

### Noticias

El Consejo de Ministros ha aprobado el [Real Decreto](#) que regula los requisitos mínimos para la instalación de puntos de recarga de vehículos eléctricos en edificios de viviendas, en aparcamientos públicos y privados y en la vía pública. Esta normativa pretende incentivar la implantación progresiva de los vehículos eléctricos.

Recientemente se ha celebrado en Las Vegas el CES (Consumer Electronics Show), en el que se ha dedicado un amplio espacio a las tecnologías de vehículos. Entre las novedades que se han podido ver destaca la presentación por parte de Panasonic de la [tecnología de baterías](#) que está desarrollando junto a Tesla para vehículos eléctricos.

La alianza [Renault-Nissan](#) se afianza como uno de los líderes en el mercado de los vehículos eléctricos con más de 200.000 unidades vendidas hasta el momento.

Aunque el mercado de los coches eléctricos crece más despacio de lo previsto, la Alianza Renault-Nissan lleva una ventaja importante: acaba de alcanzar las 200.000 unidades entregadas, el 58% del mercado de vehículos de emisiones cero. De esta cifra, 148.700 corresponden a Nissan, con el Leaf como superventas, y 51.500 a Renault.

Siemens ha diseñado un [sistema pionero de carga](#) de autobuses híbridos en 6 minutos y ha equipado con este nuevo dispositivo eléctrico de alto rendimiento el primer autobús híbrido que circula por Hamburgo desde el mes de diciembre.

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

[BOLETINES OEPM](#)

### CONTENIDO:

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

## Solicitudes de Patente Publicadas

Los datos que aparecen en la tabla corresponden a una selección de las solicitudes de patentes publicadas durante el trimestre. Se puede acceder al documento completo haciendo doble clic sobre el mismo.

### BATERÍAS

| Nº PUBLICACIÓN                            | SOLICITANTE   | CONTENIDO TÉCNICO  |
|---|---|--|
| <a href="#">WO 2014152253 A2 20140925</a> | PERFECT LITHIUM CORP<br>FRIANEZA-KULLBERG TERESITA<br>KULLBERG LENNART H              | COMPLEXOMETRIC PRECURSOR FORMULATION METHODOLOGY FOR INDUSTRIAL PRODUCTION OF FINE AND ULTRAFINE POWDERS AND NANOPOWDERS FOR LITHIUM METAL OXIDES FOR BATTERY APPLICATIONS |
| <a href="#">WO 2014197742 A1 20141211</a> | THIEN TON CONSULTING SERVICES COMPANY LTD<br>NGUYEN DUNG TAI                          | HYBRID VEHICLES WITH RADIAL ENGINES.   |
| <a href="#">WO 2014193921 A2 20141204</a> | APPLEJACK 199 L P   | HYBRID SILICON-METAL ANODE USING MICROPARTICLES FOR LITHIUM-ION BATTERIES  |
| <a href="#">WO 2014196919 A2 20141211</a> | AUTOLIV DEV HOLLERS ALF<br>CAVELL CHRISTIAN STURK DAVID<br>BERNER MAGNUS HOFFMAN LARS | OVER-CURRENT RESPONSIVE DEVICE   |
| <a href="#">WO 2014196917 A1 20141211</a> | AUTOLIV DEV HOLLERS ALF<br>CAVELL CHRISTIAN STURK DAVID<br>BERNER MAGNUS HOFFMAN LARS | BATTERY MODULE DISCONNECT ARRANGEMENT  |
| <a href="#">WO 2014114564 A1 20140731</a> | AVL LIST GMBH   | METHOD FOR DETERMINING A CONTROL OBSERVER FOR THE SOC  |
| <a href="#">WO 2014141097 A2 20140918</a> | D2M ENERGYTRANSIT UNIPESOAAL LDA  | MODULAR ELECTRIC ENERGY STORAGE DEVICE AND CORRESPONDING USES  |
| <a href="#">WO 2014158857 A1 20141002</a> | ALLISON TRANSMISSION INC  | FLUID BATH COOLED ENERGY STORAGE SYSTEM  |
| <a href="#">WO 2014160072 A1 20141002</a> | UNIV MICHIGAN   | MULTI-DIMENSIONAL BATTERY NETWORKS FOR LARGE SCALE ENERGY STORAGE AND ELECTRICAL VEHICLE APPLICATIONS  |
| <a href="#">WO 2014164560 A1 20141009</a> | ATIEVA INC  | BUS BARS FOR BATTERY PACKS   |
| <a href="#">WO 2014183036 A1 20141113</a> | UNIV HOUSTON SYSTEM<br>YAO YAN LIANG YANLIANG   | NON-LITHIUM METAL ION BATTERY ELECTRODE MATERIAL ARCHITECTURE  |
| <a href="#">WO 2014191692 A1 20141204</a> | COMMISSARIAT ENERGIE ATOMIQUE   | PHASE SELECTION FOR POLYPHASE ELECTRICAL INSTALLATION  |
| <a href="#">WO 2014191794 A1 20141204</a> | FREESCALE SEMICONDUCTOR INC<br>LUPO SAVINO LUIGI HUTTERER MICHAEL LEONE ANTONINO      | CELL MONITORING APPARATUS, BATTERY MONITORING APPARATUS, INTEGRATED CIRCUIT AND METHOD OF MONITORING A RECHARGEABLE CELL   |
| <a href="#">WO 2014192309 A1 20141204</a> | IDEMITSU KOSAN CO   | PRODUCTION METHOD OF SOLID ELECTROLYTE   |
| <a href="#">WO 2014192816 A1 20141204</a> | YAZAKI CORP   | POWER SUPPLY COIL UNIT   |
| <a href="#">WO 2014193148 A1 20141204</a> | LG CHEMICAL LTD   | NON-AQUEOUS ELECTROLYTE AND LITHIUM SECONDARY BATTERY COMPRISING SAME  |
| <a href="#">WO 2014193291 A1 20141204</a> | SCANIA CV AB  | INTRINSIC OVERCHARGE PROTECTION FOR BATTERY CELL   |
| <a href="#">WO 2014194231 A1 20141204</a> | CERAMATEC INC   | HYBRID MOLTEN/SOLID SODIUM ANODE FOR ROOM/INTERMEDIATE TEMPERATURE ELECTRIC VEHICLE BATTERY  |
| <a href="#">WO 2014195759 A1 20141211</a> | TOYOTA MOTOR CO LTD   | POWER STORAGE DEVICE   |

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|   | NAGAMINE KOICHI<br>KUMAGAI TAKANORI<br>KITAMURA MASAHIKO<br>ISHIGURO TAKUYA |   |
| <a href="#">WO 2014160226 A1 20141002</a> | ENERDEL INC   | BATTERY SYSTEM WITH INTERNAL COOLING PASSAGES   |
| <a href="#">WO 2014180722 A2 20141113</a> | BOSCH GMBH ROBERT   | SURGE ARRESTER AND METHOD FOR OPERATING A SURGE ARRESTER  |
| <a href="#">WO 2014191644 A1 20141204</a> | NEXANS  | POWER SUPPLY ASSEMBLY INTENDED TO RECHARGE ELECTRIC BATTERIES FOR ELECTRIC MOTOR VEHICLES   |
| <a href="#">WO 2014192253 A1 20141204</a> | OHKAWA HIROSHI  | FUEL-TYPE SOLID ELECTROLYTE SECONDARY BATTERY   |
| <a href="#">WO 2014192637 A1 20141204</a> | YASUNAGA KK   | ELECTRODE FOR NON-AQUEOUS ELECTROLYTE SECONDARY BATTERY, AND MANUFACTURING METHOD OF ELECTRODE FOR NON-AQUEOUS ELECTROLYTE SECONDARY BATTERY  |
| <a href="#">WO 2014192652 A1 20141204</a> | ZEON CORP   | BINDER FOR USE IN ELECTROCHEMICAL DEVICE ELECTRODES, PARTICLE COMPOSITE FOR USE IN ELECTROCHEMICAL DEVICE ELECTRODES, ELECTROCHEMICAL DEVICE ELECTRODE, ELECTROCHEMICAL DEVICE, AND ELECTROCHEMICAL DEVICE ELECTRODE MANUFACTURING METHOD |
| <a href="#">WO 2014192817 A1 20141204</a> | YAZAKI CORP   | POWER SUPPLY COIL UNIT  |
| <a href="#">WO 2014193204 A1 20141204</a> | IUCF HYU  | METHOD FOR MANUFACTURING ANODE ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY AND LITHIUM SECONDARY BATTERY MANUFACTURED BY SAME   |
| <a href="#">WO 2014194157 A1 20141204</a> | FITTER JOHAN C<br>SAPONE WILLIAM J  | A METAL ACCUMULATION INHIBITING AND PERFORMANCE ENHANCING SUPPLEMENT AND A SYSTEM FOR DELIVERING THE SUPPLEMENT   |
| <a href="#">WO 2014155609 A1 20141002</a> | HITACHI AUTOMOTIVE<br>SYSTEMS LTD<br>HONDA MOTOR CO<br>LTD                  | BATTERY MODULE  |
| <a href="#">WO 2014183820 A1 20141120</a> | AUDI AG   | PRECHARGING A MOTOR VEHICLE HIGH-VOLTAGE NETWORK  |
| <a href="#">WO 2014186661 A1 20141120</a> | MILTEC CORP   | ACTINIC AND ELECTRON BEAM RADIATION CURABLE WATER BASED ELECTRODE BINDERS AND ELECTRODES INCORPORATING SAME   |
| <a href="#">WO 2014192358 A1 20141204</a> | BROTHER IND LTD<br>TOHOKU TECHNO<br>ARCH CO LTD                             | VANADIUM SOLID-SALT BATTERY   |
| <a href="#">WO 2014195205 A1 20141211</a> | ROCKWOOD LITHIUM<br>GMBH<br>VOLKSWAGEN AG                                   | MODIFIED BATTERY SEPARATORS AND LITHIUM METAL BATTERIES   |
| <a href="#">WO 2014195606 A1 20141211</a> | RENAULT SA  | METHOD FOR ESTIMATING THE STATE OF HEALTH OF AN ELECTROCHEMICAL CELL FOR STORING ELECTRICAL ENERGY  |
| <a href="#">WO 2014177608 A2 20141106</a> | NEC EUROPE LTD  | METHOD FOR ALLOCATING ELECTRICAL POWER OF A SHARED ENERGY SOURCE AND RESOURCE MANAGEMENT SYSTEM   |
| <a href="#">WO 2014193203 A1 20141204</a> | IUCF HYU  | ANODE ACTIVE MATERIAL FOR LITHIUM CELL AND METHOD FOR MANUFACTURING SAME  |
| <a href="#">WO 2014193705 A1 20141204</a> | SABIC INNOVATIVE<br>PLASTICS IP<br>LEVASALMI JUHA-<br>MATTI                 | POLY(PHENYLENE ETHER) COMPOSITION AND ARTICLE   |
| <a href="#">WO 2014195212 A1 20141211</a> | DIALOG<br>SEMICONDUCTOR<br>GMBH   | BATTERY BALANCING WITH RESONANT CONVERTER   |
| <a href="#">WO 2014140463 A1 20140918</a> | RENAULT SA  | ENERGY ABSORBING DEVICE FOR FASTENING A TRACTION BATTERY OF AN ELECTRIC OR HYBRID VEHICLE   |
| <a href="#">WO 2014141554 A1 20140918</a> | SHIN KOBE ELECTRIC<br>MACHINERY   | SECONDARY BATTERY   |
| <a href="#">WO 2014141661 A1 20140918</a> | PANASONIC CORP  | POWER SUPPLY DEVICE FOR NON-CONTACT CHARGING DEVICE, POWER SUPPLY METHOD, AND NON-CONTACT CHARGING DEVICE   |
| <a href="#">WO 2014156576 A1 20141002</a> | AUTONETWORKS  | WIRING MODULE   |

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|   | TECHNOLOGIES LTD<br>SUMITOMO WIRING<br>SYSTEMS<br>SUMITOMO ELECTRIC<br>INDUSTRIES                |  |
| <a href="#">WO 2014159545 A1 20141002</a> | QUANTUMSCAPE<br>CORP   | IRON, FLUORINE, SULFUR COMPOUNDS FOR CATHODES  |
| <a href="#">WO 2014160598 A1 20141002</a> | CORNING INC<br>BADDING MICHAEL<br>EDWARD<br>BROWN JACQUELINE<br>LESLIE<br>KESTER LANRIK<br>WAYNE | A CERAMIC ELECTROLYTE MATERIAL COMPRISING A<br>MODIFIED POLYCRYSTALLINE LITHIUM METAL<br>PHOSPHATE   |
| <a href="#">WO 2014162437 A1 20141009</a> | HITACHI AUTOMOTIVE<br>SYSTEMS LTD  | LITHIUM-ION SECONDARY CELL AND METHOD FOR<br>MANUFACTURING SAME  |
| <a href="#">WO 2014162508 A1 20141009</a> | PIONEER CORP   | CONTACTLESS CHARGING DEVICE AND METHOD FOR<br>CONTROLLING POWER SUPPLY   |
| <a href="#">WO 2014162686 A1 20141009</a> | PANASONIC CORP   | BATTERY SYSTEM   |
| <a href="#">WO 2014165013 A1 20141009</a> | CELGARD LLC  | METHOD AND SYSTEM FOR OPTICAL CAMBER<br>MEASUREMENT OF FLAT SHEET MEMBRANES, FILMS,<br>AND WEBS  |
| <a href="#">WO 2014168046 A1 20141016</a> | TOYOTA JIDOSHOKKI<br>KK  | ACCUMULATOR DEVICE   |
| <a href="#">WO 2014168218 A1 20141016</a> | UNIV KYOTO   | POLYVALENT METAL SECONDARY BATTERY   |
| <a href="#">WO 2014171560 A1 20141023</a> | LG CHEMICAL LTD  | BATTERY PACK HAVING COMPACT STRUCTURE  |
| <a href="#">WO 2014177793 A1 20141106</a> | RENAULT SA   | METHOD FOR MANAGING THE TEMPERATURE OF A<br>BATTERY OF AN ELECTRIC OR HYBRID VEHICLE   |
| <a href="#">WO 2014178113 A1 20141106</a> | HITACHI AUTOMOTIVE<br>SYSTEMS LTD  | LITHIUM-ION SECONDARY CELL   |
| <a href="#">WO 2014178291 A1 20141106</a> | TOYOTA MOTOR CO<br>LTD<br>FUJITSU TEN LTD<br>MAENO SEIGEN<br>HIBINO TAKUYA                       | POWER GENERATION AMOUNT OUTPUT DEVICE, SOLAR<br>POWER GENERATION SYSTEM  |
| <a href="#">WO 2014184864 A1 20141120</a> | IHI CORP   | CONTACTLESS POWER TRANSMISSION DEVICE AND<br>MOVING VEHICLE  |
| <a href="#">WO 2014185494 A1 20141120</a> | SUMITOMO OSAKA<br>CEMENT CO LTD  | CARBON-COATED ACTIVE-MATERIAL COMPLEX AND<br>LITHIUM-ION BATTERY   |
| <a href="#">WO 2014185566 A1 20141120</a> | LG CHEMICAL LTD  | BATTERY MODULE ASSEMBLY HAVING NOVEL<br>STRUCTURE  |
| <a href="#">WO 2014185605 A1 20141120</a> | HEESUNG CHEMICAL<br>LTD  | ALUMINUM POUCH FILM FOR SECONDARY BATTERY,<br>PACKAGING MATERIAL COMPRISING SAME, SECONDARY<br>BATTERY COMPRISING SAME, AND MANUFACTURING<br>METHOD THEREFOR   |
| <a href="#">WO 2014186626 A1 20141120</a> | ATIEVA INC   | BATTERY ASSEMBLY WITH ADHESIVE STOP MECHANISM  |
| <a href="#">WO 2014188562 A1 20141127</a> | HITACHI AUTOMOTIVE<br>SYSTEMS LTD  | BATTERY CONTROL DEVICE   |
| <a href="#">WO 2014188724 A1 20141127</a> | ZEON CORP  | SECONDARY-BATTERY BINDER COMPOSITION, SLURRY<br>COMPOSITION FOR SECONDARY-BATTERY ELECTRODE,<br>SECONDARY-BATTERY NEGATIVE ELECTRODE, AND<br>SECONDARY BATTERY |
| <a href="#">WO 2014189294 A1 20141127</a> | LG CHEMICAL LTD  | BINDER FOR SECONDARY BATTERY, AND SECONDARY<br>BATTERY INCLUDING SAME  |
| <a href="#">WO 2014147328 A1 20140925</a> | RENAULT SA   | ENERGY ABSORPTION DEVICE FOR FASTENING A<br>TRACTION BATTERY OF AN ELECTRIC OR HYBRID<br>VEHICLE   |
| <a href="#">WO 2014147888 A1 20140925</a> | TEIJIN LTD   | SEPARATOR FOR NONAQUEOUS SECONDARY<br>BATTERIES, AND NONAQUEOUS SECONDARY BATTERY  |
| <a href="#">WO 2014147985 A1 20140925</a> | PANASONIC CORP   | CONTACTLESS CHARGING DEVICE  |
| <a href="#">WO 2014156655 A1 20141002</a> | NISSAN MOTOR   | CONTACTLESS POWER TRANSMISSION DEVICE  |
| <a href="#">WO 2014156983 A1 20141002</a> | TOYOTA JIDOSHOKKI<br>KK  | ELECTRIC STORAGE DEVICE  |
| <a href="#">WO 2014165912 A1 20141016</a> | UNIV MURDOCH   | COATED COMPOSITE ANODES  |
| <a href="#">WO 2014167414 A1 20141016</a> | TOYOTA MOTOR CO  | HYBRID VEHICLE   |

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|   | LTD<br>AOKI KAZUMA<br>HOKOI KOJI<br>ENDO HIROKI  |   |
| <a href="#">WO 2014167657 A1 20141016</a> | HITACHI LTD                                      | POSITIVE ELECTRODE MATERIAL FOR LITHIUM ION SECONDARY CELL AND LITHIUM ION SECONDARY CELL   |
| <a href="#">WO 2014167780 A1 20141016</a> | PANASONIC CORP                                   | DISTRIBUTION BOARD, DISTRIBUTION BOARD SYSTEM, AND INDEPENDENT DISTRIBUTION BOARD   |
| <a href="#">WO 2014177786 A1 20141106</a> | RENAULT SA                                       | METHOD FOR OPTIMISING THE ENERGY CONSUMPTION OF A HYBRID VEHICLE  |
| <a href="#">WO 2014182281 A1 20141113</a> | GM GLOBAL TECH OPERATIONS INC<br>UNIV CALIFORNIA | VOLTAGE-RESPONSIVE COATING FOR LITHIUM-SULFUR BATTERY   |
| <a href="#">WO 2014184925 A1 20141120</a> | TOYOTA MOTOR CO LTD                              | ELECTRODE PASTE PRODUCTION METHOD   |
| <a href="#">WO 2014185365 A1 20141120</a> | ZEON CORP  | COMPOSITE PARTICLES FOR ELECTROCHEMICAL ELEMENT ELECTRODE, METHOD FOR MANUFACTURING COMPOSITE PARTICLES FOR ELECTROCHEMICAL ELEMENT ELECTRODE, ELECTROCHEMICAL ELEMENT ELECTRODE, AND ELECTROCHEMICAL ELEMENT   |
| <a href="#">WO 2014185568 A1 20141120</a> | LG CHEMICAL LTD                                  | BASE PLATE FOR BATTERY MODULE ASSEMBLY HAVING NOVEL STRUCTURE   |
| <a href="#">WO 2014188996 A1 20141127</a> | TORAY INDUSTRIES                                 | METHOD FOR PRODUCING POLYANIONIC POSITIVE ELECTRODE ACTIVE MATERIAL COMPOSITE PARTICLES, AND POLYANIONIC POSITIVE ELECTRODE ACTIVE MATERIAL PRECURSOR-GRAPHITE OXIDE COMPOSITE GRANULATED BODIES  |
| <a href="#">WO 2014189108 A1 20141127</a> | SUMITOMO METAL MINING CO                         | POSITIVE ELECTRODE ACTIVE MATERIAL FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERIES AND METHOD FOR PRODUCING SAME   |
| <a href="#">WO 2014189255 A1 20141127</a> | LG CHEMICAL LTD                                  | POUCH-TYPE SECONDARY CELL AND METHOD FOR MANUFACTURING SAME   |
| <a href="#">WO 2014189329 A1 20141127</a> | LG CHEMICAL LTD                                  | LITHIUM SECONDARY BATTERY COMPRISING MULTILAYERED ACTIVE MATERIAL LAYER   |
| <a href="#">WO 2014197647 A1 20141211</a> | TYCO ELECTRONICS CORP                            | BATTERY CONNECTOR ASSEMBLY  |
| <a href="#">WO 2014138724 A1 20140912</a> | TEXAS INSTRUMENTS INC<br>TEXAS INSTRUMENTS JAPAN | BATTERY CHARGER   |
| <a href="#">WO 2014139710 A1 20140918</a> | BOSCH GMBH ROBERT SAMSUNG SDI CO LTD             | DEGASSING SYSTEM FOR BATTERY MODULES  |
| <a href="#">WO 2014141960 A1 20140918</a> | SONY CORP  | ACTIVE MATERIAL FOR SECONDARY BATTERY, ELECTRODES FOR SECONDARY BATTERY, SECONDARY BATTERY, BATTERY PACK, ELECTRIC VEHICLE, POWER STORAGE SYSTEM, POWER TOOL, AND ELECTRONIC DEVICE   |
| <a href="#">WO 2014155529 A1 20141002</a> | CHUGOKU ELECTRIC POWER                           | METHOD FOR CONTROLLING CHARGE/DISCHARGE SYSTEM, AND CHARGE/DISCHARGE SYSTEM   |
| <a href="#">WO 2014155992 A1 20141002</a> | SANYO ELECTRIC CO                                | NONAQUEOUS ELECTROLYTE SECONDARY BATTERY  |
| <a href="#">WO 2014156165 A1 20141002</a> | SANYO ELECTRIC CO                                | POSITIVE ELECTRODE ACTIVE MATERIAL FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERIES, METHOD FOR PRODUCING SAME, POSITIVE ELECTRODE FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERIES USING SAID POSITIVE ELECTRODE ACTIVE MATERIAL, AND NONAQUEOUS ELECTROLYTE SECONDARY BATTERY USING SAID POSITIVE ELECTRODE |
| <a href="#">WO 2014156474 A1 20141002</a> | TOYOTA JIDOSHOKKI KK                             | ELECTRICAL STORAGE APPARATUS  |
| <a href="#">WO 2014156963 A1 20141002</a> | YAMAISHI METAL CO LTD<br>UBE INDUSTRIES          | NEGATIVE ELECTRODE ACTIVE MATERIAL, NEGATIVE ELECTRODE SHEET USING SAME, AND ELECTRICITY STORAGE DEVICE   |
| <a href="#">WO 2014156991 A1 20141002</a> | NGK INSULATORS LTD                               | THERMAL SWITCH, TEMPERATURE REGULATING STRUCTURE AND BATTERY PACK   |

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| <a href="#">WO 2014168286 A1 20141016</a> | ENERGY MATERIAL TECHNOLOGY CO LTD          | METHOD OF MANUFACTURING CATHODE ACTIVE MATERIAL PRECURSOR FOR LITHIUM SECONDARY BATTERY, METHOD OF MANUFACTURING CATHODE ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY, CATHODE INCLUDING CATHODE ACTIVE MATERIAL AND LITHIUM SECONDARY BATTERY |
| <a href="#">WO 2014173455 A1 20141030</a> | SIEMENS AG                                 | METHOD FOR ASSIGNING AN OBJECT TO A GROUP   |
| <a href="#">WO 2014173830 A1 20141030</a> | BEHR GMBH & CO KG                          | FASTENING DEVICE FOR A HEAT SINK ON A GALVANIC CELL AND A METHOD FOR FASTENING A HEAT SINK ON A GALVANIC CELL   |
| <a href="#">WO 2014177674 A1 20141106</a> | JAGUAR LAND ROVER LTD                      | CONTROL SYSTEM, VEHICLE AND METHOD  |
| <a href="#">WO 2014179320 A1 20141106</a> | QUALCOMM INC                               | VEHICLE CHARGING PAD HAVING REDUCED THICKNESS   |
| <a href="#">WO 2014181455 A1 20141113</a> | HITACHI LTD                                | POSITIVE ELECTRODE ACTIVE MATERIAL FOR NON-AQUEOUS SECONDARY CELL, POSITIVE ELECTRODE FOR NON-AQUEOUS SECONDARY CELL USING SAME, NON-AQUEOUS SECONDARY CELL, AND METHOD FOR MANUFACTURING SAME  |
| <a href="#">WO 2014181891 A1 20141113</a> | SUMITOMO METAL MINING CO                   | TRANSITION METAL COMPOSITE HYDROXIDE PARTICLES, METHOD FOR PRODUCING SAME, POSITIVE ELECTRODE ACTIVE MATERIAL FOR NON-AQUEOUS ELECTROLYTE SECONDARY BATTERY, METHOD FOR PRODUCING SAME, AND NON-AQUEOUS ELECTROLYTE SECONDARY BATTERY           |
| <a href="#">WO 2014182064 A1 20141113</a> | LG CHEMICAL LTD                            | ELECTRODE FOR SECONDARY BATTERY, METHOD FOR MANUFACTURING SAME, AND SECONDARY BATTERY AND CABLE-TYPE SECONDARY BATTERY INCLUDING SAME   |
| <a href="#">WO 2014185547 A1 20141120</a> | MITSUI MINING & SMELTING CO                | POSITIVE ELECTRODE ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY  |
| <a href="#">WO 2014185548 A1 20141120</a> | MITSUI MINING & SMELTING CO                | POSITIVE ELECTRODE ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY  |
| <a href="#">WO 2014188722 A1 20141127</a> | PANASONIC INTELLECTUAL PROPERTY MAN CO LTD | NEGATIVE-ELECTRODE ACTIVE MATERIAL FOR SODIUM-ION SECONDARY BATTERY, METHOD FOR MANUFACTURING SAID NEGATIVE-ELECTRODE ACTIVE MATERIAL, AND SODIUM-ION SECONDARY BATTERY   |
| <a href="#">WO 2014188734 A1 20141127</a> | ZEON CORP                                  | SLURRY COMPOSITION FOR SECONDARY-BATTERY NEGATIVE ELECTRODE, SECONDARY-BATTERY NEGATIVE ELECTRODE, AND SECONDARY BATTERY  |
| <a href="#">WO 2014138242 A1 20140912</a> | SION POWER CORP                            | ELECTROCHEMICAL CELLS COMPRISING FIBRIL MATERIALS, SUCH AS FIBRIL CELLULOSE MATERIALS   |
| <a href="#">WO 2014141726 A1 20140918</a> | RIKEN                                      | NOVEL CATHODE FOR USE IN BATTERY AND BATTERY  |
| <a href="#">WO 2014143213 A1 20140918</a> | ENERG2 TECHNOLOGIES INC                    | COMPOSITE CARBON MATERIALS COMPRISING LITHIUM ALLOYING ELECTROCHEMICAL MODIFIERS  |
| <a href="#">WO 2014148055 A1 20140925</a> | PANASONIC CORP                             | POWER-FEEDING DEVICE  |
| <a href="#">WO 2014148432 A1 20140925</a> | NAT INST OF ADVANCED IND SCIEN             | LITHIUM TITANIUM SULFIDE, LITHIUM NIOBIUM SULFIDE, AND LITHIUM TITANIUM NIOBIUM SULFIDE   |
| <a href="#">WO 2014156264 A1 20141002</a> | HITACHI AUTOMOTIVE SYSTEMS LTD             | CELL SYSTEM   |
| <a href="#">WO 2014156595 A1 20141002</a> | BROTHER IND LTD TOHOKU TECHNO ARCH CO LTD  | VANADIUM SOLID-SALT CELL AND METHOD FOR MANUFACTURING SAME  |
| <a href="#">WO 2014162766 A1 20141009</a> | NITTO DENKO CORP                           | WIRELESS POWER TRANSFER DEVICE, SUPPLIED-POWER CONTROL METHOD FOR WIRELESS POWER TRANSFER DEVICE, AND WIRELESS-POWER-TRANSFER-DEVICE MANUFACTURING METHOD   |
| <a href="#">WO 2014168398 A1 20141016</a> | LG CHEMICAL LTD                            | ELECTRODE LAMINATE COMPRISING ELECTRODES HAVING DIFFERENT AREAS AND SECONDARY BATTERY COMPRISING SAME   |
| <a href="#">WO 2014171163 A1 20141023</a> | NITTO DENKO CORP                           | WIRELESS POWER TRANSMISSION DEVICE, HEAT GENERATION CONTROL METHOD FOR WIRELESS POWER TRANSMISSION DEVICE, AND PRODUCTION METHOD FOR WIRELESS POWER TRANSMISSION DEVICE   |
| <a href="#">WO 2014176320 A2 20141030</a> | XIANG XIAODONG                             | A COOLING MECHANISM FOR BATTERIES USING L-V PHASE CHANGE MATERIALS  |
| <a href="#">WO 2014178313 A1 20141106</a> | DAINIPPON PRINTING CO LTD                  | MAGNESIUM ION SECONDARY BATTERY, BATTERY PACK USING SAME, AND ELECTROLYTE SOLUTION FOR MAGNESIUM ION SECONDARY BATTERIES  |

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| <a href="#">WO 2014179355 A1 20141106</a> | MADICO INC   | NANOPOROUS COMPOSITE SEPARATORS WITH INCREASED THERMAL CONDUCTIVITY  |
| <a href="#">WO 2014182063 A1 20141113</a> | LG CHEMICAL LTD  | ELECTRODE FOR SECONDARY BATTERY, METHOD FOR MANUFACTURING SAME, AND SECONDARY BATTERY AND CABLE-TYPE SECONDARY BATTERY COMPRISING SAME   |
| <a href="#">WO 2014185006 A1 20141120</a> | TOYOTA JIDOSHOKKI KK   | LITHIUM-ION-SECONDARY-BATTERY POSITIVE ELECTRODE AND LITHIUM-ION SECONDARY BATTERY   |
| <a href="#">WO 2014185250 A1 20141120</a> | ISUZU MOTORS LTD   | HYBRID VEHICLE, AND CONTROL METHOD THEREFOR  |
| <a href="#">WO 2014185378 A1 20141120</a> | KUREHA CORP  | STRUCTURE FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERIES, NONAQUEOUS ELECTROLYTE SECONDARY BATTERY, AND METHOD FOR PRODUCING SAID STRUCTURE  |
| <a href="#">WO 2014185567 A1 20141120</a> | LG CHEMICAL LTD  | BATTERY MODULE ASSEMBLY HAVING NOVEL STRUCTURE   |
| <a href="#">WO 2014185606 A1 20141120</a> | KOREA ADVANCED INST SCI & TECH                                 | CATHODE FOR LITHIUM-SULFUR SECONDARY BATTERY AND METHOD FOR MANUFACTURING SAME   |
| <a href="#">WO 2014188501 A1 20141127</a> | HITACHI AUTOMOTIVE SYSTEMS LTD                                 | NONAQUEOUS ELECTROLYTE SECONDARY CELL  |
| <a href="#">WO 2014188896 A1 20141127</a> | NITTO DENKO CORP   | COLLECTOR AND BIPOLAR BATTERY  |
| <a href="#">WO 2014115772 A1 20140731</a> | TOKYO UNIVERSITY OF SCIENCE FOUNDATION<br>MITSUBISHI CHEM CORP | COMBINED METAL OXIDE, POSITIVE-ELECTRODE ACTIVE SUBSTANCE FOR SODIUM SECONDARY CELL, POSITIVE ELECTRODE FOR SODIUM SECONDARY CELL, AND SODIUM SECONDARY CELL   |
| <a href="#">WO 2014128944 A1 20140828</a> | HITACHI LTD  | ALL-SOLID-STATE LITHIUM-ION SECONDARY CELL   |
| <a href="#">WO 2014137017 A1 20140912</a> | LG CHEMICAL LTD  | ELECTRODE ASSEMBLY HAVING ROUNDED CORNERS  |
| <a href="#">WO 2014140060 A1 20140918</a> | BOSCH GMBH ROBERT  | HOUSING CONSISTING OF A METAL FRAME STRUCTURE AND A PLASTIC COMPONENT FOR RECEIVING A CELL STACK   |
| <a href="#">WO 2014141696 A1 20140918</a> | PANASONIC CORP   | ELECTRODE ACTIVE MATERIAL FOR POWER STORAGE DEVICE, AND POWER STORAGE DEVICE   |
| <a href="#">WO 2014141774 A1 20140918</a> | HITACHI AUTOMOTIVE SYSTEMS LTD<br>NISSAN MOTOR                 | ELECTRICAL STORAGE MODULE  |
| <a href="#">WO 2014142457 A1 20140918</a> | LG CHEMICAL LTD<br>SNU R&DB FOUNDATION                         | HIGH-CAPACITY CATHODE ACTIVE MATERIAL AND LITHIUM SECONDARY BATTERY COMPRISING SAME  |
| <a href="#">WO 2014147764 A1 20140925</a> | SUMITOMO WIRING SYSTEMS  | VEHICLE-SIDE CONNECTOR   |
| <a href="#">WO 2014155950 A1 20141002</a> | PANASONIC CORP   | ALLOY POWDER FOR ELECTRODES, NEGATIVE ELECTRODE FOR NICKEL-METAL HYDRIDE STORAGE BATTERIES USING SAME, AND NICKEL-METAL HYDRIDE STORAGE BATTERY  |
| <a href="#">WO 2014156053 A1 20141002</a> | SANYO ELECTRIC CO  | NEGATIVE ELECTRODE FOR NON-AQUEOUS ELECTROLYTE SECONDARY BATTERIES AND NON-AQUEOUS ELECTROLYTE SECONDARY BATTERY   |
| <a href="#">WO 2014156153 A1 20141002</a> | GS YUASA INT LTD<br>UNIV TOKYO SCI EDUC FOUND                  | ACTIVE MATERIAL FOR NONAQUEOUS ELECTROLYTE ELECTRICITY STORAGE ELEMENTS  |
| <a href="#">WO 2014156299 A1 20141002</a> | NITTO DENKO CORP   | METHOD FOR CONTROLLING RECEIVING VOLTAGE FOR DEVICE TO BE POWERED BY WIRELESS POWER TRANSMISSION, WIRELESS POWER TRANSMISSION DEVICE ADJUSTED BY METHOD FOR CONTROLLING RECEIVING VOLTAGE, AND METHOD FOR MANUFACTURING WIRELESS POWER TRANSMISSION DEVICE |
| <a href="#">WO 2014162806 A1 20141009</a> | FURUKAWA ELECTRIC CO LTD                                       | METHOD FOR PRODUCING MICROPARTICLES, METHOD FOR PRODUCING POSITIVE ELECTRODE ACTIVE MATERIAL FOR LITHIUM ION SECONDARY CELL, POSITIVE ELECTRODE ACTIVE MATERIAL, LITHIUM ION SECONDARY CELL USING SAME, AND SOURCE EMULSION FOR PRODUCING MICROPARTICLES   |

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| <a href="#">WO 2014163359 A1 20141009</a> | ORANGE POWER LTD<br>KOREA ELECTRONICS<br>TECHNOLOGY   | PRECURSOR FOR PRODUCING LITHIUM-RICH CATHODE ACTIVE MATERIAL, AND LITHIUM-RICH CATHODE ACTIVE MATERIAL PRODUCED THEREBY                |
| <a href="#">WO 2014165068 A1 20141009</a> | MILES MELVIN H  | LITHIUM-AIR BATTERY FOR ELECTRIC VEHICLES AND OTHER APPLICATIONS USING MOLTEN NITRATE ELECTROLYTES                                     |
| <a href="#">WO 2014168397 A1 20141016</a> | LG CHEMICAL LTD   | BATTERY CELL HAVING ROUNDED CORNER   |
| <a href="#">WO 2014175011 A1 20141030</a> | TOKYO OHKA KOGYO<br>CO LTD  | METHOD FOR PRODUCING POROUS POLYIMIDE FILM, POROUS POLYIMIDE FILM AND SEPARATOR USING SAME   |
| <a href="#">WO 2014175255 A1 20141030</a> | UNIV KYOTO  | MAGNESIUM COMPOUND CONTAINING FLUORINE   |
| <a href="#">WO 2014178569 A1 20141106</a> | LG CHEMICAL LTD   | BATTERY PACK CASE FOR VEHICLE  |
| <a href="#">WO 2014178623 A1 20141106</a> | IUCF HYU  | ANODE ACTIVE MATERIAL FOR LITHIUM RECHARGEABLE BATTERY   |
| <a href="#">WO 2014178624 A1 20141106</a> | IUCF HYU  | ANODE ACTIVE MATERIAL FOR LITHIUM RECHARGEABLE BATTERY   |
| <a href="#">WO 2014181571 A1 20141113</a> | SUMITOMO ELECTRIC<br>INDUSTRIES   | SODIUM MOLTEN SALT BATTERY, AND MOLTEN SALT ELECTROLYTE AND IONIC LIQUID USED IN SAME  |
| <a href="#">WO 2014182059 A1 20141113</a> | LG CHEMICAL LTD   | CABLE-TYPE SECONDARY BATTERY   |
| <a href="#">WO 2014182060 A1 20141113</a> | LG CHEMICAL LTD   | ELECTRODE FOR SECONDARY BATTERY, METHOD FOR MANUFACTURING SAME, AND SECONDARY BATTERY AND CABLE-TYPE SECONDARY BATTERY COMPRISING SAME |
| <a href="#">WO 2014186455 A1 20141120</a> | AXION POWER<br>INTERNAT INC   | NEGATIVE ELECTRODE FOR LEAD-ACID BATTERY   |
| <a href="#">WO 2014128844 A1 20140828</a> | HITACHI LTD   | LITHIUM ION SECONDARY BATTERY  |
| <a href="#">WO 2014136177 A1 20140912</a> | HITACHI LTD   | NEGATIVE ELECTRODE ACTIVE MATERIAL FOR LITHIUM ION SECONDARY BATTERY   |
| <a href="#">WO 2014136545 A1 20140912</a> | HITACHI MAXELL  | WIRELESS POWER TRANSMISSION DEVICE AND WIRELESS POWER TRANSMISSION METHOD  |
| <a href="#">WO 2014137085 A1 20140912</a> | LG CHEMICAL LTD   | BATTERY CELL HAVING MISSING PORTION AND BATTERY PACK COMPRISING SAME   |
| <a href="#">WO 2014141547 A1 20140918</a> | HITACHI LTD   | DEVICE AND METHOD FOR PRODUCING LITHIUM ION SECONDARY BATTERY  |
| <a href="#">WO 2014142293 A1 20140918</a> | YAZAKI CORP   | POWER SOURCE   |
| <a href="#">WO 2014155625 A1 20141002</a> | CHUGOKU ELECTRIC<br>POWER<br>CHUDENKO CORP  | POWER SUPPLY CONTROL DEVICE  |
| <a href="#">WO 2014156092 A1 20141002</a> | SANYO ELECTRIC CO   | LITHIUM-ION CELL   |
| <a href="#">WO 2014156110 A1 20141002</a> | GS YUASA INT LTD  | NON-AQUEOUS ELECTROLYTE SECONDARY CELL   |
| <a href="#">WO 2014156580 A1 20141002</a> | AUTONETWORKS<br>TECHNOLOGIES LTD<br>SUMITOMO WIRING<br>SYSTEMS<br>SUMITOMO ELECTRIC<br>INDUSTRIES | WIRING MODULE  |
| <a href="#">WO 2014160725 A1 20141002</a> | EC POWER LLC  | MULTI-TERMINAL BATTERY WITH SENSOR TERMINAL  |
| <a href="#">WO 2014162530 A1 20141009</a> | HITACHI LTD   | NEGATIVE ELECTRODE FOR LITHIUM-ION CELL, AND LITHIUM-ION CELL  |
| <a href="#">WO 2014162535 A1 20141009</a> | PIONEER CORP  | CONTACTLESS POWER SUPPLY DEVICE, COMMUNICATION METHOD AND COMPUTER PROGRAM   |
| <a href="#">WO 2014171196 A1 20141023</a> | SUMITOMO ELECTRIC<br>INDUSTRIES   | MOLTEN SALT ELECTROLYTE AND SODIUM MOLTEN SALT BATTERY   |
| <a href="#">WO 2014177381 A1 20141106</a> | BAYERISCHE<br>MOTOREN WERKE AG  | HIGH VOLTAGE ACCUMULATOR FOR A VEHICLE   |
| <a href="#">WO 2014178565 A1 20141106</a> | LG CHEMICAL LTD   | BATTERY MODULE COMPRISED IN BATTERY PACK FOR MOTOR VEHICLE   |
| <a href="#">WO 2014178568 A1 20141106</a> | LG CHEMICAL LTD   | INNER CASE FOR BATTERY MODULE AGGREGATE INCLUDED IN BATTERY PACK FOR VEHICLE   |
| <a href="#">WO 2014178628 A1 20141106</a> | IUCF HYU  | ANODE ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY  |
| <a href="#">WO 2014181812 A1 20141113</a> | YAZAKI CORP   | BATTERY-STATE DETECTION DEVICE   |
| <a href="#">WO 2014182062 A1 20141113</a> | LG CHEMICAL LTD   | ELECTRODE FOR SECONDARY BATTERY, METHOD FOR MANUFACTURING SAME, AND SECONDARY BATTERY AND CABLE-TYPE SECONDARY BATTERY INCLUDING SAME  |
| <a href="#">WO 2014184954 A1 20141120</a> | TOYOTA MOTOR CO<br>LTD  | CHARGING CONTROL DEVICE THAT UTILIZES VEHICLE-MOUNTED SOLAR CELL   |



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|   | MAENO SEIGEN                           |  |
| <a href="#">WO 2014183926 A2 20141120</a> | BOSCH GMBH ROBERT                      | SYSTEM FOR THE ALIGNMENT OF A VEHICLE AND USE OF SAID SYSTEM   |
| <a href="#">WO 2014129178 A1 20140828</a> | PANASONIC CORP                         | NON-CONTACT CHARGING DEVICE AND NON-CONTACT CHARGING METHOD  |
| <a href="#">WO 2014129594 A1 20140828</a> | CONNEXX SYSTEMS CORP                   | COMPOSITE ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY AND METHOD FOR PRODUCING SAME  |
| <a href="#">WO 2014136357 A1 20140912</a> | SUMITOMO ELECTRIC INDUSTRIES           | POSITIVE ELECTRODE ACTIVE MATERIAL FOR SODIUM MOLTEN SALT BATTERIES, POSITIVE ELECTRODE FOR SODIUM MOLTEN SALT BATTERIES, AND SODIUM MOLTEN SALT BATTERY   |
| <a href="#">WO 2014137112 A1 20140912</a> | LG CHEMICAL LTD                        | BATTERY CELL COMPRISING STEPPED STRUCTURE  |
| <a href="#">WO 2014141765 A1 20140918</a> | HITACHI AUTOMOTIVE SYSTEMS LTD         | ASSEMBLED BATTERY  |
| <a href="#">WO 2014148143 A1 20140925</a> | NITTO DENKO CORP                       | WIRELESS POWER TRANSMISSION DEVICE, METHOD FOR CONTROLLING HEAT GENERATED BY WIRELESS POWER TRANSMISSION DEVICE, AND PRODUCTION METHOD FOR WIRELESS POWER TRANSMISSION DEVICE  |
| <a href="#">WO 2014149823 A1 20140925</a> | ALLISON TRANSMISSION INC               | SYSTEM AND METHOD FOR BALANCING STATES OF CHARGE OF ENERGY STORAGE MODULES IN HYBRID VEHICLES  |
| <a href="#">WO 2014155708 A1 20141002</a> | HITACHI LTD                            | POSITIVE ELECTRODE MATERIAL FOR LITHIUM ION SECONDARY BATTERIES, POSITIVE ELECTRODE FOR LITHIUM ION SECONDARY BATTERIES, AND LITHIUM ION SECONDARY BATTERY   |
| <a href="#">WO 2014162807 A1 20141009</a> | FURUKAWA ELECTRIC CO LTD               | METHOD FOR PRODUCING MICROPARTICLES, METHOD FOR PRODUCING POSITIVE ELECTRODE ACTIVE MATERIAL FOR LITHIUM ION SECONDARY CELL, POSITIVE ELECTRODE ACTIVE MATERIAL, LITHIUM ION SECONDARY CELL USING SAME, AND SOURCE EMULSION FOR PRODUCING MICROPARTICLES |
| <a href="#">WO 2014163055 A1 20141009</a> | UBE INDUSTRIES                         | NONAQUEOUS ELECTROLYTE SOLUTION AND ELECTRICITY STORAGE DEVICE USING SAME  |
| <a href="#">WO 2014164150 A1 20141009</a> | FLUIDIC INC                            | INTEGRABLE REDOX-ACTIVE POLYMER BATTERIES  |
| <a href="#">WO 2014166852 A2 20141016</a> | CONTINENTAL AUTOMOTIVE GMBH            | SYSTEM AND METHOD FOR MANAGING BATTERY OF VEHICLE  |
| <a href="#">WO 2014174616 A1 20141030</a> | TOYOTA MOTOR CO LTD                    | SEALED BATTERY   |
| <a href="#">WO 2014174952 A1 20141030</a> | SUMITOMO OSAKA CEMENT CO LTD           | ELECTRODE MATERIAL, ELECTRODE AND LITHIUM ION BATTERY  |
| <a href="#">WO 2014175115 A1 20141030</a> | YAZAKI CORP                            | BUS BAR MODULE   |
| <a href="#">WO 2014174354 A2 20141030</a> | TOYOTA MOTOR CO LTD<br>OKUMURA KENICHI | ONBOARD CHARGING SYSTEM AND CONTROL METHOD THEREOF   |
| <a href="#">WO 2014178625 A1 20141106</a> | IUCF HYU                               | ANODE ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY  |
| <a href="#">WO 2014185125 A1 20141120</a> | SUMITOMO ELECTRIC INDUSTRIES           | SODIUM MOLTEN SALT BATTERY   |
| <a href="#">WO 2014132550 A1 20140904</a> | SANYO ELECTRIC CO                      | POSITIVE ELECTRODE FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERIES, AND NONAQUEOUS ELECTROLYTE SECONDARY BATTERY USING SAME   |
| <a href="#">WO 2014136760 A1 20140912</a> | MITSUI MINING & SMELTING CO            | LITHIUM METAL COMPOSITE OXIDE POWDER   |
| <a href="#">WO 2014137166 A1 20140912</a> | KOREA BASIC SCIENCE INST               | METHOD FOR F-PASSIVATING LITHIUM TRANSITION METAL OXIDE  |
| <a href="#">WO 2014141372 A1 20140918</a> | NIPPON CARBON CO LTD                   | NEGATIVE ELECTRODE MATERIAL FOR LITHIUM ION SECONDARY CELL AND NEGATIVE ELECTRODE  |
| <a href="#">WO 2014141415 A1 20140918</a> | AUTOMOTIVE ENERGY SUPPLY CORP          | ABNORMALITY DIAGNOSIS DEVICE   |
| <a href="#">WO 2014141932 A1 20140918</a> | HITACHI MAXELL                         | LITHIUM SECONDARY BATTERY  |
| <a href="#">WO 2014148036 A1 20140925</a> | SONY CORP                              | SEPARATOR, BATTERY, BATTERY PACK, ELECTRONIC APPARATUS, ELECTRIC VEHICLE, POWER STORAGE DEVICE, AND POWER SYSTEM   |

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| <a href="#">WO 2014148849 A1 20140925</a> | AMOGREENTECH CO LTD                      | ANODE ACTIVE MATERIAL FOR SECONDARY BATTERY, ANODE, SECONDARY BATTERY USING ANODE, AND METHOD FOR MANUFACTURING SECONDARY BATTERY  |
| <a href="#">WO 2014155709 A1 20141002</a> | HITACHI LTD                              | POSITIVE ELECTRODE MATERIAL FOR LITHIUM ION SECONDARY BATTERIES, POSITIVE ELECTRODE FOR LITHIUM ION SECONDARY BATTERIES, AND LITHIUM ION SECONDARY BATTERY   |
| <a href="#">WO 2014156011 A1 20141002</a> | SANYO ELECTRIC CO                        | NON-AQUEOUS ELECTROLYTE SECONDARY BATTERY  |
| <a href="#">WO 2014156068 A1 20141002</a> | SANYO ELECTRIC CO                        | NEGATIVE ELECTRODE FOR NON-AQUEOUS ELECTROLYTE SECONDARY BATTERIES AND NON-AQUEOUS ELECTROLYTE SECONDARY BATTERY   |
| <a href="#">WO 2014166756 A1 20141016</a> | MAHLE BEHR GMBH & CO KG                  | HEAT EXCHANGER COMPONENT   |
| <a href="#">WO 2014166757 A1 20141016</a> | MAHLE BEHR GMBH & CO KG                  | HEAT EXCHANGER COMPONENT   |
| <a href="#">WO 2014175212 A1 20141030</a> | NAGAURA ATSUKO<br>NAGAURA CHIEKO         | ELECTRICITY STORAGE DEVICE   |
| <a href="#">WO 2014175374 A1 20141030</a> | MINITUBISHI ELECTRIC CORP                | ELECTRIC DEVICE MANAGEMENT DEVICE, ELECTRIC DEVICE MANAGEMENT SYSTEM, ELECTRIC DEVICE MANAGEMENT METHOD AND PROGRAM  |
| <a href="#">WO 2014181447 A1 20141113</a> | HITACHI LTD                              | LITHIUM-ION SECONDARY BATTERY  |
| <a href="#">WO 2014181950 A1 20141113</a> | LG CHEMICAL LTD                          | SECONDARY BATTERY, SECONDARY BATTERY MODULE INCLUDING SAME, AND SECONDARY BATTERY PACK   |
| <a href="#">WO 2014182056 A1 20141113</a> | LG CHEMICAL LTD                          | CABLE-TYPE SECONDARY BATTERY AND METHOD FOR MANUFACTURING SAME   |
| <a href="#">WO 2014185163 A1 20141120</a> | NEC CORP                                 | CELL STATE-MAINTAINING DEVICE, CELL STATE MANAGEMENT SYSTEM, CELL, METHOD FOR MAINTAINING CELL STATE, AND PROGRAM  |
| <a href="#">WO 2014132946 A1 20140904</a> | MINITUBISHI HEAVY IND LTD                | ONBOARD DEVICE AND EV MANAGEMENT SYSTEM  |
| <a href="#">WO 2014139740 A1 20140918</a> | BOSCH GMBH ROBERT                        | METHOD AND DEVICE FOR INCREASING THE SECURITY WHEN USING BATTERY MODULES   |
|   | SAMSUNG SDI CO LTD                       |  |
| <a href="#">WO 2014146920 A1 20140925</a> | BAYERISCHE MOTOREN WERKE AG              | STORAGE CELL UNIT FOR A MOTOR VEHICLE AND MOTOR VEHICLE COMPRISING A STORAGE CELL UNIT   |
| <a href="#">WO 2014147476 A1 20140925</a> | TOYOTA MOTOR CO LTD<br>KURIMOTO YASUhide | SECONDARY BATTERY MANAGEMENT SYSTEM, SECONDARY BATTERY MANAGEMENT APPARATUS, AND SECONDARY BATTERY MANAGEMENT METHOD   |
| <a href="#">WO 2014156098 A1 20141002</a> | MT CARBON CO LTD                         | AMORPHOUS CARBON MATERIAL AND GRAPHITE CARBON MATERIAL FOR NEGATIVE ELECTRODES OF LITHIUM ION SECONDARY BATTERIES, LITHIUM ION SECONDARY BATTERY USING SAME, AND METHOD FOR PRODUCING CARBON MATERIAL FOR NEGATIVE ELECTRODES OF LITHIUM ION SECONDARY BATTERIES |
| <a href="#">WO 2014156132 A1 20141002</a> | PANASONIC CORP                           | CONNECTOR FOR ELECTRICAL CONNECTION  |
| <a href="#">WO 2014175213 A1 20141030</a> | NAGAURA ATSUKO<br>NAGAURA CHIEKO         | ELECTRICITY STORAGE DEVICE   |
| <a href="#">WO 2014185750 A1 20141120</a> | LG CHEMICAL LTD                          | NON-AQUEOUS ELECTROLYTIC SOLUTION AND LITHIUM SECONDARY BATTERY COMPRISING SAME  |
| <a href="#">WO 2014129487 A1 20140828</a> | KUREHA CORP                              | CARBON MATERIAL FOR NON-AQUEOUS ELECTROLYTE SECONDARY BATTERY NEGATIVE ELECTRODE   |
| <a href="#">WO 2014136729 A1 20140912</a> | NEC CORP                                 | ELECTRICITY STORAGE DEVICE   |
| <a href="#">WO 2014136946 A1 20140912</a> | SANGO CO LTD                             | NEGATIVE ELECTRODE MATERIAL FOR LITHIUM SECONDARY BATTERIES AND METHOD FOR PRODUCING SAME  |
| <a href="#">WO 2014142148 A1 20140918</a> | YAZAKI CORP                              | POWER SOURCE   |
| <a href="#">WO 2014149056 A1 20140925</a> | INT TRUCK INTELLECTUAL PROP CO           | MOTOR VEHICLE STATE CONTROL SYSTEM AND METHOD  |
| <a href="#">WO 2014168127 A1 20141016</a> | YAZAKI CORP                              | CHARGING CONNECTOR   |
| <a href="#">WO 2014174669 A1 20141030</a> | HITACHI AUTOMOTIVE SYSTEMS LTD           | BATTERY MONITORING DEVICE AND BATTERY SYSTEM USING SAME  |
| <a href="#">WO 2014174829 A1 20141030</a> | IDEMITSU KOSAN CO                        | METHOD FOR PRODUCING SOLID ELECTROLYTE   |
| <a href="#">WO 2014177800 A1 20141106</a> | RENAULT SA                               | METHOD FOR MANAGING THE COOLING OF A BATTERY WITH ADJUSTABLE COOLING THRESHOLDS  |

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| <a href="#">WO 2014178327 A1 20141106</a> | FURUKAWA ELECTRIC CO LTD                   | COPPER FOIL FOR LITHIUM-ION SECONDARY BATTERY NEGATIVE ELECTRODE COLLECTOR  |
| <a href="#">WO 2014136168 A1 20140912</a> | HITACHI LTD                                | CURRENT COLLECTOR, LEAD STORAGE BATTERY, AND METHOD FOR MANUFACTURING CURRENT COLLECTOR   |
| <a href="#">WO 2014142045 A1 20140918</a> | ZEON CORP                                  | METHOD FOR MANUFACTURING COMPOSITE PARTICLES FOR ELECTROCHEMICAL ELEMENT ELECTRODE  |
| <a href="#">WO 2014142525 A1 20140918</a> | LG CHEMICAL LTD                            | SECONDARY BATTERY AND METHOD FOR MAKING SAME  |
| <a href="#">WO 2014147761 A1 20140925</a> | SUMITOMO WIRING SYSTEMS                    | VEHICLE-SIDE CONNECTOR  |
| <a href="#">WO 2014154883 A1 20141002</a> | VALEO SYSTEMES THERMIQUES                  | HEAT-EXCHANGE PANEL FOR BATTERY HEAT MANAGEMENT AND ASSOCIATED PRODUCTION METHOD  |
| <a href="#">WO 2014156095 A1 20141002</a> | SANYO ELECTRIC CO                          | NON-AQUEOUS ELECTROLYTE SECONDARY BATTERY   |
| <a href="#">WO 2014162645 A1 20141009</a> | SONY CORP                                  | ELECTRICAL STORAGE DEVICE, ELECTRICAL STORAGE SYSTEM, AND ELECTRIC VEHICLE  |
| <a href="#">WO 2014174967 A1 20141030</a> | AISIN SEIKI                                | VEHICLE CONTROL DEVICE  |
| <a href="#">WO 2014136180 A1 20140912</a> | HITACHI LTD                                | NEGATIVE ELECTRODE ACTIVE MATERIAL FOR LITHIUM ION SECONDARY BATTERY  |
| <a href="#">WO 2014136648 A1 20140912</a> | DAIKIN IND LTD                             | ELECTROLYTIC SOLUTION, ELECTROCHEMICAL DEVICE, LITHIUM ION SECONDARY BATTERY, AND MODULE  |
| <a href="#">WO 2014136736 A1 20140912</a> | YAZAKI CORP                                | COIL UNIT AND POWER SUPPLY SYSTEM   |
| <a href="#">WO 2014146862 A1 20140925</a> | BOSCH GMBH ROBERT                          | BATTERY CELL FOR A BATTERY AND METHOD FOR PRODUCING A BATTERY CELL  |
| <a href="#">WO 2014155447 A1 20141002</a> | PANASONIC CORP                             | REMAINING LIFE DETERMINATION DEVICE, REMAINING LIFE DETERMINATION SYSTEM, AND REMAINING LIFE DETERMINATION METHOD                     |
| <a href="#">WO 2014156054 A1 20141002</a> | SANYO ELECTRIC CO                          | NON-AQUEOUS ELECTROLYTE SECONDARY BATTERY POSITIVE ELECTRODE ACTIVE MATERIAL AND NON-AQUEOUS ELECTROLYTE SECONDARY BATTERY USING SAME |
| <a href="#">WO 2014156094 A1 20141002</a> | SANYO ELECTRIC CO                          | NONAQUEOUS ELECTROLYTE SECONDARY BATTERY  |
| <a href="#">WO 2014162531 A1 20141009</a> | HITACHI LTD                                | POSITIVE ELECTRODE MATERIAL FOR LITHIUM ION SECONDARY BATTERY   |
| <a href="#">WO 2014141875 A1 20140918</a> | HITACHI MAXELL                             | LITHIUM SECONDARY CELL PACK, AS WELL AS ELECTRONIC DEVICE, CHARGING SYSTEM, AND CHARGING METHOD USING SAID PACK                       |
| <a href="#">WO 2014129182 A1 20140828</a> | PANASONIC CORP                             | FOREIGN OBJECT DETECTION DEVICE, FOREIGN OBJECT DETECTION METHOD, AND NON-CONTACT CHARGING SYSTEM                                     |
| <a href="#">WO 2014147758 A1 20140925</a> | SUMITOMO WIRING SYSTEMS                    | VEHICLE-SIDE CONNECTOR  |
| <a href="#">WO 2014144463 A1 20140918</a> | UNIV HOUSTON SYSTEM                        | METHODS AND SYSTEMS FOR RECOVERING RARE EARTH ELEMENTS  |
| <a href="#">WO 2014174740 A1 20141030</a> | PANASONIC INTELLECTUAL PROPERTY MAN CO LTD | CONNECTOR FOR ELECTRICAL CONNECTION   |
| <a href="#">WO 2014137120 A1 20140912</a> | LG CHEMICAL LTD                            | METHOD FOR MANUFACTURING JELLYROLL-TYPE ELECTRODE ASSEMBLY AND METHOD FOR MANUFACTURING JELLYROLL-TYPE POLYMER SECONDARY BATTERY      |
| <a href="#">WO 2014147760 A1 20140925</a> | SUMITOMO WIRING SYSTEMS                    | VEHICLE-SIDE CONNECTOR  |
| <a href="#">WO 2014135294 A2 20140912</a> | BOSCH GMBH ROBERT                          | METHOD FOR OPERATING AN ELECTRIFIED MOTOR VEHICLE AND MEANS FOR IMPLEMENTING SAID METHOD  |

[...volver a CONTENIDO](#)

## SUPERCONDENSADORES

| Nº PUBLICACIÓN                            | SOLICITANTE                             | CONTENIDO TÉCNICO   |
|---|---|---|
| <a href="#">WO 2014192392 A1 20141204</a> | NISSAN MOTOR                            | CONTROL DEVICE FOR PLUG-IN HYBRID VEHICLE   |
| <a href="#">WO 2014192391 A1 20141204</a> | NISSAN MOTOR                            | CONTROL DEVICE FOR PLUG-IN HYBRID VEHICLE   |
| <a href="#">WO 2014192406 A1 20141204</a> | NISSAN MOTOR                            | CONTROL DEVICE FOR PLUG-IN HYBRID VEHICLE   |
| <a href="#">WO 2014184096 A2 20141120</a> | BOSCH GMBH ROBERT<br>SAMSUNG SDI CO LTD | METHOD AND CIRCUIT FOR THE IMPROVED USE OF A CAPACITANCE IN AN INTERMEDIATE CIRCUIT |
| <a href="#">WO 2014188541 A1 20141127</a> | mitsubishi electric corp                | VEHICLE POWER SUPPLY SYSTEM   |
| <a href="#">WO 2014171557 A1 20141023</a> | KOMATSU MFG CO LTD                      | HYBRID WORK EQUIPMENT, AND CONTROL METHOD FOR HYBRID WORK EQUIPMENT                 |
| <a href="#">WO 2014182795 A1 20141113</a> | ATIEVA INC                              | SYNCHRONOUS ENERGY SOURCE SWITCHING CONTROLLER AND METHOD OF OPERATION THEREOF      |

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## SISTEMAS DE RECUPERACIÓN DE ENERGÍA; FRENOS REGENERATIVOS

| Nº PUBLICACIÓN                            | SOLICITANTE   | CONTENIDO TÉCNICO  |
|---|---|--|
| <a href="#">WO 2014192360 A1 20141204</a> | HITACHI AUTOMOTIVE SYSTEMS LTD  | VEHICLE CONTROL DEVICE   |
| <a href="#">WO 2014192371 A1 20141204</a> | HITACHI AUTOMOTIVE SYSTEMS LTD  | ROTARY-ELECTRIC-MACHINE CONTROL DEVICE FOR VEHICLE   |
| <a href="#">WO 2014192423 A1 20141204</a> | TOYOTA JIDOSHOKKI KK  | CONTROL STRUCTURE FOR ADJUSTING TEMPERATURE OF BATTERY   |
| <a href="#">WO 2014163619 A1 20141009</a> | USA AS REPRESENTED BY THE ADMINISTRATOR OF THE NAT AERONAUTICS & SPACE ADMINISTRATION<br>TRASE LARRY<br>JANSEN RALPH<br>KASCAK PETER  | FLYWHEEL PULSE AND GLIDE SYSTEM FOR VEHICLES   |
| <a href="#">WO 2014176554 A2 20141030</a> | MILLENNIAL RES CORP   | MULTI-PHASE MODULAR COIL ELEMENT FOR ELECTRIC MOTOR AND GENERATOR  |
| <a href="#">WO 2014188516 A1 20141127</a> | TOYOTA MOTOR CO LTD<br>NAKAOKA HIROSHI<br>SATO KEI<br>NIMURA KAZUNORI<br>OYA KENTARO<br>ISHIDA TAKESHI<br>NANAHARA MASAKI<br>YAMASAKI TSUYOSHI<br>TANAKA YOSHITO<br>OHKUBO MASAYASU | BRAKE DEVICE   |
| <a href="#">WO 2014158846 A1 20141002</a> | ALLISON TRANSMISSION INC  | SYSTEM AND METHOD FOR POWER MANAGEMENT DURING REGENERATION MODE IN HYBRID ELECTRIC VEHICLES                                |
| <a href="#">WO 2014187195 A1 20141127</a> | GUANGZHOU MICRO WELDING EQUIPMENT CO LTD<br>YANG CHENG  | SUSPENSION ELECTROMAGNETIC POWER APPARATUS   |
| <a href="#">WO 2014148376 A1 20140925</a> | NISSAN MOTOR JATCO LTD  | HYBRID VEHICLE   |
| <a href="#">WO 2014167643 A1 20141016</a> | TOYOTA MOTOR CO LTD<br>TAKAHASHI YU   | VEHICLE BRAKE CONTROL DEVICE   |
| <a href="#">WO 2014177671 A1 20141106</a> | JAGUAR LAND ROVER LTD   | METHOD AND SYSTEM FOR PROVIDING FEEDBACK TO A DRIVER OF A HYBRID OR ELECTRIC VEHICLE                                       |
| <a href="#">WO 2014141955 A1 20140918</a> | HITACHI CONSTRUCTION MACHINERY  | HYBRID WORK VEHICLE  |
| <a href="#">WO 2014161557 A1 20141009</a> | VOLVO TRUCK CORP  | METHOD FOR DETERMINING ENERGY EFFICIENCY OF AN ENERGY SYSTEM IN A HYBRID VEHICLE   |
| <a href="#">WO 2014174551 A1 20141030</a> | TOYOTA MOTOR CO LTD   | VEHICLE CONTROL DEVICE   |
| <a href="#">WO 2014154735 A2 20141002</a> | CONTINENTAL AUTOMOTIVE GMBH   | METHOD FOR OPERATING A REGENERATIVE BRAKING DEVICE OF A MOTOR VEHICLE, AND REGENERATIVE BRAKING DEVICE FOR A MOTOR VEHICLE |
| <a href="#">WO 2014143559 A1 20140918</a> | REMY TECHNOLOGIES LLC   | STARTER MOTOR FOR A MOTOR VEHICLE  |
| <a href="#">WO 2014148278 A1 20140925</a> | ADVICS CO LTD<br>TOYOTA MOTOR CO LTD  | BRAKE CONTROLLER   |
| <a href="#">WO 2014155720 A1 20141002</a> | mitsubishi electric corp<br>TAKABAYASHI HIROKAZU<br>NAKASHIMA YUKIO   | ELECTRIC VEHICLE CONTROL DEVICE AND METHOD FOR CONTROLLING BRAKE FOR ELECTRIC VEHICLE                                      |
| <a href="#">WO 2014157683 A1 20141002</a> | HONDA MOTOR CO LTD  | VEHICULAR BRAKE SYSTEM   |

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## MÁQUINAS ELÉCTRICAS

| Nº PUBLICACIÓN                            | SOLICITANTE  | CONTENIDO TÉCNICO  |
|---|--|--|
| <a href="#">WO 2014158478 A1 20141002</a> | TEXTRON INC  | REAR DRIVE MODULE FOR A VEHICLE  |
| <a href="#">WO 2014187729 A1 20141127</a> | SKF AB   | SENSOR ASSEMBLY FOR USE IN SENSOR BEARINGS   |
| <a href="#">WO 2014192380 A1 20141204</a> | AISIN AW CO  | VEHICLE DRIVING APPARATUS  |
| <a href="#">WO 2014192424 A1 20141204</a> | TOYOTA JIDOSHOKKI KK   | HYBRID VEHICLE DRIVE DEVICE  |
| <a href="#">WO 2014193297 A1 20141204</a> | BAE SYSTEMS HÄGGLUNDS<br>AKTIEBOLAG  | ELECTRIC DRIVE DEVICE FOR DRIVING A MOTOR<br>VEHICLE   |
| <a href="#">WO 2014195613 A1 20141211</a> | VALEO EQUIP ELECTR<br>MOTEUR   | ROTOR OF A ROTARY ELECTRIC MACHINE AND<br>ROTARY ELECTRIC MACHINE INCLUDING SUCH A<br>ROTOR  |
| <a href="#">WO 2014195643 A1 20141211</a> | VALEO EQUIP ELECTR<br>MOTEUR   | ELECTRIC MACHINE FURNISHED WITH A SYSTEM FOR<br>GUIDING AT LEAST ONE CONNECTION WIRE OF A<br>MEASUREMENT PROBE AND CORRESPONDING<br>GUIDING SYSTEM |
| <a href="#">WO 2014180545 A1 20141113</a> | TATA STEEL UK LTD  | MULTI-MATERIAL ROTOR OR STATOR POLE FOR<br>ELECTRIC MOTORS AND GENERATORS AND METHOD<br>FOR MANUFACTURING SUCH POLES                               |
| <a href="#">WO 2014195642 A1 20141211</a> | VALEO EQUIP ELECTR<br>MOTEUR   | ELECTRICAL MACHINE PROVIDED WITH A DAMPER<br>FOR MECHANICALLY RESISTING VIBRATORY<br>STRESSES, AND CORRESPONDING DAMPER                            |
| <a href="#">WO 2014192376 A1 20141204</a> | AISIN AW CO  | VEHICLE DRIVING APPARATUS  |
| <a href="#">WO 2014192439 A1 20141204</a> | NISSAN MOTOR   | STARTUP CONTROL DEVICE FOR INTERNAL<br>COMBUSTION ENGINES AND STARTUP CONTROL<br>METHOD  |
| <a href="#">WO 2014135202 A1 20140912</a> | PIERBURG PUMP<br>TECHNOLOGY GMBH   | ELECTRIC MOTOR VEHICLE VACUUM PUMP<br>ARRANGEMENT  |
| <a href="#">WO 2014139542 A1 20140918</a> | VOLVO TRUCK CORP   | METHOD AND ARRANGEMENT FOR OPERATING A<br>HYBRID ELECTRICAL VEHICLE  |
| <a href="#">WO 2014148093 A1 20140925</a> | HITACHI AUTOMOTIVE<br>SYSTEMS LTD  | ROTATING ELECTRIC MACHINE AND ELECTRIC<br>VEHICLE  |
| <a href="#">WO 2014148124 A1 20140925</a> | JATCO LTD<br>NISSAN MOTOR  | CONTROL DEVICE FOR BELT-TYPE CONTINUOUSLY<br>VARIABLE TRANSMISSION   |
| <a href="#">WO 2014156291 A1 20141002</a> | HITACHI AUTOMOTIVE<br>SYSTEMS LTD  | DIAGNOSTIC DEVICE  |
| <a href="#">WO 2014157114 A1 20141002</a> | HITACHI CONSTRUCTION<br>MACHINERY  | ENGINE ROTATION CONTROL SYSTEM   |
| <a href="#">WO 2014167690 A1 20141016</a> | MITSUBISHI ELECTRIC CORP   | COOLING CONTROL DEVICE AND COOLING CONTROL<br>METHOD FOR ELECTRIC-VEHICLE MOTOR  |
| <a href="#">WO 2014166826 A2 20141016</a> | SIEMENS AG   | RELUCTANCE MOTOR COMPRISING A STABILIZED<br>ROTOR  |
| <a href="#">WO 2014174186 A1 20141030</a> | RENAULT SA   | MOTOR CURRENT MAPPING  |
| <a href="#">WO 2014178225 A1 20141106</a> | NISSAN MOTOR   | HYBRID VEHICLE CONTROL DEVICE  |
| <a href="#">WO 2014183635 A1 20141120</a> | BEIQI FOTON MOTOR CO<br>LTD<br>BEIJING ZHI KE INVEST AND<br>MAN CO LTD           | VEHICLE AND HYBRID POWER SYSTEM THEREOF,<br>AND CONTROL METHOD FOR VEHICLE   |
| <a href="#">WO 2014188910 A1 20141127</a> | TOYOTA JIDOSHOKKI KK   | ROTATING ELECTRICAL MACHINE  |
| <a href="#">WO 2014148354 A1 20140925</a> | INTERMETALLICS CO LTD<br>DAIDO STEEL CO LTD                                      | GRAIN BOUNDARY DIFFUSION PROCESS JIG, AND<br>CONTAINER FOR GRAIN BOUNDARY DIFFUSION<br>PROCESS JIG   |
| <a href="#">WO 2014158939 A1 20141002</a> | ALLISON TRANSMISSION INC   | STATOR SLEEVE WITH INTEGRATED COOLING FOR<br>HYBRID/ELECTRIC DRIVE MOTOR   |
| <a href="#">WO 2014170749 A1 20141023</a> | TOYOTA MOTOR CO LTD<br>YOSHIKAWA MASATO<br>NAKANISHI NAOKI<br>MATSUTANI SHINTARO | CONTROL DEVICE FOR VEHICLE   |
| <a href="#">WO 2014174355 A2 20141030</a> | TOYOTA MOTOR CO LTD  | CONTROL APPARATUS FOR HYBRID VEHICLE AND<br>CONTROL METHOD THEREFOR  |
| <a href="#">WO 2014178251 A1 20141106</a> | NISSAN MOTOR   | SUSPENSION DEVICE FOR IN-WHEEL MOTOR DRIVEN<br>WHEEL   |
| <a href="#">WO 2014188871 A1 20141127</a> | ISUZU MOTORS LTD   | HYBRID VEHICLE AND METHOD FOR CONTROLLING<br>SAME  |

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|---|---|---|
| <a href="#">WO 2014147466 A2 20140925</a> | TOYOTA MOTOR CO LTD                         | CONTROL APPARATUS FOR HYBRID VEHICLE AND METHOD FOR AVOIDING MUFFLED NOISE  |
| <a href="#">WO 2014156031 A1 20141002</a> | TOSHIBA KK                                  | PERMANENT MAGNET, AND MOTOR AND GENERATOR USING THE SAME  |
| <a href="#">WO 2014156592 A1 20141002</a> | INTERMETALLICS CO LTD                       | SINTERED MAGNET PRODUCTION METHOD   |
| <a href="#">WO 2014157448 A1 20141002</a> | HITACHI METALS LTD                          | R-T-B-BASED SINTERED MAGNET   |
| <a href="#">WO 2014162837 A1 20141009</a> | NISSAN MOTOR                                | HYBRID VEHICLE CONTROL DEVICE   |
| <a href="#">WO 2014183205 A1 20141120</a> | TIDNAB INNOVATIONS INC                      | MULTI-LAYER SANDWICH-SHAPED ELECTRIC WHEEL  |
| <a href="#">WO 2014157555 A1 20141002</a> | AISIN AW CO                                 | MOTOR COOLING STRUCTURE   |
| <a href="#">WO 2014162186 A1 20141009</a> | TOYOTA MOTOR CO LTD                         | HYBRID VEHICLE AND CONTROL METHOD THEREFOR  |
| <a href="#">WO 2014174935 A1 20141030</a> | INTERMETALLICS CO LTD                       | MOLD FOR MANUFACTURING SINTERED MAGNET AND METHOD FOR MANUFACTURING SINTERED MAGNET USING SAME                                      |
| <a href="#">WO 2014188757 A1 20141127</a> | HITACHI AUTOMOTIVE SYSTEMS LTD              | ROTOR FOR ROTATING ELECTRIC MACHINE, ROTATING ELECTRIC MACHINE, ELECTRIC DRIVE SYSTEM, AND ELECTRIC VEHICLE                         |
| <a href="#">WO 2014188870 A1 20141127</a> | ISUZU MOTORS LTD                            | HYBRID VEHICLE AND METHOD FOR CONTROLLING SAME  |
| <a href="#">WO 2014188877 A1 20141127</a> | ISUZU MOTORS LTD                            | HYBRID ELECTRIC VEHICLE AND METHOD FOR CONTROLLING SAME   |
| <a href="#">WO 2014136504 A1 20140912</a> | NISSAN MOTOR                                | ROTATING ELECTRICAL MACHINE   |
| <a href="#">WO 2014157689 A1 20141002</a> | AISIN AW CO                                 | OIL SUPPLY DEVICE   |
| <a href="#">WO 2014174907 A1 20141030</a> | NISSAN MOTOR                                | DEVICE FOR CONTROLLING POWER GENERATION OF HYBRID VEHICLE   |
| <a href="#">WO 2014136503 A1 20140912</a> | NISSAN MOTOR                                | ROTATING ELECTRICAL MACHINE   |
| <a href="#">WO 2014141556 A1 20140918</a> | HITACHI AUTOMOTIVE SYSTEMS LTD              | COIL, ROTATING ELECTRICAL MACHINE EQUIPPED WITH SAME, AND METHOD FOR MANUFACTURING SAME   |
| <a href="#">WO 2014147904 A1 20140925</a> | HONDA MOTOR CO LTD                          | POWER GENERATION UNIT, AND MOTOR GENERATOR CONTROL METHOD   |
| <a href="#">WO 2014156483 A1 20141002</a> | AISIN AW CO<br>TOYOTA MOTOR CO LTD          | TRAVEL SUPPORT SYSTEM, TRAVEL SUPPORT METHOD, AND COMPUTER PROGRAM  |
| <a href="#">WO 2014162838 A1 20141009</a> | NISSAN MOTOR                                | HYBRID VEHICLE CONTROL DEVICE   |
| <a href="#">WO 2014174682 A1 20141030</a> | MITSUBISHI ELECTRIC CORP                    | MAGNET TEMPERATURE ESTIMATION DEVICE FOR PERMANENT MAGNET MOTOR AND MAGNET TEMPERATURE ESTIMATION METHOD FOR PERMANENT MAGNET MOTOR |
| <a href="#">WO 2014174910 A1 20141030</a> | AISIN SEIKI                                 | DAMPER DEVICE   |
| <a href="#">WO 2014175195 A1 20141030</a> | HITACHI CONSTRUCTION MACHINERY              | HYBRID TYPE WORK VEHICLE  |
| <a href="#">WO 2014183011 A2 20141113</a> | SABIC INNOVATIVE PLASTICS IP<br>SANNER MARK | DUAL LAYER WIRE COATINGS  |
| <a href="#">WO 2014155263 A1 20141002</a> | TATA MOTORS LTD                             | POWERTRAIN FOR A HYBRID VEHICLE AND METHOD THEREFORE  |
| <a href="#">WO 2014156774 A1 20141002</a> | AISIN AW CO                                 | DEVICE FOR CONTROLLING VEHICLE DRIVE DEVICES  |
| <a href="#">WO 2014156931 A1 20141002</a> | JATCO LTD<br>NISSAN MOTOR                   | FAILURE DETERMINATION DEVICE FOR HYBRID VEHICLES AND FAILURE DETERMINATION METHOD THEREFOR  |
| <a href="#">WO 2014171273 A1 20141023</a> | NISSAN MOTOR                                | CLUTCH CONTROL DEVICE FOR HYBRID VEHICLE  |
| <a href="#">WO 2014174579 A1 20141030</a> | MITSUBISHI ELECTRIC CORP                    | ROTATING ELECTRICAL MACHINE   |
| <a href="#">WO 2014181942 A1 20141113</a> | UNIV YEUNGNAM IACF                          | METHOD FOR CONTROLLING AC MOTOR   |
| <a href="#">WO 2014143303 A1 20140918</a> | ALLISON TRANSMISSION INC                    | ELECTRIC PUMP FOR A HYBRID VEHICLE  |
| <a href="#">WO 2014155193 A1 20141002</a> | TOYOTA MOTOR CO LTD<br>SHIMOHIRA TAKAHIRO   | CONTROL APPARATUS FOR HYBRID VEHICLE  |
| <a href="#">WO 2014162471 A1 20141009</a> | TOYOTA MOTOR CO LTD                         | STOP CONTROL DEVICE FOR INTERNAL COMBUSTION ENGINE  |
| <a href="#">WO 2014162839 A1 20141009</a> | NISSAN MOTOR                                | HYBRID VEHICLE CONTROL DEVICE   |
| <a href="#">WO 2014174588 A1 20141030</a> | MITSUBISHI ELECTRIC CORP                    | HYBRID VEHICLE CONTROL DEVICE AND CONTROL METHOD  |
| <a href="#">WO 2014178246 A1 20141106</a> | NISSAN MOTOR                                | METHOD FOR INSERTING MAGNET INTO ROTOR CORE   |
| <a href="#">WO 2014178250 A1 20141106</a> | NISSAN MOTOR                                | SUSPENSION DEVICE FOR IN-WHEEL MOTOR DRIVEN WHEEL   |

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|---|---|---|
| <a href="#">WO 2014136364 A1 20140912</a> | NISSAN MOTOR  | VEHICLE SHIFT CONTROL DEVICE  |
| <a href="#">WO 2014141480 A1 20140918</a> | HITACHI LTD   | ROTATING ELECTRICAL MACHINE UNIT  |
| <a href="#">WO 2014142173 A1 20140918</a> | UBE INDUSTRIES  | METHOD FOR PRODUCING INSULATING COATING LAYER   |
| <a href="#">WO 2014162816 A1 20141009</a> | HONDA MOTOR CO LTD  | VEHICULAR POWER TRANSMISSION DEVICE   |
| <a href="#">WO 2014170940 A1 20141023</a> | MITSUBISHI ELECTRIC CORP                                  | ROTOR-HOLDING STRUCTURE OF ROTATING ELECTRICAL MACHINE FOR HYBRID VEHICLE               |
| <a href="#">WO 2014171436 A1 20141023</a> | TOYOTA JIDOSHOKKI KK                                      | ACCUMULATOR DEVICE  |
| <a href="#">WO 2014174909 A1 20141030</a> | NISSAN MOTOR  | DEVICE FOR CONTROLLING HYBRID VEHICLE   |
| <a href="#">WO 2014139754 A2 20140918</a> | BOSCH GMBH ROBERT   | CONTROL SYSTEM FOR A SYNCHRONOUS MACHINE AND METHOD FOR OPERATING A SYNCHRONOUS MACHINE |
| <a href="#">WO 2014148952 A1 20140925</a> | OBSHESTVO S OGRANICHENNOJ OTVETSTVENNOSTJU YO ENGINEERING | MOTOR VEHICLE DRIVE   |
| <a href="#">WO 2014156678 A1 20141002</a> | KOMATSU MFG CO LTD  | ELECTRIC MOTOR  |
| <a href="#">WO 2014166587 A2 20141016</a> | AUDI AG   | VOLTAGE DISCONNECTION OF A HIGH VOLTAGE VEHICLE   |
| <a href="#">WO 2014142137 A1 20140918</a> | INTERMETALLICS CO LTD                                     | METHOD FOR PRODUCING RFeB SINTERED MAGNET AND RFeB SINTERED MAGNET PRODUCED THEREBY     |
| <a href="#">WO 2014175080 A1 20141030</a> | HONDA MOTOR CO LTD  | HYBRID VEHICLE CONTROL DEVICE   |
| <a href="#">WO 2014142100 A1 20140918</a> | JFE STEEL CORP  | NON-DIRECTIONAL ELECTROMAGNETIC STEEL PLATE WITH EXCELLENT MAGNETIC CHARACTERISTICS     |
| <a href="#">WO 2014171558 A2 20141023</a> | KOMATSU MFG CO LTD  | ELECTRIC MACHINE  |

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## CONVERTIDORES, INVERSORES

| Nº PUBLICACIÓN                            | SOLICITANTE  | CONTENIDO TÉCNICO   |
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| <a href="#">WO 2014186231 A1 20141120</a> | QUALCOMM INC   | SYSTEMS, METHODS, AND APPARATUS RELATED TO ELECTRIC VEHICLE WIRED AND WIRELESS CHARGING   |
| <a href="#">WO 2014187844 A2 20141127</a> | BLUE SOLUTIONS   | INSTALLATION FOR RETURNING ENERGY TO AN ITEM OF EQUIPMENT TO BE SUPPLIED WITH ENERGY, IN PARTICULAR AN ELECTRIC VEHICLE   |
| <a href="#">WO 2014192377 A1 20141204</a> | AISIN AW CO  | VEHICLE DRIVE DEVICE  |
| <a href="#">WO 2014192398 A1 20141204</a> | NISSAN MOTOR   | PHASE-CONTROLLED DC-DC CONVERTER AND CONTROL METHOD THEREFOR  |
| <a href="#">WO 2014192290 A1 20141204</a> | PANASONIC INTELLECTUAL PROPERTY MAN CO LTD   | SWITCHING POWER SUPPLY DEVICE   |
| <a href="#">WO 2014192394 A1 20141204</a> | AISIN AW CO  | VEHICULAR DRIVE DEVICE  |
| <a href="#">WO 2014192399 A1 20141204</a> | NISSAN MOTOR   | DC-DC CONVERTER AND CONTROL METHOD THEREFOR   |
| <a href="#">WO 2014184472 A1 20141120</a> | VALEO EQUIP ELECTR MOTEUR  | METHOD OF ESTIMATING THE ANGULAR POSITION OF THE ROTOR OF A POLYPHASE ROTATING ELECTRIC MACHINE AND APPLICATION TO THE CONTROL OF A POLYPHASE INVERTER FOR SUCH A MACHINE |
| <a href="#">WO 2014141674 A1 20140918</a> | OMRON AUTOMOTIVE ELECTRONICS   | PRINTED CIRCUIT BOARD WITH INTEGRATED COIL, AND MAGNETIC DEVICE   |
| <a href="#">WO 2014144267 A1 20140918</a> | ATIEVA INC   | INVERTER WITH PARALLEL POWER DEVICES  |
| <a href="#">WO 2014149812 A1 20140925</a> | COOPER TECHNOLOGIES CO   | POWER SYSTEM WITH ELECTRONIC IMPEDANCE SWITCH CONTROLS AND METHODS FOR SUPPLYING POWER TO A LOAD  |
| <a href="#">WO 2014162887 A1 20141009</a> | NISSAN MOTOR   | ARRANGEMENT STRUCTURE OF ELECTRIC POWER CONVERTER IN AUTOMOBILE   |
| <a href="#">WO 2014168303 A1 20141016</a> | VCTECH CO LTD  | EMERGENCY INVERTER OPERATION DEVICE FOR ELECTRIC VEHICLE AND METHOD THEREFOR  |
| <a href="#">WO 2014174171 A1 20141030</a> | VALEO EQUIP ELECTR MOTEUR  | METHOD AND DEVICE FOR CONTROLLING A MULTIPHASE RESONANT DC/DC CONVERTER, AND CORRESPONDING MULTIPHASE CONVERTER   |
| <a href="#">WO 2014141558 A1 20140918</a> | HITACHI AUTOMOTIVE SYSTEMS LTD   | POWER CONVERTER   |
| <a href="#">WO 2014154397 A1 20141002</a> | FRAUNHOFER GES ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E V FRIEDRICH ALEXANDER UNIVERSITÄT ERLANGEN NÜRNBERG | POWER-ELECTRONIC CIRCUIT AND SYSTEM HAVING SAME   |
| <a href="#">WO 2014162101 A1 20141009</a> | VALEO EQUIP ELECTR MOTEUR  | DEVICE FOR CONTROLLING A POLYPHASE INVERTER   |
| <a href="#">WO 2014173790 A1 20141030</a> | CONTI TEMIC MICROELECTRONIC  | HOUSING, CIRCUIT ASSEMBLY, DRIVE ASSEMBLY AND METHOD FOR PRODUCING THE CIRCUIT ASSEMBLY   |
| <a href="#">WO 2014141686 A1 20140918</a> | PANASONIC CORP   | INVERTER DEVICE   |
| <a href="#">WO 2014188538 A1 20141127</a> | TOYOTA MOTOR CO LTD ONISHI YUKIO   | POWER CONVERSION DEVICE   |
| <a href="#">WO 2014154495 A1 20141002</a> | BOSCH GMBH ROBERT  | ENERGY STORAGE DEVICE AND SYSTEM HAVING AN ENERGY STORAGE DEVICE  |
| <a href="#">WO 2014173801 A1 20141030</a> | CONTI TEMIC MICROELECTRONIC  | POWER MODULE, POWER CONVERTER AND DRIVE ARRANGEMENT WITH A POWER MODULE   |
| <a href="#">WO 2014174221 A2 20141030</a> | VALEO SYS CONTROLE MOTEUR SAS  | ELECTRONIC ARCHITECTURE FOR CONTROLLING A DC/AC VOLTAGE CONVERTER   |
| <a href="#">WO 2014132943 A1 20140904</a> | SUMITOMO ELECTRIC INDUSTRIES SUMITOMO WIRING SYSTEMS AUTONETWORKS TECHNOLOGIES LTD                           | DC-AC CONVERSION DEVICE AND CONTROL CIRCUIT   |

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| <a href="#">WO 2014134490 A1 20140904</a> | MASSACHUSETTS INST TECHNOLOGY                          | IMPROVING LINEARITY IN SEMICONDUCTOR DEVICES   |
| <a href="#">WO 2014140068 A2 20140918</a> | BAYERISCHE MOTOREN WERKE AG                            | METHOD AND DEVICE FOR OPERATING AN ON-BOARD POWER SYSTEM   |
| <a href="#">WO 2014162712 A1 20141009</a> | PANASONIC CORP   | POWER CONVERSION APPARATUS AND JUNCTION BOX  |
| <a href="#">WO 2014174767 A1 20141030</a> | PANASONIC INTELLECTUAL PROPERTY MAN CO LTD             | POWER CONVERSION DEVICE  |
| <a href="#">WO 2014132710 A1 20140904</a> | HITACHI AUTOMOTIVE SYSTEMS LTD                         | POWER CONVERSION DEVICE  |
| <a href="#">WO 2014162656 A1 20141009</a> | PANASONIC CORP   | ELECTROMOTIVE DRIVE DEVICE USED IN ENGINE-DRIVEN VEHICLE   |
| <a href="#">WO 2014141758 A1 20140918</a> | HITACHI AUTOMOTIVE SYSTEMS LTD                         | ELECTRIC POWER CONVERSION DEVICE   |
| <a href="#">WO 2014157373 A1 20141002</a> | AISIN AW CO  | DRIVE DEVICE FOR ROTARY ELECTRIC MACHINE   |
| <a href="#">WO 2014170059 A1 20141023</a> | SIEMENS AG   | DC-TO-DC CONVERTER ASSEMBLY HAVING MODULAR COMPONENTS, FOR SIMPLIFIED CONFIGURATION                  |
| <a href="#">WO 2014132739 A1 20140904</a> | HITACHI AUTOMOTIVE SYSTEMS LTD                         | POWER CONVERSION APPARATUS   |
| <a href="#">WO 2014152948 A2 20140925</a> | ENGINEERED ELECTRIC COMPANY                            | BIDIRECTIONAL POWER CONVERTER  |
| <a href="#">WO 2014136354 A1 20140912</a> | HITACHI AUTOMOTIVE SYSTEMS LTD                         | DOUBLE-SIDED COOLING ELECTRIC POWER CONVERSION DEVICE  |
| <a href="#">WO 2014175010 A1 20141030</a> | MITSUBISHI HEAVY IND AUTOMOTIVE THERMAL SYSTEMS CO LTD | INVERTER-INTEGRATED ELECTRIC COMPRESSOR  |
| <a href="#">WO 2014144291 A2 20140918</a> | ATIEVA INC   | BIAS CIRCUIT FOR A SWITCHED CAPACITOR LEVEL SHIFTER  |
| <a href="#">WO 2014154167 A1 20141002</a> | SHENZHEN BYD AUTO R & D CO LTD<br>BYD CO LTD           | METHOD AND SYSTEM FOR CONTROLLING ELECTRIC POWER SUPPLY OF VEHICLE AND VEHICLE COMPRISING THE SYSTEM |
| <a href="#">WO 2014167821 A1 20141016</a> | DENSO CORP   | CURRENT DETECTING CIRCUIT FOR POWER ELEMENT  |
| <a href="#">WO 2014136335 A1 20140912</a> | HITACHI AUTOMOTIVE SYSTEMS LTD                         | WIRING BOARD AND POWER CONVERSION APPARATUS USING SAME   |
| <a href="#">WO 2014136220 A1 20140912</a> | MITSUBISHI ELECTRIC CORP<br>MATSUDA KOTARO             | MAIN CONVERSION DEVICE FOR ELECTRIC VEHICLE  |

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## RECARGA DE BATERÍAS

| Nº PUBLICACIÓN                            | SOLICITANTE  | CONTENIDO TÉCNICO   |
|---|--|---|
| <a href="#">WO 2014189727 A2 20141127</a> | TESLA MOTORS INC   | LOCATION BASED CHARGING CONTROL SYSTEM  |
| <a href="#">WO 2014180606 A2 20141113</a> | BOSCH GMBH ROBERT  | HIGH VOLTAGE ON-BOARD NETWORK STRUCTURE FOR VEHICLES  |
| <a href="#">WO 2014191880 A1 20141204</a> | BRUSA ELEKTRONIK AG  | TRANSFER ELEMENT  |
| <a href="#">WO 2014192136 A1 20141204</a> | IHI CORP   | VEHICLE POWER FEEDING SYSTEM  |
| <a href="#">WO 2014177454 A2 20141106</a> | BAYERISCHE MOTOREN WERKE AG                                  | METHOD AND APPARATUS FOR OPERATING A CONTACTLESS CHARGING DEVICE  |
| <a href="#">WO 2014180539 A2 20141113</a> | AUDI AG  | METHOD FOR OPERATING A CHARGING DEVICE FOR SINGLE-PHASE AND MULTI-PHASE CHARGING OF AN ENERGY STORE IN A MOTOR VEHICLE AND CHARGING DEVICE  |
| <a href="#">WO 2014191135 A1 20141204</a> | BOSCH GMBH ROBERT  | MODULE SEPARATION IN BATTERY SYSTEMS IN THE EVENT OF ACCIDENTS  |
| <a href="#">WO 2014150135 A1 20140925</a> | REMY TECHNOLOGIES LLC  | VEHICLE SYSTEM WITH BATTERIES IN SERIES   |
| <a href="#">WO 2014175897 A2 20141030</a> | SCHNEIDER ELECTRIC USA INC                                   | METHOD OF BRANCH CIRCUIT CAPACITY UTILIZATION FOR ELECTRIC VEHICLE CHARGING   |
| <a href="#">WO 2014185287 A1 20141120</a> | CANON KK   | POWER TRANSFER SYSTEM, POWER RECEIVING APPARATUS, CONTROL METHOD, AND STORAGE MEDIUM  |
| <a href="#">WO 2014190057 A1 20141127</a> | ELWHA LLC  | MANAGED ELECTRIC VEHICLE TRACTION BATTERY SYSTEM  |
| <a href="#">WO 2014148843 A1 20140925</a> | SAMSUNG ELECTRONICS CO LTD                                   | WIRELESS POWER TRANSMITTING UNIT, WIRELESS POWER RECEIVING UNIT, AND CONTROL METHODS  |
| <a href="#">WO 2014173616 A2 20141030</a> | BOSCH GMBH ROBERT  | SURGE PROTECTION DEVICE FOR PROTECTING AN ONBOARD POWER SYSTEM OF AN ELECTRIC VEHICLE FROM AN ELECTRIC SURGE, CORRESPONDING METHOD, AND ELECTRIC VEHICLE WITH THE SURGE PROTECTION DEVICE |
| <a href="#">WO 2014147994 A1 20140925</a> | PANASONIC CORP   | SHIELD, NON-CONTACT POWER TRANSMISSION APPARATUS, AND NON-CONTACT POWER RECEPTION APPARATUS   |
| <a href="#">WO 2014155716 A1 20141002</a> | FUJITSU LTD  | VEHICLE AND VEHICLE CONTROL MANAGEMENT SYSTEM   |
|   | TRANSTRON INC  |   |
| <a href="#">WO 2014156811 A1 20141002</a> | NISSAN MOTOR   | POWER SUPPLY DEVICE AND POWER TRANSMISSION UNIT FOR POWER SUPPLY DEVICE   |
| <a href="#">WO 2014157091 A1 20141002</a> | NISSAN MOTOR   | CONTACTLESS ELECTRICITY SUPPLY SYSTEM AND ELECTRICITY SUPPLY DEVICE   |
| <a href="#">WO 2014180935 A1 20141113</a> | COMMISSARIAT L ÉNERGIE ATOMIQUE ET AUX ÉNERGIES ALTERNATIVES | SECURITY SYSTEM FOR AN ACCUMULATOR BATTERY MODULE AND CORRESPONDING METHOD FOR BALANCING A BATTERY MODULE   |
| <a href="#">WO 2014185184 A1 20141120</a> | IHI CORP   | POWER-RECEIVING DEVICE, CONTACTLESS POWER-FEEDING SYSTEM, AND COVER UNIT  |
| <a href="#">WO 2014187682 A1 20141127</a> | BOSCH GMBH ROBERT<br>SAMSUNG SDI CO LTD                      | CELL ASSEMBLY HAVING A PLURALITY OF ELECTROCHEMICAL CELLS AND METHOD FOR OPERATING SAID CELL ASSEMBLY   |
| <a href="#">WO 2014131424 A1 20140904</a> | VOLVO TRUCK CORP   | METHOD FOR BALANCING THE VOLTAGE OF BATTERY CELLS   |
| <a href="#">WO 2014142563 A1 20140918</a> | LG CHEMICAL LTD  | APPARATUS AND METHOD FOR DISCHARGING BATTERY PACK   |
| <a href="#">WO 2014162882 A1 20141009</a> | NISSAN MOTOR   | VEHICULAR POWER SUPPLY DEVICE   |
| <a href="#">WO 2014183961 A1 20141120</a> | SIEMENS AG   | POSITIONING METHOD AND DEVICE   |
| <a href="#">WO 2014184980 A1 20141120</a> | JOHNAN MFG INC   | VEHICLE COVER OPENING AND CLOSING CONTROL DEVICE  |
| <a href="#">WO 2014148563 A1 20140925</a> | TOYOTA MOTOR CO LTD  | POWER SOURCE CONTROLLER   |
| <a href="#">WO 2014156131 A1 20141002</a> | PANASONIC CORP   | CONNECTOR FOR ELECTRIC VEHICLE AND VEHICLE POWER DEVICE   |
| <a href="#">WO 2014157092 A1 20141002</a> | NISSAN MOTOR   | CONTACTLESS ELECTRICITY SUPPLY SYSTEM   |
| <a href="#">WO 2014160759 A2 20141002</a> | CHRYSLER GROUP LLC   | TECHNIQUES FOR ENHANCED BATTERY PACK RECHARGING   |

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|---|---|---|
| <a href="#">WO 2014171035 A1 20141023</a> | JOHNAN MFG INC  | AUTOMOBILE ENERGY RECEIVING OPENING DEVICE  |
| <a href="#">WO 2014174004 A2 20141030</a> | JAGUAR LAND ROVER LTD   | CONTROL SYSTEM, VEHICLE AND METHOD  |
| <a href="#">WO 2014141315 A1 20140918</a> | TOSHIBA KK<br>TOSHIBA SOLUTIONS CORP  | CHARGING TIME ADJUSTING APPARATUS, CHARGING SYSTEM, AND CHARGING TIME ADJUSTING PROGRAM   |
| <a href="#">WO 2014143006 A1 20140918</a> | SCHNEIDER ELECTRIC USA INC  | PORTABLE ELECTRIC VEHICLE CHARGING DEVICE   |
| <a href="#">WO 2014147896 A1 20140925</a> | SONY CORP   | MANAGEMENT DEVICE, COMMUNICATION DEVICE, MANAGEMENT METHOD, AND MANAGEMENT SYSTEM   |
| <a href="#">WO 2014148558 A1 20140925</a> | TOYOTA MOTOR CO LTD   | POWER SOURCE CONTROLLER   |
| <a href="#">WO 2014148560 A1 20140925</a> | TOYOTA MOTOR CO LTD   | POWER SOURCE CONTROLLER   |
| <a href="#">WO 2014156106 A1 20141002</a> | PANASONIC CORP  | POWER SUPPLY DEVICE, POWER RECEIVING DEVICE, AND CHARGING SYSTEM  |
| <a href="#">WO 2014156656 A1 20141002</a> | NISSAN MOTOR  | ELECTRIC VEHICLE AND PARKING ASSIST SYSTEM FOR ELECTRIC VEHICLE   |
| <a href="#">WO 2014157317 A1 20141002</a> | YAZAKI CORP   | CHARGING CONNECTOR  |
| <a href="#">WO 2014167778 A1 20141016</a> | PANASONIC CORP  | OVERCURRENT DETECTION DEVICE, CHARGING/DISCHARGING SYSTEM USING SAID OVERCURRENT DETECTION DEVICE, DISTRIBUTION BOARD, CHARGING CONTROL DEVICE, VEHICLE CHARGING/DISCHARGING DEVICE, AND VEHICLE ELECTRICAL APPARATUS |
| <a href="#">WO 2014175569 A1 20141030</a> | SEHWA HIGH TECH CO LTD  | ROBOT FOR CHARGING ELECTRIC VEHICLE   |
| <a href="#">WO 2014185380 A1 20141120</a> | IHI CORP  | POWER-FEEDING DEVICE, CONTACTLESS POWER-FEEDING SYSTEM, AND SAC UNIT  |
| <a href="#">WO 2014136592 A1 20140912</a> | HONDA MOTOR CO LTD  | POWER SUPPLY CONTROL APPARATUS AND POWER SUPPLY CONTROL METHOD  |
| <a href="#">WO 2014137109 A1 20140912</a> | LG ELECTRONICS INC  | ELECTRONIC DEVICE, ELECTRIC VEHICLE, AND WIRELESS ELECTRIC POWER TRANSMISSION DEVICE  |
| <a href="#">WO 2014146596 A1 20140925</a> | SHENZHEN BYD AUTO R & D CO LTD<br>BYD CO LTD  | POWER SUPPLY SYSTEM FOR ELECTRIC VEHICLE AND METHOD FOR CONTROLLING THE SAME  |
| <a href="#">WO 2014156150 A1 20141002</a> | PANASONIC CORP  | ELECTRIC POWER UNIT FOR VEHICLE   |
| <a href="#">WO 2014156639 A1 20141002</a> | TOKAI RIKA CO LTD<br>TOYOTA MOTOR CO LTD  | CHARGING CABLE LOCKING DEVICE AND CONTROLLER  |
| <a href="#">WO 2014157095 A1 20141002</a> | NISSAN MOTOR  | ELECTRICITY SUPPLY DEVICE, VEHICLE, AND CONTACTLESS ELECTRICITY SUPPLY SYSTEM   |
| <a href="#">WO 2014162648 A1 20141009</a> | MITSUBISHI ELECTRIC CORP  | METHOD FOR CHANGING CHARGING SCHEDULE, VEHICLE, CHARGING CONTROL DEVICE, AND INFORMATION INPUT/OUTPUT DEVICE  |
| <a href="#">WO 2014162883 A1 20141009</a> | NISSAN MOTOR  | VEHICULAR POWER SUPPLY DEVICE   |
| <a href="#">WO 2014162907 A1 20141009</a> | AUTONETWORKS TECHNOLOGIES LTD<br>SUMITOMO WIRING SYSTEMS<br>SUMITOMO ELECTRIC INDUSTRIES      | CONTROL DEVICE, POWER SUPPLY CONTROL DEVICE, CHARGE CONTROL METHOD, CHARGE CONTROL DEVICE, AND POWER SUPPLY DEVICE FOR VEHICLE  |
| <a href="#">WO 2014166666 A1 20141016</a> | BOSCH GMBH ROBERT   | METHOD AND APPARATUS FOR DETERMINING A STATE VARIABLE FOR A BATTERY CELL  |
| <a href="#">WO 2014167914 A1 20141016</a> | NISSAN MOTOR  | BATTERY CHARGING SYSTEM AND METHOD  |
| <a href="#">WO 2014171255 A1 20141023</a> | NISSAN MOTOR  | CONTACTLESS POWER SUPPLY SYSTEM   |
| <a href="#">WO 2014181521 A1 20141113</a> | PANASONIC INTELLECTUAL PROPERTY MAN CO LTD  | STORAGE CELL MANAGING DEVICE  |
| <a href="#">WO 2014182471 A2 20141113</a> | QUALCOMM INC  | SYSTEM AND METHOD FOR DETECTING THE PRESENCE OF A MOVING OBJECT BELOW A VEHICLE   |
| <a href="#">WO 2014141532 A1 20140918</a> | MITSUBISHI ELECTRIC CORP  | VEHICLE POWER MANAGEMENT SYSTEM   |
| <a href="#">WO 2014155948 A1 20141002</a> | PANASONIC CORP  | CONNECTOR FOR ELECTRICAL CONNECTION   |
| <a href="#">WO 2014170737 A1 20141023</a> | TOYOTA MOTOR CO LTD<br>KINOMURA SHIGEKI<br>UEDA SHINGO<br>WATANABE YOSHITOSHI<br>UMENO TAKAJI | EXTERNAL POWER SUPPLY SYSTEM  |
| <a href="#">WO 2014174808 A1 20141030</a> | PANASONIC INTELLECTUAL PROPERTY MAN CO LTD  | POWER SUPPLY SYSTEM   |

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|---|--|---|
| <a href="#">WO 2014180259 A1 20141113</a> | ZTE CORP                                     | METHOD OF INTERACTING WITH SERVICE NETWORK BY IN-VEHICLE CHARGING DEVICE, AND RELATED DEVICE  |
| <a href="#">WO 2014181669 A1 20141113</a> | IHI CORP                                     | CONTACTLESS POWER SUPPLY SYSTEM   |
| <a href="#">WO 2014137397 A1 20140912</a> | DELPHI TECH INC                              | SYSTEM TO ALIGN A VEHICLE WITHIN A PARKING LOCATION USING THERMAL TARGETS   |
| <a href="#">WO 2014135807 A2 20140912</a> | RENAULT SA                                   | MANAGING THE CHARGING OF A BATTERY  |
| <a href="#">WO 2014151976 A2 20140925</a> | EVGENTECH INC                                | PULSE BATTERY CHARGER METHODS AND SYSTEMS FOR IMPROVED CHARGING OF LITHIUM ION BATTERIES  |
| <a href="#">WO 2014155434 A1 20141002</a> | TOYOTA MOTOR CO LTD                          | VEHICLE   |
| <a href="#">WO 2014166963 A1 20141016</a> | BOMBARDIER TRANSP GMBH                       | RECEIVING DEVICE FOR RECEIVING A MAGNETIC FIELD AND FOR PRODUCING ELECTRIC ENERGY BY MAGNETIC INDUCTION   |
| <a href="#">WO 2014166967 A1 20141016</a> | BOMBARDIER TRANSP GMBH                       | STRUCTURE OF A RECEIVING DEVICE FOR RECEIVING A MAGNETIC FIELD AND FOR PRODUCING ELECTRIC ENERGY BY MAGNETIC INDUCTION  |
| <a href="#">WO 2014174762 A1 20141030</a> | PANASONIC INTELLECTUAL PROPERTY MAN CO LTD   | POWER CONVERSION SYSTEM AND CONNECTOR   |
| <a href="#">WO 2014173615 A2 20141030</a> | BOSCH GMBH ROBERT                            | DEVICE FOR INDUCTIVELY TRANSMITTING ENERGY AND METHOD FOR OPERATING AN INDUCTIVE ENERGY-TRANSMISSION DEVICE   |
| <a href="#">WO 2014179080 A1 20141106</a> | QUALCOMM INC                                 | INDUCTION POWER TRANSFER SYSTEM WITH COUPLING AND REACTANCE SELECTION   |
| <a href="#">WO 2014177803 A2 20141106</a> | RENAULT SA                                   | SYSTEM AND METHOD FOR CHARGING THE BATTERY OF AN ELECTRIC OR HYBRID VEHICLE   |
| <a href="#">WO 2014136737 A1 20140912</a> | YAZAKI CORP                                  | POWER SUPPLYING UNIT, POWER RECEIVING UNIT, AND POWER SUPPLYING SYSTEM  |
| <a href="#">WO 2014139455 A1 20140918</a> | SHENZHEN BYD AUTO R & D CO LTD<br>BYD CO LTD | ELECTRIC VEHICLE AND WIRELESS CHARGING SYSTEM FOR THE SAME  |
| <a href="#">WO 2014141565 A1 20140918</a> | TOYOTA JIDOSHOKKI KK                         | NON-CONTACT CHARGING SYSTEM   |
| <a href="#">WO 2014154816 A2 20141002</a> | BAYERISCHE MOTOREN WERKE AG                  | VEHICLE ELECTRICAL SYSTEM   |
| <a href="#">WO 2014162989 A1 20141009</a> | MITSUBISHI HEAVY IND LTD                     | CHARGE CONTROL DEVICE, CHARGE CONTROL METHOD, AND CHARGE CONTROL SYSTEM   |
| <a href="#">WO 2014171407 A1 20141023</a> | MITSUBISHI ELECTRIC CORP                     | ELECTRIC VEHICLE MANAGEMENT SYSTEM  |
| <a href="#">WO 2014157090 A1 20141002</a> | NISSAN MOTOR                                 | CONTACTLESS ELECTRICITY SUPPLY SYSTEM AND VEHICLE   |
| <a href="#">WO 2014159491 A2 20141002</a> | CAAMAÑO RAMON ANTHONY<br>LEE MICHAEL J       | ELECTRICAL ENERGY STORAGE SYSTEMS, ELECTRIC DRIVE SYSTEMS, CONTROLLERS, AND ELECTRICAL POWER MANAGEMENT SYSTEMS   |
| <a href="#">WO 2014162886 A1 20141009</a> | NISSAN MOTOR                                 | VEHICULAR POWER SUPPLY DEVICE   |
| <a href="#">WO 2014147986 A1 20140925</a> | PANASONIC CORP                               | IN-VEHICLE CHARGING APPARATUS   |
| <a href="#">WO 2014152889 A1 20140925</a> | ERICKSON MICHAEL J                           | ROADWAY RENEWABLE ENERGY GENERATION SYSTEM AND METHOD   |
| <a href="#">WO 2014147475 A2 20140925</a> | TOYOTA MOTOR CO LTD<br>ARIDOME KOJI          | ELECTRICAL STORAGE SYSTEM, AND FULL CHARGE CAPACITY ESTIMATION METHOD FOR ELECTRICAL STORAGE DEVICE   |
| <a href="#">WO 2014160488 A1 20141002</a> | IDEAL POWER INC                              | METHODS, SYSTEMS, AND DEVICES FOR IMPROVED ELECTRIC VEHICLE CHARGING  |
| <a href="#">WO 2014161803 A2 20141009</a> | RWE AG                                       | METHOD FOR OPERATING A CHARGING STATION   |
| <a href="#">WO 2014171453 A1 20141023</a> | TOYOTA JIDOSHOKKI KK                         | VEHICLE POWER SUPPLY SYSTEM   |
| <a href="#">WO 2014170074 A2 20141023</a> | BOSCH GMBH ROBERT<br>SAMSUNG SDI CO LTD      | METHOD FOR THE TEMPERATURE CONTROL OF A TRACTION BATTERY ARRANGED IN A VEHICLE DURING A CHARGING PROCESS AT A CHARGING STATION, AND CHARGING STATION FOR PERFORMING SUCH A METHOD |
| <a href="#">WO 2014157096 A1 20141002</a> | NISSAN MOTOR                                 | CONTACTLESS ELECTRICITY SUPPLY SYSTEM   |
| <a href="#">WO 2014156014 A1 20141002</a> | PANASONIC CORP                               | CONTACTLESS CHARGING DEVICE   |
| <a href="#">WO 2014156107 A1 20141002</a> | PANASONIC CORP                               | POWER SUPPLYING DEVICE, POWER RECEIVING DEVICE, AND POWER SUPPLYING SYSTEM  |

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|---|--------------------------------|---|
| <a href="#">WO 2014167977 A1 20141016</a> | NISSAN MOTOR                   | CONTACTLESS POWER SUPPLY DEVICE         |
| <a href="#">WO 2014157196 A1 20141002</a> | YAZAKI CORP<br>NISSAN MOTOR    | CHARGING CONNECTOR                      |
| <a href="#">WO 2014140004 A2 20140918</a> | BAYERISCHE MOTOREN<br>WERKE AG | CHARGING DEVICE FOR AN ELECTRIC VEHICLE |
| <a href="#">WO 2014156030 A1 20141002</a> | PANASONIC CORP                 | VEHICLE POWER UNIT                      |

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## CAMBIO DE BATERÍAS

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| <a href="#">WO 2014138394 A2 20140912</a> | DROSTE PETER C | SYSTEM AND METHOD FOR RAPID BATTERY EXCHANGE IN ELECTRIC VEHICLES |

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