

Noticias

ENERGER, empresa española de ingeniería de eficiencia energética, ha lanzado al mercado el [primer cargador español ultrarrápido para vehículos eléctricos](#), capaz de soportar potencias de hasta 100 kilovatios y cargar la batería en un tiempo inferior a los 10 minutos. El cargador es compatible con todas las tecnologías de carga existentes actualmente.

En esta misma dirección, los principales grupos automovilísticos (BMW, Daimler AG, Ford Motor Company y el Grupo Volkswagen) han firmado un [acuerdo para crear la red de carga eléctrica más potente de Europa](#). El objetivo es el despliegue rápido de una considerable cantidad de estaciones de carga. Esto representa un paso importante para impulsar la implementación del coche eléctrico. Se planea comenzar el despliegue de esta red en el año 2017.

Las [ventas de coches híbridos y eléctricos](#) siguen creciendo en España: en concreto las matriculaciones de coches eléctricos han crecido un 51,5%, mientras que los híbridos han crecido un 68%. Los vehículos de propulsión alternativa tienen cada vez más presencia en el mercado español, representando en este momento un 2,6% del total matriculado.

El ayuntamiento de Madrid ha aprobado una [reforma de las tarifas del Servicio de Estacionamiento Regulado \(SER\)](#) que penalizará a los coches más contaminantes. El plan del gobierno municipal irá acompañado de un incremento en las bonificaciones a los coches que produzcan menos emisiones contaminantes, en especial híbridos y eléctricos. Estos últimos seguirán sin pagar por aparcar en las zonas de estacionamiento regulado.

El Grupo PSA ha puesto en marcha un [nuevo servicio de "car sharing" eléctrico](#) en Madrid, bajo el nombre de **emov**, integrado por 500 vehículos Citroën C-Zero que cubrirán el interior de la M-30 y otras zonas anexas. El servicio viene a complementar otras iniciativas de transporte sostenible en la capital, tales como el servicio municipal de alquiler de bicicletas eléctricas, BiciMAD, y Car2Go, que fue el primer servicio de car sharing eléctrico implementado en Madrid.

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](#)
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 - [Máquinas eléctricas](#)
 - [Convertidores, inversores](#)
- **INFRAESTRUCTURAS DE CARGA**
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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 2016178564 | TECHNISCHE UNIV DELFT | Hybrid battery and electrolyser |
| WO 2016180431 | BAYERISCHE MOTOREN WERKE AG TOYOTA MOTOR CORP | Vehicular metal/gas battery system with a gas cleaning apparatus |
| WO 2016199465 | HINO MOTORS LTD | Articulated bus |
| WO 2016199805 | FUJIFILM CORP | Solid electrolyte composition, electrode sheet for all-solid-state secondary batteries, all-solid-state secondary battery, method for producing electrode sheet for all-solid-state secondary batteries, and method for producing all-solid-state secondary battery |
| WO 2016204470 | LG CHEMICAL LTD | Cartridge and battery module having same |
| WO 2016177401 | BAYERISCHE MOTOREN WERKE AG TOYOTA MOTOR CORP | Electrode arrangement for a metal/oxygen galvanic cell |
| WO 2016199247 | NISSAN MOTOR | Energy management control device for hybrid vehicle |
| WO 2016200319 | SCANIA CV AB | A method and a monitoring unit for monitoring a battery system |
| WO 2016204489 | LG CHEMICAL LTD | Cell cover for secondary battery, and battery module comprising same |
| WO 2016204518 | LG CHEMICAL LTD | Battery pack |
| WO 2016200212 | LG CHEMICAL LTD | System and method for sensing battery cell swelling |
| WO 2016200147 | LG CHEMICAL LTD | Electrode lead and secondary battery having same |
| WO 2016191292 | UNIV OF HOUSTON SYSTEM | Lead-acid batteries with fast charge acceptance |
| WO 2016199222 | KK TOSHIBA | Charging system |
| WO 2016200231 | LG CHEMICAL LTD | Battery module |
| WO 2016203619 | JSR CORP | Electricity storage device with laminated outer package, and method of manufacturing same |
| WO 2016204491 | LG CHEMICAL LTD | Battery module |
| WO 2016199384 | SONY CORP | Battery, battery pack, electronic instrument, electric car, power storage device and power system |
| WO 2016199563 | HITACHI AUTOMOTIVE SYSTEMS LTD | Battery module |
| WO 2016199653 | SHOWA DENKO KK | Composition for binder for non-aqueous cell electrode, binder for non-aqueous cell electrode, composition for non-aqueous cell electrode, non-aqueous cell electrode, and non-aqueous cell |
| WO 2016195019 | FUJI SILYSIA CHEMICAL LTD | Composition for negative electrode active materials, negative electrode, nonaqueous electrolyte secondary battery, and method for producing composition for negative electrode active materials |
| WO 2016194995 | TOAGOSEI CO LTD | Ion scavenger for lithium ion secondary cell, liquid electrolyte, separator, and lithium ion secondary cell |
| WO 2016200144 | LG ELECTRONICS INC | Battery pack thermal management system for electric vehicle |
| WO 2016200009 | LG CHEMICAL LTD | Battery pack protecting system and method |
| WO 2016162995 | NISSAN MOTOR | Contactless charging device for vehicles |
| WO 2016166833 | mitsubishi electric corp | Vehicle power supply device |
| WO 2016166853 | mitsubishi electric corp | Control device, control method, and program |
| WO 2016194271 | PANASONIC IP MAN CO LTD | Auxiliary battery status determination device and auxiliary battery status determination method |

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|-------------------------------|--|---|
| WO 2016194803 | AUTONETWORKS TECHNOLOGIES LTD SUMITOMO WIRING SYSTEMS SUMITOMO ELECTRIC INDUSTRIES | Wiring module |
| WO 2016194355 | JFE CHEMICAL CORP | Carbonaceous coated graphite particles for negative-electrode material of lithium-ion secondary cell, negative electrode for lithium-ion secondary cell, and lithium-ion secondary cell |
| WO 2016163483 | NIPPON STEEL & SUMITOMO METAL CORP NIPPON STEEL & SUMIKIN MAT CO LTD | Steel foil for electricity storage device container, container for electricity storage device, and electricity storage device |
| WO 2016192111 | BOSCH GMBH ROBERT INST OF CHEMISTRY CHINESE ACAD OF SCIENCES GUO YUGUO ZHANG SHUAIFENG YIN YAXIA CHEN YUNHUA ZHAO NAHONG | Sulfur-carbon composite comprising micro-porous carbon nanosheets for lithium-sulfur batteries and process for preparing the same |
| WO 2016158566 | TORAY INDUSTRIES | Lithium manganese phosphate nanoparticles and method for manufacturing same, carbon-coated lithium manganese phosphate nanoparticles, carbon-coated lithium manganese phosphate nanoparticle granulated body, and lithium ion cell |
| WO 2016186707 | JOHNSON CONTROLS TECH COMPANY | Lithium-ion battery module comprising expansion accommodating elements and method for manufacturing comprising heat seal of cover to base of housing |
| WO 2016195438 | LG CHEMICAL LTD | Battery cell, and battery module and battery pack including same |
| WO 2016194705 | FUJIFILM CORP | Solid electrolyte composition, electrode sheet for all-solid-state secondary cell, all-solid-state secondary cell, and method for manufacturing electrode sheet for all-solid-state secondary cell and all-solid-state secondary cell |
| WO 2016163648 | LG CHEMICAL LTD | Battery cell having excellent low-temperature output characteristics and medium/large-sized battery pack comprising same |
| WO 2016166854 | mitsubishi electric corp | Control device, control method, and program |
| WO 2016195451 | LG CHEMICAL LTD | Battery pack function test device |
| WO 2016159233 | DAINIPPON PRINTING CO LTD | Packaging material for cell, process for producing same, and cell |
| WO 2016157370 | ELIY POWER CO LTD | Sealed battery and battery pack |
| WO 2016158675 | NAT INST ADVANCED IND SCIENCE & TECH | Organic sulfur material and method for producing same |
| WO 2016158113 | BROTHER IND LTD | Electrode unit, battery, and method for producing battery |
| WO 2016158754 | NISSAN MOTOR | Positive electrode for lithium battery |
| WO 2016167159 | SUMITOMO WIRING SYSTEMS | Cell wiring module |
| WO 2016167324 | CALSONIC KANSEI CORP | Alternator control unit, alternator driving control method, and power supply management system for engine vehicle |
| WO 2016170920 | HITACHI AUTOMOTIVE SYSTEMS LTD | Rectangular secondary battery |
| WO 2016175591 | LG CHEMICAL LTD | Battery pack and manufacturing method therefor |
| WO 2016175539 | LG CHEMICAL LTD | Anode active material and anode including same |
| WO 2016178539 | LG CHEMICAL LTD | Pouch-type secondary battery including electrode lead having electrical current limiting function |
| WO 2016181890 | TOPPAN PRINTING CO LTD | Electrode for nonaqueous electrolyte secondary cell and nonaqueous electrolyte secondary cell |
| WO 2016182229 | LG INNOTEK CO LTD | Charging device and charging control device of electric vehicle |
| WO 2016157267 | SANYO ELECTRIC CO | Power supply device and vehicle provided with power supply device |
| WO 2016159278 | DAINIPPON PRINTING CO LTD | Packaging material for cell, process for producing same, and cell |

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|-------------------------------|--|---|
| WO 2016158796 | DAINIPPON PRINTING CO LTD | Packaging material for batteries, method for producing same, and battery |
| WO 2016158302 | FDK CORP | Hydrogen-occlusion alloy, negative electrode including said hydrogen-occlusion alloy, and nickel-hydrogen secondary battery including said negative electrode |
| WO 2016158823 | KUREHA CORP | Carbonaceous molding for cell electrode, and method for manufacturing same |
| WO 2016175444 | LG CHEMICAL LTD | Pouch-type secondary battery and manufacturing method therefor |
| WO 2016178411 | SHOWA DENKO KK | Secondary battery and battery outer casing material |
| WO 2016181657 | SEIKO EPSON CORP | Control apparatus, electronic device, and contactless power transmission system |
| WO 2016185961 | AUTOMOTIVE ENERGY SUPPLY CORP | Battery module support structure in vehicular battery pack |
| WO 2016186290 | LG CHEMICAL LTD | Battery pack |
| WO 2016190075 | AUTONETWORKS TECHNOLOGIES LTD SUMITOMO WIRING SYSTEMS SUMITOMO ELECTRIC INDUSTRIES | Power storage module |
| WO 2016190251 | NAT INST ADVANCED IND SCIENCE & TECH | Cathode material and lithium secondary battery using same as cathode |
| WO 2016157758 | PANASONIC IP MAN CO LTD | Contactless power supply device, program, method for controlling contactless power supply device, and contactless power transmission system |
| WO 2016159099 | GS YUASA INT LTD | Electricity storage element |
| WO 2016157843 | NEC CORP | Battery management system |
| WO 2016157263 | SANYO ELECTRIC CO | Power supply device and vehicle provided with same |
| WO 2016158112 | BROTHER IND LTD | Electrode unit and battery |
| WO 2016171522 | LG CHEMICAL LTD | Secondary battery pack and vehicle comprising same |
| WO 2016171081 | SUMITOMO METAL MINING CO | Positive electrode active material for non-aqueous electrolyte secondary battery and method for manufacturing same, and non-aqueous electrolyte secondary battery using said positive electrode active material |
| WO 2016175148 | KANEKA CORP | Packed object |
| WO 2016174991 | HITACHI AUTOMOTIVE SYSTEMS LTD | Secondary battery |
| WO 2016176864 | STATE GRID CORP CHINA STATE GRID BEIJING ELECTRIC POWER CO | Method and device for controlling reserved charging of electric vehicle |
| WO 2016178308 | CALSONIC KANSEI CORP | Secondary battery charging rate calculation device and storage battery system |
| WO 2016181993 | SHOWA DENKO KK | Copolymer, binder for secondary cell electrode, composition for secondary cell electrode, and electrode for secondary cell |
| WO 2016190225 | NAT INST FOR MATERIALS SCIENCE | Electrode material, method for producing same, and electricity storage device using same |
| WO 2016158797 | DAINIPPON PRINTING CO LTD | Packaging material for batteries, and battery |
| WO 2016158019 | BROTHER IND LTD | Vanadium solid-salt battery |
| WO 2016159663 | LG CHEMICAL LTD KOREA ADVANCED INST OF SCIENCE AND TECH | Porous silicon-silicon oxide-carbon composite, and method for preparing same |
| WO 2016159607 | LG CHEMICAL LTD | Sealing apparatus of pouch-type rechargeable battery |
| WO 2016163114 | KK TOYOTA JIDOSHOKKI | Positive electrode for nonaqueous electrolyte secondary batteries, and nonaqueous electrolyte secondary battery |
| WO 2016175597 | LG CHEMICAL LTD | Cathode active material for secondary battery, preparation method therefor, and secondary battery comprising same |
| WO 2016179785 | CONTEMPORARY AMPEREX TECHNOLOGY CO LTD | Composite diaphragm and lithium ion battery using same |

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| WO 2016196688 | ENERGY POWER SYSTEMS LLC PNEUMATICOAT TECH LLC | Nano-engineered coatings for anode active materials, cathode active materials, and solid-state electrolytes and methods of making batteries containing nano-engineered coatings |
| WO 2016197098 | IONIC MAT INC ZIMMERMAN MICHAEL A | Solid state bipolar battery |
| WO 2016157736 | SANYO ELECTRIC CO | Non-aqueous electrolyte secondary cell |
| WO 2016159108 | ASAHI CHEMICAL IND HITACHI MAXELL | Nonaqueous electrolyte and nonaqueous secondary battery |
| WO 2016171368 | LG CHEMICAL LTD | Negative electrode active material, lithium secondary battery comprising same, and method for preparing negative electrode active material |
| WO 2016171345 | LG CHEMICAL LTD | Battery cell cooling device and battery module including same |
| WO 2016175310 | MITSUI MINING & SMELTING CO | Method for producing 5v-class spinel-type lithium-manganese composite oxide |
| WO 2016175560 | LG CHEMICAL LTD | Electrode for electrochemical device and method for manufacturing electrode |
| WO 2016175312 | MITSUI MINING & SMELTING CO | 5v-class spinel-type lithium-manganese composite oxide |
| WO 2016175186 | KANTO DENKA KOGYO KK | Method for purifying difluorophosphate |
| WO 2016182170 | LG CHEMICAL LTD | Battery module |
| WO 2016159702 | LG CHEMICAL LTD | Non-aqueous electrolyte and lithium secondary battery comprising same |
| WO 2016159117 | ASAHI CHEMICAL IND HITACHI MAXELL | Nonaqueous electrolyte and nonaqueous secondary battery |
| WO 2016174862 | GS YUASA INT LTD | Negative electrode for nonaqueous-electrolyte power storage element |
| WO 2016175311 | MITSUI MINING & SMELTING CO | 5v class spinel-type lithium manganese-containing composite oxide |
| WO 2016175313 | MITSUI MINING & SMELTING CO | 5v-class spinel-type lithium-manganese composite oxide |
| WO 2016175590 | LG CHEMICAL LTD | Battery pack and manufacturing method therefor |
| WO 2016181960 | SHOWA DENKO KK | Method for producing graphite powder for negative electrode materials for lithium ion secondary batteries |
| WO 2016182199 | DAE WHA ALLOYTECH CO LTD | Battery pre-heating apparatus for hybrid vehicle and control method therefor |
| WO 2016185663 | 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 2016159190 | DAINIPPON PRINTING CO LTD | Cell packaging material, method for manufacturing same, and cell |
| WO 2016158998 | GS YUASA INT LTD | Electricity storage element production method and electricity storage element production device |
| WO 2016167602 | LG CHEMICAL LTD | Washer for detecting electrolyte leakage, and secondary battery comprising same |
| WO 2016169398 | GENERAL RES INST FOR NONFERROUS METALS CHINA AUTOMOTIVE BATTERY RES INST CO LTD | In-situ crosslinking polymer binder for lithium-ion battery, and electrode manufactured by using same |
| WO 2016174855 | SANYO ELECTRIC CO | Power source device and vehicle equipped therewith |
| WO 2016174828 | PANASONIC IP MAN CO LTD | Battery management device and power supply system |
| WO 2016175554 | LG CHEMICAL LTD | Cathode active material for lithium secondary battery, manufacturing method therefor, and lithium secondary battery including same |
| WO 2016181656 | SEIKO EPSON CORP | Control apparatus, electronic device, contactless power transmission system |
| WO 2016187811 | LUO MINGJING | Lithium ion battery having good thermal safety |
| WO 2016188005 | ZTE CORP | Microwave charging method, base station and electric vehicle |

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| WO 2016178540 | LG CHEMICAL LTD | Pouch-type secondary battery including electrode lead having current limiting function |
| WO 2016178280 | ELIHY POWER CO LTD | Positive electrode active material for non-aqueous electrolyte secondary battery, positive electrode, and secondary battery |
| WO 2016190419 | GS YUASA INT LTD | Positive electrode active material for non-aqueous electrolyte secondary batteries and method for producing same, electrode for non-aqueous electrolyte secondary batteries, and non-aqueous electrolyte secondary battery |
| WO 2016157672 | PANASONIC IP MAN CO LTD | Alloy powder for electrodes, negative electrode for nickel-hydrogen storage batteries using same and nickel-hydrogen storage battery |
| WO 2016159724 | SK INNOVATION CO LTD | Fusion type composite separation membrane for lithium secondary battery, and preparation method therefor |
| WO 2016164338 | THE TRUSTEES OF PRINCETON UNIV UNIV CALIFORNIA | Alkaline battery electrolyte useful for a rechargeable alkaline electrochemical cell |
| WO 2016164617 | BROWN UNIV | Cation energy storage device and methods |
| WO 2016157735 | SANYO ELECTRIC CO | Non-aqueous electrolyte secondary battery |
| WO 2016159720 | SK INNOVATION CO LTD | Composite separation membrane for lithium secondary battery and manufacturing method therefor |
| WO 2016191881 | DANA CANADA CORP | Heat exchanger with regional flow distribution for uniform cooling of battery cells |
| WO 2016158187 | NISSAN MOTOR | Electrode for lithium-ion cell, lithium-ion cell, and method of manufacturing electrode for lithium-ion cell |
| WO 2016157669 | PANASONIC IP MAN CO LTD | Alloy powder for electrodes, negative electrode for nickel-metal hydride storage batteries using same, and nickel-metal hydride storage battery |
| WO 2016157508 | NEC CORP | Boron-doped activated carbon material |

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SUPERCONDENSADORES

| Nº PUBLICACIÓN | SOLICITANTE | Contenido técnico |
|-------------------------------|---------------------------|---|
| WO 2016191527 | THE PENN STATE RES FOUND | High temperature dielectric materials, method of manufacture thereof and articles comprising the same |
| WO 2016158245 | FUJIFILM CORP | Aluminum plate, and current collector for power storage device |
| WO 2016159330 | OJI HOLDINGS CORP | Biaxially stretched polypropylene film for capacitors, metallized film and capacitor |
| WO 2016161587 | LIN KECHUANG HUANG YI-JUI | Electrode material and energy storage apparatus |
| WO 2016157853 | PANASONIC IP MAN CO LTD | Contactless power supply device and contactless power supply system |
| WO 2016174870 | IKEDA AIRA IKEDA HINA | Hybrid capacitor battery |
| WO 2016189787 | DENSO CORP | Power control system |
| WO 2016186089 | CALSONIC KANSEI CORP | Power conversion device |

[...volver a CONTENIDO](#)

SISTEMAS DE RECUPERACIÓN DE ENERGÍA; FRENOS REGENERATIVOS

| Nº PUBLICACIÓN | SOLICITANTE | Contenido técnico |
|-------------------------------|-------------------------|---|
| WO 2016203227 | FOTHERGILL ALEXANDER | Drive assembly |
| WO 2016189671 | NISSAN MOTOR | Motor control device and method for stopping same |
| WO 2016162892 | IHIMER S P A | Gearmotor |

[...volver a CONTENIDO](#)

MÁQUINAS ELÉCTRICAS

| Nº PUBLICACIÓN | SOLICITANTE | Contenido técnico |
|-------------------------------|--|---|
| WO 2016199277 | HONDA MOTOR CO LTD | Internal-combustion engine starting device, vehicle, and internal-combustion engine starting method |
| WO 2016199276 | HONDA MOTOR CO LTD | Internal-combustion engine starting device, vehicle, and internal-combustion engine starting method |
| WO 2016199227 | NISSAN MOTOR | Mode transition control device for hybrid vehicle |
| WO 2016199275 | HONDA MOTOR CO LTD | Internal-combustion engine starting device, vehicle, and internal-combustion engine starting method |
| WO 2016199278 | HONDA MOTOR CO LTD | Internal-combustion engine starting device, vehicle, and internal-combustion engine starting method |
| WO 2016156472 | CONTINENTAL AUTOMOTIVE GMBH | Torque transfer device for electric machine rotor and electric machine thereof |
| WO 2016204670 | SCANIA CV AB | Arrangement for distributing oil in an electric machine |
| WO 2016156573 | CONTINENTAL AUTOMOTIVE GMBH | A motor for electric vehicles and the stator thereof |
| WO 2016163715 | PARK GYE JEUNG | Method for manufacturing tire structure having spikes coupled thereon |
| WO 2016171100 | NTN TOYO BEARING CO LTD | Two-motor vehicle drive device |
| WO 2016175121 | NIPPON STEEL & SUMITOMO METAL CORP | Non-oriented magnetic steel sheet |
| WO 2016174711 | MITSUBISHI ELECTRIC CORP | Rotating electric machine |
| WO 2016158928 | AISIN AW CO | Control device |
| WO 2016174920 | JATCO LTD NISSAN MOTOR | Displayed rotational speed control apparatus for vehicle |
| WO 2016181713 | AICHI MACHINE IND CO LTD | Power transmitting device and power outputting device with same |
| WO 2016158455 | AUTONETWORKS TECHNOLOGIES LTD SUMITOMO WIRING SYSTEMS SUMITOMO ELECTRIC INDUSTRIES | Exterior wire harness |
| WO 2016162920 | MITSUBISHI ELECTRIC CORP | Rotary electric machine |
| WO 2016194941 | HITACHI CONSTRUCTION MACH CO | Working machine |
| WO 2016158336 | SUMITOMO ELECTRIC SINTERED ALLOY LTD | Molded body heat treatment method, and powder magnetic core |
| WO 2016167168 | MITSUBA CORP | Brushless wiper motor |
| WO 2016159343 | KK F C C | Power transmission device for hybrid vehicles |
| WO 2016175221 | AISIN SEIKI | Vehicle control apparatus |
| WO 2016159241 | AISIN AW CO | Control apparatus |
| WO 2016158521 | AISIN AW CO | Control device |
| WO 2016159120 | AISIN AW CO | Control apparatus |
| WO 2016182117 | NEW MOTECH CO LTD | Stack structure of rotor core |

[...volver a CONTENIDO](#)

CONVERTIDORES, INVERSORES

| Nº PUBLICACIÓN | SOLICITANTE | CONTENIDO TÉCNICO |
|-------------------------------|-------------------------|---|
| WO 2016203227 | FOTHERGILL ALEXANDER | DRIVE ASSEMBLY |
| WO 2016189671 | NISSAN MOTOR | MOTOR CONTROL DEVICE AND METHOD FOR STOPPING SAME |
| WO 2016162892 | IHIMER S P A | GEARMOTOR |

[...volver a CONTENIDO](#)

RECARGA DE BATERÍAS

| Nº PUBLICACIÓN | SOLICITANTE | Contenido técnico |
|-------------------------------|--|---|
| WO 2016178184 | MARTIROSYAN SUREN GUILLONNET DIDIER | Partitioned zinc electrode |
| WO 2016170088 | BOMBARDIER PRIMOVE GMBH | A circuit arrangement and a method of operating a circuit arrangement for a system for inductive power transfer |
| WO 2016181336 | EFACEC ELECTRIC MOBILITY S A | Fast charging system for electric vehicles |
| WO 2016197229 | LIN CHUNSHENG | Method and system for monitoring operation of a household appliance |
| WO 2016194081 | NISSAN MOTOR | Charging control device and charging control method |
| WO 2016194859 | MITSUBISHI ELECTRIC CORP | Power conversion device and method for controlling power conversion device |
| WO 2016198103 | VOLVO TRUCK CORP | A method and system for optimizing the lifetime of an energy storage system |
| WO 2016159087 | GS YUASA INT LTD | Power storage element degradation estimator, power storage device, device for controlling input/output of power storage element, and method for controlling input/output of power storage element |
| WO 2016190032 | HITACHI AUTOMOTIVE SYSTEMS LTD | Power supply apparatus |
| WO 2016157405 | MITSUBISHI ELECTRIC CORP | Electricity storage device for vehicle |
| WO 2016159086 | GS YUASA INT LTD | Charging voltage controller for electricity storage element, electricity storage device, charging device for electricity storage element, and charging method for electricity storage element |
| WO 2016181495 | NISSAN MOTOR | Power supply system |
| WO 2016190456 | KOREA ADVANCED INST OF SCIENCE AND TECH (KAIST) | Mold type s-shaped power transfer module for on-line electric vehicle |
| WO 2016190252 | IHI CORP | Cooling system and contactless power supply system |
| WO 2016190132 | IHI CORP | System, method, and program for managing power transmission device |
| WO 2016158396 | HITACHI AUTOMOTIVE SYSTEMS LTD | Battery control device and electric vehicle system |
| WO 2016159861 | HÖGNELID KURT | System and method for providing electric energy |
| WO 2016162364 | MULTI-HOLDING AG | Actuation device |
| WO 2016167712 | TEXO APPLICATION AB | Automatic storage facility vehicles and method of providing power |
| WO 2016187213 | UNIV CALIFORNIA | Battery control methods and circuits, and energy storage to grid connection systems |

[...volver a CONTENIDO](#)

CAMBIO DE BATERÍAS

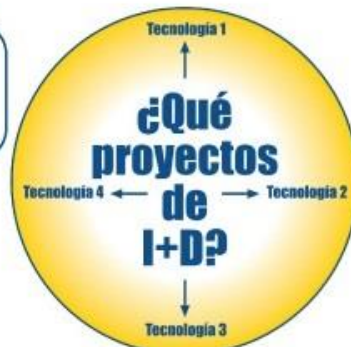
| Nº PUBLICACIÓN | SOLICITANTE | CONTENIDO TÉCNICO |
|-------------------------------|---|---|
| WO 2016198552 | BATTSWAP INC JANKU RADEK | BATTERY EXCHANGE SYSTEM |
| WO 2016188639 | PICCHIO S P A DI PIETRANTONIO FRANCESCO | LIFTING AND AUTOMATIC POSITIONING SYSTEM OF ELECTRIC VEHICLES FOR BATTERY SWAP |
| WO 2016169515 | POSITEC POWER TOOLS (SUZHOU) CO LTD | ELECTRIC VEHICLE ENERGY REPLENISHMENT SYSTEM, METHOD, AND DEVICE |

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LANZAMIENTO



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



EJECUCIÓN



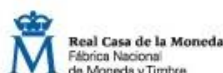
Los ITPs** de la OEPM detectaron solicitudes de patente relevantes cuando estábamos a mitad del proyecto y gracias a ello pudimos reconducir nuestra investigación.



CONCLUSIÓN



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



* 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.