

### Noticias

El pasado 5 de octubre se publicó el [Real Decreto Ley 15/2018](#), de medidas urgentes para la transición energética y la protección de los consumidores. Las alternativas a los combustibles fósiles, especialmente los vehículos eléctricos, requieren un impulso normativo que resuelva los problemas de coordinación que impiden su implantación masiva. Entre las barreras principales se encuentra el insuficiente desarrollo de las infraestructuras de recarga, que detrae a muchos usuarios de adquirir un vehículo eléctrico ante la baja disponibilidad de puntos de recarga públicos. Para resolver la situación descrita, el Real Decreto Ley 15/2018 liberaliza la actividad de recarga eléctrica, eliminando la figura del gestor de cargas prevista en la Ley del Sector Eléctrico, pues se ha revelado como excesivamente rígida y desincentivadora de la actividad. Esta supresión no supondrá en ningún caso una merma de la seguridad de las instalaciones, que deberán cumplir con la normativa correspondiente en el ámbito de la seguridad industrial y de las que se llevará un registro de la información para el seguimiento de la actividad por las Administraciones. Esta información estará además disponible a través de medios electrónicos para todos los ciudadanos y se

integrará en el futuro en el punto de acceso único, armonizando la información con la del resto de países de la Unión Europea, creando una gran base de datos de información sobre la ubicación y características de los puntos de recarga públicos. Esta medida contribuirá a alcanzar los objetivos fijados en la Estrategia de Impulso del vehículo con energías alternativas (VEA) en España (2014-2020).

La Oficina Española de Patentes y Marcas (OEPM) estuvo presente en la primera edición de [S-Moving](#), Foro de los Vehículos Inteligentes, Autónomos y No Tripulados, celebrado en Málaga los días 17 y 18 de octubre de 2018. Los planteamientos de la movilidad inteligente pasan por electrificar el transporte en cualquiera de sus modalidades, por lo que en el futuro el vehículo eléctrico estará íntimamente ligado al vehículo autónomo.

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

[BOLETINES OEPM](#)

NIPO: 116-19-009-9

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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 2018221828 A1 20181206</a>	SAMSUNG SDI CO LTD	BATTERY PACK
<a href="#">WO 2018225494 A1 20181213</a>	NIPPON ELECTRIC GLASS CO	ALL-SOLID-STATE SODIUM ION SECONDARY BATTERY
<a href="#">WO 2018225670 A1 20181213</a>	SEKISUI CHEMICAL CO LTD	CARBON MATERIAL-CONTAINING DISPERSION LIQUID, SLURRY FOR ELECTRODE FORMATION, AND METHOD FOR PRODUCING ELECTRODE FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERIES
<a href="#">WO 2018225609 A1 20181213</a>	SANYO ELECTRIC CO	BATTERY MODULE
<a href="#">WO 2018230058 A1 20181220</a>	HITACHI AUTOMOTIVE SYSTEMS LTD	SECONDARY BATTERY
<a href="#">WO 2018228779 A1 20181220</a>	LITHIUM ENERGY & POWER GMBH & CO KG	METHOD FOR CUTTING A SEPARATOR FOIL, SEPARATOR FOIL AND BATTERY CELL
<a href="#">WO 2018230268 A1 20181220</a>	TOYO TIRE & RUBBER CO	MONITORING SENSOR AND SEALED SECONDARY BATTERY
<a href="#">WO 2018233894 A1 20181227</a>	BOSCH GMBH ROBERT	BATTERY CELL
<a href="#">WO 2018235556 A1 20181227</a>	SANYO ELECTRIC CO	POWER SUPPLY DEVICE, VEHICLE EQUIPPED WITH SAME, AND ELECTRICITY STORAGE DEVICE
<a href="#">WO 2018233930 A1 20181227</a>	BOSCH GMBH ROBERT	BATTERY CELL
<a href="#">WO 2018235764 A1 20181227</a>	PANASONIC IP MAN CO LTD	BATTERY COOLING DEVICE FOR VEHICLES AND BATTERY MODULE
<a href="#">WO 2018221670 A1 20181206</a>	HITACHI CHEMICAL CO LTD	ELECTROLYTE COMPOSITION, SECONDARY CELL, AND METHOD FOR MANUFACTURING ELECTROLYTE SHEET
<a href="#">WO 2018225619 A1 20181213</a>	SEKISUI CHEMICAL CO LTD	SULFUR-CARBON MATERIAL COMPOSITE BODY, POSITIVE ELECTRODE MATERIAL FOR LITHIUM SULFUR SECONDARY BATTERIES, AND LITHIUM SULFUR SECONDARY BATTERY
<a href="#">WO 2018225971 A1 20181213</a>	KOREA INSTITUTE OF INDUSTRIAL TECH	ANODE ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY, ANODE FOR LITHIUM SECONDARY BATTERY, AND LITHIUM SECONDARY BATTERY COMPRISING SAME ANODE
<a href="#">WO 2018230813 A1 20181220</a>	LG CHEMICAL LTD	OVERVOLTAGE PROTECTION SYSTEM USING BALANCING RESISTOR
<a href="#">WO 2018233958 A1 20181227</a>	AUDI AG	METHOD FOR OPERATING A PLURALITY OF USAGE UNITS FOR A WEAR COMPENSATION IN AN ENERGY SUPPLY DEVICE, AND ENERGY SUPPLY DEVICE
<a href="#">WO 2018235473 A1 20181227</a>	DENSO CORP	TERMINAL COOLING DEVICE
<a href="#">WO 2018177885 A1 20181004</a>	LITHIUM ENERGY & POWER GMBH & CO KG	ENERGY STORAGE DEVICE
<a href="#">WO 2018181698 A1 20181004</a>	AIST	LOW CRYSTALLINITY VANADIUM SULFIDE
<a href="#">WO 2018220802 A1 20181206</a>	HITACHI CHEMICAL CO LTD	ELECTRODE FOR ELECTROCHEMICAL DEVICE AND METHOD FOR PRODUCING SAME, AND ELECTROCHEMICAL DEVICE
<a href="#">WO 2018225919 A1 20181213</a>	SAMSUNG SDI CO LTD	BATTERY PACK
<a href="#">WO 2018229875 A1 20181220</a>	HITACHI CHEMICAL CO LTD	LIQUID-TYPE LEAD STORAGE BATTERY
<a href="#">WO 2018232979 A1 20181227</a>	CONTEMPORARY AMPEREX TECH CO LIMITED	LITHIUM IRON PHOSPHATE BATTERY
<a href="#">WO 2018221197 A1 20181206</a>	JSR CORP	BINDER COMPOSITION FOR POWER STORAGE DEVICE, SLURRY FOR ELECTRODE OF POWER STORAGE DEVICE, ELECTRODE OF POWER STORAGE DEVICE, AND POWER STORAGE DEVICE
<a href="#">WO 2018225572 A1 20181213</a>	GS YUASA INT LTD	ELECTRICITY STORAGE ELEMENT PROTECTION DEVICE

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<a href="#">WO 2018225328 A1 20181213</a>	HITACHI LTD	SEMISOLID ELECTROLYTE SOLUTION, SEMISOLID ELECTROLYTE, SEMISOLID ELECTROLYTE LAYER, ELECTRODE, AND SECONDARY BATTERY
<a href="#">WO 2018230148 A1 20181220</a>	MURATA MANUFACTURING CO	SECONDARY BATTERY, BATTERY PACK, ELECTRIC VEHICLE, POWER STORAGE SYSTEM, ELECTRIC TOOL, AND ELECTRONIC APPARATUS
<a href="#">WO 2018230506 A1 20181220</a>	MURATA MANUFACTURING CO	BATTERY, INSPECTION METHOD, INSPECTION DEVICE, BATTERY PACK, ELECTRONIC APPARATUS, ELECTRIC VEHICLE, ELECTRICITY STORAGE DEVICE, AND ELECTRIC POWER SYSTEM
<a href="#">WO 2018226070 A1 20181213</a>	LG CHEMICAL LTD	NEGATIVE ELECTRODE, SECONDARY BATTERY INCLUDING SAME NEGATIVE ELECTRODE, AND METHOD FOR MANUFACTURING SAME NEGATIVE ELECTRODE
<a href="#">WO 2018225394 A1 20181213</a>	MURATA MANUFACTURING CO	SECONDARY BATTERY, BATTERY PACK, ELECTRIC VEHICLE, ELECTRIC POWER STORAGE SYSTEM, ELECTRIC TOOL, AND ELECTRONIC APPARATUS
<a href="#">WO 2018229858 A1 20181220</a>	NISSAN MOTOR	METHOD FOR CONTROLLING NONCONTACT ELECTRIC POWER SUPPLY SYSTEM, AND NONCONTACT ELECTRIC POWER SUPPLY SYSTEM
<a href="#">WO 2018231573 A1 20181220</a>	A123 SYSTEMS LLC	SYSTEM AND METHOD FOR OPERATING A DUAL BATTERY SYSTEM
<a href="#">WO 2018229386 A1 20181220</a>	RENAULT SAS	DEVICE FOR ENCAPSULATING AND INTERRUPTING THE POWER SUPPLY OF A BATTERY
<a href="#">WO 2018229379 A1 20181220</a>	PSA AUTOMOBILES SA	CONTROL OF THE RECHARGING AT LOW SPEED OF AN ACCUMULATOR OF A HYBRID VEHICLE WITH A NON-HEAT-TYPE DRIVING MACHINE MECHANICALLY CONNECTED TO AN AXLE ASSEMBLY
<a href="#">WO 2018233957 A1 20181227</a>	AUDI AG	ELECTRIC ENERGY SUPPLY DEVICE WITH A NOMINAL CAPACITY, AND METHOD FOR PROVIDING A NOMINAL CAPACITY IN AN ELECTRIC ENERGY SUPPLY DEVICE
<a href="#">WO 2018234207 A1 20181227</a>	LITHIUM ENERGY & POWER GMBH & CO KG	ENERGY STORAGE DEVICE AND ENERGY STORAGE MODULE
<a href="#">WO 2018235898 A1 20181227</a>	IHI CORP	COIL DEVICE
<a href="#">WO 2018178131 A1 20181004</a>	BOSCH GMBH ROBERT	METHOD AND APPARATUS FOR OPERATING AN ELECTRICAL ENERGY STORAGE SYSTEM AND ELECTRICAL ENERGY STORAGE SYSTEM AND USE THEREOF
<a href="#">WO 2018219924 A1 20181206</a>	INNOGY SE	PROTECTIVE HOUSING FOR A CIRCUIT BOARD
<a href="#">WO 2018221853 A1 20181206</a>	SAMSUNG SDI CO LTD	SECONDARY BATTERY HAVING CATHODE TERMINAL-INTEGRATED CAP PLATE
<a href="#">WO 2018225450 A1 20181213</a>	MURATA MANUFACTURING CO	POSITIVE ELECTRODE ACTIVE MATERIAL, POSITIVE ELECTRODE, BATTERY, BATTERY PACK, ELECTRONIC APPARATUS, ELECTRIC VEHICLE, ELECTRICITY STORAGE DEVICE, AND ELECTRIC POWER SYSTEM
<a href="#">WO 2018234098 A1 20181227</a>	THYSSENKRUPP AG	BATTERY HOUSING FOR A VEHICLE BATTERY
<a href="#">WO 2018179969 A1 20181004</a>	PANASONIC IP MAN CO LTD	NEGATIVE ELECTRODE MATERIAL FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERY, AND NONAQUEOUS ELECTROLYTE SECONDARY BATTERY
<a href="#">WO 2018180212 A1 20181004</a>	SANYO SPECIAL STEEL CO LTD	NEGATIVE ELECTRODE MATERIAL FOR STORAGE DEVICE
<a href="#">WO 2018184007 A1 20181004</a>	UNIV MICHIGAN REGENTS	SYSTEM AND METHOD FOR TREATING THE SURFACE OF SOLID ELECTROLYTES
<a href="#">WO 2018182209 A1 20181004</a>	DNK CO LTD	EMERGENCY POWER CHARGING DEVICE AND MULTI-GENDER THEREOF
<a href="#">WO 2018186749 A1 20181011</a>	ELKEM AS	PROCESS FOR THE PRODUCTION OF SILICON PARTICLES OF SELECTED GRANULOMETRIC DISTRIBUTION
<a href="#">WO 2018186562 A1 20181011</a>	LG CHEMICAL LTD	BATTERY MODULE AND BATTERY PACK COMPRISING SAME
<a href="#">WO 2018190498 A1 20181018</a>	SAMSUNG SDI CO LTD	BATTERY PACK
<a href="#">WO 2018221669 A1 20181206</a>	HITACHI CHEMICAL CO LTD	ELECTROLYTE COMPOSITION AND RECHARGEABLE BATTERY
<a href="#">WO 2018221258 A1 20181206</a>	SHINETSU CHEMICAL CO	NEGATIVE ELECTRODE ACTIVE MATERIAL FOR NON-AQUEOUS ELECTROLYTE SECONDARY CELL,, AND METHOD FOR MANUFACTURING NEGATIVE ELECTRODE ACTIVE MATERIAL FOR NON-AQUEOUS ELECTROLYTE SECONDARY CELL

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<a href="#">WO 2018218754 A1 20181206</a>	GUANGDONG THOUSANDS OF CITIES & CHARGING STATIONS E VEHICLES OPERATING CO LTD	HIGH VOLTAGE DIRECT CURRENT POWER DISTRIBUTION-BASED ELECTRIC VEHICLE CHARGING STATION
<a href="#">WO 2018180405 A1 20181004</a>	ZEON CORP	ADHESIVE FOR AFFIXING ELECTRODE ASSEMBLY AND ELECTROCHEMICAL ELEMENT
<a href="#">WO 2018186135 A1 20181011</a>	MAXELL HOLDINGS LTD	SEPARATOR AND NON-AQUEOUS ELECTROLYTE BATTERY
<a href="#">WO 2018188995 A1 20181018</a>	AUDI AG	BATTERY FOR A MOTOR VEHICLE, AND MOTOR VEHICLE
<a href="#">WO 2018197203 A1 20181101</a>	MAHLE INT GMBH	RECHARGEABLE BATTERY ARRANGEMENT
<a href="#">WO 2018216970 A1 20181129</a>	LG CHEMICAL LTD	FLEXIBLE ELECTRODE, METHOD FOR MANUFACTURING SAME, AND SECONDARY BATTERY COMPRISING SAME
<a href="#">WO 2018215325 A1 20181129</a>	THYSSENKRUPP AG	TEMPERATURE CONTROL SYSTEM FOR AN ELECTRICAL ENERGY STORAGE UNIT
<a href="#">WO 2018221676 A1 20181206</a>	HITACHI CHEMICAL CO LTD	ELECTROLYTIC SOLUTION AND ELECTROCHEMICAL DEVICE
<a href="#">WO 2018221800 A1 20181206</a>	SAMSUNG SDI CO LTD	SECONDARY BATTERY
<a href="#">WO 2018179970 A1 20181004</a>	PANASONIC IP MAN CO LTD	NEGATIVE ELECTRODE MATERIAL FOR NON-AQUEOUS ELECTROLYTE SECONDARY CELL AND NON-AQUEOUS ELECTROLYTE SECONDARY CELL
<a href="#">WO 2018182228 A1 20181004</a>	LG CHEMICAL LTD	POUCH TYPE SECONDARY BATTERY HAVING STRUCTURE FOR CHANGING BIDIRECTIONAL CELL INTO UNIDIRECTIONAL CELL
<a href="#">WO 2018181620 A1 20181004</a>	GS YUASA INT LTD	STORED ELECTRICITY AMOUNT ESTIMATING DEVICE, ELECTRICITY STORAGE MODULE, STORED ELECTRICITY AMOUNT ESTIMATING METHOD, AND COMPUTER PROGRAM
<a href="#">WO 2018184751 A1 20181011</a>	LITHIUM ENERGY & POWER GMBH & CO KG	SECONDARY CELL FOR A TRACTION BATTERY AND METHOD FOR MANUFACTURING A SECONDARY CELL
<a href="#">WO 2018186559 A1 20181011</a>	LG CHEMICAL LTD	NEGATIVE ELECTRODE FOR SECONDARY BATTERY, AND METHOD FOR PRODUCING SAME
<a href="#">WO 2018186566 A1 20181011</a>	LG CHEMICAL LTD	BATTERY PACK EQUIPPED WITH HEAT CONDUCTION MEDIUM HAVING A LOUVER FIN SHAPE
<a href="#">WO 2018187531 A1 20181011</a>	UNIV CALIFORNIA	FLUORINE SUBSTITUTED CATION-DISORDERED LITHIUM METAL OXIDES AND METHODS OF MAKING SAME
<a href="#">WO 2018190675 A1 20181018</a>	IUCF HYU INDUSTRY UNIV COOPERATION FOUNDATION HANYANG UNIV	CATHODE ACTIVE MATERIAL, METHOD FOR MANUFACTURING SAME, AND LITHIUM SECONDARY BATTERY COMPRISING SAME
<a href="#">WO 2018190338 A1 20181018</a>	DENSO CORP	POWER CONTROL DEVICE AND POWER CONTROL METHOD
<a href="#">WO 2018190508 A1 20181018</a>	LG CHEMICAL LTD	APPARATUS AND METHOD FOR CALCULATING STATE OF CHARGE OF BATTERY BY REFLECTING NOISE
<a href="#">WO 2018190168 A1 20181018</a>	AUTONETWORKS TECHNOLOGIES LTD	BASE PLATE STRUCTURE OF ELECTRICITY STORAGE PACK AND ELECTRICITY STORAGE PACK
<a href="#">WO 2018192773 A1 20181025</a>	LITHIUM ENERGY & POWER GMBH & CO KG	BATTERY CELL
<a href="#">WO 2018216874 A1 20181129</a>	LG CHEMICAL LTD	APPARATUS AND METHOD FOR BATTERY MODULE EQUALIZATION
<a href="#">WO 2018215358 A1 20181129</a>	MAHLE INT GMBH	BATTERY SYSTEM FOR AN ELECTRIC VEHICLE
<a href="#">WO 2018221002 A1 20181206</a>	NISSAN MOTOR	BATTERY PACK FOR MOUNTING ON VEHICLE
<a href="#">WO 2018221383 A1 20181206</a>	UNIV TOKYO	METHOD FOR PRODUCING NEGATIVE ELECTRODE FOR LITHIUM-ION SECONDARY BATTERY, NEGATIVE ELECTRODE, AND NEGATIVE ELECTRODE ACTIVE MATERIAL
<a href="#">WO 2018229515 A1 20181220</a>	NEXEON LTD	ELECTROACTIVE MATERIALS FOR METAL-ION BATTERIES
<a href="#">WO 2018177136 A1 20181004</a>	BYD CO LTD	BATTERY COVER ASSEMBLY, SINGLE-CELL BATTERY, BATTERY MODULE, POWER BATTERY PACK, AND ELECTRIC VEHICLE
<a href="#">WO 2018179900 A1 20181004</a>	PANASONIC IP MAN CO LTD	SECONDARY BATTERY
<a href="#">WO 2018179899 A1 20181004</a>	PANASONIC IP MAN CO	SECONDARY BATTERY

<a href="#">WO 2018177135 A1 20181004</a>	BYD CO LTD	BATTERY COVER ASSEMBLY, SINGLE-CELL BATTERY, BATTERY MODULE, POWER BATTERY PACK, AND ELECTRIC VEHICLE
<a href="#">WO 2018180475 A1 20181004</a>	KK TOYOTA JIDOSHOKKI	ELECTRICITY STORAGE DEVICE
<a href="#">WO 2018180829 A1 20181004</a>	GS YUASA INT LTD	POWER STORAGE ELEMENT
<a href="#">WO 2018180313 A1 20181004</a>	IHI CORP	COIL APPARATUS
<a href="#">WO 2018180749 A1 20181004</a>	SANYO ELECTRIC CO	RECTANGULAR SECONDARY BATTERY AND ASSEMBLED-BATTERY USING SAME
<a href="#">WO 2018182162 A1 20181004</a>	SAMSUNG SDI CO LTD	BATTERY MODULE
<a href="#">WO 2018186561 A1 20181011</a>	LG CHEMICAL LTD	PRE-LITHIATION APPARATUS, METHOD FOR MANUFACTURING NEGATIVE ELECTRODE PART USING SAME, AND NEGATIVE ELECTRODE PART
<a href="#">WO 2018190391 A1 20181018</a>	MURATA MANUFACTURING CO	CHARGING CONTROL DEVICE AND CHARGING UNIT
<a href="#">WO 2018197172 A1 20181101</a>	LITHIUM ENERGY & POWER GMBH & CO KG	FAST DISCHARGE PROCESS AND UNIT, ARRANGEMENT OF A PLURALITY OF BATTERY CELLS, BATTERY AND APPARATUS
<a href="#">WO 2018198056 A1 20181101</a>	GRANIERI FABRIZIO	BATTERY PACK COMPRISING ELECTRONIC MEANS FOR CALCULATING AT LEAST A WEAR PARAMETER
<a href="#">WO 2018212871 A2 20181122</a>	JIANG HANQING	THREE-DIMENSIONAL SOFT ELECTRODE FOR LITHIUM METAL BATTERIES
<a href="#">WO 2018215378 A1 20181129</a>	BAYERISCHE MOTOREN WERKE AG	ENERGY-STORAGE HOUSING HAVING A COOLING CONNECTION, ENERGY-STORAGE UNIT AND MOTOR VEHICLE HAVING ONE SUCH
<a href="#">WO 2018216866 A1 20181129</a>	LG CHEMICAL LTD	ELECTROLYTE SOLUTION FOR LITHIUM-SULFUR BATTERY AND LITHIUM-SULFUR BATTERY COMPRISING SAME
<a href="#">WO 2018220201 A2 20181206</a>	JOHNSON CONTROLS ADVANCED POWER SOLUTIONS GMBH	CELL ASSEMBLY, CELL SUB-MODULE, ENERGY STORAGE MODULE AND METHOD FOR ASSEMBLING THE SAME
<a href="#">WO 2018221839 A1 20181206</a>	LG CHEMICAL LTD	VEHICLE BATTERY REMOTE MANAGEMENT SYSTEM AND METHOD
<a href="#">WO 2018219515 A1 20181206</a>	AUTO KABEL MAN GMBH	CONNECTOR AND METHOD FOR PRODUCING A CONNECTOR
<a href="#">WO 2018222348 A1 20181206</a>	NANOTEK INSTRUMENTS INC	SHAPE-CONFORMABLE ALKALI METAL BATTERY HAVING A CONDUCTIVE AND DEFORMABLE QUASI-SOLID POLYMER ELECTRODE
<a href="#">WO 2018181624 A1 20181004</a>	GS YUASA INT LTD	STORED ELECTRICITY AMOUNT ESTIMATING DEVICE, ELECTRICITY STORAGE MODULE, STORED ELECTRICITY AMOUNT ESTIMATING METHOD, AND COMPUTER PROGRAM
<a href="#">WO 2018180742 A1 20181004</a>	SHOWA DENKO KK	POSITIVE ELECTRODE FOR LITHIUM ION SECONDARY CELL, AND LITHIUM ION SECONDARY CELL
<a href="#">WO 2018184997 A1 20181011</a>	SIEMENS AG	COOLING SYSTEM
<a href="#">WO 2018186538 A1 20181011</a>	DRB HOLDING CO LTD	METHOD FOR PREPARING CATHODE ACTIVE MATERIAL HAVING IMPROVED SURFACE AREA CHARACTERISTICS AND ELECTROCHEMICAL CHARACTERISTICS, ACCORDING TO CALCINATION TEMPERATURE
<a href="#">WO 2018190557 A1 20181018</a>	LG CHEMICAL LTD	DEVICE AND METHOD FOR TESTING END PLATE
<a href="#">WO 2018190692 A1 20181018</a>	LG CHEMICAL LTD	ELECTRODE ASSEMBLY
<a href="#">WO 2018202892 A1 20181108</a>	CENTRE NAT RECH SCIENT	METAL-AIR BATTERY
<a href="#">WO 2018216060 A1 20181129</a>	NEC CORP	ELECTRODE BODY AND SECONDARY BATTERY PROVIDED WITH SAME
<a href="#">WO 2018217071 A1 20181129</a>	LG CHEMICAL LTD	FABRICATION METHOD OF CATHODE FOR SECONDARY BATTERY, CATHODE FOR SECONDARY BATTERY FABRICATED THEREBY, AND LITHIUM SECONDARY BATTERY COMPRISING SAME CATHODE
<a href="#">WO 2018221423 A1 20181206</a>	GS YUASA INT LTD	POWER STORAGE AMOUNT ESTIMATION APPARATUS, POWER STORAGE MODULE, POWER STORAGE AMOUNT ESTIMATION METHOD, AND COMPUTER PROGRAM
<a href="#">WO 2018221346 A1 20181206</a>	NEC CORP	LITHIUM ION SECONDARY CELL

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<a href="#">WO 2018221664 A1 20181206</a>	SUMITOMO METAL MINING CO	POSITIVE ELECTRODE ACTIVE SUBSTANCE FOR NON-AQUEOUS ELECTROLYTE SECONDARY BATTERY AND METHOD FOR PRODUCING SAME, POSITIVE ELECTRODE MIXTURE PASTE FOR NON-AQUEOUS ELECTROLYTE SECONDARY BATTERY, AND NON-AQUEOUS ELECTROLYTE SECONDARY BATTERY
<a href="#">WO 2018226826 A1 20181213</a>	UNIV MICHIGAN REGENTS	METHOD FOR SUPPRESSING METAL PROPAGATION IN SOLID ELECTROLYTES
<a href="#">WO 2018177439 A1 20181004</a>	ZHENGZHOU YUTONG BUS CO LTD	METHOD AND APPARATUS FOR DYNAMICALLY FOLLOWING STATE OF CHARGE OF BATTERY
<a href="#">WO 2018181489 A1 20181004</a>	GS YUASA INT LTD	ESTIMATING DEVICE, ELECTRICITY STORAGE DEVICE, AND ESTIMATING METHOD
<a href="#">WO 2018182386 A2 20181004</a>	ETS CO LTD	ELECTROLYTE INJECTION DEVICE
<a href="#">WO 2018182129 A1 20181004</a>	ETS CO LTD	ELECTRODE STACKING METHOD AND ELECTRODE STACKING APPARATUS FOR PERFORMING SAME
<a href="#">WO 2018182387 A1 20181004</a>	ETS CO LTD	SYSTEM FOR INSPECTING LEAK OF SECONDARY BATTERY
<a href="#">WO 2018197268 A1 20181101</a>	MAHLE INT GMBH	STORAGE BATTERY ASSEMBLY
<a href="#">WO 2018204379 A1 20181108</a>	AMERICAN LITHIUM ENERGY CORP	NEGATIVE THERMAL EXPANSION CURRENT INTERRUPTER
<a href="#">WO 2018216348 A1 20181129</a>	DAIKIN IND LTD	SECONDARY BATTERY SEPARATOR AND SECONDARY BATTERY
<a href="#">WO 2018217990 A1 20181129</a>	CELGARD LLC	NEW OR IMPROVED MICROPOROUS MEMBRANES, BATTERY SEPARATORS, COATED SEPARATORS, BATTERIES, AND RELATED METHODS
<a href="#">WO 2018214050 A1 20181129</a>	BOSCH GMBH ROBERT	ANODE COMPOSITION AND METHOD FOR PRELITHIATING ANODE
<a href="#">WO 2018222546 A2 20181206</a>	ARTISAN VEHICLE SYSTEMS INC	MULTI-MODULAR BATTERY SYSTEM
<a href="#">WO 2018221514 A1 20181206</a>	GS YUASA INT LTD	MANAGEMENT DEVICE, POWER STORAGE MODULE, MANAGEMENT METHOD, AND COMPUTER PROGRAM
<a href="#">WO 2018223168 A1 20181213</a>	E MOOVE GMBH	ENERGY TRANSFER ARRANGEMENT AND METHOD OF CONTROLLING THE SAME
<a href="#">WO 2018224401 A1 20181213</a>	BOSCH GMBH ROBERT	ELECTRODE ASSEMBLY FOR A BATTERY MODULE
<a href="#">WO 2018184309 A1 20181011</a>	NIO CO LTD	BATTERY MODULE AND POWER BATTERY
<a href="#">WO 2018185422 A1 20181011</a>	ARKEMA FRANCE	LITHIUM SALT MIXTURE AND USES THEREOF AS A BATTERY ELECTROLYTE
<a href="#">WO 2018186442 A1 20181011</a>	MURATA MANUFACTURING CO	ALL-SOLID-STATE BATTERY, ELECTRONIC DEVICE, ELECTRONIC CARD, WEARABLE DEVICE, AND ELECTRIC VEHICLE
<a href="#">WO 2018186532 A1 20181011</a>	KOREA ELECTRIC POWER CORP	CHARGER USING ADJUSTABLE BAND
<a href="#">WO 2018187330 A1 20181011</a>	YOTTA SOLAR INC	THERMALLY REGULATED MODULAR ENERGY STORAGE DEVICE AND METHODS
<a href="#">WO 2018194248 A2 20181025</a>	INCHEON UNIV INDUSTRY ACADEMIC COOP. FOUNDATION	ORGANIC ADDITIVE COATING METHOD FOR IMPROVING INTERFACE STABILITY OF LITHIUM SECONDARY BATTERY POSITIVE ELECTRODE MATERIAL
<a href="#">WO 2018194171 A1 20181025</a>	DAINIPPON PRINTING CO LTD	BATTERY PACKAGING MATERIAL, METHOD FOR MANUFACTURING SAME, AND BATTERY
<a href="#">WO 2018198168 A1 20181101</a>	HITACHI CHEMICAL CO LTD	BATTERY MEMBER FOR SECONDARY BATTERY, AND SECONDARY BATTERY AND PRODUCTION METHOD THEREFOR
<a href="#">WO 2018199238 A1 20181101</a>	NITTO DENKO CORP	GAS-PERMEABLE UNIT
<a href="#">WO 2018198611 A1 20181101</a>	DENSO CORP	REFRIGERATION CYCLE DEVICE
<a href="#">WO 2018198895 A1 20181101</a>	MURATA MANUFACTURING CO	SECONDARY BATTERY, BATTERY PACK, ELECTRIC VEHICLE, ELECTRIC POWER STORAGE SYSTEM, ELECTRIC TOOL, AND ELECTRONIC APPARATUS
<a href="#">WO 2018198377 A1 20181101</a>	HITACHI CHEMICAL CO LTD	LITHIUM ION SECONDARY BATTERY NEGATIVE ELECTRODE MATERIAL, LITHIUM ION SECONDARY BATTERY NEGATIVE ELECTRODE, AND LITHIUM ION SECONDARY BATTERY
<a href="#">WO 2018198967 A1 20181101</a>	MURATA MANUFACTURING CO	POSITIVE ELECTRODE ACTIVE MATERIAL, POSITIVE ELECTRODE, BATTERY, BATTERY PACK, ELECTRONIC APPARATUS, ELECTRIC VEHICLE, ELECTRICITY STORAGE DEVICE, AND ELECTRIC POWER SYSTEM

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<a href="#">WO 2018206186 A1 20181115</a>	BOSCH GMBH ROBERT	METHOD FOR PRODUCING AN ELECTRODE ASSEMBLY FOR A BATTERY CELL AND BATTERY CELL
<a href="#">WO 2018212438 A2 20181122</a>	LG CHEMICAL LTD	LITHIUM ELECTRODE AND LITHIUM SECONDARY BATTERY COMPRISING SAME
<a href="#">WO 2018225926 A1 20181213</a>	LG CHEMICAL LTD	ELECTROLYTE REINJECTABLE BATTERY CELL, BATTERY PACK, ELECTROLYTE REINJECTION SYSTEM FOR BATTERY PACK, AND ELECTROLYTE REINJECTION METHOD FOR BATTERY PACK
<a href="#">WO 2018186659 A1 20181011</a>	LG CHEMICAL LTD	BATTERY MODULE, AND BATTERY PACK AND VEHICLE COMPRISING SAME
<a href="#">WO 2018184877 A1 20181011</a>	VOLKSWAGEN AG	METHOD FOR COMPENSATING FOR NO-LOAD LOSSES IN AN ELECTRIC VEHICLE, COMPUTER PROGRAM PRODUCT, DATA CARRIER, AND ELECTRIC VEHICLE
<a href="#">WO 2018186582 A1 20181011</a>	LG CHEMICAL LTD	BATTERY PACK HAVING CRASH BEAM STRUCTURE
<a href="#">WO 2018186570 A1 20181011</a>	SAMSUNG SDI CO LTD	METHOD FOR MANUFACTURING LOWER HOUSING OF BATTERY PACK
<a href="#">WO 2018186423 A1 20181011</a>	UNIV WASEDA, TOYOTA MOTOR CO LTD	BATTERY PACK, BATTERY MODULE, AND METHOD FOR EVALUATING BATTERY MODULE
<a href="#">WO 2018191959 A1 20181025</a>	HITACHI CHEMICAL CO LTD	POLYMER ELECTROLYTE COMPOSITION AND POLYMER SECONDARY BATTERY
<a href="#">WO 2018193628 A1 20181025</a>	HITACHI CHEMICAL CO LTD	POLYMER ELECTROLYTE COMPOSITION, AND POLYMER SECONDARY BATTERY
<a href="#">WO 2018193630 A1 20181025</a>	HITACHI CHEMICAL CO LTD	ELECTROCHEMICAL DEVICE ELECTRODE AND ELECTROCHEMICAL DEVICE
<a href="#">WO 2018193627 A1 20181025</a>	HITACHI CHEMICAL CO LTD	POLYMER ELECTROLYTE COMPOSITION, AND POLYMER SECONDARY BATTERY
<a href="#">WO 2018193864 A1 20181025</a>	SANYO SPECIAL STEEL CO LTD	NEGATIVE ELECTRODE MATERIAL FOR POWER STORAGE DEVICE
<a href="#">WO 2018194225 A1 20181025</a>	LEE JUNG HWAN	BATTERY MONITORING AND PROTECTION SYSTEM
<a href="#">WO 2018194159 A1 20181025</a>	HITACHI CHEMICAL CO LTD	ELECTROCHEMICAL DEVICE ELECTRODE AND PRODUCING METHOD THEREFOR, ELECTROCHEMICAL DEVICE AND POLYMER ELECTROLYTE COMPOSITION
<a href="#">WO 2018194163 A1 20181025</a>	SANYO CHEMICAL IND NISSAN MOTOR	METHOD FOR MANUFACTURING ELECTRODE ACTIVE MATERIAL MOLDING FOR LITHIUM-ION BATTERY AND METHOD FOR MANUFACTURING LITHIUM-ION BATTERY
<a href="#">WO 2018203176 A1 20181108</a>	SEMICONDUCTOR ENERGY LAB	SEMICONDUCTOR DEVICE, CHARGING METHOD THEREOF, AND ELECTRONIC DEVICE
<a href="#">WO 2018203474 A1 20181108</a>	MURATA MANUFACTURING CO	SOLID CELL, CELL PACK, ELECTRIC VEHICLE, POWER STORAGE SYSTEM, ELECTRIC TOOL, AND ELECTRONIC DEVICE
<a href="#">WO 2018207049 A1 20181115</a>	SEMICONDUCTOR ENERGY LAB	POSITIVE ELECTRODE ACTIVE MATERIAL PARTICLES
<a href="#">WO 2018206894 A1 20181115</a>	VALEO SYSTEMES THERMIQUES	HEAT REGULATION DEVICE FOR CYLINDRICAL ELECTRICAL ENERGY STORAGE CELLS
<a href="#">WO 2018212374 A1 20181122</a>	FOUNDATION FOR RESEARCH AND BUSINESS SEOUL NATIONAL UNIV OF SCIENCE AND TECHNOLOGY	ELECTRODE ACTIVE MATERIAL, METHOD FOR MANUFACTURING SAME, AND LITHIUM SECONDARY BATTERY COMPRISING SAME
<a href="#">WO 2018211824 A1 20181122</a>	HITACHI AUTOMOTIVE SYSTEMS LTD	BATTERY CONTROL DEVICE AND VEHICLE SYSTEM
<a href="#">WO 2018180017 A1 20181004</a>	NEC ENERGY DEVICES LTD	BATTERY ELECTRODE AND LITHIUM ION SECONDARY BATTERY
<a href="#">WO 2018177137 A1 20181004</a>	BYD CO LTD	BATTERY COVER ASSEMBLY, SINGLE-CELL BATTERY, BATTERY MODULE, POWER BATTERY PACK, AND ELECTRIC VEHICLE
<a href="#">WO 2018186581 A1 20181011</a>	LG CHEMICAL LTD	BATTERY PACK HAVING EXPANDABLE BATTERY MODULE STRUCTURE
<a href="#">WO 2018190465 A1 20181018</a>	KOREA ELECTRIC POWER CORP	ELECTRIC VEHICLE CHARGING DEVICE PROVIDED ON UTILITY POLE AND FOR CONTROLLING CHARGER COVER IN ACCORDANCE WITH CHARGING OPERATION, AND METHOD FOR CONTROLLING ELECTRIC VEHICLE CHARGING DEVICE PROVIDED ON UTILITY POLE



<a href="#">WO 2018194164 A1 20181025</a>	SANYO CHEMICAL IND NISSAN MOTOR	ADHESIVE FOR LITHIUM-ION ELECTRODE, ELECTRODE FOR LITHIUM-ION BATTERY AND METHOD FOR MANUFACTURING ELECTRODE FOR LITHIUM-ION BATTERY
<a href="#">WO 2018194176 A1 20181025</a>	DAINIPPON PRINTING CO LTD	PACKAGING MATERIAL FOR BATTERIES, METHOD FOR PRODUCING SAME, AND BATTERY
<a href="#">WO 2018194249 A1 20181025</a>	LG CHEMICAL LTD	OVERCHARGE PREVENTION DEVICE AND METHOD
<a href="#">WO 2018199484 A1 20181101</a>	LG CHEMICAL LTD	LAMINATION DEVICE FOR SECONDARY BATTERY
<a href="#">WO 2018198954 A1 20181101</a>	HITACHI CHEMICAL CO LTD	THIN FILM VALVE AND SECONDARY CELL PROVIDED WITH SAME
<a href="#">WO 2018198581 A1 20181101</a>	SANDEN AUTOMOTIVE CLIMATE SYSTEMS CORP	AIR CONDITIONER FOR VEHICLE
<a href="#">WO 2018204451 A1 20181108</a>	CUMMINS INC	SYSTEMS AND METHODS FOR HYBRID ELECTRIC VEHICLE BATTERY STATE OF CHARGE REFERENCE SCHEDULING
<a href="#">WO 2018206365 A1 20181115</a>	VOLABO GMBH	BATTERY FOR AN ELECTRIC VEHICLE
<a href="#">WO 2018207999 A1 20181115</a>	LG CHEMICAL LTD	SECONDARY BATTERY, AND APPARATUS AND METHOD FOR MANUFACTURING SAME
<a href="#">WO 2018208111 A1 20181115</a>	LG CHEMICAL LTD	NEGATIVE ELECTRODE ACTIVE MATERIAL, NEGATIVE ELECTRODE COMPRISING NEGATIVE ELECTRODE ACTIVE MATERIAL, AND SECONDARY BATTERY COMPRISING NEGATIVE ELECTRODE
<a href="#">WO 2018205598 A1 20181115</a>	HUAWEI TECH CO LTD	BATTERY PACK, BATTERY ENERGY STORAGE SYSTEM AND ELECTRIC CAR
<a href="#">WO 2018210699 A1 20181122</a>	LION SMART GMBH	METHOD FOR ARRANGING A CONTACT ELEMENT, CONTACT ELEMENT AND BATTERY STACK
<a href="#">WO 2018177138 A1 20181004</a>	BYD CO LTD	BATTERY COVER PLATE ASSEMBLY, SINGLE BATTERY, BATTERY MODULE, POWER BATTERY PACK AND ELECTRIC CAR
<a href="#">WO 2018179580 A1 20181004</a>	MURATA MANUFACTURING CO	ALL-SOLID-STATE BATTERY, ELECTRONIC DEVICE, ELECTRONIC CARD, WEARABLE DEVICE AND ELECTRIC VEHICLE
<a href="#">WO 2018179885 A1 20181004</a>	PANASONIC IP MAN CO LTD	SECONDARY BATTERY
<a href="#">WO 2018186528 A1 20181011</a>	KOREA ELECTRIC POWER CORP	CONVERTER-SEPARATED ELECTRIC VEHICLE CHARGING SYSTEM, AND ELECTRIC VEHICLE CHARGING APPARATUS INSTALLED ON UTILITY POLE
<a href="#">WO 2018184215 A1 20181011</a>	VALEO SIEMENS EAUTOMOTIVE SHENZHEN CO LTD	A BATTERY CHARGER FOR USE IN AN ELECTRICAL OR HYBRID VEHICLE
<a href="#">WO 2018186601 A1 20181011</a>	SAMSUNG SDI CO LTD	BATTERY PACK
<a href="#">WO 2018186527 A1 20181011</a>	KOREA ELECTRIC POWER CORP	ELECTRIC CAR CHARGING APPARATUS INSTALLED ON UTILITY POLE AND BASED ON LOAD OF TRANSFORMER CONNECTED TO DISTRIBUTION LINE, ELECTRIC CAR CHARGING SYSTEM, AND METHOD FOR CONTROLLING ELECTRIC CAR CHARGING APPARATUS INSTALLED ON UTILITY POLE
<a href="#">WO 2018184863 A1 20181011</a>	LION SMART GMBH	DETECTION DEVICE, BATTERY STACK, AND METHOD FOR MOUNTING A DETECTION DEVICE
<a href="#">WO 2018189676 A2 20181018</a>	DETROIT ELECTRIC EV LTD	SENSOR ARRANGEMENT FOR BATTERY UNIT OF ELECTRICAL VEHICLE
<a href="#">WO 2018198595 A1 20181101</a>	AUTONETWORKS TECHNOLOGIES LTD	IN-VEHICLE POWER SUPPLY SYSTEM, IN-VEHICLE CONTROL DEVICE, AND POWER SUPPLY CONTROL METHOD
<a href="#">WO 2018207607 A1 20181115</a>	SANYO ELECTRIC CO	POWER SUPPLY DEVICE, VEHICLE EQUIPPED WITH SAME, POWER STORAGE DEVICE AND SEPARATOR FOR POWER SUPPLY DEVICE
<a href="#">WO 2018207545 A1 20181115</a>	CALSONIC KANSEI UNIV KEIO	SYSTEM IDENTIFICATION DEVICE AND SYSTEM IDENTIFICATION METHOD
<a href="#">WO 2018208020 A1 20181115</a>	LG CHEMICAL LTD	BATTERY CELL, BATTERY MODULE, BATTERY PACK COMPRISING SAME AND VEHICLE
<a href="#">WO 2018206282 A1 20181115</a>	LITHIUM ENERGY & POWER GMBH & CO KG	BATTERY MODULE WITH REDUCED SHORT CIRCUIT CURRENT
<a href="#">WO 2018212447 A1 20181122</a>	SAMSUNG SDI CO LTD	SECONDARY BATTERY

<a href="#">WO 2018212568 A1 20181122</a>	LG CHEMICAL LTD	METHOD FOR MANUFACTURING SOLID ELECTROLYTE MEMBRANE FOR SOLID-STATE BATTERY AND SOLID ELECTROLYTE MEMBRANE MANUFACTURED BY SAME METHOD
<a href="#">WO 2018213312 A1 20181122</a>	UNIV CORNELL	MULTI-LAYERED GRAPHENE ELECTRODES, MATERIALS, AND PRECURSORS THEREOF
<a href="#">WO 2018215131 A1 20181129</a>	BOSCH GMBH ROBERT	ARRESTER ELEMENT FOR AN ELECTRODE ASSEMBLY OF A PLURALITY OF ELECTROCHEMICAL CELLS
<a href="#">WO 2018215112 A1 20181129</a>	MAHLE INT GMBH	TEMPERATURE CONTROL PLATE
<a href="#">WO 2018181243 A1 20181004</a>	MITSUI CHEMICALS INC	LITHIUM ION SECONDARY BATTERY
<a href="#">WO 2018186664 A1 20181011</a>	LG CHEMICAL LTD	END PLATE, BATTERY MODULE, BATTERY PACK INCLUDING BATTERY MODULE, AND AUTOMOBILE INCLUDING BATTERY PACK
<a href="#">WO 2018186616 A1 20181011</a>	LG CHEMICAL LTD	BATTERY PACK HAVING CRASH BEAM AND DRAINAGE STRUCTURE
<a href="#">WO 2018184422 A1 20181011</a>	ZTE CORP	BATTERY MANAGEMENT METHOD, DEVICE AND SYSTEM
<a href="#">WO 2018190464 A1 20181018</a>	KOREA ELECTRIC POWER CORP	ELECTRIC VEHICLE CHARGING DEVICE INSTALLED ON ELECTRIC POLE AND CONTROLLING CHARGING CABLE EXTENSION LENGTH, AND METHOD FOR CONTROLLING ELECTRIC VEHICLE CHARGING DEVICE PROVIDED ON ELECTRIC POLE
<a href="#">WO 2018190107 A1 20181018</a>	SANYO ELECTRIC CO	MONITORING SYSTEM
<a href="#">WO 2018193631 A1 20181025</a>	HITACHI CHEMICAL CO LTD	POLYMER ELECTROLYTE COMPOSITION AND POLYMER SECONDARY BATTERY
<a href="#">WO 2018198458 A1 20181101</a>	HITACHI AUTOMOTIVE SYSTEMS LTD	BATTERY PACK
<a href="#">WO 2018199449 A1 20181101</a>	LG CHEMICAL LTD	RECYCLABLE POUCH-TYPE SECONDARY BATTERY, BATTERY MODULE COMPRISING SAME, AND BATTERY MODULE RECYCLING METHOD
<a href="#">WO 2018198617 A1 20181101</a>	NIPPON ELECTRIC GLASS CO	POSITIVE ELECTRODE ACTIVE MATERIAL FOR SODIUM ION SECONDARY BATTERY
<a href="#">WO 2018198612 A1 20181101</a>	KANEKA CORP	NONAQUEOUS ELECTROLYTE SECONDARY BATTERY AND METHOD FOR PRODUCING SAME
<a href="#">WO 2018198494 A1 20181101</a>	OHARA KK	ALL-SOLID-STATE BATTERY
<a href="#">WO 2018199702 A1 20181101</a>	LG CHEMICAL LTD	CATHODE, SECONDARY BATTERY COMPRISING SAME, AND METHOD FOR MANUFACTURING SAME CATHODE
<a href="#">WO 2018197247 A1 20181101</a>	PHOENIX CONTACT E MOBILITY GMBH	PLUG CONNECTOR PART HAVING A TEMPERATURE-MONITORING DEVICE
<a href="#">WO 2018198614 A1 20181101</a>	CLARION CO LTD	RECOMMENDED DRIVING OUTPUT DEVICE, RECOMMENDED DRIVING OUTPUT METHOD AND RECOMMENDED DRIVING OUTPUT SYSTEM
<a href="#">WO 2018199521 A1 20181101</a>	LG CHEMICAL LTD	BATTERY MODULE, BATTERY PACK COMPRISING BATTERY MODULE, AND AUTOMOBILE COMPRISING BATTERY PACK
<a href="#">WO 2018201427 A1 20181108</a>	BOSCH GMBH ROBERT	LITHIUM ION BATTERY AND PRELITHIATION METHOD OF ANODE
<a href="#">WO 2018203168 A1 20181108</a>	SEMICONDUCTOR ENERGY LAB	MANUFACTURING METHOD FOR POSITIVE ELECTRODE ACTIVE MATERIAL PARTICLES, AND SECONDARY BATTERY
<a href="#">WO 2018207333 A1 20181115</a>	HITACHI CHEMICAL CO LTD	LITHIUM ION SECONDARY BATTERY NEGATIVE ELECTRODE MATERIAL, LITHIUM ION SECONDARY BATTERY NEGATIVE ELECTRODE MATERIAL PRODUCTION METHOD, LITHIUM ION SECONDARY BATTERY NEGATIVE ELECTRODE, AND LITHIUM ION SECONDARY BATTERY
<a href="#">WO 2018207643 A1 20181115</a>	NISSAN MOTOR	BIPOLAR SECONDARY BATTERY
<a href="#">WO 2018210363 A1 20181122</a>	GENTHERM GMBH	TEMPERATURE MANAGEMENT DEVICE FOR VEHICLE BATTERIES
<a href="#">WO 2018216902 A1 20181129</a>	SAMSUNG SDI CO LTD	SECONDARY BATTERY
<a href="#">WO 2018217051 A1 20181129</a>	HEESUNG PREC CO LTD	METHOD FOR MANUFACTURING ELECTRIC CAR BATTERY COOLING DEVICE
<a href="#">WO 2018179767 A1 20181004</a>	DAIKIN IND LTD	ELECTROLYTE SOLUTION, ELECTROCHEMICAL DEVICE, LITHIUM ION SECONDARY BATTERY AND MODULE
<a href="#">WO 2018182088 A1 20181004</a>	LSIS CO LTD	ELECTRIC VEHICLE CHARGING SYSTEM

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<a href="#">WO 2018186660 A1 20181011</a>	LG CHEMICAL LTD	BATTERY MODULE, AND BATTERY PACK AND VEHICLE COMPRISING SAME
<a href="#">WO 2018184469 A1 20181011</a>	NINGBO GEELY AUTOMOBILE RES & DEVELOPMENT CO LTD	A DEVICE FOR A WIRELESS POWER TRANSFER SYSTEM
<a href="#">WO 2018199439 A1 20181101</a>	SAMSUNG SDI CO LTD	RECHARGEABLE BATTERY
<a href="#">WO 2018209282 A1 20181115</a>	JOHNSON CONTROLS TECH CO	VENT PLUG FOR A BATTERY MODULE
<a href="#">WO 2018208034 A1 20181115</a>	LG CHEMICAL LTD	METHOD FOR MANUFACTURING NEGATIVE ELECTRODE FOR LITHIUM SECONDARY BATTERY
<a href="#">WO 2018209571 A1 20181122</a>	BAYERISCHE MOTOREN WERKE AG	SMART CHARGING SCHEDULING APPARATUS AND METHOD FOR ELECTRIC VEHICLE
<a href="#">WO 2018210420 A1 20181122</a>	THYSSENKRUPP STEEL EUROPE AG	BATTERY HOUSING
<a href="#">WO 2018192913 A1 20181025</a>	BAYERISCHE MOTOREN WERKE AG	ASSEMBLY FOR SECURING A VEHICLE BATTERY ON A BODY OF A MOTOR VEHICLE, AND METHOD FOR MOUNTING A VEHICLE BATTERY IN A MOTOR VEHICLE
<a href="#">WO 2018201125 A1 20181101</a>	UNIV TEXAS	MULTIPHASE METAL FOILS AS INTEGRATED METAL ANODES FOR NON-AQUEOUS BATTERIES
<a href="#">WO 2018213484 A1 20181122</a>	UNIV CORNELL	HYBRID SEPARATORS AND THE MANUFACTURE THEREOF
<a href="#">WO 2018186597 A1 20181011</a>	LG CHEMICAL LTD	METHOD FOR MANUFACTURING LITHIUM SECONDARY BATTERY
<a href="#">WO 2018184216 A1 20181011</a>	VALEO SIEMENS EAUTOMOTIVE SHENZHEN CO LTD	A BATTERY CHARGER FOR USE IN AN ELECTRICAL OR HYBRID VEHICLE
<a href="#">WO 2018208801 A1 20181115</a>	KELVIN THERMAL TECH INC	THERMAL MANAGEMENT PLANES

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## SUPERCONDENSADORES

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
<a href="#">WO 2018233987 A1 20181227</a>	BAYERISCHE MOTOREN WERKE AG	DC LINK CAPACITOR
<a href="#">WO 2018224279 A1 20181213</a>	LITHIUM ENERGY & POWER GMBH & CO KG	NONAQUEOUS ELECTROLYTE ENERGY STORAGE DEVICE
<a href="#">WO 2018220795 A1 20181206</a>	HITACHI CHEMICAL CO LTD	ELECTROLYTIC SOLUTION AND ELECTROCHEMICAL DEVICE
<a href="#">WO 2018221671 A1 20181206</a>	HITACHI CHEMICAL CO LTD	ELECTROLYTIC SOLUTION AND ELECTROCHEMICAL DEVICE
<a href="#">WO 2018181856 A1 20181004</a>	MURATA MANUFACTURING CO	NON-AQUEOUS ELECTROLYTES AND ELECTROLYTIC SOLUTIONS COMPRISING ELECTROLYTE STABILIZING MATERIALS, SECONDARY BATTERIES COMPRISING THE SAME, AND USES THEREOF
<a href="#">WO 2018220997 A1 20181206</a>	HITACHI CHEMICAL CO LTD	ELECTROLYTIC SOLUTION AND ELECTROCHEMICAL DEVICE
<a href="#">WO 2018220799 A1 20181206</a>	HITACHI CHEMICAL CO LTD	ELECTROLYTIC SOLUTION AND ELECTROCHEMICAL DEVICE
<a href="#">WO 2018193266 A1 20181025</a>	SEVCON LTD	DC-DC CONVERTER
<a href="#">WO 2018186573 A1 20181011</a>	SAMSUNG SDI CO LTD	POWER SUPPLY SYSTEM FOR DRIVING VEHICLE
<a href="#">WO 2018186068 A1 20181011</a>	DAIKIN IND LTD	ELECTROLYTIC SOLUTION, ELECTROCHEMICAL DEVICE, LITHIUM-ION SECONDARY CELL, AND MODULE
<a href="#">WO 2018186609 A1 20181011</a>	LG INNOTEK CO LTD	POWER SUPPLY DEVICE

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## SISTEMAS DE RECUPERACIÓN DE ENERGÍA; FRENOS REGENERATIVOS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
<a href="#">WO 2018222091 A1 20181206</a>	SHAYYISH AHMED ABED SHAYYISH THATHAA	SHAYYISH ENGINE
<a href="#">WO 2018178924 A1 20181004</a>	DUCERE HOLDINGS PTY LTD	A HYBRID DRIVE SYSTEM COMPRISING DUAL HYDRAULIC MECHANISMS
<a href="#">WO 2018178919 A1 20181004</a>	DUCERE HOLDINGS PTY LTD	A HYBRID DRIVE SYSTEM
<a href="#">WO 2018189891 A1 20181018</a>	NISSAN MOTOR	HYBRID VEHICLE CONTROL METHOD AND HYBRID VEHICLE CONTROL DEVICE
<a href="#">WO 2018221269 A1 20181206</a>	HITACHI AUTOMOTIVE SYSTEMS LTD	CONTROL DEVICE FOR ELECTRIC VEHICLE, SYSTEM FOR CONTROLLING ELECTRIC VEHICLE, AND METHOD FOR CONTROLLING ELECTRIC VEHICLE
<a href="#">WO 2018189904 A1 20181018</a>	NISSAN MOTOR	ELECTRIC VEHICLE CONTROL METHOD AND ELECTRIC VEHICLE CONTROL DEVICE
<a href="#">WO 2018219593 A1 20181206</a>	ZAHNRADFABRIK FRIEDRICHSHAFEN	FLYWHEEL START CLUTCH ARRANGEMENT AND DRIVETRAIN DEVICE
<a href="#">WO 2018214588 A1 20181129</a>	HUAWEI TECH CO LTD	BRAKE ENERGY RECOVERY METHOD AND ELECTRIC VEHICLE
<a href="#">WO 2018185720 A1 20181011</a>	FRENI BREMBO SPA	METHOD AND SYSTEM FOR CONTROLLING THE REGENERATIVE BRAKING TORQUE OF A VEHICLE
<a href="#">WO 2018189907 A1 20181018</a>	NISSAN MOTOR	CONTROL METHOD AND CONTROL DEVICE FOR FOUR-WHEEL DRIVE ELECTRIC VEHICLE
<a href="#">WO 2018189896 A1 20181018</a>	NISSAN MOTOR	ELECTRIC VEHICLE CONTROL DEVICE AND ELECTRIC VEHICLE CONTROL METHOD
<a href="#">WO 2018190022 A1 20181018</a>	NISSAN MOTOR	CONTROL METHOD AND CONTROL DEVICE FOR HYBRID VEHICLE
<a href="#">WO 2018189897 A1 20181018</a>	NISSAN MOTOR	ELECTRIC VEHICLE CONTROL DEVICE AND ELECTRIC VEHICLE CONTROL METHOD
<a href="#">WO 2018190021 A1 20181018</a>	NISSAN MOTOR	CONTROL METHOD AND CONTROL DEVICE FOR ELECTRIC VEHICLE
<a href="#">WO 2018206557 A1 20181115</a>	BAYERISCHE MOTOREN WERKE AG	MANUAL AND INDIVIDUAL CONFIGURATION OF A RECUPERATION BEHAVIOR

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## MÁQUINAS ELÉCTRICAS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
<a href="#">WO 2018229670 A1 20181220</a>	BARUFFALDI SPA	MIXED HYBRID-OPERATION GROUP FOR RECIRCULATING AND COOLING THE COOLING FLUID OF A VEHICLE
<a href="#">WO 2018178175 A1 20181004</a>	SIEMENS AG	ELECTRICAL MACHINE AND METHOD FOR OPERATING SUCH AN ELECTRICAL MACHINE
<a href="#">WO 2018222988 A1 20181206</a>	DANA HEAVY VEHICLE SYS GROUP	AN AXLE ASSEMBLY
<a href="#">WO 2018179871 A1 20181004</a>	JFE STEEL CORP	METHOD FOR MANUFACTURING NON-ORIENTED ELECTROMAGNETIC STEEL PLATE, METHOD FOR MANUFACTURING MOTOR CORE, AND MOTOR CORE
<a href="#">WO 2018220046 A2 20181206</a>	FLET GMBH	ELECTRIC CAR
<a href="#">WO 2018227259 A1 20181220</a>	IVANOV LVAYLO IVANOV	ELECTRIC OR HYBRID VEHICLE BATTERY CHARGING DEVICE
<a href="#">WO 2018231881 A2 20181220</a>	MULTIQUIP INC	HYBRID DRIVE TRAIN FOR SELF PROPELLED POWER TROWEL
<a href="#">WO 2018225696 A1 20181213</a>	NTN TOYO BEARING CO LTD	GENERATOR-EQUIPPED WHEEL BEARING DEVICE AND SYSTEM FOR VEHICLES
<a href="#">WO 2018225695 A1 20181213</a>	NTN TOYO BEARING CO LTD	WHEEL BEARING SYSTEM WITH GENERATOR
<a href="#">WO 2018235145 A1 20181227</a>	NISSAN MOTOR	ROTATING ELECTRIC MACHINE ROTOR
<a href="#">WO 2018215916 A1 20181129</a>	BOSCO ALEJANDRO	ELECTRIC MOTOR AND WINDING METHOD
<a href="#">WO 2018221464 A1 20181206</a>	DENSO CORP	HYBRID VEHICLE CONTROL APPARATUS
<a href="#">WO 2018215273 A1 20181129</a>	VOLKSWAGEN AG	METHOD FOR CONTROLLING A DRIVE DEVICE OF A HYBRID VEHICLE AND HYBRID VEHICLE
<a href="#">WO 2018185061 A1 20181011</a>	MMT AG	TEMPERATURE-CONTROLLED HIGH-POWER ELECTRIC MACHINE
<a href="#">WO 2018197133 A1 20181101</a>	ZAHNRADFABRIK FRIEDRICHSHAFEN	SEGMENTED STATOR FOR AN ELECTRIC MOTOR OF THE INTERNAL ROTOR TYPE
<a href="#">WO 2018179672 A1 20181004</a>	AISIN AW CO	CONTROL APPARATUS
<a href="#">WO 2018192770 A1 20181025</a>	MAGNA POWERTRAIN GMBH & CO KG	DRIVE TRAIN FOR A HYBRID VEHICLE, IN PARTICULAR FOR A TEMPORARILY FOUR-WHEEL-DRIVEN MOTOR VEHICLE
<a href="#">WO 2018213919 A1 20181129</a>	DPM TECH INC	VARIABLE COIL CONFIGURATION SYSTEM CONTROL, APPARATUS AND METHOD
<a href="#">WO 2018215021 A1 20181129</a>	SCHAEFFLER TECHNOLOGIES AG	DRIVE DEVICE FOR A MOTOR VEHICLE
<a href="#">WO 2018223017 A1 20181206</a>	MAGNA INT INC	SYSTEM AND METHOD FOR INTEGRATED BATTERY CHARGING AND PROPULSION IN PLUG-IN ELECTRIC VEHICLES
<a href="#">WO 2018221126 A1 20181206</a>	JFE STEEL CORP	NON-ORIENTED ELECTROMAGNETIC STEEL SHEET AND PRODUCTION METHOD THEREFOR
<a href="#">WO 2018190400 A1 20181018</a>	HITACHI CONSTRUCTION MACH CO	ELECTRICITY STORAGE DEVICE CONTROLLER, ELECTRIC SYSTEM, AND CONSTRUCTION MACHINE
<a href="#">WO 2018214238 A1 20181129</a>	SHENZHEN TATFOOK TECH CO LTD	HUB MOTOR, AUTOMOBILE WHEEL, AND AUTOMOBILE
<a href="#">WO 2018177362 A1 20181004</a>	BYD CO LTD	HYBRID ELECTRIC VEHICLE AND POWER SYSTEM THEREOF
<a href="#">WO 2018189521 A1 20181018</a>	ADVANCED RISC MACH LTD	MOTOR DRIVER AND A METHOD OF OPERATING THEREOF
<a href="#">WO 2018209009 A1 20181115</a>	PERRY CHARLES HAMPTON	DUAL-STATOR SWITCHED RELUCTANCE MOTOR AND SWITCHED RELUCTANCE APPARATUS FOR HYBRID VEHICLES
<a href="#">WO 2018181352 A1 20181004</a>	AISIN AW CO	DRIVE DEVICE FOR VEHICLE
<a href="#">WO 2018177357 A1 20181004</a>	BYD CO LTD	VEHICLE CONTROL METHOD AND POWER SYSTEM FOR HYBRID ELECTRIC VEHICLE
<a href="#">WO 2018206890 A1 20181115</a>	RENAULT SAS	SYSTEM FOR THE OIL COOLING OF AN ELECTRICAL MACHINE
	NISSAN MOTOR	
<a href="#">WO 2018216579 A1 20181129</a>	DENSO CORP	CONTROL DEVICE AND ON-BOARD SYSTEM
<a href="#">WO 2018180379 A1 20181004</a>	OKAYAMA PREFECTURE	IN-WHEEL MOTOR

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<a href="#">WO 2018179923 A1 20181004</a>	AISIN AW CO	CORE MANUFACTURING METHOD AND CORE
<a href="#">WO 2018181238 A1 20181004</a>	NTN TOYO BEARING CO LTD	IN-WHEEL MOTOR DRIVE DEVICE
<a href="#">WO 2018206846 A1 20181115</a>	L7 DRIVE OY	DC TO DC VOLTAGE CONVERTER AND VOLTAGE CONVERTER CONTROL SCHEME
<a href="#">WO 2018216594 A1 20181129</a>	HITACHI METALS LTD	FERRITE SINTERED MAGNET
<a href="#">WO 2018210355 A1 20181122</a>	REPTA JAROSLAV	AC GENERATOR FOR VEHICLES

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## CONVERTIDORES, INVERSORES

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
<a href="#">WO 2018230267 A1 20181220</a>	SANDEN AUTOMOTIVE COMPONENTS CORP	INVERTER-INTEGRATED ELECTRIC COMPRESSOR
<a href="#">WO 2018225402 A1 20181213</a>	HITACHI AUTOMOTIVE SYSTEMS LTD	POWER CONVERSION DEVICE AND METHOD FOR DEBUGGING THEREOF
<a href="#">WO 2018229378 A1 20181220</a>	RENAULT SAS NISSAN MOTOR	METHOD FOR CONTROLLING A THREE-PHASE VIENNA RECTIFIER
<a href="#">WO 2018220284 A1 20181206</a>	VALEO SIEMENS EAUTOMOTIVE FRANCE SAS	METHOD FOR OPTIMIZING THE DURATION OF A DEAD TIME DURING THE OPERATIONS OF SWITCHING A FREQUENCY-CONTROLLED SWITCH ARM
<a href="#">WO 2018225139 A1 20181213</a>	MITSUBISHI ELECTRIC CORP	CONTROL DEVICE FOR PERMANENT MAGNET TYPE ROTATING ELECTRICAL MACHINE
<a href="#">WO 2018235438 A1 20181227</a>	HITACHI AUTOMOTIVE SYSTEMS LTD	DC-DC CONVERTER, POWER SUPPLY SYSTEM USING DC-DC CONVERTER, AND AUTOMOBILE USING POWER SUPPLY SYSTEM
<a href="#">WO 2018220037 A1 20181206</a>	UNIV STUTTART	METHOD FOR OPERATING A DC VOLTAGE CONVERTER WITH HIGH EFFICIENCY BY MEANS OF DYNAMIC REGULATION OF COIL INDUCTANCE
<a href="#">WO 2018221296 A1 20181206</a>	MITSUBISHI ELECTRIC	POWER CONVERSION DEVICE
<a href="#">WO 2018229929 A1 20181220</a>	NISSAN MOTOR	POWER CONVERSION DEVICE
<a href="#">WO 2018219905 A1 20181206</a>	VALEO SIEMENS EAUTOMOTIVE FRANCE SAS	DC-DC CONVERTER FOR AN ELECTRIC OR HYBRID VEHICLE
<a href="#">WO 2018222373 A1 20181206</a>	GEN ELECTRIC	ENERGY STORAGE SYSTEM WITH STRING BALANCE FUNCTION
<a href="#">WO 2018179662 A1 20181004</a>	HITACHI LTD	POWER CONVERSION DEVICE AND POWER CONVERSION METHOD
<a href="#">WO 2018180480 A1 20181004</a>	AUTONETWORKS TECHNOLOGIES LTD	CONNECTOR
<a href="#">WO 2018181838 A1 20181004</a>	JNC CORP	COMPOSITION FOR HEAT DISSIPATION MEMBERS, HEAT DISSIPATION MEMBER, ELECTRONIC DEVICE, AND METHOD FOR PRODUCING HEAT DISSIPATION MEMBER
<a href="#">WO 2018216646 A1 20181129</a>	MITSUBISHI ELECTRIC CORP	SEMICONDUCTOR DEVICE
<a href="#">WO 2018178403 A1 20181004</a>	CENTUM ADETEL TRANSP	HYBRID POWER CELL
<a href="#">WO 2018185905 A1 20181011</a>	MITSUBISHI ELECTRIC CORP	POWER CONVERSION DEVICE
<a href="#">WO 2018177358 A1 20181004</a>	BYD CO LTD	HYBRID ELECTRIC VEHICLE, POWER SYSTEM THEREOF, AND POWER GENERATION CONTROL METHOD THEREFOR
<a href="#">WO 2018180368 A1 20181004</a>	AUTONETWORKS TECHNOLOGIES LTD	FEMALE TERMINAL
<a href="#">WO 2018181839 A1 20181004</a>	JNC CORP	LAMINATED BODY, ELECTRONIC APPARATUS, AND METHOD FOR MANUFACTURING LAMINATED BODY
<a href="#">WO 2018192754 A1 20181025</a>	BOSCH GMBH ROBERT	ISOLATED DC/DC CONVERTER FOR CONTROLLING POWER FLOWS BETWEEN THREE DC TERMINALS
<a href="#">WO 2018181332 A1 20181004</a>	AISIN AW CO	ROTATING ELECTRICAL MACHINE CONTROL DEVICE
<a href="#">WO 2018184814 A1 20181011</a>	BOSCH GMBH ROBERT	DEVICE AND METHOD FOR ACTUATING AN INVERTER
<a href="#">WO 2018177356 A1 20181004</a>	BYD CO LTD	HYBRID ELECTRIC VEHICLE AND POWER SYSTEM THEREOF, AND POWER GENERATION CONTROL METHOD
<a href="#">WO 2018179773 A1 20181004</a>	HITACHI AUTOMOTIVE SYSTEMS LTD	POWER CONVERSION DEVICE
<a href="#">WO 2018181541 A1 20181004</a>	AISIN AW CO	DRIVE DEVICE
<a href="#">WO 2018202513 A1 20181108</a>	BOSCH GMBH ROBERT	METHOD FOR CONTROLLING A RECTIFIER, CONTROL DEVICE FOR A RECTIFIER AND RECTIFIER
<a href="#">WO 2018193621 A1 20181025</a>	MITSUBISHI ELECTRIC CORP	CONNECTION STRUCTURE FOR POWER CONVERSION DEVICE
<a href="#">WO 2018207240 A1 20181115</a>	NISSAN MOTOR	COOLING STRUCTURE OF POWER CONVERSION DEVICE
<a href="#">WO 2018211580 A1 20181122</a>	NISSAN MOTOR	POWER CONVERSION APPARATUS
<a href="#">WO 2018216441 A1 20181129</a>	AUTONETWORKS TECHNOLOGIES LTD	REACTOR

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<a href="#">WO 2018198883 A1 20181101</a>	DENSO CORP	POWER CONVERSION DEVICE
<a href="#">WO 2018207819 A1 20181115</a>	SEKISUI CHEMICAL CO LTD	INSULATING SHEET AND LAMINATE
<a href="#">WO 2018181929 A1 20181004</a>	HONDA MOTOR CO LTD	VEHICLE
<a href="#">WO 2018184217 A1 20181011</a>	VALEO SIEMENS EAUTOMOTIVE SHENZHEN CO LTD	VOLTAGE CONVERTER FOR USE IN ELECTRICAL OR HYBRID VEHICLE
<a href="#">WO 2018193929 A1 20181025</a>	mitsubishi electric corp	SEMICONDUCTOR MODULE AND POWER CONVERSION DEVICE
<a href="#">WO 2018193589 A1 20181025</a>	mitsubishi electric corp	FILTER MODULE FOR POWER CONVERSION DEVICE
<a href="#">WO 2018180484 A1 20181004</a>	AUTONETWORKS TECHNOLOGIES LTD	CONNECTOR
<a href="#">WO 2018179058 A1 20181004</a>	mitsubishi electric corp	ELECTRIC ROLLING STOCK PROPULSION CONTROL SYSTEM
<a href="#">WO 2018207820 A1 20181115</a>	SEKISUI CHEMICAL CO LTD	INSULATING SHEET AND LAMINATE
<a href="#">WO 2018202511 A1 20181108</a>	BOSCH GMBH ROBERT	METHOD FOR ACTUATING A CONVERTER, CONTROL APPARATUS FOR A CONVERTER, AND CONVERTER
<a href="#">WO 2018202510 A1 20181108</a>	BOSCH GMBH ROBERT	METHOD FOR CONTROLLING A RECTIFIER, CONTROL DEVICE FOR A RECTIFIER AND RECTIFIER

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## RECARGA DE BATERÍAS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
<a href="#">WO 2018219808 A1 20181206</a>	MAHLE INT GMBH	INDUCTIVE CHARGING DEVICE FOR AN ELECTRIC VEHICLE
<a href="#">WO 2018226583 A1 20181213</a>	CONTROL MODULE INC	SHUTTLE SYSTEM FOR OVERHEAD EVSE
<a href="#">WO 2018228731 A1 20181220</a>	INNOGY SE	CHARGING STATION
<a href="#">WO 2018232341 A1 20181220</a>	KRUSZELNICKI MARTIN	CHARGING CONNECTOR
<a href="#">WO 2018231673 A1 20181220</a>	S & C ELECTRIC CO	MULTI-FUNCTION ENERGY STATION
<a href="#">WO 2018229597 A1 20181220</a>	SEMICONDUCTOR ENERGY LAB	CHARGING CONTROL SYSTEM, CHARGING CONTROL METHOD, AND ELECTRONIC EQUIPMENT
<a href="#">WO 2018228930 A1 20181220</a>	PHOENIX CONTACT E MOBILITY GMBH	METHOD FOR DETECTING A PLUG-IN OPERATION
<a href="#">WO 2018233918 A1 20181227</a>	BOSCH GMBH ROBERT	METHOD FOR OPERATING A CHARGING DEVICE
<a href="#">WO 2018227307 A1 20181220</a>	GOVERNING COUNCIL UNIV TORONTO	CONSTANT CURRENT FAST CHARGING OF ELECTRIC VEHICLES VIA DC GRID USING DUAL INVERTER DRIVE
<a href="#">WO 2018230187 A1 20181220</a>	HITACHI AUTOMOTIVE SYSTEMS LTD	BATTERY MONITORING DEVICE
<a href="#">WO 2018219544 A1 20181206</a>	AUDI AG	METHOD FOR OPERATING A VEHICLE CHARGING APPARATUS, VEHICLE CHARGING APPARATUS, AND SYSTEM COMPRISING A SENSOR APPARATUS AND A VEHICLE CHARGING APPARATUS
<a href="#">WO 2018220900 A1 20181206</a>	MITSUBISHI ELECTRIC CORP	POWER SUPPLY DEVICE
<a href="#">WO 2018219643 A1 20181206</a>	BOSCH GMBH ROBERT	DISCHARGE CIRCUIT AND METHOD FOR DISCHARGING A HIGH-VOLTAGE DC LINK OF A VEHICLE
<a href="#">WO 2018236608 A1 20181227</a>	INTEL CORP	SITUATIONAL BATTERY CHARGING
<a href="#">WO 2018179774 A1 20181004</a>	TOYOTA CHUO KENKYUSHO KK	POWER SUPPLY DEVICE
<a href="#">WO 2018189688 A1 20181018</a>	ADDVOLT S A	DIRECT CURRENT TO ALTERNATING CURRENT POWER SUPPLY BIDIRECTIONAL SYSTEM FOR VEHICLES OR CONTAINERS WITH ELECTRICAL EQUIPMENT HAVING AN ELECTRICAL GRID CONNECTION
<a href="#">WO 2018216791 A1 20181129</a>	ISUZU MOTORS LTD	ELECTRIC VEHICLE CONTROL DEVICE AND ELECTRIC VEHICLE
<a href="#">WO 2018218306 A1 20181206</a>	ENG & ARTIST PTY LTD	A CHARGER FOR CHARGING AN ELECTRIC VEHICLE
<a href="#">WO 2018224345 A1 20181213</a>	SIEMENS AG	COOLING A LIQUID-COOLED CHARGE CABLE AND PLUG COMBINATION
<a href="#">WO 2018182914 A1 20181004</a>	QUALCOMM INC	IN SYSTEM RECONFIGURABLE RECTIFIER/POWER CONVERTERS FOR WIRED AND WIRELESS CHARGING
<a href="#">WO 2018192960 A1 20181025</a>	ABB SCHWEIZ AG	CHARGING DEVICE FOR ELECTRIC VEHICLES
<a href="#">WO 2018192697 A1 20181025</a>	INNOFAS GMBH	TEST BENCH FOR TESTING FOR CONTACTLESS CHARGING
<a href="#">WO 2018215085 A1 20181129</a>	MAGMENT UG HAFTUNGSBESCHRAENKT	METHOD FOR REDUCING STRAY FIELDS IN INDUCTIVE ENERGY TRANSMISSION
<a href="#">WO 2018217941 A1 20181129</a>	KRUSZELNICKI MARTIN	CHARGING STATION SYSTEM AND METHOD
<a href="#">WO 2018219618 A1 20181206</a>	BOSCH GMBH ROBERT	METHOD AND APPARATUS FOR LOCATING A VEHICLE FOR AN INDUCTIVE ENERGY TRANSMISSION
<a href="#">WO 2018190260 A1 20181018</a>	MURATA MANUFACTURING CO	CHARGING DEVICE, CHARGING METHOD, SECONDARY BATTERY, BATTERY PACK, ELECTRIC VEHICLE, ELECTRICITY STORAGE DEVICE, ELECTRONIC DEVICE, AND ELECTRICITY STORAGE SYSTEM
<a href="#">WO 2018208991 A1 20181115</a>	UNIV NORTH CAROLINA STATE	MODULAR MEDIUM VOLTAGE FAST CHARGERS
<a href="#">WO 2018213450 A1 20181122</a>	HUBBELL INC	ELECTRIC VEHICLE CHARGER WITH LOAD SHEDDING
<a href="#">WO 2018214261 A1 20181129</a>	CONTEMPORARY AMPEREX TECH CO LIMITED	PROCESSING METHOD FOR LOW-CHARGE CONDITION, AND PROCESSING DEVICE FOR LOW-CHARGE CONDITION
<a href="#">WO 2018216790 A1 20181129</a>	ISUZU MOTORS LTD	ELECTRIC VEHICLE CONTROL DEVICE AND ELECTRIC VEHICLE

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<a href="#">WO 2018224330 A1 20181213</a>	BOSCH GMBH ROBERT	METHOD AND APPARATUS FOR OPERATING AN ELECTRICAL ENERGY ACCUMULATOR SYSTEM, AND ELECTRICAL ENERGY ACCUMULATOR SYSTEM COMPRISING SAID APPARATUS, AND CORRESPONDING USE THEREOF
<a href="#">WO 2018215201 A1 20181129</a>	INNOGY SE	CHARGING UNIT HAVING A DISPLAY DEVICE
<a href="#">WO 2018215864 A1 20181129</a>	SEMICONDUCTOR ENERGY LAB	CHARGING CONTROL SYSTEM AND CHARGING CONTROL DEVICE
<a href="#">WO 2018222758 A1 20181206</a>	WIRELESS ADVANCED VEHICLE ELECTRIFICATION INC	SINGLE FEED MULTI-PAD WIRELESS CHARGING
<a href="#">WO 2018226109 A1 20181213</a>	EVGRID SPOLKA Z OGRANICZONA ODPOWIEDZIALNOSCIA	CHARGING STATION FOR ELECTRIC VEHICLES
<a href="#">WO 2018224553 A1 20181213</a>	SIEMENS AG	CHARGE CONTROLLER AND CHARGING SYSTEM
<a href="#">WO 2018197206 A1 20181101</a>	BOSCH GMBH ROBERT	CIRCUIT AND CHARGING METHOD FOR AN ELECTRICAL ENERGY STORAGE SYSTEM
<a href="#">WO 2018213453 A1 20181122</a>	HUBBELL INC	AUTOMATED ELECTRIC VEHICLE CHARGING
<a href="#">WO 2018177772 A1 20181004</a>	BOSCH GMBH ROBERT	DC-TO-DC VOLTAGE CONVERTER, VOLTAGE SUPPLY DEVICE, AND DIAGNOSTIC METHOD FOR A DC-TO-DC VOLTAGE CONVERTER
<a href="#">WO 2018182608 A1 20181004</a>	CUMMINS INC	HYBRID VEHICLE LOAD MANAGEMENT
<a href="#">WO 2018189438 A1 20181018</a>	PSA AUTOMOBILES SA	METHOD FOR CONTROLLING THE TEMPERATURE OF A BATTERY SYSTEM FOR FAST CHARGING OF AN ELECTRIC MOTOR VEHICLE
<a href="#">WO 2018190020 A1 20181018</a>	HITACHI LTD	COMBINED POWER STORAGE SYSTEM
<a href="#">WO 2018217752 A1 20181129</a>	INSKEEP MATHEW	BATTERY CHARGER WITH DETACHABLE BATTERY
<a href="#">WO 2018217464 A1 20181129</a>	QUALCOMM INC	MULTI-MODE WIRELESS POWER RECEIVER CONTROL
<a href="#">WO 2018215137 A1 20181129</a>	AUDI AG	CONTACTLESS MOTOR VEHICLE-CHARGING DEVICE, COMPONENT OF A CONTACTLESS MOTOR VEHICLE-CHARGING DEVICE, METHOD FOR CONTROLLING A CONTACTLESS MOTOR VEHICLE-CHARGING DEVICE AND A MOTOR VEHICLE HAVING A CONTACTLESS MOTOR VEHICLE-CHARGING DEVICE
<a href="#">WO 2018180438 A1 20181004</a>	PANASONIC IP MAN CO LTD	ELECTRICITY SALE INFORMATION NOTIFICATION DEVICE, ELECTRICITY SALE INFORMATION NOTIFICATION METHOD, AND CHARGING SYSTEM
<a href="#">WO 2018188894 A1 20181018</a>	BAYERISCHE MOTOREN WERKE AG	CHARGING-SWITCHING ARRANGEMENT FOR A VEHICLE AND METHOD FOR A CHARGING-SWITCHING ARRANGEMENT
<a href="#">WO 2018192224 A1 20181025</a>	BEIJING LINGYUN INTELLIGENT TECH CO LTD	BATTERY SWITCHING METHOD AND APPARATUS, AND SWITCHING SYSTEM AND METHOD FOR POWER SUPPLY CIRCUIT
<a href="#">WO 2018192805 A1 20181025</a>	PHOENIX CONTACT E MOBILITY GMBH	CHARGING PLUG FOR A MOTOR VEHICLE, AND LOAD CONTACT MODULE FOR A CHARGING PLUG
<a href="#">WO 2018198668 A1 20181101</a>	PANASONIC IP MAN CO LTD	POWER SUPPLYING DEVICE, POWER STORAGE SYSTEM, AND CHARGING METHOD
<a href="#">WO 2018211263 A1 20181122</a>	BRITISH GAS TRADING LTD	HEAT AND POWER GENERATION AND STORAGE SYSTEM
<a href="#">WO 2018211272 A1 20181122</a>	PRITCHARD DECLAN NIGEL	ENHANCEMENT OF ELECTRIC VEHICLES AND THEIR EFFECTIVE BATTERY STORAGE CAPACITY
<a href="#">WO 2018180973 A1 20181004</a>	HONDA MOTOR CO LTD	NON-CONTACT POWER TRANSMISSION SYSTEM
<a href="#">WO 2018202003 A1 20181108</a>	HUAWEI TECH CO LTD	DISTRIBUTED BATTERY, BATTERY CONTROL METHOD, AND ELECTRIC AUTOMOBILE
<a href="#">WO 2018212167 A1 20181122</a>	KAWASAKI HEAVY IND LTD	POWER SUPPLY DEVICE
<a href="#">WO 2018200552 A1 20181101</a>	CHARGEPOINT INC	LIQUID COOLED CHARGING CABLE FOR CHARGING ELECTRIC VEHICLES
<a href="#">WO 2018178473 A1 20181004</a>	UNIV ZARAGOZA	METHOD AND SYSTEM FOR RECHARGING ELECTRIC VEHICLES
<a href="#">WO 2018181313 A1 20181004</a>	DENSO CORP	VEHICLE POWER-SUPPLY SYSTEM
<a href="#">WO 2018179811 A1 20181004</a>	HONDA MOTOR CO LTD	NON-CONTACT POWER TRANSMISSION SYSTEM
<a href="#">WO 2018188818 A1 20181018</a>	ECOG GMBH	METHOD FOR CONTROLLING A CHARGING PROCESS OF A VEHICLE AT A CHARGING POST USING FIRST AND SECOND AUTHORISATION VERIFICATION

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<a href="#">WO 2018193091 A1 20181025</a>	WOBEN PROPERTIES GMBH	METHOD FOR OPERATING A CHARGING STATION
<a href="#">WO 2018224284 A1 20181213</a>	BOSCH GMBH ROBERT	METHOD AND DEVICE FOR OPERATING AN ELECTRIC ENERGY STORAGE SYSTEM
<a href="#">WO 2018226745 A1 20181213</a>	JOHNSON CONTROLS TECH CO	BATTERY SHUNT IMPLEMENTATION SYSTEMS AND METHODS
<a href="#">WO 2018179855 A1 20181004</a>	HITACHI AUTOMOTIVE SYSTEMS LTD	BATTERY CONTROL DEVICE
<a href="#">WO 2018180520 A1 20181004</a>	SANYO ELECTRIC CO	MONITORING DEVICE AND POWER STORAGE SYSTEM
<a href="#">WO 2018188819 A1 20181018</a>	ECOG GMBH	CONTROL DEVICE AND METHOD FOR CONTROLLING A CHARGING POINT
<a href="#">WO 2018193097 A1 20181025</a>	WOBEN PROPERTIES GMBH	CHARGING STATION FOR CHARGING MULTIPLE ELECTRIC VEHICLES, IN PARTICULAR ELECTRIC CARS
<a href="#">WO 2018193183 A1 20181025</a>	CONTINENTAL AUTOMOTIVE FRANCE	METHOD FOR DETERMINING A CELL CURRENT LIMIT OF A TRACTION BATTERY AND AN ONBOARD NETWORK IN A MOTOR VEHICLE
<a href="#">WO 2018199057 A1 20181101</a>	UNIVERSAL VIEW CO LTD	WIRELESS POWER TRANSMITTER, WIRELESS POWER RECEIVER FOR MEDICAL USE, AND WIRELESS POWER SUPPLY SYSTEM THEREOF
<a href="#">WO 2018206201 A1 20181115</a>	AUDI AG	BATTERY DEVICE HAVING AT LEAST ONE MODULE STRING, IN WHICH MODULE STRING MODULE UNITS ARE INTERCONNECTED ONE AFTER THE OTHER IN A ROW, AND MOTOR VEHICLE AND OPERATING METHOD FOR THE BATTERY DEVICE
<a href="#">WO 2018211195 A1 20181122</a>	PSA AUTOMOBILES SA	VEHICLE WITH OPTIONAL ELECTRIC DRIVE MACHINE COUPLING A NON-DIVERSIFIABLE BATTERY TO A CHARGER
<a href="#">WO 2018212890 A1 20181122</a>	QUALCOMM INC	POWER RECEIVING UNIT REFLECTED REACTANCE AND TUNING METHODS
<a href="#">WO 2018217515 A1 20181129</a>	QUALCOMM INC	MULTI-SUPPLY SYNCHRONIZATION FOR WIRELESS CHARGING
<a href="#">WO 2018185385 A1 20181011</a>	RENAULT SAS NISSAN MOTOR	METHOD FOR CONTROLLING A CHARGING DEVICE ON BOARD AN ELECTRIC OR HYBRID VEHICLE
<a href="#">WO 2018206366 A1 20181115</a>	VOLABO GMBH	CIRCUIT ARRANGEMENT AND POWER SYSTEM
<a href="#">WO 2018197229 A1 20181101</a>	AUDI AG	MULTI-FUNCTIONAL TANK SYSTEM
<a href="#">WO 2018206684 A1 20181115</a>	FREIE UNIV BERLIN	METHOD AND SYSTEMS FOR ENERGY EXCHANGE BETWEEN VEHICLES
<a href="#">WO 2018189678 A2 20181018</a>	DETROIT ELECTRIC EV LTD	ELECTRICAL VEHICLE BATTERY MANAGEMENT SYSTEM AND METHOD OF OPERATION THEREOF

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## CAMBIO DE BATERÍAS

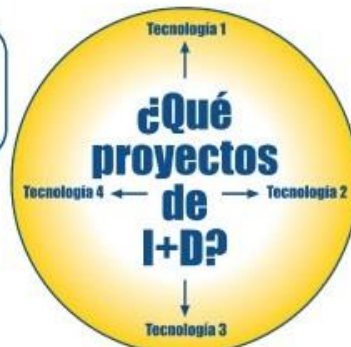
Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
<a href="#">WO 2018178837 A1 20181004</a>	ULTRAVIOLETTE AUTOMOTIVE PRIVATE LTD	A VEHICLE WITH A HOUSING FOR REMOVABLY RETAINING AT LEAST A PORTABLE ENERGY STORAGE DEVICE
<a href="#">WO 2018215579 A1 20181129</a>	STARSHIP TECH OUE	A DEVICE, METHOD AND SYSTEM FOR SWAPPING AND/OR CHARGING A BATTERY OF A MOBILE ROBOT

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