

### Noticias

Las grandes empresas energéticas se apuntan al carro de la movilidad eléctrica, a través del [desarrollo de las llamadas electrolineras](#), puntos de recarga más rápidos que los actuales que pretenden ser el futuro ante la imparable transición energética. Iberdrola, Endesa y Repsol se han volcado en el diseño de infraestructuras de recarga para dar mucha mayor autonomía al vehículo enchufado. En esa misma línea la petrolera BP ha anunciado la [inversión de 20 millones de dólares](#) en StoreDot, compañía especializada en la innovación de baterías y materiales, con el objetivo de impulsar la adopción de vehículos eléctricos en todo el mundo.

Las [matriculaciones de vehículos eléctricos](#) en España se situaron en los seis primeros meses del año en 6.890 unidades, lo que representa un incremento del 123% respecto al mismo periodo del pasado año, según datos de la Asociación Empresarial para el Desarrollo e Impulso del Vehículo Eléctrico (Aedive). Madrid y Barcelona lideran el ranking de compra de vehículos eléctricos, tanto en su versión de eléctricos puros como en los híbridos enchufables.

Recientemente se ha aprobado en el Pleno del Congreso el [plan para Vehículos de Energías Alternativas, conocido como Plan](#)

[VEA](#), destinado a promover e incentivar la movilidad sostenible mediante ayudas a la compra de vehículos impulsados por energías alternativas y financiando parte de la infraestructura necesaria para su funcionamiento, tales como estaciones de recarga. La partida total de ayudas contempladas dentro del Plan VEA es de 66,6 millones de euros, de los que 50 millones estarán destinados a ayudas a la compra, mientras que los 16,6 millones restantes se destinarán a infraestructuras de movilidad sostenible gestionados por el Ministerio de Industria.

El [Ministerio de Industria](#) se ha comprometido con los fabricantes para lograr una transición ordenada hacia el vehículo alternativo y así cumplir con las exigentes restricciones de emisiones de la Unión Europea. La ministra Reyes Maroto expresó el compromiso de las Administraciones con el impulso de las energías alternativas e insistió en la oportunidad que representa la reducción de emisiones en las ciudades.

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[BOLETINES OEPM](#)

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- **TECNOLOGÍAS VEHICULARES**
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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
<a href="#">WO 2018081818</a>	JOHNSON CONTROLS TECH CO	Model predictive battery power limit estimation systems and methods
<a href="#">WO 2018077637</a>	BOSCH GMBH ROBERT LITHIUM ENERGY & POWER GMBH & CO KG	Battery cell having a structured active material
<a href="#">WO 2018082989</a>	FREDY DOLL BETEILIGUNGS GMBH	Motor vehicle battery module, motor vehicle having an electric drive motor and a battery module, and method for producing a motor vehicle battery module and a motor vehicle
<a href="#">WO 2018082878</a>	BOSCH GMBH ROBERT	Battery cell
<a href="#">WO 2018087681</a>	JOHNSON CONTROLS TECH CO	Battery pack with gas discharging passage
<a href="#">WO 2018095725</a>	BOSCH GMBH ROBERT	Battery unit for a vehicle with a separate communication unit
<a href="#">WO 2018095726</a>	BOSCH GMBH ROBERT	System and method for storing a battery
<a href="#">WO 2018106093</a>	LG CHEMICAL LTD	Flexible secondary cell
<a href="#">WO 2018103979</a>	BOSCH GMBH ROBERT	Battery and method for producing a battery
<a href="#">WO 2018105957</a>	SAMSUNG SDI CO LTD	Attachable/detachable battery component carrier, battery system comprising attachable/detachable battery component carrier, and automobile comprising battery system
<a href="#">WO 2018110133</a>	HITACHI LTD	Secondary battery electrode, secondary battery, and method for producing same
<a href="#">WO 2018083431</a>	MICHELIN & CIE	Unitary module for a battery pack, and battery pack
<a href="#">WO 2018089430</a>	FISKER INC	All-solid state li ion batteries comprising mechanically flexible ceramic electrolytes and manufacturing methods for the same
<a href="#">WO 2018103946</a>	BOSCH GMBH ROBERT	Method, machine-readable storage medium and electronic control unit for operating an electrical energy storage system, and corresponding electrical energy storage system
<a href="#">WO 2018110655</a>	NISSAN MOTOR	Secondary battery electrode, and secondary battery
<a href="#">WO 2018077543</a>	BOSCH GMBH ROBERT	Method, device, and system for evaluating a traction battery
<a href="#">WO 2018078024</a>	TOTAL MARKETING SERVICES	Use of biodegradable hydrocarbon fluids in electric vehicles
<a href="#">WO 2018082871</a>	BOSCH GMBH ROBERT LITHIUM ENERGY & POWER GMBH & CO KG	Energy storage device
<a href="#">WO 2018087679</a>	JOHNSON CONTROLS TECH CO	Battery pack with housing made of two materials
<a href="#">WO 2018093712</a>	INEVIT LLC	Non-welding joinder of exterior plates of a battery module
<a href="#">WO 2018095845</a>	EMPA EIDGENOESSISCHE MAT UND FORSCHUNGSANSTALT	Li-ion based electrochemical energy storage cell
<a href="#">WO 2018099561</a>	VOLVO TRUCK CORP	A method and system for controlling a battery in a vehicle
<a href="#">WO 2018102209</a>	NANOTEK INSTRUMENTS INC	Graphene-protected lead acid batteries
<a href="#">WO 2018104051</a>	BOSCH GMBH ROBERT	Device and method for forming waved corner sealed joints in layered sheet material
<a href="#">WO 2018105067</a>	HITACHI CHEMICAL CO LTD	Lead acid storage battery
<a href="#">WO 2018105964</a>	LG CHEMICAL LTD	Folding device for manufacturing electrode assembly and method for manufacturing stack/folding type electrode assembly
<a href="#">WO 2018103829</a>	VOLVO TRUCK CORP	A method of estimating a charge state for a battery cell
<a href="#">WO 2018106026</a>	SK INNOVATION CO LTD	Secondary battery module

<a href="#">WO 2018108728</a>	LITHIUM ENERGY & POWER GMBH & CO KG	Battery
<a href="#">WO 2018117049</a>	CALSONIC KANSEI CORP	Battery pack
<a href="#">WO 2018077549</a>	PIERBURG GMBH	Drive system for an electrically driven motor vehicle
<a href="#">WO 2018083432</a>	COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES	Electrolytes containing a specific additive of the ionic liquid type for lithium batteries
<a href="#">WO 2018099566</a>	VOLVO TRUCK CORP	A method for balancing an electrical energy storage module
<a href="#">WO 2018099955</a>	DEUTSCHES ZENTRUM FUER LUFT UND RAUMFAHRT E V CIDETEC	Secondary cell, accumulator comprising one or more secondary cells, and method for charging and discharging
<a href="#">WO 2018106207</a>	NEMCHYN ALEXANDR FEDOROVICH TODORASHKO GEORGII TIMOFEEVYCH KORBUT SERHEI NIKOLAEVICH	Method and heat pump for recovering heat energy
<a href="#">WO 2018105134</a>	HITACHI CHEMICAL CO LTD	Liquid lead-acid battery, method for charging/discharging liquid lead-acid battery, and power supply system
<a href="#">WO 2018105864</a>	LG CHEMICAL LTD	Battery pack and automobile comprising same battery pack
<a href="#">WO 2018105809</a>	LSIS CO LTD	Portable charger for electric car
<a href="#">WO 2018110395</a>	YAMAHA MOTOR CO LTD	Battery pack
<a href="#">WO 2018073807</a>	MAGNETI MARELLI SPA	Electric power system provided with a dual-voltage storage assembly for a vehicle
<a href="#">WO 2018091490</a>	BLUE SOLUTIONS	Analogue overall balancing system for an assembly of capacitive-effect electrical energy storage devices, rechargeable storage module, electric vehicle and electrical installation comprising such a system
<a href="#">WO 2018095728</a>	BOSCH GMBH ROBERT	Battery, a battery system and a method for exchanging at least one component of a battery
<a href="#">WO 2018099727</a>	BOSCH GMBH ROBERT LITHIUM ENERGY & POWER GMBH & CO KG	Method and circuit arrangement for pre-indication of dendrite formation in an electrode assembly of a battery cell and battery cell
<a href="#">WO 2018100297</a>	ARKEMA FRANCE UNIV DE TOURS FRANCOIS RABELAIS	Improving the ion conductivity of an electrolyte based on lithium imidazolate salts
<a href="#">WO 2018106015</a>	HYOSUNG COPORATION	Method and apparatus for estimating lifespan of battery
<a href="#">WO 2018111446</a>	BENDIX COMMERCIAL VEHICLE SYSTEMS LLC	Front end motor-generator system and hybrid electric vehicle operating method
<a href="#">WO 2018111453</a>	BENDIX COMMERCIAL VEHICLE SYSTEMS LLC	Driver break preparation system for a hybrid vehicle
<a href="#">WO 2018115024</a>	FORTU NEW BATTERY TECH GMBH	Electrode separator element comprising a ceramic separator layer
<a href="#">WO 2018087680</a>	JOHNSON CONTROLS TECH CO	Battery pack with two end plates
<a href="#">WO 2018099730</a>	BOSCH GMBH ROBERT LITHIUM ENERGY & POWER GMBH & CO KG	Electrode assembly for a battery cell and battery cell
<a href="#">WO 2018103604</a>	ZHENGZHOU YUTONG BUS CO LTD	Power output control method and device, and power feedback control method and device
<a href="#">WO 2018105981</a>	SAMSUNG SDI CO LTD	Removable battery component carrier, battery system including removable battery component carriers and vehicle including the battery system
<a href="#">WO 2018106054</a>	SAMSUNG SDI CO LTD	Secondary battery
<a href="#">WO 2018110232</a>	SANYO ELECTRIC CO	Electrical equipment battery for vehicles
<a href="#">WO 2018111468</a>	BENDIX COMMERCIAL VEHICLE SYSTEMS LLC	Front end motor-generator system and hybrid electric vehicle operating method
<a href="#">WO 2018110444</a>	CIP SOFTWARE CORP	Magnesium air battery capable of long-term power supply and electronic machine

<a href="#">WO 2018062226</a>	HITACHI AUTOMOTIVE SYSTEMS LTD	Battery module, and battery pack
<a href="#">WO 2018062844</a>	LG CHEMICAL LTD	Lithium secondary battery negative electrode including protection layer made of conductive fabric, and lithium secondary battery including same
<a href="#">WO 2018066792</a>	LG CHEMICAL LTD	Battery protection system and method
<a href="#">WO 2018068663</a>	GRST INTERNATIONAL LTD	Anode slurry for lithium ion battery
<a href="#">WO 2018069434</a>	BAYERISCHE MOTOREN WERKE AG	Battery cell comprising a temperature sensor
<a href="#">WO 2018074773</a>	SAMSUNG SDI CO LTD	Secondary battery
<a href="#">WO 2018080182</a>	SAMSUNG SDI CO LTD	Battery module
<a href="#">WO 2018080071</a>	SAMSUNG SDI CO LTD	Electrode for lithium secondary battery and lithium secondary battery comprising same
<a href="#">WO 2018080033</a>	SAMSUNG SDI CO LTD	Battery module having fixing structure for temperature sensor
<a href="#">WO 2018079164</a>	HITACHI AUTOMOTIVE SYSTEMS LTD	Battery control device
<a href="#">WO 2018079190</a>	MURATA MANUFACTURING CO	Positive electrode material, positive electrode, cell, cell pack, electronic device, electric vehicle, electric storage device, and electric power system
<a href="#">WO 2018084320</a>	NISSAN MOTOR	Positive electrode for lithium-ion battery, and lithium-ion battery
<a href="#">WO 2018087928</a>	HITACHI CHEMICAL CO LTD	Negative electrode material for lithium ion secondary battery, negative electrode for lithium ion secondary battery, and lithium ion secondary battery
<a href="#">WO 2018088685</a>	SAMSUNG SDI CO LTD	Battery pack
<a href="#">WO 2018088320</a>	HONDA MOTOR CO LTD	Electrode for nonaqueous electrolyte secondary batteries, and nonaqueous electrolyte secondary battery provided with same
	NICHIA CORP	
<a href="#">WO 2018093032</a>	LG CHEMICAL LTD	Lithium-sulfur battery
<a href="#">WO 2018097330</a>	DAINIPPON PRINTING CO LTD	Battery packaging material, production method thereof, and battery
<a href="#">WO 2018097451</a>	LG CHEMICAL LTD	Positive electrode active material particles each comprising core containing lithium cobalt oxide and shell containing lithium cobalt phosphate and method for manufacturing same
<a href="#">WO 2018109055</a>	REINZ DICHTUNG GMBH	Housing cover and housing having connection point
<a href="#">WO 2018062202</a>	TOSHIBA KK TOSHIBA INFRASTRUCTURE SYSTEMS & SOLUTIONS CORP	Nonaqueous electrolyte battery and battery pack
<a href="#">WO 2018061457</a>	HITACHI AUTOMOTIVE SYSTEMS LTD	Lithium ion secondary cell
<a href="#">WO 2018079950</a>	OH TERESA	Bidirectional transistor and leakage current breaker using same
<a href="#">WO 2018079423</a>	SANYO ELECTRIC CO	Polygonal secondary battery
<a href="#">WO 2018080183</a>	SAMSUNG SDI CO LTD	Battery system and electric vehicle comprising same
<a href="#">WO 2018080080</a>	SAMSUNG SDI CO LTD	Secondary battery
<a href="#">WO 2018088735</a>	LG CHEMICAL LTD	Anode and method for fabricating same
<a href="#">WO 2018087970</a>	MURATA MANUFACTURING CO	Solid battery, method for manufacturing solid battery, battery pack, vehicle, electricity storage system, electric tool, and electronic apparatus
<a href="#">WO 2018090179</a>	CONTEMPORARY AMPEREX TECH CO LIMITED	Secondary battery
<a href="#">WO 2018096821</a>	DENSO CORP	Vehicle cruise control device
<a href="#">WO 2018097054</a>	SHOWA DENKO PACKAGING CO LTD	Power storage device exterior case and production method therefor
	SHOWA DENKO KK	
<a href="#">WO 2018096972</a>	AIST TANAKA CHEMICAL CORP NEC CORP	Lithium-manganese complex oxide and method for producing same
<a href="#">WO 2018101618</a>	LG CHEMICAL LTD	Battery cell-degassing device

<a href="#">WO 2018101808</a>	SAMSUNG SDI CO LTD	Nickel active material precursor for lithium secondary battery, method for producing nickel active material precursor, nickel active material for lithium secondary battery produced by method, and lithium secondary battery having cathode containing nickel active material
<a href="#">WO 2018065473</a>	ACCUMULATEURS FIXES	Battery
<a href="#">WO 2018069799</a>	SEMICONDUCTOR ENERGY LAB	Positive electrode active material particle and manufacturing method of positive electrode active material particle
<a href="#">WO 2018074752</a>	LG CHEMICAL LTD	Battery pack
<a href="#">WO 2018080010</a>	LG CHEMICAL LTD	Battery pack having battery edge surface to which direct cooling method is applied
<a href="#">WO 2018080022</a>	LG CHEMICAL LTD	Vehicle battery pack and automobile comprising same
<a href="#">WO 2018080237</a>	RENAULT SAMSUNG MOTORS CO LTD	Battery charge control device and method for electric vehicle to adjust charge termination time according to state of charge of battery
<a href="#">WO 2018081639</a>	INEVIT LLC	Battery module endplate with sealed hole for cooling tube connection
<a href="#">WO 2018083657</a>	TE CONNECTIVITY CORP TYCO ELECTRONICS JAPAN G K	Connector assembly for a battery system
<a href="#">WO 2018084442</a>	LG CHEMICAL LTD	Battery pack including tray stopper for blocking pack cover from springing back
<a href="#">WO 2018084501</a>	LG CHEMICAL LTD	Battery pack
<a href="#">WO 2018084563</a>	SAMSUNG SDI CO LTD	Secondary battery
<a href="#">WO 2018088058</a>	TOPPAN PRINTING CO LTD	Laminate green sheet, laminate sintered body, and all-solid secondary battery, and production method therefor
<a href="#">WO 2018086095</a>	SHANGHAI DINHO NEW MATERIAL TECH CO LTD	Multi-layered composite functional separator for lithium-ion battery
<a href="#">WO 2018088577</a>	WOLVERINE KOREA CO LTD	Gasket for lithium ion battery pack
<a href="#">WO 2018092434</a>	MURATA MANUFACTURING CO	All-solid-state battery, electronic device, electronic card, wearable device, and electric vehicle
<a href="#">WO 2018093038</a>	LG CHEMICAL LTD	Battery module, and battery pack comprising same
<a href="#">WO 2018097536</a>	LG CHEMICAL LTD	Battery management apparatus
<a href="#">WO 2018097555</a>	LG CHEMICAL LTD	Pretreatment method for lithium electrode, and lithium metal battery
<a href="#">WO 2018101806</a>	SAMSUNG SDI CO LTD	Nickel active material precursor for lithium secondary battery, method for producing nickel active material precursor, nickel active material for lithium secondary battery produced by method, and lithium secondary battery having cathode containing nickel active material
<a href="#">WO 2018101702</a>	RENAULT SAMSUNG MOTORS CO LTD	Electric vehicle charging system capable of inter-vehicle charging
<a href="#">WO 2018101619</a>	LG CHEMICAL LTD	Battery cell-degassing device
<a href="#">WO 2018067565</a>	JOHNSON CONTROLS TECH CO ZHANG ZHENLI JIN ZHIHONG H WYATT PERRY M	State of charge dependent plating estimation and prevention
<a href="#">WO 2018070703</a>	LG CHEMICAL LTD	Multilayer anode having, in each layer, different amounts of binder and different active material grain size, and lithium secondary battery comprising same
<a href="#">WO 2018070302</a>	TOYO KOHAN CO LTD	Current collector for battery, and battery
<a href="#">WO 2018080181</a>	SAMSUNG SDI CO LTD	Connector for printed circuit board and battery system comprising printed circuit board and connector
<a href="#">WO 2018080087</a>	SAMSUNG SDI CO LTD	Battery system comprising real-time clock to which power is supplied internally, and power supply circuit for real-time clock
<a href="#">WO 2018083932</a>	CALSONIC KANSEI CORP UNIV KEIO	Charging rate estimation device and charging rate estimation method
<a href="#">WO 2018087131</a>	JAGUAR LAND ROVER LTD	Battery support arrangement

<a href="#">WO 2018088311</a>	MAXELL HOLDINGS LTD	Negative electrode for non-aqueous-electrolyte-based electrochemical element, method for manufacturing said electrode, lithium-ion secondary cell, and method for manufacturing said cell
<a href="#">WO 2018090180</a>	CONTEMPORARY AMPEREX TECH CO LIMITED	Secondary battery
<a href="#">WO 2018092677</a>	KUREHA CORP	Electrode mix, method for producing electrode mix, electrode structure, method for producing electrode structure, and secondary battery
<a href="#">WO 2018093059</a>	KOREA INSTITUTE OF INDUSTRIAL TECH	High ion conductive solid electrolyte for all-solid state battery and method for preparing same
<a href="#">WO 2018101072</a>	PANASONIC IP MAN CO LTD	Negative electrode material and nonaqueous electrolyte secondary battery
<a href="#">WO 2018101474</a>	ASAHI CHEMICAL IND	Inorganic particles for nonaqueous electrolyte battery
<a href="#">WO 2018101501</a>	KLINEX & COMPANY INC	System and method for electric vehicle charging service
<a href="#">WO 2018061551</a>	DENSO CORP	Equipment temperature adjusting apparatus
<a href="#">WO 2018062338</a>	SANYO ELECTRIC CO	Angular secondary battery and method for manufacturing same
<a href="#">WO 2018066931</a>	LG CHEMICAL LTD	Anode for lithium metal secondary battery and lithium metal secondary battery comprising same
<a href="#">WO 2018066633</a>	AIST TANAKA CHEMICAL CORP NEC CORP	Titanium- and/or germanium-substituted lithium manganese composite oxide and method for producing same
<a href="#">WO 2018065438</a>	JOHNSON CONTROLS ADVANCED POWER SOLUTIONS GMBH	Energy storage system
<a href="#">WO 2018071762</a>	INEVIT INC	Battery module compartment chamber and battery module mounting area of an energy storage system and method thereof
<a href="#">WO 2018074442</a>	MITSUBISHI PAPER MILLS LTD	Separator for electrochemical elements, and electrochemical element comprising same
<a href="#">WO 2018075219</a>	NANOTEK INSTRUMENTS INC	Battery having a low output voltage
<a href="#">WO 2018088691</a>	SAMSUNG SDI CO LTD	Battery pack
<a href="#">WO 2018088424</a>	DAIICHI KIGENSO KAGAKU KOGYO NATIONAL INSTITUTE OF TECH	Lithium-containing zirconium phosphate, calcined powder of same, and method for producing sintered body
<a href="#">WO 2018088127</a>	SANDEN AUTOMOTIVE CLIMATE SYSTEMS CORP	Accumulator
<a href="#">WO 2018092468</a>	MURATA MANUFACTURING CO	Secondary battery electrolyte, secondary battery, battery pack, electric vehicle, electrical power storage system, power tool, and electronic device
<a href="#">WO 2018095415</a>	ZHENGZHOU YUTONG BUS CO LTD	Battery voltage-based battery protection method and device
<a href="#">WO 2018097191</a>	SUMITOMO METAL MINING CO TOYOTA JIDOSHA KABUSIKI KAISHA	Positive electrode active substance for nonaqueous electrolyte secondary cell, and nonaqueous electrolyte secondary cell
<a href="#">WO 2018101725</a>	LG CHEMICAL LTD	Cleaning device, provided with cleaning roll, for protective film for battery cell production
<a href="#">WO 2018101695</a>	SAMSUNG SDI CO LTD	Wall structure of battery cell, battery sub-module, battery module, or battery system
<a href="#">WO 2018107140</a>	FEASIBLE INC	Nonlinear acoustic resonance spectroscopy (nars) for determining physical conditions of batteries
<a href="#">WO 2018066960</a>	LG CHEMICAL LTD	Separation film for lithium ion secondary battery, and lithium ion secondary battery including same
<a href="#">WO 2018066968</a>	LG CHEMICAL LTD	Electrode assembly having improved heat stability
<a href="#">WO 2018066729</a>	PMGROW CORP	Battery management system and battery module assembly comprising same
<a href="#">WO 2018070941</a>	AGENCY FOR SCIENCE TECH AND RESEARCH	A polymer composition
<a href="#">WO 2018080002</a>	SAMSUNG SDI CO LTD	Battery pack
<a href="#">WO 2018080280</a>	LG CHEMICAL LTD	Battery pack

<a href="#">WO 2018079391</a>	PANASONIC IP MAN CO LTD	Non-aqueous electrolyte secondary cell
<a href="#">WO 2018079970</a>	SAMSUNG ELECTRONICS CO LTD	Charging apparatus for electric vehicle and charging control method for electric vehicle
<a href="#">WO 2018084319</a>	NISSAN MOTOR	Negative electrode for lithium-ion battery, and lithium-ion battery
<a href="#">WO 2018094303</a>	MOSSEY CREEK TECH INC	Thixotropic nanoparticle silicon anodes and deoxygenated lithium metal oxide cathodes
<a href="#">WO 2018090853</a>	NIO NEXTEV LTD	Electric vehicle controller
<a href="#">WO 2018100815</a>	ASAHI CHEMICAL IND	Nonaqueous electrolyte battery inorganic particles, and nonaqueous electrolyte battery using these
<a href="#">WO 2018101809</a>	SAMSUNG SDI CO LTD	Nickel active material precursor for lithium secondary battery, method for producing nickel active material precursor, nickel active material for lithium secondary battery produced by method, and lithium secondary battery having cathode containing nickel active material
<a href="#">WO 2018101807</a>	SAMSUNG SDI CO LTD	Nickel active material precursor for lithium secondary battery, method for producing nickel active material precursor, nickel active material for lithium secondary battery produced by method, and lithium secondary battery having cathode containing nickel active material
<a href="#">WO 2018062046</a>	FUJIFILM CORP	Aluminum member for electrodes and method for producing aluminum member for electrodes
<a href="#">WO 2018061478</a>	HITACHI AUTOMOTIVE SYSTEMS LTD	Lithium ion secondary battery
<a href="#">WO 2018093194</a>	SAMSUNG SDI CO LTD	Secondary battery, electrode assembly and method for manufacturing electrode assembly
<a href="#">WO 2018097250</a>	AIST	Electrode active material for nonaqueous secondary batteries, and nonaqueous secondary battery using same
<a href="#">WO 2018097429</a>	POSCO ES MAT CO LTD	Lithium titanium composite oxide, preparation method therefor, and lithium secondary battery comprising same
<a href="#">WO 2018097136</a>	SUMITOMO METAL MINING CO	Transition metal-containing composite hydroxide and production method thereof, and production method of positive electrode active substance for non-aqueous electrolyte secondary battery
<a href="#">WO 2018097500</a>	LG CHEMICAL LTD	Battery pack comprising gasket compression limiter
<a href="#">WO 2018062920</a>	LG CHEMICAL LTD	Method for sealing pouch case of secondary battery
<a href="#">WO 2018059074</a>	HUAWEI TECH CO LTD	Detection method and device for micro short circuit of battery
<a href="#">WO 2018070116</a>	DENSO CORP	Cooling device
<a href="#">WO 2018070684</a>	LG CHEMICAL LTD	Diagnostic device and power supply system comprising same
<a href="#">WO 2018074174</a>	HITACHI LTD	Lithium secondary battery
<a href="#">WO 2018074807</a>	LG CHEMICAL LTD	Method and system for effective battery cell balancing through duty control
<a href="#">WO 2018074538</a>	GS YUASA INT LTD	Vehicle power storage device, vehicle discharge system, discharge control method, and vehicle power storage element
<a href="#">WO 2018074744</a>	LG CHEMICAL LTD	Device and method for diagnosing switch using voltage distribution
<a href="#">WO 2018084439</a>	SAMSUNG SDI CO LTD	Battery system
<a href="#">WO 2018094464</a>	UNIV MONASH	Lithium-sulfur energy storage cell and hybrid cell having capacitive energy storage and discharge capability
<a href="#">WO 2018097137</a>	SUMITOMO METAL MINING CO	Transition metal-containing composite hydroxide and production method thereof, positive electrode active substance for non-aqueous electrolyte secondary battery and production method thereof, and non-aqueous electrolyte secondary battery
<a href="#">WO 2018066672</a>	DAINIPPON PRINTING CO LTD	Packaging material for battery, manufacturing method therefor, and battery
<a href="#">WO 2018066928</a>	LG CHEMICAL LTD	Cathode active material for secondary battery and secondary battery comprising same
<a href="#">WO 2018068819</a>	KAERCHER GMBH & CO KG ALFRED	Electric energy storage device and electric device
<a href="#">WO 2018071829</a>	INEVIT LLC	Optical communications interface for battery modules of an energy storage system
<a href="#">WO 2018074363</a>	HITACHI LTD	Power storage cell system
<a href="#">WO 2018074846</a>	SAMSUNG SDI CO LTD	Secondary battery
<a href="#">WO 2018084252</a>	NISSAN MOTOR	Electrode for cell, and cell



<a href="#">WO 2018088090</a>	MURATA MANUFACTURING CO	Electrolyte solution for secondary batteries, secondary battery, battery pack, electric vehicle, electrical energy storage system, electric tool and electronic device
<a href="#">WO 2018090768</a>	HUAWEI TECH CO LTD	Charge and discharge device
<a href="#">WO 2018097695</a>	LG CHEMICAL LTD	Cathode active material for lithium-sulfur battery, comprising metal sulfide nanoparticles, and method for producing same
<a href="#">WO 2018108714</a>	LITHIUM ENERGY & POWER GMBH & CO KG	Method for monitoring a discharge device of a battery
<a href="#">WO 2018061761</a>	AUTONETWORKS TECHNOLOGIES LTD SUMITOMO WIRING SYSTEMS SUMITOMO ELECTRIC INDUSTRIES	Electricity storage module
<a href="#">WO 2018075538</a>	UNIV ILLINOIS	Protected anodes and methods for making and using same
<a href="#">WO 2018074842</a>	SAMSUNG SDI CO LTD	Secondary battery and module for same
<a href="#">WO 2018084514</a>	SAMSUNG SDI CO LTD	Secondary battery
<a href="#">WO 2018088798</a>	LG CHEMICAL LTD	Battery cell comprising tap and lead which have compact coupling structure
<a href="#">WO 2018097316</a>	MURATA MANUFACTURING CO	Negative electrode, battery, battery pack, electronic device, electric vehicle, electric storage device, and electric power system
<a href="#">WO 2018095646</a>	BOSCH GMBH ROBERT	Active material for a positive electrode of a battery cell, positive electrode, and battery cell
<a href="#">WO 2018096999</a>	AIST	Lithium-manganese complex oxide and method for producing same
<a href="#">WO 2018061375</a>	SHOWA DENKO PACKAGING CO LTD	Packaging material, and method for producing same
<a href="#">WO 2018062231</a>	HITACHI AUTOMOTIVE SYSTEMS LTD	Square-shaped secondary battery
<a href="#">WO 2018066728</a>	PMGROW CORP	Method and device for suppressing combustion inside battery pack
<a href="#">WO 2018070373</a>	CALSONIC KANSEI CORP	Assembled battery
<a href="#">WO 2018072024</a>	HYDRO QUEBEC	Sulphamic acid derivatives and production methods thereof
<a href="#">WO 2018081224</a>	UNIV MICHIGAN REGENTS	Metal infiltrated electrodes for solid state batteries
<a href="#">WO 2018084843</a>	FORD MOTOR CO	Renewable energy vehicle charging
<a href="#">WO 2018097743</a>	OBCESTVO S OGRANICHENNOJ OTVETSTVENNOSTJU SMARTER SHVED ANDREJ ALEKSANDROVICH	Method for controlling an energy storage device of a transport vehicle
<a href="#">WO 2018066670</a>	DAINIPPON PRINTING CO LTD	Packaging material for battery, manufacturing method thereof, and battery
<a href="#">WO 2018066163</a>	TOYO TIRE & RUBBER CO	Method for producing flexible permanent magnet, flexible permanent magnet, deformation detection sensor, and deformation detection method
<a href="#">WO 2018097329</a>	DAINIPPON PRINTING CO LTD	Packaging material for batteries, method for producing same, and battery
<a href="#">WO 2018096966</a>	DENSO CORP	Power supply device
<a href="#">WO 2018097594</a>	LG CHEMICAL LTD	Positive electrode for secondary battery, method for manufacturing same and lithium secondary battery comprising same
<a href="#">WO 2018097519</a>	SK CHEMICALS CO LTD	Electrolyte solution for secondary battery and secondary battery comprising same
<a href="#">WO 2018093214</a>	LG CHEMICAL LTD	Separator and electrochemical element comprising same
<a href="#">WO 2018071840</a>	INEVIT LLC	Battery junction box housing configured to direct crash forces in an electric vehicle

<a href="#">WO 2018096931</a>	AUTONETWORKS TECHNOLOGIES LTD SUMITOMO WIRING SYSTEMS SUMITOMO ELECTRIC INDUSTRIES	Wiring module
<a href="#">WO 2018087682</a>	JOHNSON CONTROLS TECH CO	Battery pack
<a href="#">WO 2018097523</a>	SK CHEMICALS CO LTD	Electrolyte solution for secondary battery and secondary battery comprising same
<a href="#">WO 2018066110</a>	NEC CORP	Spacer Included Electrodes Structure and Its Application for High Energy Density and Fast Chargeable Lithium Ion Batteries
<a href="#">WO 2018066162</a>	TOYO TIRE & RUBBER CO	Method for producing flexible permanent magnet, flexible permanent magnet, deformation detection sensor, and deformation detection method
<a href="#">WO 2018071825</a>	INEVIT LLC	Cylindrical battery cell configured with insulation component, and battery module containing the same

[...volver a CONTENIDO](#)

## SUPERCONDENSADORES

Nº PUBLICACIÓN	SOLICITANTE	Contenido técnico
<a href="#">WO 2018072829</a>	BOSCH GMBH ROBERT	Energy storage devices and methods for controlling an energy storage device
<a href="#">WO 2018087446</a>	RENAULT SAS NISSAN MOTOR	Method for controlling a three-phase rectifier for a charging device on board an electric or hybrid vehicle
<a href="#">WO 2018065927</a>	VALEO JAPAN CO LTD BERTRAND MATHIEU SACCO ERNESTO NAIM ALDO	Circuit for discharging a high-voltage electrical system
<a href="#">WO 2018075793</a>	SAN DIEGO STATE UNIV RESEARCH FOUNDATION	Methods and circuitry for fault detection and automatic equalizers for battery packs

[...volver a CONTENIDO](#)

## SISTEMAS DE RECUPERACIÓN DE ENERGÍA; FRENOS REGENERATIVOS

Nº PUBLICACIÓN	SOLICITANTE	Contenido técnico
<a href="#">WO 2018110242</a>	DENSO CORP	Control device for rotating electrical machine, and rotating electrical machine system
<a href="#">WO 2018087040</a>	MAGNA STEYR FAHRZEUGTECHNIK AG & CO KG	Motor vehicle comprising a generator and a generator controller
<a href="#">WO 2018105150</a>	SHIRAI MASAO	Gravity-based power generation system
<a href="#">WO 2018088110</a>	DENSO CORP	Drive system
<a href="#">WO 2018060077</a>	FRANCESHELLI ROMANO	Device for converting mechanical energy into electric power
<a href="#">WO 2018096784</a>	DENSO CORP	Auxiliary machine device and air-conditioning system
<a href="#">WO 2018061400</a>	HITACHI LTD	Combined power storage system
<a href="#">WO 2018066625</a>	DENSO CORP	Rotary electric machine control device
<a href="#">WO 2018096218</a>	NORMET OY	Method and arrangement for actuating power pack
<a href="#">WO 2018086218</a>	HUAWEI TECH CO LTD	Method and device for recovering vehicle braking energy
<a href="#">WO 2018061047</a>	I E T S P A	Motor vehicle with simulator of performance of a mechanical gearbox
<a href="#">WO 2018073682</a>	HUYNH CONG NHAN	Energy storage device

[...volver a CONTENIDO](#)

## MÁQUINAS ELÉCTRICAS

Nº PUBLICACIÓN	SOLICITANTE	Contenido técnico
<a href="#">WO 2018091163</a>	VOLKSWAGEN AG	Wave winding coil for a stator laminated core of an electrical machine
<a href="#">WO 2018105407</a>	DENSO CORP	Dynamo-electric machine control device
<a href="#">WO 2018091307</a>	BAYERISCHE MOTOREN WERKE AG	Pyrotechnic switch and intermediate circuit discharge system
<a href="#">WO 2018110197</a>	NTN TOYO BEARING CO LTD	Drive module
<a href="#">WO 2018078560</a>	FRENI BREMBO SPA	Electronic system for controlling traction and braking of a vehicle and related method
<a href="#">WO 2018082973</a>	JAGUAR LAND ROVER LTD	Cooling of an electrical machine
<a href="#">WO 2018104965</a>	KUMAR MAINI CHETAN	Battery swapping systems and methods
<a href="#">WO 2018073027</a>	BAYERISCHE MOTOREN WERKE AG	Fastening device for an electric motor vehicle drive unit
<a href="#">WO 2018080996</a>	MICROCHIP TECH INC	Closed loop flux weakening for permanent magnet synchronous motors
<a href="#">WO 2018072013</a>	DYNACIRCUMOTION LTD	Rotatable electric machines
<a href="#">WO 2018078890</a>	NTN TOYO BEARING CO LTD	In-wheel motor drive device
<a href="#">WO 2018079359</a>	HITACHI AUTOMOTIVE SYSTEMS LTD	Motor control device
<a href="#">WO 2018061578</a>	KOMATSU MFG CO LTD	Power transmission device for work vehicle
<a href="#">WO 2018079059</a>	JFE STEEL CORP	Nonoriented electromagnetic steel sheet and method for producing same
<a href="#">WO 2018070055</a>	NTN TOYO BEARING CO LTD	In-wheel motor drive device
<a href="#">WO 2018098567</a>	TM4 INC	Electric machine provided with an enclosed cooling assembly paired to an open cooling assembly
<a href="#">WO 2018101402</a>	HITACHI METALS LTD	R-b sintered magnet and production method therefor
<a href="#">WO 2018087882</a>	MITSUBISHI ELECTRIC CORP	Dynamo-electric machine
<a href="#">WO 2018102428</a>	CUMMINS INC	Systems and methods for controlling a hybrid engine system
<a href="#">WO 2018101239</a>	SHINETSU CHEMICAL CO	R-fe-b sintered magnet and production method therefor
<a href="#">WO 2018078379</a>	WILLIAMS ADVANCED ENGINEERING LTD	A heating and cooling system for an electric vehicle
<a href="#">WO 2018077265</a>	BYD CO LTD	Power train system and vehicle having same
<a href="#">WO 2018083810</a>	NTN TOYO BEARING CO LTD	In-wheel motor drive device
<a href="#">WO 2018070057</a>	NTN TOYO BEARING CO LTD	In-wheel motor drive device and speed reduction device
<a href="#">WO 2018083808</a>	NTN TOYO BEARING CO LTD	In-wheel motor drive device
<a href="#">WO 2018086679</a>	GKN AUTOMOTIVE LTD	Engine gearbox assembly for a motor vehicle and method for producing an engine gearbox assembly
<a href="#">WO 2018092027</a>	TVS MOTOR CO LTD	Control system for assisting an internal combustion engine
<a href="#">WO 2018087689</a>	TVS MOTOR CO LTD	An electrical machine with a stator having multiple sections winding coil and switch combinations
<a href="#">WO 2018062656</a>	HANON SYSTEMS	Bldc motor
<a href="#">WO 2018093108</a>	C STONE TECH CO LTD	Triple clutch and actuator thereof
<a href="#">WO 2018071776</a>	INEVIT LLC	Contact plate including at least one bonding connector configured to establish electrical bonds to terminals of at least one group of battery cells in a battery module

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## CONVERTIDORES, INVERSORES

Nº PUBLICACIÓN	SOLICITANTE	Contenido técnico
<a href="#">WO 2018104177</a>	SIEMENS AG	Highly efficient power converter for three-phase systems
<a href="#">WO 2018105323</a>	DENSO CORP	Drive system
<a href="#">WO 2018072925</a>	BOSCH GMBH ROBERT	Power module
<a href="#">WO 2018095632</a>	BOSCH GMBH ROBERT	Protective device for an electric drive system, electric drive system, and method for operating an electric drive system
<a href="#">WO 2018110071</a>	HITACHI AUTOMOTIVE SYSTEMS LTD	Busbar structure and power conversion device using same
<a href="#">WO 2018091145</a>	PORSCHE AG	Control circuit
<a href="#">WO 2018105425</a>	SUMITOMO WIRING SYSTEMS	Wire harness protecting member
<a href="#">WO 2018078801</a>	mitsubishi electric corp	Vehicle power conversion device
<a href="#">WO 2018078705</a>	mitsubishi electric corp	Semiconductor device and method for manufacturing same
<a href="#">WO 2018090772</a>	BYD CO LTD	Load controller and electric vehicle having the load controller
<a href="#">WO 2018099467</a>	BYD CO LTD	Electric vehicle, dc-dc convertor, and control method for dc-dc convertor
<a href="#">WO 2018066441</a>	DENSO CORP	Control device for rotary electric machine
<a href="#">WO 2018079141</a>	PANASONIC IP MAN CO LTD	Heat-dissipating structure and onboard power supply device using same
<a href="#">WO 2018097020</a>	DENSO CORP	Rotary electric machine
<a href="#">WO 2018061814</a>	PANASONIC IP MAN CO LTD	Power supply device
<a href="#">WO 2018070110</a>	DENSO CORP	Current sensor device
<a href="#">WO 2018070185</a>	HITACHI AUTOMOTIVE SYSTEMS LTD	Dc-dc converter and automobile
<a href="#">WO 2018078734</a>	mitsubishi electric corp	Power conversion device
<a href="#">WO 2018100626</a>	HITACHI LTD HITACHI BUILDING SYST CO LTD	System for controlling permanent magnet synchronous motor, and method for controlling permanent magnet synchronous motor
<a href="#">WO 2018062324</a>	DENSO CORP	Power supply control device
<a href="#">WO 2018079052</a>	PANASONIC IP MAN CO LTD	Apparatus for controlling brushless motor and method for controlling brushless motor
<a href="#">WO 2018099468</a>	BYD CO LTD	Electric vehicle, dc-dc convertor, and control method for dc-dc convertor
<a href="#">WO 2018083813</a>	mitsubishi electric corp	Power conversion device
<a href="#">WO 2018066165</a>	mitsubishi electric corp	Signal transmission circuit and power conversion device
<a href="#">WO 2018072953</a>	BOSCH GMBH ROBERT	Dc-dc converter and method for controlling a dc-dc converter
<a href="#">WO 2018079664</a>	TOYOTA CHUO KENKYUSHO KK	Power supply device and control method for power supply device
<a href="#">WO 2018097170</a>	DENSO CORP	Vehicle control apparatus, vehicle control method, and recording medium having vehicle control program recorded thereon
<a href="#">WO 2018066042</a>	HONDA MOTOR CO LTD	Conversion device, equipment, and control method

[...volver a CONTENIDO](#)

## RECARGA DE BATERÍAS

Nº PUBLICACIÓN	SOLICITANTE	Contenido técnico
<a href="#">WO 2018082867</a>	CONTINENTAL AUTOMOTIVE GMBH	Method for guiding a motor vehicle into a charging position at an inductive charging station, and control device and motor vehicle
<a href="#">WO 2018086770</a>	INNOGY SE	Measuring transducer
<a href="#">WO 2018086788</a>	INNOGY SE	Charging station, electric vehicle and system having a charging station and an electric vehicle
<a href="#">WO 2018099731</a>	AUDI AG	Discharging a battery module, having at least two battery cells, of a battery having at least two battery modules
<a href="#">WO 2018068903</a>	BAYERISCHE MOTOREN WERKE AG	Method for controlling the electrical charging of a group of vehicles
<a href="#">WO 2018086768</a>	VOLKSWAGEN AG	Inductive charging station and method for controlling an inductive charging station
<a href="#">WO 2018099215</a>	CHENGDU E CHARGING WIRELESS POWER TECH CO LTD	System, device and method for optimizing wireless charging by means of load modulation
<a href="#">WO 2018105885</a>	SAMSUNG SDI CO LTD	Control unit for a battery system
<a href="#">WO 2018104314</a>	BOSCH GMBH ROBERT BOSCH AUTOMOTIVE PROD SUZHOU	Electric vehicle, and control device and method therefor
<a href="#">WO 2018104234</a>	LEONI KABEL GMBH	High-current cable and power supply system with high-current cable
<a href="#">WO 2018069356</a>	IN2POWER NV	Energy transmitter and receiver module
<a href="#">WO 2018077749</a>	BAYERISCHE MOTOREN WERKE AG	Electric vehicle with charging cable identification device
<a href="#">WO 2018082933</a>	BAYERISCHE MOTOREN WERKE AG	Charging station device with one or more charging stations for an inductive charging process
<a href="#">WO 2018087442</a>	RENAULT SAS NISSAN MOTOR	Method for controlling a three-phase rectifier for a charging device on board an electrical or hybrid vehicle
<a href="#">WO 2018072987</a>	BOSCH GMBH ROBERT	Dc-to-dc converter and method for operating a dc-to-dc converter
<a href="#">WO 2018081306</a>	JOHNSON CONTROLS TECH CO	Battery module parallel switching device systems and methods
<a href="#">WO 2018082899</a>	BAYERISCHE MOTOREN WERKE AG	Method for carrying out a charging operation at a charging station
<a href="#">WO 2018091308</a>	BAYERISCHE MOTOREN WERKE AG	Safety procedure, device for the implementation thereof, and hybrid or electric vehicle
<a href="#">WO 2018096001</a>	AUDI AG	A ferrying vehicle providing onboard charging, an electric automobile and a method for charging an electric automobile on board the ferrying vehicle
<a href="#">WO 2018095846</a>	SUMIDA COMPONENTS & MODULES GMBH	Inductive component and secondary resonator device for installing on an electric vehicle
<a href="#">WO 2018105383</a>	AUTONETWORKS TECHNOLOGIES LTD SUMITOMO WIRING SYSTEMS SUMITOMO ELECTRIC INDUSTRIES	In-vehicle power supply device
<a href="#">WO 2018105342</a>	AUTONETWORKS TECHNOLOGIES LTD SUMITOMO WIRING SYSTEMS SUMITOMO ELECTRIC INDUSTRIES	Battery monitoring device protection circuit and battery monitoring device
<a href="#">WO 2018110416</a>	NEC CORP	Charging system, charging controller, charger, user terminal, charging method, and recording medium
<a href="#">WO 2018111400</a>	GEN ELECTRIC	Dc leakage current detector and method of operation thereof for leakage current detector in dc power circuits
<a href="#">WO 2018069192</a>	VOLKSWAGEN AG	Intelligent charge communication switching in can-based charging systems

<a href="#">WO 2018069096</a>	CONTINENTAL AUTOMOTIVE GMBH	Method for operating a charger for charging an electrical energy store from a home network, charger for a motor vehicle, and motor vehicle
<a href="#">WO 2018072799</a>	NERVE SMART SYSTEMS APS	Charging station for charging electrical vehicles
<a href="#">WO 2018077503</a>	BOSCH GMBH ROBERT	Charging device for an electric energy store, electric energy storage system, and method for charging an electric energy store
<a href="#">WO 2018095868</a>	ELAPHE POGONSKE TEHNOLOGIJE D O O	Integrated electric gear and charger system for battery powered electric vehicles
<a href="#">WO 2018099911</a>	BOMBARDIER PRIMOVE GMBH	A method and a device for determining a switching current of a converter of a system for inductive power transfer and a method of control
<a href="#">WO 2018108495</a>	BAYERISCHE MOTOREN WERKE AG	Electrical machine arrangement
<a href="#">WO 2018111507</a>	GEN ELECTRIC	System and method for leakage current and fault location detection in electric vehicle dc power circuits
<a href="#">WO 2018079679</a>	TOSHIBA KK TOSHIBA INFRASTRUCTURE SYSTEMS & SOLUTIONS CORP	Charging system
<a href="#">WO 2018065435</a>	BAYERISCHE MOTOREN WERKE AG	Inductive charging unit for a vehicle
<a href="#">WO 2018081549</a>	VOLTSERVER INC	Digital power multiport battery charging system
<a href="#">WO 2018091456</a>	JAGUAR LAND ROVER LTD	A notification system for an electric vehicle, an electric vehicle, and a method
<a href="#">WO 2018096341</a>	DYSON TECH LIMITED	Battery system
<a href="#">WO 2018108386</a>	BAYERISCHE MOTOREN WERKE AG	Charging device for an energy store of a motor vehicle, and also electrical machine arrangement which is equipped with said charging device
<a href="#">WO 2018110243</a>	DENSO CORP	Battery unit, and power supply system
<a href="#">WO 2018077427</a>	ZAPTEC IP AS	Electric vehicle charging system for existing infrastructure
<a href="#">WO 2018080236</a>	RENAULT SAMSUNG MOTORS CO LTD	Electric vehicle charged by selecting charging module enabling faster charging between wired and wireless charging module, and charging device for same
<a href="#">WO 2018086884</a>	EASE LINK GMBH	Vehicle connection device, vehicle connection system and vehicle
<a href="#">WO 2018101926</a>	FORD MOTOR CO	Methods and apparatus for vehicle-based drone charging
<a href="#">WO 2018108997</a>	TECHNISCHE HOCHSCHULE MITTELHESSEN	Apparatus for coordinated reactive power production and control, and virtual reactive power plant based thereon
<a href="#">WO 2018062394</a>	GS YUASA INT LTD	Power storage element soc estimation device, power storage device, and power storage element soc estimation method
<a href="#">WO 2018061748</a>	AUTONETWORKS TECHNOLOGIES LTD SUMITOMO WIRING SYSTEMS SUMITOMO ELECTRIC INDUSTRIES	Vehicle power supply device
<a href="#">WO 2018061449</a>	HITACHI AUTOMOTIVE SYSTEMS LTD	Battery control device, battery system, and vehicle
<a href="#">WO 2018065451</a>	BAYERISCHE MOTOREN WERKE AG	Coil unit for inductively charging a vehicle
<a href="#">WO 2018069542</a>	PHOENIX CONTACT E MOBILITY GMBH	Temperature-monitored charging system for transmitting electric charge currents
<a href="#">WO 2018079360</a>	HITACHI AUTOMOTIVE SYSTEMS LTD	Battery control device, battery pack, and battery system
<a href="#">WO 2018101005</a>	HITACHI AUTOMOTIVE SYSTEMS LTD	Battery control device
<a href="#">WO 2018076016</a>	HEVO INC	Parking alignment sequence for wirelessly charging an electric vehicle



<a href="#">WO 2018076213</a>	SHENZHEN WOER HEAT SHRINKABLE MAT CO LTD SHENZHEN WOER NEW ENERGY ELECTRICAL TECH CO LTD SHENZHEN WOER SPECIAL WIRE&CABLE CO LTD CHANGZHOU WOER HEAT SHRINKABLE MAT CO LTD LTK ELECTRIC WIRE HUIZHOU LTD HUIZHOU LTK ELECTRONIC CABLE LTD	Wireless charging power coil, wireless charging system and wireless charging control method
<a href="#">WO 2018088354</a>	HITACHI CONSTRUCTION MACH CO	Hybrid construction machine
<a href="#">WO 2018091192</a>	BOSCH GMBH ROBERT	Device for inductively charging an electric vehicle, and method for detecting electrically conductive foreign bodies in such a device
<a href="#">WO 2018095971</a>	TE CONNECTIVITY GERMANY GMBH	Mains plug and charging system for a motor vehicle
<a href="#">WO 2018061415</a>	HONDA MOTOR CO LTD	Route searching apparatus, battery information management apparatus, and program
<a href="#">WO 2018061857</a>	NEC CORP	Charging system, charging controller, charger, information device, charging method, and recording medium
<a href="#">WO 2018072477</a>	NEXTEV LTD	Electric vehicle power battery precharging system and device
<a href="#">WO 2018095651</a>	BAYERISCHE MOTOREN WERKE AG	Locking device having shape memory alloy for an energy storage device of a motor vehicle and method for operating such a locking device
<a href="#">WO 2018060153</a>	PHOENIX CONTACT E MOBILITY GMBH	Plug connector part for a charging system
<a href="#">WO 2018065597</a>	BOSCH GMBH ROBERT	Battery unit and method for operating a battery unit
<a href="#">WO 2018074021</a>	MURATA MANUFACTURING CO	Charging-discharging device, charging-discharging method, electronic device, electric vehicle and powering system
<a href="#">WO 2018084151</a>	HONDA MOTOR CO LTD	Server device and control method
<a href="#">WO 2018066624</a>	DENSO CORP	Power supply system control device
<a href="#">WO 2018084152</a>	HONDA MOTOR CO LTD	Power storage device, transportation apparatus, and control method
<a href="#">WO 2018092562</a>	AUTONETWORKS TECHNOLOGIES LTD SUMITOMO WIRING SYSTEMS SUMITOMO ELECTRIC INDUSTRIES	Vehicle battery monitoring device and vehicle battery monitoring system
<a href="#">WO 2018097739</a>	AUCKLAND UNISERVICES LTD BOYS JOHN TALBOT COVIC GRANT ANTHONY	Current distribution and thermal regulation in inductive power transfer coupling structures
<a href="#">WO 2018059416</a>	HUAWEI TECH CO LTD	Electric car, and method of providing power charging between electric cars
<a href="#">WO 2018066323</a>	AUTONETWORKS TECHNOLOGIES LTD SUMITOMO WIRING SYSTEMS SUMITOMO ELECTRIC INDUSTRIES	Vehicle battery monitoring device and vehicle battery monitoring system
<a href="#">WO 2018083949</a>	AUTONETWORKS TECHNOLOGIES LTD SUMITOMO WIRING SYSTEMS SUMITOMO ELECTRIC INDUSTRIES	Vehicular battery monitoring device and vehicular battery monitoring system
<a href="#">WO 2018085519</a>	WITRICITY CORP	Vehicle charger network
<a href="#">WO 2018073961</a>	NISSAN MOTOR	Power supply system and method for controlling same
<a href="#">WO 2018078625</a>	CHAKRATEC LTD	System and method for a station providing grid support

<a href="#">WO 2018091697</a>	RUTRONIK ELEKTRONISCHE BAUELEMENTE GMBH	Hybrid energy storage system
<a href="#">WO 2018092751</a>	KUWATA CO LTD NIPPON LSA INC POWDEC KK INSTITUTE FOR ENERGY APPLICATION TECH CO LTD	Electricity storage module and electricity storage module quick charging system
<a href="#">WO 2018086769</a>	INNOGY SE	Charging station foundation and charging station

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## CAMBIO DE BATERÍAS

Nº PUBLICACIÓN	SOLICITANTE	Contenido técnico
<a href="#">WO 2018104966</a>	KUMAR MAINI CHETAN	A rechargeable battery management system
<a href="#">WO 2018103892</a>	SEW EURODRIVE GMBH & CO	Vehicle, in particular logistics vehicle
<a href="#">WO 2018090034</a>	ATMO AUTO POWER LLC	Method and system for rapid power exchange
<a href="#">WO 2018081622</a>	INEVIT LLC	Fixation of a battery module in a battery module compartment of an energy storage system
<a href="#">WO 2018077571</a>	BOSCH GMBH ROBERT	Method for supplying electrical energy to a vehicle, control device for carrying out a method, and vehicle column system

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**LANZAMIENTO**



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



**EJECUCIÓN**



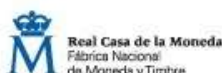
Los ITPs\*\* de la OEPM detectaron solicitudes de patente relevantes cuando estábamos a mitad del proyecto y gracias a ello pudimos reconducir nuestra investigación.



**CONCLUSIÓN**



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



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