUAR LAND ROVER LTD	Electric machine and configuration method
WO 2017116314	YIANGKAMOLSING CHANA	A set of electric motor for multi-purpose usage
WO 2017132075	URBAN MINING COMPANY	Grain boundary engineering of sintered magnetic alloys and the compositions derived therefrom
WO 2017148601	BOSCH GMBH ROBERT	Asynchronous machine
WO 2017149939	HITACHI CONSTRUCTION MACH CO	Hybrid work machine
WO 2017121930	VALEO EQUIP ELECTR MOTEUR	Rotary electric machine with improved cooling
WO 2017121994	UNIV OF NEWCASTLE UPON TYNE	Rotor assembly

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CONVERTIDORES, INVERSORES

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2017158253	INST VEDECOM	Cooled electronic power module, motor and vehicle comprising such a module
WO 2017157680	SIEMENS AG	Semiconductor module and method for the production thereof
WO 2017159150	DENSO CORP	Temperature regulating device for magnetic circuit component
WO 2017133962	CONTINENTAL AUTOMOTIVE GMBH	Dc voltage converter arrangement for an electric machine
WO 2017159485	AUTONETWORKS TECHNOLOGIES LTD SUMITOMO WIRING SYSTEMS SUMITOMO ELECTRIC INDUSTRIES	Vehicular power supply system, vehicular driving system
WO 2017122519	SUMITOMO ELECTRIC INDUSTRIES	Power conversion device and control method for power conversion device
WO 2017150989	UNIV OF WAIKATO	Electrical inverter assembly
WO 2017151691	CARBYNE ENTPR INC	Hybrid vehicle conversion system
WO 2017119753	LG INNOTEK CO LTD	Power conversion device
WO 2017149776	MITSUBISHI ELECTRIC CORP	Power conversion device
WO 2017148670	BOSCH GMBH ROBERT	Device for charging an electric energy store, and method for initializing a charging process for an electric energy store
WO 2017150588	JNC CORP OSAKA MUNICIPAL TECH RES INST	Composition for heat-dissipating member, heat-dissipating member, electronic instrument, method for producing composition for heat-dissipating member, and method for producing heat-dissipating member
WO 2017126261	HITACHI AUTOMOTIVE SYSTEMS LTD	Direct current sensor, alternating current sensor, and inverter comprising same
WO 2017147644	MINE MOBILE POWER PTY LTD	An underground mining vehicle for providing electrical supply
WO 2017119113	MITSUBISHI ELECTRIC CORP	Evaporative cooling device and evaporative cooling system
WO 2017130668	HITACHI AUTOMOTIVE SYSTEMS LTD	Power conversion device
WO 2017149972	DENSO CORP	Electric power converter
WO 2017126047	MITSUBISHI ELECTRIC CORP	Power conditioner
WO 2017141872	DENSO CORP	Inverter control apparatus
WO 2017122390	MITSUBISHI ELECTRIC CORP	Power conversion device and motor driving device in which same is used
WO 2017135070	DENSO CORP	Power conversion device
WO 2017152181	QATAR FOUND FOR EDUCATION SCIENCE AND COMMUNITY DEV QATAR UNIV TARIQ MOHD	Cascaded packed u-cell multilevel inverter
WO 2017131177	KYOCERA CORP	Film with metal film, film capacitor using same, connected capacitor, inverter and electric vehicle
WO 2017141522	IHI CORP	Electrical power transmission device
WO 2017135071	DENSO CORP	Power conversion device
WO 2017145449	HITACHI AUTOMOTIVE SYSTEMS LTD	Electrical circuit device
WO 2017139872	TM4 INC	Power inverter with dynamic current limiting
WO 2017145338	MITSUBISHI ELECTRIC CORP	Power conversion apparatus

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RECARGA DE BATERÍAS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2017147613	MIFTAKHOV VALERY	Standalone adapter for load control of energy storage devices
WO 2017135997	JOHNSON CONTROLS TECH CO	Integrated battery safety interlock
WO 2017134052	CONTINENTAL AUTOMOTIVE GMBH	High-voltage vehicle electrical system and stationary connection device
WO 2017154985	NEC CORP	Vehicle-charging system, parking lot system, and method for charging vehicle
WO 2017133869	CONTI TEMIC MICROELECTRONIC GMBH	Method and system for charging motor vehicles at public charging stations
WO 2017137234	BAYERISCHE MOTOREN WERKE AG	Dynamic communication of actual charging capacity
WO 2017155859	QUALCOMM INC	Method and apparatus for positioning a vehicle
WO 2017133760	TOYOTA MOTOR EUROPE NV/SA	Control device and method for discharging a rechargeable battery
WO 2017153366	RENAULT SAS CENTRE NAT DE LA RECH SCIENT (CNRS) ECOLE NORMALE SUPERIEURE DE CACHAN CONSERVATOIRE NAT DES ARTS ET MÉTIERS	Method and device for single-phase control of an on-board charger of electric or hybrid vehicles without galvanic isolation
WO 2017153683	COMMISSARIAT ENERGIE ATOMIQUE	Cable reel for recharging an electric vehicle
WO 2017153080	BAYERISCHE MOTOREN WERKE AG	Inductive charging system for a vehicle, and use
WO 2017140354	TOYOTA MOTOR EUROPE	Systems and methods for battery charge control
WO 2017133759	TOYOTA MOTOR EUROPE NV/SA	Control device and method for charging a rechargeable battery
WO 2017154419	HITACHI AUTOMOTIVE SYSTEMS LTD	Battery management system, battery system and hybrid vehicle control system
WO 2017118807	RENAULT SAS	Method and system for actively discharging the input capacitors of an onboard charger of an electric or hybrid vehicle
WO 2017138508	HONDA MOTOR CO LTD	Contact charging system, power feeding device, power receiving device, and contact charging method
WO 2017147612	CALIFORNIA INST OF TECHN	Adaptive charging network using adaptive charging stations for electric vehicles
WO 2017148547	RWE EFFIZIENZ GMBH	Measuring transducer
WO 2017125347	BAYERISCHE MOTOREN WERKE AG	Improved energy storage arrangement comprising multiple energy stores
WO 2017127428	CONDUCTIX INC	Retractable cable or hose system
WO 2017129693	BOMBARDIER PRIMOVE GMBH	Arrangement with battery system for providing electric energy to a vehicle
WO 2017144137	BAYERISCHE MOTOREN WERKE AG	Method for controlling electrical charging of a group of vehicles
WO 2017121509	VOLKSWAGEN AG	Electrical system for a vehicle, vehicle and method for carrying out a charging process
WO 2017129653	BOMBARDIER PRIMOVE GMBH	An inductive power transfer pad, system for inductive transfer and method of operating an inductive power transfer pad
WO 2017141329	MITSUBISHI ELECTRIC CORP	Protocol conversion apparatus
WO 2017150416	NEC CORP	Degradation determination method and electricity storage system
WO 2017151784	GENTHERM INCORPORATED	System and method for supplying power in a hybrid vehicle provided with capacitors, a battery and one or more dc/dc converters
WO 2017129654	BOMBARDIER PRIMOVE GMBH	A system and a method for detecting an authorized secondary unit in a system for inductive power transfer

WO 2017144473	CONTINENTAL AUTOMOTIVE GMBH	Battery system with a voltage equalising circuit, and method for identifying a defective state of the voltage equalising circuit and cell voltage measurement
WO 2017149638	MITSUBISHI ELECTRIC CORP	Charge/discharge device
WO 2017150709	YAMAHA MOTOR CO LTD	Wireless power supply device and straddle-type vehicle
WO 2017117702	ABB SCHWEIZ AG HUANG XING KAPTEIN JOHAN YU RONGRONG CHEN YAO	Control system for electric vehicle station and control method for the same
WO 2017118555	BLUETRAM	Safety system for an electromechanical coupling assembly, charging station for an electric vehicle provided with such a system and associated coupling method
WO 2017129264	TOYOTA MOTOR EUROPE NV/SA	Control device and method for charging a rechargeable battery
WO 2017134951	TOSHIBA KK	Charging device and positional deviation detection method
WO 2017119926	JOHNSON CONTROLS TECH CO	Battery module lithium plating reduction
WO 2017129259	TOYOTA MOTOR EUROPE NV/SA	Control device and method for discharging a rechargeable battery
WO 2017136491	WITRICITY CORP	Controlling wireless power transfer systems
WO 2017151788	GENTHERM INCORPORATED	A battery and capacitor assembly for a vehicle and a method for heating and cooling the battery and capacitor assembly
WO 2017141156	ALFAZERO S P A	System and method for recharging an electric vehicle with direct current
WO 2017144136	BAYERISCHE MOTOREN WERKE AG	Method for controlling the electrical charging of a group of vehicles
WO 2017130689	PANASONIC IP MAN CO LTD	Noncontact power supply system
WO 2017130564	DENSO CORP	Charging/discharging system
WO 2017132529	THE UNIV OF TOLEDO	A bilevel equalizer for battery cell charge management
WO 2017139546	RADIO FLYER INC	Dual charge ride-on vehicle
WO 2017144135	BAYERISCHE MOTOREN WERKE AG	Method and central control system for controlling the electrical charging of a group of vehicles
WO 2017138225	SUMITOMO ELECTRIC INDUSTRIES	Charge and discharge assist device, computer program, and charge and discharge assist method
WO 2017138939	LEAR CORP	Vehicle charge-cord system
WO 2017139682	CAPACITOR SCIENCES INCORPORATED	Improved energy storage system using capacitors
WO 2017143051	ELECTRIC FEEL LLC	Electric vehicle charging system and methods of use
WO 2017139677	CAPACITOR SCIENCES INCORPORATED	Electric vehicle powered by capacitive energy storage modules

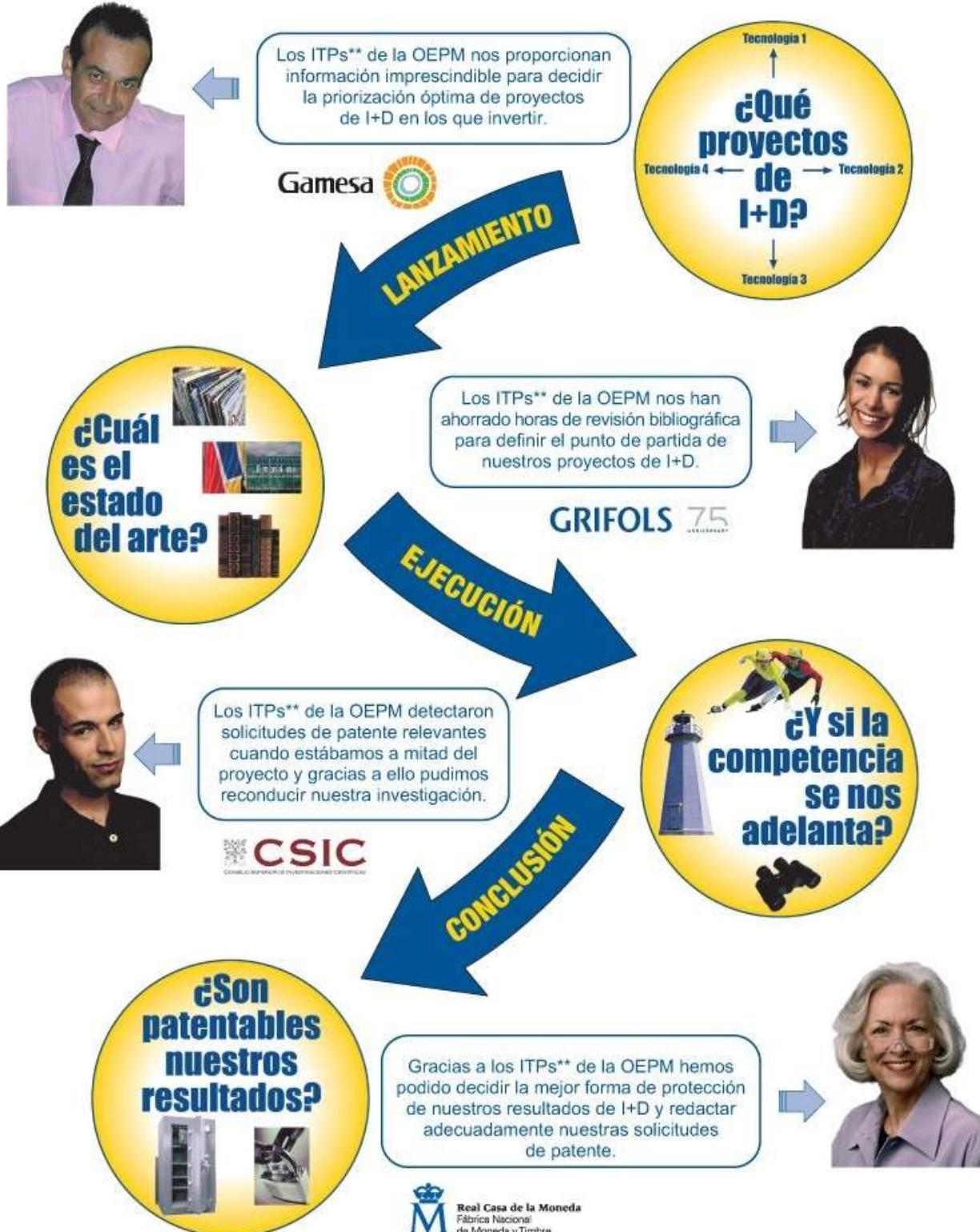
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CAMBIO DE BATERÍAS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
WO 2017139444	NEXTEV USA INC	Vehicle having a rigid frame structure for receiving a replaceable battery pack

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