

### Noticias

El 6 de marzo se abrió el periodo de solicitud de las ayudas para la compra de motos, ciclomotores y bicicletas eléctricos o híbridos en el marco del plan PIMA Aire 3. La cuantía de la ayuda será de hasta 400 euros por parte del Ministerio y de 200 euros que aportará el punto de venta. Más información [aquí](#).

Se ha abierto en Madrid la primera “metrolinera”: se trata de una instalación que permite la recarga de coches eléctricos aprovechando la energía generada durante el frenado de los trenes. Esta instalación se suma así a las “ferrolineras” de Adif, que utilizan una tecnología muy similar para aprovechar el frenado de los trenes de Renfe.

El balance de nuevas matriculaciones de vehículos eléctricos durante 2013 ha sido de 811 coches y 856 motos. Esto supone un 25% menos de motos pero un 85% más de coches en comparación con el año anterior. Durante el pasado mes de febrero

se vendieron en España 22 coches eléctricos, un 83,3% más que en el mismo mes de 2013. Sin embargo cayeron un 13% las matriculaciones de automóviles híbridos. El Toyota Auris volvió a ser el que tuvo más aceptación, según datos de Anfac, la Asociación Nacional de Fabricantes.

Finalmente, destacar la participación de la OEPM en la [Conferencia sobre movilidad eléctrica en España](#), organizada por Adiver, que tuvo lugar el 24 de marzo. En el marco de la conferencia se impartió una ponencia sobre innovación en el sector de la movilidad eléctrica en España, a cargo de Pablo López Unceta, técnico superior de la Unidad de Apoyo a la Dirección.

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- **INFRAESTRUCTURAS DE CARGA**
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  - [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 2014026793 A1 20140220</a> | BOSCH GMBH ROBERT   | TENSIONING BATTERY CELLS BY MEANS OF A BULGING DESIGN OF THE BATTERY HOUSING   |
| <a href="#">WO 2014035208 A2 20140306</a> | DAWONSYS CO LTD   | METHOD AND APPARATUS FOR MANUFACTURING ELECTRODE FOR SECONDARY BATTERY   |
| <a href="#">WO 2014041988 A1 20140320</a> | TOYOTA JIDOSHOKKI KK  | ELECTRICAL STORAGE DEVICE  |
| <a href="#">WO 2014028184 A1 20140220</a> | DOW KOKAM LLC   | BRACKET FOR MOUNTING BATTERY CELLS TO A CIRCUIT BOARD  |
| <a href="#">WO 2014028551 A1 20140220</a> | TEXAS INSTRUMENTS INC; TEXAS INSTRUMENTS JAPAN  | SYSTEM AND METHOD FOR BALANCING VOLTAGES   |
| <a href="#">WO 2014027152 A1 20140220</a> | PEUGEOT CITROEN AUTOMOBILES SA  | METHOD FOR LIMITING THE TORQUE OF AN ELECTRIC MACHINE OF A HYBRID VEHICLE, IN CASE OF A HIGH TORQUE REQUEST                                |
| <a href="#">WO 2014041588 A1 20140320</a> | O M C CO LTD WATANABE SHINJI  | CUTTING METHOD FOR ELECTRODE BAND FOR ELECTRONIC COMPONENT USING LASER BEAM AND DEVICE FOR SAME  |
| <a href="#">WO 2014042907 A1 20140320</a> | GRIMES CRAIG KREISLER KEVIN   | SELF-CHARGING ELECTRONIC DEVICES   |
| <a href="#">WO 2014029420 A1 20140227</a> | SIEMENS AG FRIEDRICH MARTINA  | METHOD FOR LIMITING ELECTRICAL POWER CONSUMPTION   |
| <a href="#">WO 2014029794 A1 20140227</a> | AVL LIST GMBH   | ELECTRICAL ENERGY STORE  |
| <a href="#">WO 2014033702 A1 20140306</a> | GOLDSTEIN JONATHAN R; MEITAV ARIEH TAYSIDE TRADING LTD LABIN YAAKOV; DOTAN YITZCHAK; TAYAR YAAKOV                                   | QUASI-BIPOLAR BATTERY CELLS AND ARRANGEMENTS   |
| <a href="#">WO 2014041970 A1 20140320</a> | NISSAN MOTOR  | PRESSURE RELEASE STRUCTURE FOR VEHICLE BATTERY PACK  |
| <a href="#">WO 2014045884 A1 20140327</a> | TOYOTA MOTOR CO LTD; ZEON CORP; UCHIDA YOZO   | LITHIUM-ION SECONDARY CELL   |
| <a href="#">WO 2013178894 A1 20131205</a> | PEUGEOT CITROEN AUTOMOBILES SA  | DEVICE PROVIDING SEALING BETWEEN TWO COOLING RADIATORS INSTALLED IN A VEHICLE  |
| <a href="#">WO 2014012794 A1 20140123</a> | BOSCH GMBH ROBERT SAMSUNG SDI CO LTD  | BATTERY AND MOTOR VEHICLE HAVING A BATTERY   |
| <a href="#">WO 2014030260 A1 20140227</a> | HITACHI VEHICLE ENERGY LTD; SUZUKI SHUICHI; SUZUKI HITOSHI; ARAKI CHIEKO; ABE TOSHIO  | NEGATIVE ELECTRODE FOR LITHIUM ION SECONDARY CELL AND METHOD FOR PRODUCING SAME  |
| <a href="#">WO 2014030478 A1 20140227</a> | SHARP KK  | POWER SUPPLY DEVICE, SOLAR SYSTEM, ELECTRIC SYSTEM, AND VEHICLE  |
| <a href="#">WO 2014030761 A1 20140227</a> | HONDA MOTOR CO LTD; TOYOTA MOTOR CO LTD; UNIV KYOTO   | DEVICE PROVIDED WITH POSITIVE ELECTRODE AND SALT, AND SECONDARY BATTERY  |
| <a href="#">WO 2014030794 A1 20140227</a> | KOREA ENERGY RESEARCH INST; LIM YONG-HOON; PARK BYUNG-SIK; CHUNG DAE-HUN; KANG SAE-BYUL; LEE JAE-YONG; LEE DONG-HYUN; CHOI KYU-SUNG | ELECTRICAL POWER STORAGE DEVICE FOR VEHICLE USING COMPRESSED-AIR ENERGY STORAGE, AND ELECTRICAL POWER STORAGE METHOD THEREFOR              |
| <a href="#">WO 2014034078 A1 20140306</a> | SANYO ELECTRIC CO   | NEGATIVE ELECTRODE FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERIES, METHOD FOR PRODUCING SAME, AND NONAQUEOUS ELECTROLYTE SECONDARY BATTERY |

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| <a href="#">WO 2014034104 A1 20140306</a> | NIPPON STEEL & SUMITOMO METAL  | NEGATIVE ELECTRODE ACTIVE SUBSTANCE MATERIAL  |
| <a href="#">WO 2014034153 A1 20140306</a> | PANASONIC CORP   | ELECTRICAL LEAK DETECTION CIRCUIT, BATTERY CIRCUIT BOARD, AND BATTERY POWER SOURCE DEVICE   |
| <a href="#">WO 2014034775 A1 20140306</a> | TODA KOGYO CORP  | METHOD FOR PRODUCING CARBON COMPOSITE LITHIUM MANGANESE IRON PHOSPHATE PARTICLE POWDER, CARBON COMPOSITE LITHIUM MANGANESE IRON PHOSPHATE PARTICLE POWDER, AND NONAQUEOUS ELECTROLYTE SECONDARY BATTERY USING CARBON COMPOSITE LITHIUM MANGANESE IRON PHOSPHATE PARTICLE POWDER |
| <a href="#">WO 2014034844 A1 20140306</a> | EQUOS RES CO LTD   | POWER TRANSMISSION SYSTEM   |
| <a href="#">WO 2014034966 A1 20140306</a> | TOSHIBA KK   | POWER TRANSMITTING APPARATUS, POWER RECEIVING APPARATUS, AND WIRELESS POWER TRANSMISSION SYSTEM   |
| <a href="#">WO 2014036227 A1 20140306</a> | AVL TEST SYSTEMS INC   | HIGH POWER BATTERY CELLS HAVING IMPROVED COOLING  |
| <a href="#">WO 2014040666 A1 20140320</a> | AUDI AG  | BATTERY MODULE AND METHOD FOR PRODUCING SAME  |
| <a href="#">WO 2014040679 A2 20140320</a> | DAIMLER AG   | ELECTROCHEMICAL BATTERY HAVING A PLURALITY OF INDIVIDUAL CELLS  |
| <a href="#">WO 2013181333 A1 20131205</a> | DU PONT  | AN ELECTROCHEMICAL CELL COMPRISING A NANOWEB COMPRISING NANOFIBERS OF A CROSS-LINKED POLYIMIDE  |
| <a href="#">WO 2014023596 A1 20140213</a> | BAYERISCHE MOTOREN WERKE AG  | METHOD FOR COOLING A BATTERY, IN PARTICULAR A HIGH-POWER BATTERY, IN MOTOR VEHICLES   |
| <a href="#">WO 2014023725 A1 20140213</a> | BOSCH GMBH ROBERT SAMSUNG SDI CO LTD   | HOUSING FOR A BATTERY CELL WITH A HOUSING COVER HAVING A MONITORING ELECTRONICS UNIT, BATTERY CELL, BATTERY MODULE AND MOTOR VEHICLE  |
| <a href="#">WO 2014023746 A2 20140213</a> | JAGUAR LAND ROVER LTD  | CONTROL OF RECHARGEABLE ELECTRIC BATTERY SYSTEM FOR A VEHICLE   |
| <a href="#">WO 2014029565 A1 20140227</a> | BOSCH GMBH ROBERT SAMSUNG SDI CO LTD   | BATTERY SYSTEM AND MOTOR VEHICLE  |
| <a href="#">WO 2014033822 A1 20140306</a> | HITACHI VEHICLE ENERGY LTD; URANO KAZUAKI; NOIRI YOSHIKAZU; SHIWA MASAFUMI           | RECTANGULAR SECONDARY BATTERY   |
| <a href="#">WO 2014033827 A1 20140306</a> | HITACHI VEHICLE ENERGY LTD SHINOHARA HIDEKI SATO YUTAKA                              | SECONDARY BATTERY   |
| <a href="#">WO 2014034221 A1 20140306</a> | NISSAN MOTOR   | BATTERY INFORMATION SYSTEM  |
| <a href="#">WO 2014034409 A1 20140306</a> | SUMITOMO ELECTRIC INDUSTRIES   | MOLTEN SALT BATTERY, METHOD FOR MANUFACTURING SAME, AND APPARATUS FOR PRODUCING BATTERY ELEMENT FOR MOLTEN SALT BATTERIES   |
| <a href="#">WO 2014034413 A1 20140306</a> | TOYOTA JIDOSHOKKI KK   | ELECTRICITY STORAGE DEVICE  |
| <a href="#">WO 2014034801 A1 20140306</a> | YAZAKI CORP  | STRUCTURE FOR HOLDING VOLTAGE DETECTING TERMINAL  |
| <a href="#">WO 2014034857 A1 20140306</a> | KUREHA CORP KURARAY CO KURARAY CHEMICAL KK   | CARBON MATERIAL FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERY AND METHOD FOR MANUFACTURING SAME, AND NEGATIVE ELECTRODE USING CARBON MATERIAL AND NONAQUEOUS ELECTROLYTE SECONDARY BATTERY   |
| <a href="#">WO 2014035104 A1 20140306</a> | LG CHEMICAL LTD  | LITHIUM ION SECONDARY BATTERY PREVENTING INTERNAL SHORT   |
| <a href="#">WO 2014036024 A1 20140306</a> | ASAHI CHEMICAL IND   | MATERIALS FOR BATTERY ELECTROLYTES AND METHODS FOR USE  |
| <a href="#">WO 2014036026 A1 20140306</a> | ASAHI CHEMICAL IND   | MATERIALS FOR BATTERY ELECTROLYTES AND METHODS FOR USE  |
| <a href="#">WO 2014038081 A1 20140313</a> | RENESAS ELECTRONICS CORP FUKUTE AKIKO; ENOMOTO RYOSUKE; KIMURA JUNKO; UKAI TOSHITAKA | SEMICONDUCTOR DEVICE AND BATTERY VOLTAGE MONITORING DEVICE  |

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| <a href="#">WO 2014038092 A1 20140313</a> | TOYOTA MOTOR CO LTD; HASHIMOTO TATSUYA; OHARA KEISUKE; YOKOYAMA YUJI; FUKUMOTO YUSUKE   | LITHIUM SECONDARY BATTERY  |
| <a href="#">WO 2014038493 A1 20140313</a> | KUREHA CORP KUREHA BATTERY MATERIALS JAPAN CO LTD                                       | METHOD FOR PRODUCING CARBONACEOUS MATERIAL FOR NEGATIVE ELECTRODES OF NONAQUEOUS ELECTROLYTE SECONDARY BATTERIES   |
| <a href="#">WO 2014038521 A1 20140313</a> | NGK INSULATORS LTD NAGOYA INST TECHNOLOGY   | SOLID ELECTROLYTE CERAMIC MATERIAL   |
| <a href="#">WO 2014038711 A1 20140313</a> | SUMITOMO ELECTRIC INDUSTRIES  | SODIUM SECONDARY CELL  |
| <a href="#">WO 2014016126 A1 20140130</a> | BOSCH GMBH ROBERT   | DRIVE SYSTEM FOR AN ELECTRIC VEHICLE AND METHOD FOR CHARGING A BATTERY WITH A COMBUSTION ENGINE  |
| <a href="#">WO 2014024075 A1 20140213</a> | SAMSUNG SDI CO LTD CSIR   | PRODUCTION OF A SPINEL MATERIAL  |
| <a href="#">WO 2014026730 A2 20140220</a> | LI TEC BATTERY GMBH   | CONVERTER CELL WITH A CELL HOUSING, BATTERY WITH AT LEAST TWO SUCH CONVERTER CELLS, AND METHOD FOR MANUFACTURING A CONVERTER CELL  |
| <a href="#">WO 2014030853 A1 20140227</a> | UNIV DONGGUK IND ACAD COOP  | METHOD FOR PREPARING SILICON OXIDE/CARBON COMPOSITE FOR ANODE ACTIVE MATERIAL OF LITHIUM SECONDARY BATTERY   |
| <a href="#">WO 2014030914 A1 20140227</a> | SK INNOVATION CO LTD  | POWER RELAY ASSEMBLY FOR ELECTRIC VEHICLE, AND METHOD FOR OPERATING ENERGY SYSTEM FOR ELECTRIC VEHICLE PROVIDED WITH THE POWER RELAY ASSEMBLY  |
| <a href="#">WO 2014033906 A1 20140306</a> | HITACHI VEHICLE ENERGY LTD KAJIWARA KOUICHI KOGUCHI HAYATO HIZONO TAKESHI EGAWA HIROAKI | RECTANGULAR SECONDARY BATTERY  |
| <a href="#">WO 2014034069 A1 20140306</a> | TOYOTA JIDOSHOKKI KK  | NEGATIVE ELECTRODE MATERIAL FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERIES, METHOD FOR PRODUCING SAME, NEGATIVE ELECTRODE FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERIES, AND NONAQUEOUS ELECTROLYTE SECONDARY BATTERY |
| <a href="#">WO 2014034708 A1 20140306</a> | SHARP KK  | ELECTRODE PLATE AND SECONDARY BATTERY  |
| <a href="#">WO 2014034794 A1 20140306</a> | TOYOTA MOTOR CO LTD; UNIV SHINSHU   | SOLID ELECTROLYTE SINGLE CRYSTAL HAVING PEROVSKITE STRUCTURE AND METHOD FOR PRODUCING SAME   |
| <a href="#">WO 2014034858 A1 20140306</a> | KUREHA CORP KURARAY CO KURARAY CHEMICAL KK  | CARBONACEOUS MATERIAL FOR NEGATIVE ELECTRODES OF NONAQUEOUS ELECTROLYTE SECONDARY BATTERIES AND METHOD FOR PRODUCING SAME  |
| <a href="#">WO 2014034933 A1 20140306</a> | NIPPON CHEMICON UNIV TOKYO AGRICULTURE; K & W LTD                                       | ELECTRODE MATERIAL FOR LITHIUM ION SECONDARY BATTERIES, METHOD FOR PRODUCING ELECTRODE MATERIAL FOR LITHIUM ION SECONDARY BATTERIES, AND LITHIUM ION SECONDARY BATTERY   |
| <a href="#">WO 2014035160 A1 20140306</a> | SK INNOVATION CO LTD  | BATTERY MODULE   |
| <a href="#">WO 2014039810 A2 20140313</a> | JOHNSON CONTROLS TECHNOLOGY LLC   | HIGH VOLTAGE CONNECTOR SYSTEM AND METHOD   |
| <a href="#">WO 2014040676 A1 20140320</a> | DAIMLER AG  | INDIVIDUAL BATTERY CELL FOR A HV BATTERY   |
| <a href="#">WO 2014040683 A1 20140320</a> | DAIMLER AG  | INDIVIDUAL BATTERY CELL FOR A HV BATTERY   |
| <a href="#">WO 2014040789 A1 20140320</a> | BOSCH GMBH ROBERT   | BATTERY CELL HAVING A HOUSING COVER PLATE WITH AN ADHESIVELY BONDED SEALING STOPPER  |
| <a href="#">WO 2014040790 A1 20140320</a> | BOSCH GMBH ROBERT   | LITHIUM-ION CELL WITH INORGANIC ION EXCHANGER  |
| <a href="#">WO 2014041043 A2 20140320</a> | JAGUAR LAND ROVER LTD   | A METHOD FOR CONTROLLING AN ELECTRICAL SYSTEM IN A VEHICLE   |
| <a href="#">WO 2013186177 A1 20131219</a> | VALEO SYSTEMES THERMIQUES   | THERMAL BATTERY AND ASSOCIATED HEATING DEVICE  |
| <a href="#">WO 2014030684 A1 20140227</a> | UBE INDUSTRIES  | NONAQUEOUS ELECTROLYTE SOLUTION AND ELECTRICITY STORAGE DEVICE USING SAME  |
| <a href="#">WO 2014031440 A1 20140227</a> | NANOCOMP TECHNOLOGIES INC   | BATTERIES HAVING NANOSTRUCTURED COMPOSITE CATHODE  |
| <a href="#">WO 2014034043 A1 20140306</a> | SANYO ELECTRIC CO   | NONAQUEOUS ELECTROLYTE SECONDARY BATTERY   |

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| <a href="#">WO 2014034113 A1 20140306</a> | SHOWA DENKO KK                                      | ELECTRICITY STORAGE DEVICE AND METHOD FOR PRODUCING SAME   |
| <a href="#">WO 2014034430 A1 20140306</a> | SUMITOMO METAL MINING CO                            | METHOD FOR PRODUCING POSITIVE ELECTRODE ACTIVE MATERIAL FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERIES, POSITIVE ELECTRODE ACTIVE MATERIAL FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERIES, AND NONAQUEOUS ELECTROLYTE SECONDARY BATTERY USING SAME |
| <a href="#">WO 2014039762 A1 20140313</a> | CERAMATEC INC                                       | SODIUM-HALOGEN SECONDARY CELL  |
| <a href="#">WO 2013178652 A1 20131205</a> | VALEO SYSTEMES THERMIQUES                           | HEATING, VENTILATION AND/OR AIR-CONDITIONING EQUIPMENT FOR A MOTOR VEHICLE AND METHOD FOR USING SUCH EQUIPMENT   |
| <a href="#">WO 2013188892 A1 20131219</a> | CHRYSLER GROUP LLC                                  | HYBRID VEHICLE CONTROL WITH CATALYST WARM-UP   |
| <a href="#">WO 2014013198 A1 20140123</a> | RENAULT SA  | BATTERY MODULE HAVING COMPRESSED CELLS   |
| <a href="#">WO 2014016069 A1 20140130</a> | BOSCH GMBH ROBERT SAMSUNG SDI CO LTD                | TRANSPORT CONTAINER FOR A DEFECTIVE LITHIUM-ION BATTERY  |
| <a href="#">WO 2014022908 A1 20140213</a> | MAHY E CELL PARTNERSHIP                             | BATTERY CELL TERMINAL MADE FROM A PLURALITY OF MATERIALS AND BATTERY CELL AND BATTERY PACK USING SAME  |
| <a href="#">WO 2014023511 A1 20140213</a> | BOSCH GMBH ROBERT                                   | GALVANIC ELEMENT FOR AN ELECTROCHEMICAL BATTERY  |
| <a href="#">WO 2014024341 A1 20140213</a> | PANASONIC CORP                                      | REACTOR DEVICE   |
| <a href="#">WO 2014024425 A1 20140213</a> | SANYO ELECTRIC CO                                   | BATTERY PACK, METHOD FOR PRODUCING SAME, ELECTRIC VEHICLE PROVIDED WITH SAID BATTERY PACK, AND POWER STORAGE DEVICE  |
| <a href="#">WO 2014024430 A1 20140213</a> | SANYO ELECTRIC CO                                   | BATTERY PACK, ELECTRIC VEHICLE PROVIDED WITH SAME, AND POWER STORAGE DEVICE  |
| <a href="#">WO 2014024926 A1 20140213</a> | TOYOTA MOTOR CO LTD                                 | ALL-SOLID-STATE BATTERY AND METHOD FOR MANUFACTURING SAME  |
| <a href="#">WO 2014025461 A1 20140213</a> | ENVISION SOLAR INTERNATIONAL INC                    | SELF-CONTAINED RENEWABLE BATTERY CHARGER   |
| <a href="#">WO 2014030839 A1 20140227</a> | SK INNOVATION CO LTD                                | RELAY CONTROL SYSTEM AND METHOD FOR CONTROLLING SAME   |
| <a href="#">WO 2014038175 A1 20140313</a> | PANASONIC CORP                                      | BATTERY BLOCK AND MANUFACTURING METHOD THEREFOR  |
| <a href="#">WO 2014038180 A1 20140313</a> | SANYO ELECTRIC CO                                   | POWER-SUPPLY DEVICE AND MANAGEMENT DEVICE  |
| <a href="#">WO 2014038491 A1 20140313</a> | KUREHA CORP KUREHA BATTERY MATERIALS JAPAN CO LTD   | CARBONACEOUS MATERIAL FOR NEGATIVE ELECTRODES OF NONAQUEOUS ELECTROLYTE SECONDARY BATTERIES, AND METHOD FOR PRODUCING SAME   |
| <a href="#">WO 2014040684 A2 20140320</a> | DAIMLER AG  | INDIVIDUAL BATTERY CELL IN THE FORM OF A BIPOLAR FLAT-CELL FRAME   |
| <a href="#">WO 2013178434 A1 20131205</a> | DELPHI INTERNAT OPERATIONS LUXEMBOURG S A R L       | INTERCONNECTION ASSEMBLY FOR VEHICLE DEVICES AND METHOD OF INTERCONNECTION   |
| <a href="#">WO 2013189565 A1 20131227</a> | AUDI NSU AUTO UNION AG                              | VEHICLE HAVING A BATTERY ARRANGEMENT   |
| <a href="#">WO 2013190205 A1 20131227</a> | RENAULT SA  | METHOD FOR RECHARGING A BATTERY OF A HYBRID VEHICLE WHEN THE VEHICLE IS STATIONARY   |
| <a href="#">WO 2014009211 A1 20140116</a> | BLUE SOLUTIONS                                      | METHOD FOR CHARGING A BATTERY AND BATTERY THUS CHARGED   |
| <a href="#">WO 2014019760 A2 20140206</a> | VOLKSWAGEN AG                                       | METHOD FOR DEACTIVATING A HIGH VOLTAGE SYSTEM OF A MOTOR VEHICLE   |
| <a href="#">WO 2014020582 A2 20140206</a> | MARTIROSYAN SUREN GUILLONNET DIDIER                 | METHOD FOR PROVIDING ADJUSTABLE POWER FROM BATTERY PACKS, DISCRETE POWER DISTRIBUTION UNIT FOR ELECTRIC VEHICLES   |
| <a href="#">WO 2014025926 A2 20140213</a> | BOSCH GMBH ROBERT ALBERTUS PAUL CHRISTENSEN JOHN F  | CONTROLLING THE LOCATION OF PRODUCT DISTRIBUTION AND REMOVAL IN A METAL/OXYGEN CELL  |
| <a href="#">WO 2014034377 A1 20140306</a> | NISSAN MOTOR  | HIGH-VOLTAGE HARNESS CONNECTION STRUCTURE FOR ELECTRIC VEHICLE   |
| <a href="#">WO 2014035508 A2 20140306</a> | BLUEFIN ROBOTICS CORP; VAGANAY JEROME GURFINKEL LEO | METHODS, SYSTEMS, AND APPARATUSES FOR INVERTING A SUBMERSIBLE CRAFT  |
| <a href="#">WO 2014036090 A1 20140306</a> | APPLIED MATERIALS INC                               | SOLID STATE BATTERY FABRICATION  |
| <a href="#">WO 2014040677 A2 20140320</a> | DAIMLER AG  | INDIVIDUAL CELL FOR A BATTERY  |
| <a href="#">WO 2013184926 A1 20131212</a> | JOHNSON CONTROLS TECHNOLOGY LLC                     | MANUFACTURING SERVICE DISCONNECT THAT IS PART OF BUSBAR  |

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| <a href="#">WO 2013186020 A1 20131219</a> | JAGUAR LAND ROVER LTD  | A VEHICLE BATTERY PACK, A SYSTEM FOR COOLING A BATTERY PACK AND A COOLING PLATE FOR USE IN THE SYSTEM   |
| <a href="#">WO 2013190227 A1 20131227</a> | VALEO EQUIP ELECTR MOTEUR  | VOLTAGE REGULATING DEVICE AND EXCITATION ROTATING ELECTRIC MACHINE EQUIPPED WITH SUCH A DEVICE  |
| <a href="#">WO 2014024432 A1 20140213</a> | SANYO ELECTRIC CO  | VEHICLE BATTERY SYSTEM AND ELECTRIC VEHICLE PROVIDED WITH BATTERY SYSTEM  |
| <a href="#">WO 2014024477 A1 20140213</a> | PANASONIC CORP   | BATTERY HEATER DEVICE   |
| <a href="#">WO 2014024749 A1 20140213</a> | YAZAKI CORP  | SPRING CATCH STRUCTURE  |
| <a href="#">WO 2014025868 A1 20140213</a> | CELGARD LLC  | IMPROVED SEPARATOR MEMBRANES FOR LITHIUM ION BATTERIES AND RELATED METHODS  |
| <a href="#">WO 2014028219 A1 20140220</a> | ENVIA SYSTEMS INC  | LITHIUM ION BATTERIES WITH HIGH ENERGY DENSITY, EXCELLENT CYCLING CAPABILITY AND LOW INTERNAL IMPEDANCE   |
| <a href="#">WO 2014030298 A1 20140227</a> | SANTOKU CORP   | ALL-SOLID-STATE LITHIUM ION BATTERY AND POSITIVE ELECTRODE MIXTURE  |
| <a href="#">WO 2014033381 A1 20140306</a> | RENAULT SA   | METHOD FOR CONTROLLING AN ELECTRIC MACHINE RESTRICTING ENERGY LOSSES  |
| <a href="#">WO 2014033806 A1 20140306</a> | TOYOTA MOTOR CO LTD; UMEYAMA HIROYA; IMANISHI HIROAKI                              | SEALED SECONDARY CELL   |
| <a href="#">WO 2014033944 A1 20140306</a> | HITACHI LTD<br>IWAMURA KAZUAKI<br>TONOOKA HIDEKI<br>MASHITA YUUICHI<br>SANO HIDEKI | CHARGING SUPPORT SYSTEM AND CHARGING SUPPORT METHOD FOR ELECTRIC VEHICLE  |
| <a href="#">WO 2014037133 A1 20140313</a> | BOSCH GMBH ROBERT  | LOW-VOLTAGE NETWORK WITH A DC-DC CONVERTER AND METHOD FOR TESTING A LOW-VOLTAGE BATTERY   |
| <a href="#">WO 2014038099 A1 20140313</a> | SANYO ELECTRIC CO  | VEHICULAR BATTERY SYSTEM AND VEHICLE EQUIPPED WITH SAME   |
| <a href="#">WO 2014038174 A1 20140313</a> | GS YUASA INT LTD   | NONAQUEOUS ELECTROLYTE SECONDARY BATTERY AND METHOD FOR PRODUCING NONAQUEOUS ELECTROLYTE SECONDARY BATTERY  |
| <a href="#">WO 2014038356 A1 20140313</a> | TOYOTA MOTOR CO LTD  | LITHIUM SECONDARY BATTERY AND PRODUCTION METHOD FOR SAME  |
| <a href="#">WO 2014038698 A1 20140313</a> | NIPPON STEEL & SUMIKIN CHEM CO   | ACTIVE SUBSTANCE FOR USE IN NEGATIVE ELECTRODE OF LITHIUM ION SECONDARY BATTERY, AND NEGATIVE ELECTRODE OF LITHIUM ION SECONDARY BATTERY AND LITHIUM ION SECONDARY BATTERY USING SAME   |
| <a href="#">WO 2013181091 A1 20131205</a> | EVANS DALE M   | SYSTEM AND METHOD FOR ENERGY RECOVERY IN A HYDROGEN OR NATURAL GAS ENGINE   |
| <a href="#">WO 2014013433 A1 20140123</a> | MARTIROSYAN SUREN<br>GUILLONNET DIDIER   | GAS-SHIELD-ELECTRODE AND COMPOSITE BIFUNCTIONAL AIR-ELECTRODE USING THE SAME FOR USE IN METAL-AIR BATTERIES   |
| <a href="#">WO 2014014630 A1 20140123</a> | QUALCOMM INC   | TUNING CIRCUIT AND METHOD FOR WIRELESS POWER TRANSFER SYSTEMS   |
| <a href="#">WO 2014017281 A1 20140130</a> | IHI CORP   | CONTACTLESS POWER-SUPPLY SYSTEM   |
| <a href="#">WO 2014023914 A1 20140213</a> | COMMISSARIAT ENERGIE ATOMIQUE  | METHOD OF PRODUCING AN ELECTRIC BATTERY   |
| <a href="#">WO 2014024424 A1 20140213</a> | SANYO ELECTRIC CO  | METHOD FOR PRODUCING BATTERY PACK   |
| <a href="#">WO 2014024431 A1 20140213</a> | SANYO ELECTRIC CO  | BATTERY SYSTEM, VEHICLE PROVIDED WITH BATTERY SYSTEM, AND ELECTRICITY STORAGE DEVICE  |
| <a href="#">WO 2014029537 A1 20140227</a> | BOSCH GMBH ROBERT<br>SAMSUNG SDI CO LTD  | BATTERY CELL, BATTERY, METHOD FOR DISCHARGING A BATTERY CELL, AND MOTOR VEHICLE   |
| <a href="#">WO 2014030910 A1 20140227</a> | SK INNOVATION CO LTD   | BATTERY MODULE ASSEMBLY AND MANUFACTURING METHOD THEREFOR   |
| <a href="#">WO 2014031835 A1 20140227</a> | DARAMIC LLC  | BATTERY SEPARATOR WITH GEL IMPREGNATED NONWOVEN FOR LEAD ACID BATTERY   |
| <a href="#">WO 2014038100 A1 20140313</a> | SANYO ELECTRIC CO  | VEHICULAR BATTERY SYSTEM AND VEHICLE EQUIPPED WITH SAME   |
| <a href="#">WO 2014038492 A1 20140313</a> | KUREHA CORP<br>KUREHA BATTERY MATERIALS JAPAN CO LTD                               | CARBONACEOUS MATERIAL FOR NEGATIVE ELECTRODE OF NONAQUEOUS-ELECTROLYTE SECONDARY BATTERY, PROCESS FOR PRODUCING SAME, AND NEGATIVE ELECTRODE AND NONAQUEOUS-ELECTROLYTE SECONDARY BATTERY OBTAINED USING SAID CARBONACEOUS MATERIAL |
| <a href="#">WO 2014038891 A1 20140313</a> | SK INNOVATION CO LTD   | SECONDARY BATTERY   |

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| <a href="#">WO 2014039813 A1 20140313</a> | JOHNSON CONTROLS TECHNOLOGY LLC                                  | SYSTEM AND METHOD FOR CLOSING A BATTERY FILL HOLE  |
| <a href="#">WO 2014039818 A1 20140313</a> | JOHNSON CONTROLS TECHNOLOGY LLC                                  | CELL TERMINAL SEAL SYSTEM AND METHOD   |
| <a href="#">WO 2013185971 A1 20131219</a> | BOSCH GMBH ROBERT  | PROTECTIVE DEVICE FOR AN ELECTRONIC COMPONENT, ELECTRIC CIRCUIT, ELECTROCHEMICAL ENERGY STORE, METHOD FOR PRODUCING AN ELECTRIC CIRCUIT AND USE OF A FLEXIBLE SHEATH                                       |
| <a href="#">WO 2013186878 A1 20131219</a> | HITACHI VEHICLE ENERGY LTD<br>SUGAWARA TATSUO                    | IN-VEHICLE POWER STORAGE DEVICE  |
| <a href="#">WO 2013189758 A1 20131227</a> | BOSCH GMBH ROBERT<br>SAMSUNG SDI CO LTD                          | BATTERY MANAGEMENT SYSTEM, MOTOR VEHICLE AND BATTERY MODULE  |
| <a href="#">WO 2013192258 A1 20131227</a> | CABOT CORP   | ELECTRODE FORMULATIONS COMPRISING GRAPHENES  |
| <a href="#">WO 2014001898 A1 20140103</a> | TOYOTA MOTOR CO LTD; TAMAKI TAKUMI; NAGAI HIROKI; WASEDA TETSUYA | LITHIUM SECONDARY BATTERY AND VEHICLE WITH THE SAME  |
| <a href="#">WO 2014001907 A1 20140103</a> | TOYOTA MOTOR CO LTD<br>WASEDA TETSUYA<br>TOKUNAGA TAKASHI        | NONAQUEOUS ELECTROLYTE SECONDARY BATTERY AND METHOD OF MANUFACTURING NONAQUEOUS ELECTROLYTE SECONDARY BATTERY  |
| <a href="#">WO 2014004102 A1 20140103</a> | EETREX INC   | CELLULAR FUSIBLE LINK AND BATTERY MODULE CONFIGURATION   |
| <a href="#">WO 2014017085 A1 20140130</a> | SANYO ELECTRIC CO  | BATTERY-PACK PROCESSING DEVICE   |
| <a href="#">WO 2014017779 A1 20140130</a> | LG CHEMICAL LTD  | RECTANGULAR BATTERY CELL HAVING POUCH-SHAPED BATTERY CELL BUILT THEREIN  |
| <a href="#">WO 2014021085 A1 20140206</a> | NISSAN MOTOR   | NON-CONTACT POWER SUPPLY DEVICE  |
| <a href="#">WO 2014021272 A1 20140206</a> | UBE INDUSTRIES   | NON-AQUEOUS ELECTROLYTE AND POWER STORAGE DEVICE USING SAME  |
| <a href="#">WO 2014021425 A1 20140206</a> | IDEMITSU UNITECH CO LTD  | BIAXIALLY-ORIENTED NYLON FILM, LAMINATE FILM, LAMINATE PACKAGING MATERIAL, BATTERY, AND METHOD FOR PRODUCING BIAXIALLY-ORIENTED NYLON FILM   |
| <a href="#">WO 2014021665 A1 20140206</a> | LG CHEMICAL LTD  | ELECTRODE ASSEMBLY FOR SECONDARY BATTERY AND LITHIUM SECONDARY BATTERY COMPRISING SAME   |
| <a href="#">WO 2014021685 A1 20140206</a> | LG CHEMICAL LTD  | MIXED CATHODE ACTIVE MATERIAL HAVING IMPROVED OUTPUT CHARACTERISTICS AND LITHIUM SECONDARY BATTERY INCLUDING SAME  |
| <a href="#">WO 2014024473 A1 20140213</a> | SHOWA DENKO KK   | NEGATIVE-ELECTRODE MATERIAL FOR LITHIUM-ION SECONDARY BATTERY  |
| <a href="#">WO 2014024490 A1 20140213</a> | PANASONIC CORP   | TEMPERATURE ELEVATION CONTROL CIRCUIT AND ELECTRICALLY OPERATED DEVICE   |
| <a href="#">WO 2013161981 A1 20131031</a> | MURATA MANUFACTURING CO  | METHOD FOR PRODUCING SOLID-STATE BATTERY, AND SOLID-STATE BATTERY  |
| <a href="#">WO 2013183105 A1 20131212</a> | TOYOTA MOTOR CO LTD; ICHIKAWA SHINJI                             | POWER RECEPTION DEVICE AND POWER TRANSMISSION DEVICE   |
| <a href="#">WO 2013185837 A1 20131219</a> | MAX PLANCK GESELLSCHAFT; LI CHILIN; MAIER JOACHIM                | METHOD OF MANUFACTURE OF AN ELECTRODE MATERIAL AND AN ELECTRODE MATERIAL   |
| <a href="#">WO 2013187073 A1 20131219</a> | TOSOH F TECH INC   | METHOD FOR STABILIZING LiPF <sub>6</sub> , ELECTROLYTE SOLUTION FOR NONAQUEOUS SECONDARY BATTERIES HAVING EXCELLENT THERMAL STABILITY, AND NONAQUEOUS SECONDARY BATTERY HAVING EXCELLENT THERMAL STABILITY |
| <a href="#">WO 2013187661 A1 20131219</a> | LG CHEMICAL LTD  | BATTERY ASSEMBLY HAVING SINGLE ELECTRODE TERMINAL JOINT PART   |
| <a href="#">WO 2013187685 A1 20131219</a> | LG CHEMICAL LTD  | BATTERY CELL HAVING IMPROVED COOLING EFFICIENCY  |
| <a href="#">WO 2014001707 A1 20140103</a> | RENAULT SA   | METHOD FOR ENERGY MANAGEMENT IN A HYBRID VEHICLE   |
| <a href="#">WO 2014013837 A1 20140123</a> | HITACHI LTD  | ACTIVE MATERIAL PARTICLES FOR LITHIUM ION SECONDARY BATTERIES, AND LITHIUM ION SECONDARY BATTERY USING SAME  |
| <a href="#">WO 2014014285 A1 20140123</a> | SK INNOVATION CO LTD   | SECONDARY BATTERY MODULE COMPRISING CELL DAMPER  |
| <a href="#">WO 2014014303 A1 20140123</a> | SK INNOVATION CO LTD   | BATTERY MODULE ASSEMBLY  |
| <a href="#">WO 2014017744 A1 20140130</a> | SK INNOVATION CO LTD   | DEVICE FOR CONNECTING BATTERY MODULE ELECTRODE TERMINAL AND TERMINAL   |

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| <a href="#">WO 2014021057 A1 20140206</a> | TOYOTA AUTO BODY CO LTD<br>WAKAMATSU AKITO<br>YONEDA SHOGO<br>NAGATA KAZUYA  | VEHICLE BATTERY APPARATUS  |
| <a href="#">WO 2014024448 A1 20140213</a> | SANYO ELECTRIC CO  | BATTERY PACK, ELECTRIC VEHICLE PROVIDED WITH SAME, AND POWER STORAGE DEVICE  |
| <a href="#">WO 2014024525 A1 20140213</a> | TOYOTA MOTOR CO LTD  | NEGATIVE ELECTRODE FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERIES, NONAQUEOUS ELECTROLYTE SECONDARY BATTERY, METHOD FOR PRODUCING NEGATIVE ELECTRODE FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERIES, AND METHOD FOR MANUFACTURING NONAQUEOUS ELECTROLYTE SECONDARY BATTERY |
| <a href="#">WO 2014024748 A1 20140213</a> | YAZAKI CORP  | CHARGING INLET DEVICE  |
| <a href="#">WO 2014026112 A1 20140213</a> | UNIV LELAND<br>STANFORD JUNIOR<br>UNIV NANJING   | LI-ION BATTERY ELECTRODES HAVING NANOPARTICLES IN A CONDUCTIVE POLYMER MATRIX  |
| <a href="#">WO 2014031766 A2 20140227</a> | QUALCOMM INC   | POWER SUPPLY CONTROL IN WIRELESS POWER TRANSFER SYSTEMS  |
| <a href="#">WO 2013182436 A1 20131212</a> | BOSCH GMBH ROBERT  | METHOD AND A DEVICE FOR DETERMINING THE INTERNAL RESISTANCE OF BATTERY CELLS OF A BATTERY  |
|   | SAMSUNG SDI CO LTD   |  |
| <a href="#">WO 2013182817 A1 20131212</a> | RENAULT SA   | METHOD FOR STARTING AN INTERNAL COMBUSTION ENGINE, AND ASSOCIATED SYSTEM AND CALCULATOR  |
| <a href="#">WO 2013186148 A1 20131219</a> | COMMISSARIAT ENERGIE ATOMIQUE  | ACCUMULATOR BATTERY PROTECTED AGAINST EXTERNAL SHORT-CIRCUITS  |
| <a href="#">WO 2013187368 A1 20131219</a> | SUMITOMO CHEMICAL CO   | COATED FILM DETACHMENT DEVICE, SECONDARY BATTERY SEPARATOR FABRICATION DEVICE, COATED FILM DETACHMENT METHOD, AND SECONDARY BATTERY SEPARATOR FABRICATION METHOD   |
| <a href="#">WO 2013188680 A1 20131219</a> | ALLISON TRANSMISSION INC<br>MASKEW BRIAN J<br>DELRYMPLE DEREK A<br>MORROW BRIAN C<br>BASS EDWARD<br>BAILEY FELICE E<br>REYBURN STEVEN T<br>FORD DEAN M<br>JOHNSON CLYDE H<br>BENNETT SCOTT K<br>BAXTER LEONARD F II<br>MILLER BRUCE E<br>NAEGELI MARKUS<br>WENDLING JERRY<br>GASAWAY TIMOTHY A<br>HOPKINS RUSSELL B<br>LAWRENCE ROBERT A | ENERGY STORAGE SYSTEM FOR HYBRID ELECTRIC VEHICLE  |
| <a href="#">WO 2014001878 A1 20140103</a> | TOYOTA MOTOR CO LTD<br>SUZUKI SATOSHI<br>OKADA TOSHIYA   | RECTANGULAR BATTERY AND METHOD OF MANUFACTURING RECTANGULAR BATTERY  |
| <a href="#">WO 2014006470 A1 20140109</a> | TOYOTA MOTOR CO LTD<br>FUCHIMOTO TETSUYA<br>TAKAHASHI KENJI<br>TOMURA SHUJI<br>HIROTA YASUKI   | SYSTEM AND METHOD FOR CONTROLLING PRECIPITATION AND DISSOLUTION OF REACTION-RELATED SUBSTANCE IN SECONDARY BATTERY   |
| <a href="#">WO 2014015139 A1 20140123</a> | ACADEMIA SINICA<br>LIANG CHI MING  | GRAPHENE-CONTAINING ELECTRODES   |
| <a href="#">WO 2014017489 A1 20140130</a> | TOSHIBA KK   | ACTIVE SUBSTANCE FOR CELL, NONAQUEOUS ELECTROLYTE CELL, AND CELL PACK  |
| <a href="#">WO 2014021686 A1 20140206</a> | LG CHEMICAL LTD  | MIXED CATHODE ACTIVE MATERIAL HAVING IMPROVED OUTPUT CHARACTERISTICS AND STABILITY, AND LITHIUM SECONDARY BATTERY INCLUDING SAME   |
| <a href="#">WO 2014021688 A1 20140206</a> | ORANGE POWER LTD   | CATHODE MATERIAL, METHOD FOR MANUFACTURING SAME, AND SECONDARY BATTERY USING CATHODE MATERIAL  |



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| <a href="#">WO 2014021689 A1 20140206</a> | ORANGE POWER LTD  | CATHODE ACTIVE MATERIAL, METHOD FOR MANUFACTURING SAME, AND SECONDARY BATTERY USING CATHODE ACTIVE MATERIAL             |
| <a href="#">WO 2014021691 A1 20140206</a> | ORANGE POWER LTD  | CATHODE MATERIAL, CATHODE ASSEMBLY, SECONDARY BATTERY, AND METHOD FOR MANUFACTURING SAME                                |
| <a href="#">WO 2014022445 A1 20140206</a> | ENERDEL INC   | MODULAR ENERGY STORAGE SYSTEM   |
| <a href="#">WO 2014023374 A2 20140213</a> | AUDI AG   | DIAGNOSTIC APPARATUS FOR CHECKING A CONTROL SIGNAL LINE   |
| <a href="#">WO 2013161982 A1 20131031</a> | MURATA MANUFACTURING CO   | SOLID-STATE BATTERY, AND METHOD FOR PRODUCING SAME  |
| <a href="#">WO 2013183132 A1 20131212</a> | NIHON MICRONICS KK<br>GUALA TECHNOLOGY CORP<br>KUDOH TAKUO<br>HIWADA KIYOYASU<br>NAKAZAWA AKIRA | ELECTRODE STRUCTURE OF SOLID TYPE RECHARGEABLE BATTERY  |
| <a href="#">WO 2013187176 A1 20131219</a> | NEC CORP  | METHOD FOR PRODUCING LITHIUM ION SECONDARY BATTERY, AND LITHIUM ION SECONDARY BATTERY                                   |
| <a href="#">WO 2013187276 A1 20131219</a> | NEC CORP  | SECONDARY BATTERY   |
| <a href="#">WO 2013187277 A1 20131219</a> | NISSAN MOTOR  | GAS DISCHARGE STRUCTURE FOR BATTERY COVER   |
| <a href="#">WO 2013187380 A1 20131219</a> | CENTRAL GLASS CO LTD  | ELECTROLYTE FOR NON-AQUEOUS ELECTROLYTE BATTERY, AND NON-AQUEOUS ELECTROLYTE BATTERY USING SAME                         |
| <a href="#">WO 2013187707 A1 20131219</a> | SK INNOVATION CO LTD  | ANODE FOR LITHIUM SECONDARY BATTERY, METHOD FOR MANUFACTURING SAME, AND LITHIUM SECONDARY BATTERY USING SAME            |
| <a href="#">WO 2013190216 A1 20131227</a> | PEUGEOT CITROEN AUTOMOBILES SA  | MOTOR VEHICLE COMPRISING A SYSTEM FOR RAPID ACCESS TO THE BATTERY IN THE EVENT OF FIRE                                  |
| <a href="#">WO 2014001899 A1 20140103</a> | TOYOTA MOTOR CO LTD<br>NAGAI HIROKI; TAMAKI TAKUMI  | NON-AQUEOUS ELECTROLYTE SECONDARY BATTERY   |
| <a href="#">WO 2014024241 A1 20140213</a> | TOYOTA MOTOR CO LTD; YUASA HIROAKI  | INLET   |
| <a href="#">WO 2014030764 A1 20140227</a> | MITSUI MINING & SMELTING CO   | SPINEL LITHIUM-MANGANESE-NICKEL-CONTAINING COMPOSITE OXIDE  |
| <a href="#">WO 2014032796 A2 20140306</a> | KARLSRUHER INST TECHNOLOGIE   | MULTI-LAYER SEPARATOR FOR AN ELECTROCHEMICAL CELL   |
| <a href="#">WO 2013179068 A2 20131205</a> | NEXEON LTD  | METHOD OF FORMING SILICON   |
| <a href="#">WO 2013180449 A1 20131205</a> | LG CHEMICAL LTD   | ELECTRODE ASSEMBLY, BATTERY CELL, MANUFACTURING METHOD FOR ELECTRODE ASSEMBLY AND MANUFACTURING METHOD FOR BATTERY CELL |
| <a href="#">WO 2013183501 A1 20131212</a> | NISSAN MOTOR  | COOLING-AIR EXHAUST-DUCT STRUCTURE FOR ELECTRIC VEHICLE   |
| <a href="#">WO 2013183511 A1 20131212</a> | DAINIPPON PRINTING CO LTD   | PACKAGING MATERIAL FOR CELL   |
| <a href="#">WO 2013183559 A1 20131212</a> | AUTONETWORKS TECHNOLOGIES LTD<br>SUMITOMO WIRING SYSTEMS<br>SUMITOMO ELECTRIC INDUSTRIES        | WIRING MODULE   |
| <a href="#">WO 2013183655 A1 20131212</a> | NEC CORP  | LITHIUM SECONDARY CELL  |
| <a href="#">WO 2013183889 A1 20131212</a> | SK INNOVATION CO LTD  | BATTERY PACK  |
| <a href="#">WO 2013190610 A1 20131227</a> | HITACHI LTD<br>IWASAWA HIROSHI<br>KAKUYA HIROMU<br>IMAI SHINJI                                  | POWER SUPPLY SYSTEM   |
| <a href="#">WO 2013191013 A1 20131227</a> | TOYOTA JIDOSHOKKI KK  | INTERRUPTION DETECTOR   |
| <a href="#">WO 2014013946 A1 20140123</a> | AUTONETWORKS TECHNOLOGIES LTD<br>SUMITOMO WIRING SYSTEMS<br>SUMITOMO ELECTRIC INDUSTRIES        | BATTERY WIRING MODULE   |

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| <a href="#">WO 2014016907 A1 20140130</a> | TOYOTA MOTOR CO LTD<br>OSE NORIHIRO<br>NAGASE HIROSHI  | ALL-SOLID-STATE BATTERY  |
| <a href="#">WO 2013178379 A1 20131205</a> | BOSCH GMBH ROBERT  | ELECTRONIC MODULE AND METHOD FOR PRODUCING SUCH AN ELECTRONIC MODULE AND ELECTRONIC CONTROL UNIT HAVING SUCH AN ELECTRONIC MODULE  |
| <a href="#">WO 2013183187 A1 20131212</a> | NEC CORP<br>YUGE RYOTA<br>TAMURA NORIYUKI  | NEGATIVE ELECTRODE ACTIVE MATERIAL AND MANUFACTURING PROCESS THEREFOR  |
| <a href="#">WO 2013186209 A2 20131219</a> | JAGUAR LAND ROVER LTD  | A RECHARGEABLE ELECTRIC BATTERY PACK FOR A VEHICLE   |
| <a href="#">WO 2013187061 A1 20131219</a> | JFE CHEMICAL CORP  | METHOD FOR PRODUCING AMORPHOUS CARBON PARTICLES, AMORPHOUS CARBON PARTICLES, NEGATIVE ELECTRODE MATERIAL FOR LITHIUM ION SECONDARY BATTERIES, AND LITHIUM ION SECONDARY BATTERY                            |
| <a href="#">WO 2013188094 A1 20131219</a> | NUCLEUS SCIENT INC   | DYNAMIC PRESSURE CONTROL IN A BATTERY ASSEMBLY   |
| <a href="#">WO 2013189875 A1 20131227</a> | BOSCH GMBH ROBERT<br>SAMSUNG SDI CO LTD  | BATTERY COMPRISING AT LEAST ONE SEMICONDUCTOR-BASED SEPARATING DEVICE  |
| <a href="#">WO 2013190683 A1 20131227</a> | mitsubishi electric corp<br>IGARASHI YUJI<br>TAMADA TAKASHI<br>SAWA YOSHITSUGU<br>SHIRASAWA KAZUSHI<br>MATSUNAGA<br>TAKANORI; KUMAZAWA<br>HIROYUKI | IN-VEHICLE POWER LINE COMMUNICATION SYSTEM   |
| <a href="#">WO 2013190951 A1 20131227</a> | TSUBAKIMOTO CHAIN CO   | POWER CONTROLLER   |
| <a href="#">WO 2013191478 A1 20131227</a> | SK INNOVATION CO LTD   | METHOD FOR WELDING BATTERY MODULE AND WELDED STRUCTURE   |
| <a href="#">WO 2013191480 A1 20131227</a> | SK INNOVATION CO LTD   | METHOD FOR WELDING ELECTRODE TABS  |
| <a href="#">WO 2014002477 A1 20140103</a> | MT CARBON CO LTD   | GRAPHITE MATERIAL FOR NEGATIVE ELECTRODE OF LITHIUM-ION RECHARGEABLE BATTERY, LITHIUM-ION RECHARGEABLE BATTERY USING SAME, AND METHOD FOR PRODUCING GRAPHITE MATERIAL FOR LITHIUM-ION RECHARGEABLE BATTERY |
| <a href="#">WO 2014002532 A1 20140103</a> | mitsubishi motors corp   | SECONDARY CELL   |
| <a href="#">WO 2014002588 A1 20140103</a> | TOYOTA MOTOR CO LTD<br>HARAYAMA TAKASHI  | BATTERY  |
| <a href="#">WO 2014005674 A1 20140109</a> | AUDI NSU AUTO UNION AG   | DIAGNOSTIC DEVICE FOR CHECKING A CONTROL SIGNAL LINE   |
| <a href="#">WO 2014008122 A2 20140109</a> | MAGNA E CAR SYSTEMS OF AMERICA INC   | THERMAL MANAGEMENT OF VEHICLE BATTERY PACK DURING CHARGING   |
| <a href="#">WO 2014013943 A1 20140123</a> | AUTONETWORKS TECHNOLOGIES LTD<br>SUMITOMO WIRING SYSTEMS<br>SUMITOMO ELECTRIC INDUSTRIES   | BATTERY WIRING MODULE  |
| <a href="#">WO 2014018048 A1 20140130</a> | MINARCIN MONIKA<br>ALICIA ALEXANDRIA<br>INT ENGINE<br>INTELLECTUAL PROP<br>CONWAY BRIAN  | BATTERY MANAGEMENT SYSTEM  |
| <a href="#">WO 2014020654 A1 20140206</a> | HITACHI LTD; FUJIEDA<br>TADASHI AOYAGI;<br>TAKUYA; NAITO<br>TAKASHI; KAWAJI JUN;<br>KIMURA NAOKI;<br>TAKAMORI YOSHIYUKI<br>TAKAHASHI SHIN          | ALL-SOLID ION SECONDARY CELL   |
| <a href="#">WO 2013183919 A1 20131212</a> | LG CHEMICAL LTD  | CATHODE MATERIAL FOR SECONDARY BATTERY HAVING IMPROVED LIFETIME CHARACTERISTICS AND PREPARATION METHOD THEREFOR  |

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| <a href="#">WO 2013184887 A1 20131212</a> | JOHNSON CONTROLS TECHNOLOGY LLC  | SYSTEM AND METHODS FOR A CATHODE ACTIVE MATERIAL FOR A LITHIUM ION BATTERY CELL   |
| <a href="#">WO 2014002561 A1 20140103</a> | TOYOTA MOTOR CO LTD  | NON-AQUEOUS ELECTROLYTE SECONDARY BATTERY   |
| <a href="#">WO 2014002611 A1 20140103</a> | TOYOTA MOTOR CO LTD  | NONAQUEOUS ELECTROLYTE SECONDARY BATTERY  |
| <a href="#">WO 2014013850 A1 20140123</a> | TOYOTA MOTOR CO LTD  | LITHIUM SECONDARY CELL AND METHOD FOR MANUFACTURING SAME  |
| <a href="#">WO 2014014203 A1 20140123</a> | SK INNOVATION CO LTD   | BATTERY PACK  |
| <a href="#">WO 2014023896 A2 20140213</a> | RENAULT SA   | METHOD FOR PREPARING PARTIALLY SURFACE-PROTECTED ACTIVE MATERIALS FOR LITHIUM BATTERIES   |
| <a href="#">WO 2013180471 A1 20131205</a> | LG CHEMICAL LTD  | SECONDARY BATTERY AND METHOD FOR MANUFACTURING SAME   |
| <a href="#">WO 2013187559 A1 20131219</a> | NAT UNIV KONGJU IND ACAD COOP  | FLEXIBLE ELECTRODE HAVING MULTIPLE ACTIVE MATERIALS AND HAVING A THREE DIMENSIONAL STRUCTURE, AND FLEXIBLE LITHIUM SECONDARY BATTERY INCLUDING SAME |
| <a href="#">WO 2013190930 A1 20131227</a> | TOYOTA MOTOR CO LTD  | BATTERY SYSTEM, METHOD FOR MANUFACTURING BATTERY SYSTEM, AND BATTERY CONTROL APPARATUS  |
| <a href="#">WO 2014002523 A1 20140103</a> | TOYOTA MOTOR CO LTD<br>SUZUKI SATOSHI<br>NAKAYAMA HIROYUKI<br>OKADA TOSHIYA                      | BATTERY   |
| <a href="#">WO 2014005705 A2 20140109</a> | VOLVO TRUCK CORP   | METHOD FOR CONTROLLING A HYBRID VEHICLE ELECTRICAL SYSTEM   |
| <a href="#">WO 2014017086 A1 20140130</a> | SANYO ELECTRIC CO  | BATTERY-PACK PROCESSING METHOD  |
| <a href="#">WO 2014020729 A1 20140206</a> | TOYOTA MOTOR CO LTDM; TOYOSHIMA IPPEI  | NON-AQUEOUS ELECTROLYTE SOLUTION SECONDARY BATTERY  |
| <a href="#">WO 2013182434 A1 20131212</a> | BOSCH GMBH ROBERT<br>SAMSUNG SDI CO LTD  | METHOD FOR DETERMINING THE INTERNAL OHMIC RESISTANCE OF A BATTERY MODULE, BATTERY MANAGEMENT SYSTEM AND MOTOR VEHICLE                               |
| <a href="#">WO 2014002543 A1 20140103</a> | TOYOTA MOTOR CO LTD<br>HARAYAMA TAKASHI<br>KUSAMA KAZUYUKI                                       | BATTERY   |
| <a href="#">WO 2014002584 A1 20140103</a> | FUJI HEAVY IND LTD<br>NIPPON CHEMICAL IND  | LITHIUM-ION SECONDARY CELL  |
| <a href="#">WO 2014003032 A1 20140103</a> | SHARP KK   | SECONDARY CELL  |
| <a href="#">WO 2014003825 A1 20140103</a> | BATTELLE MEMORIAL INSTITUTE  | HYBRID ANODES FOR ENERGY STORAGE DEVICES  |
| <a href="#">WO 2014009127 A1 20140116</a> | THYSSENKRUPP SYSTEM ENG GMBH   | CONNECTING ELEMENT AND METHOD FOR ELECTRICALLY CONTACTING A CONTACT POLE OF A BATTERY UNIT AND TEST BENCH   |
| <a href="#">WO 2014018015 A1 20140130</a> | EMPIRE TECHNOLOGY DEV LLC<br>HEUMANN MICHAEL C<br>HEUMANN STEPHAN R                              | STOWABLE TRACKING PHOTOVOLTAIC ARRAY  |
| <a href="#">WO 2013190611 A1 20131227</a> | HITACHI VEHICLE ENERGY LTD<br>YOSHIOKA YUJI; KAI<br>TSUYOSHI; KUDO<br>AKIHIKO; UEDA<br>MASAHIRO  | LEAK DETECTING APPARATUS  |
| <a href="#">WO 2014000906 A2 20140103</a> | SIEMENS AG   | AVOIDANCE OF AN OVERLOAD FOR TRANSMISSION LINKS WITHIN A POWER SUPPLY SYSTEM  |
| <a href="#">WO 2014002227 A1 20140103</a> | TOYOTA MOTOR CO LTD<br>INOUE TOSHIHIKO<br>MIYAHISA MASAHARU<br>KONISHI HAJIME<br>TORIYAMA KOICHI | METHOD FOR PRODUCING BATTERY AND BATTERY  |
| <a href="#">WO 2014003485 A1 20140103</a> | LG CHEMICAL LTD  | ELECTRODE ASSEMBLY, METHOD FOR MANUFACTURING ELECTRODE ASSEMBLY, AND ELECTROCHEMICAL DEVICE COMPRISING ELECTRODE ASSEMBLY                           |
| <a href="#">WO 2014005470 A1 20140109</a> | SHENZHEN BYD AUTO R & D CO LTD<br>BYD CO LTD   | POWER SYSTEM OF ELECTRIC VEHICLE, ELECTRIC VEHICLE COMPRISING THE SAME AND METHOD FOR HEATING BATTERY GROUP OF ELECTRIC VEHICLE                     |
| <a href="#">WO 2014007183 A1 20140109</a> | NEC CORP   | LITHIUM ION SECONDARY BATTERY   |

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| <a href="#">WO 2014010872 A1 20140116</a> | SK INNOVATION CO LTD   | SECONDARY BATTERY   |
| <a href="#">WO 2013183945 A1 20131212</a> | LG CHEMICAL LTD  | BATTERY MODULE HAVING STABILITY-IMPROVED STRUCTURE AND HIGH COOLING EFFICIENCY  |
| <a href="#">WO 2014002806 A1 20140103</a> | KYOCERA CORP   | BATTERY TEMPERATURE CONTROL DEVICE AND BATTERY DEVICE   |
| <a href="#">WO 2014002847 A1 20140103</a> | TOYOTA MOTOR CO LTD<br>YODOGAWA HU TECH CO LTD<br>HARAYAMA TAKASHI<br>KUSAMA KAZUYUKI<br>OGAWA KATSUMI;<br>AWAI ISAO; TORII HIROYUKI | BATTERY SEALING MEMBER  |
| <a href="#">WO 2014003373 A1 20140103</a> | SK INNOVATION CO LTD   | BATTERY MODULE FOR SECONDARY BATTERY  |
| <a href="#">WO 2014007018 A1 20140109</a> | HITACHI LTD  | LITHIUM ION SECONDARY BATTERY   |
| <a href="#">WO 2014010908 A1 20140116</a> | SK INNOVATION CO LTD   | SECONDARY BATTERY   |
| <a href="#">WO 2014012249 A1 20140123</a> | UNIV NORTH CHINA ELEC POWER; GUO CHUNLIN; XIAO XIANGNING; LI YANSONG; XU YANHUI; QI WENBO; XI GONGWEI                                | ELECTRIC VEHICLE CHARGE-DISCHARGE SIMULATION SYSTEM AND METHOD THEREOF  |
| <a href="#">WO 2014012625 A1 20140123</a> | LI TEC BATTERY GMBH  | HOUSING ASSEMBLY, SECONDARY BATTERY COMPRISING AT LEAST TWO SECONDARY CELLS AND SAID HOUSING ASSEMBLY, AND METHOD FOR PRODUCING THE HOUSING ASSEMBLY  |
| <a href="#">WO 2014013981 A1 20140123</a> | TOSHIBA KK   | BATTERY PACK  |
| <a href="#">WO 2013179810 A1 20131205</a> | HITACHI LTD  | DEVICE FOR CONTROLLING BATTERY PACK, POWER SOURCE DEVICE, AND METHOD FOR CONTROLLING BATTERY PACK   |
| <a href="#">WO 2014003357 A1 20140103</a> | SK INNOVATION CO LTD   | SECONDARY BATTERY MODULE FOR EASILY GATHERING AND DISCHARGING GAS   |
| <a href="#">WO 2014006760 A1 20140109</a> | FULLTIME SYSTEM CO LTD; HARA SHUHEI  | ELECTRIC VEHICLE CHARGING DEVICE AND ELECTRIC VEHICLE CHARGING SYSTEM   |
| <a href="#">WO 2014007393 A1 20140109</a> | MITSUI MINING & SMELTING CO  | NEGATIVE ELECTRODE ACTIVE MATERIAL FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERIES   |
| <a href="#">WO 2014008278 A1 20140109</a> | BOSCH GMBH ROBERT CHATURVEDI NALIN KLEIN REINHARDT CHRISTENSEN JOHN F AHMED JASIM; KOJIC ALEKSANDAR                                  | SYSTEM AND METHOD FOR FAST CHARGING OF LITHIUM-ION BATTERIES WITH IMPROVED SAFETY   |
| <a href="#">WO 2014008433 A1 20140109</a> | CATALYST POWER TECHNOLOGIES INC ROJESKI RONALD A KLANKOWSKI STEVEN LI JUN  | HYBRID ENERGY STORAGE DEVICES INCLUDING SUPPORT FILAMENTS   |
| <a href="#">WO 2014013808 A1 20140123</a> | NISSAN MOTOR   | CHARGING PORT DEVICE FOR ELECTRIC VEHICLE   |
| <a href="#">WO 2014017529 A1 20140130</a> | YAZAKI CORP  | SHIELD CONNECTOR STRUCTURE  |
| <a href="#">WO 2013183164 A1 20131212</a> | TOYOTA MOTOR CO LTD<br>OKUWAKI SHIGERU<br>AIKAWA HIDEFUMI  | CONTROL DEVICE FOR HYBRID VEHICLE   |
| <a href="#">WO 2013183498 A1 20131212</a> | NISSAN MOTOR   | COOLING-AIR EXHAUST-DUCT STRUCTURE FOR ELECTRIC VEHICLE   |
| <a href="#">WO 2014002647 A1 20140103</a> | TOYOTA JIDOSHOKKI KK   | ACCUMULATOR DEVICE  |
| <a href="#">WO 2014006948 A1 20140109</a> | FUJI HEAVY IND LTD<br>NIPPON CHEMICAL IND  | NONAQUEOUS-SOLVENT TYPE ELECTRICITY STORAGE DEVICE  |
| <a href="#">WO 2014010341 A1 20140116</a> | TOYOTA MOTOR CO LTD  | METHOD FOR MANUFACTURING COATED ACTIVE MATERIAL   |
| <a href="#">WO 2014010448 A1 20140116</a> | SUMITOMO METAL MINING CO   | POSITIVE ELECTRODE ACTIVE SUBSTANCE FOR NONAQUEOUS ELECTROLYTE SECONDARY CELL, METHOD FOR PRODUCING SAME, AND NONAQUEOUS ELECTROLYTE SECONDARY CELL USING POSITIVE ELECTRODE ACTIVE SUBSTANCE |

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| <a href="#">WO 2014010867 A1 20140116</a> | LG CHEMICAL LTD   | ANODE ACTIVE MATERIAL AND LITHIUM SECONDARY BATTERY COMPRISING SAME   |
| <a href="#">WO 2014011059 A1 20140116</a> | AUCKLAND UNISERVICES LTD<br>COVIC GRANT<br>ANTHONY<br>BUDHIA MICKEL BIPIN       | FLUX COUPLING DEVICE AND MAGNETIC STRUCTURES THEREFOR   |
| <a href="#">WO 2013180529 A1 20131205</a> | LG CHEMICAL LTD   | LITHIUM SECONDARY BATTERY   |
| <a href="#">WO 2013183530 A1 20131212</a> | NEC ENERGY DEVICES LTD<br>WAKI IPPEI<br>KONO YASUTAKA<br>OHTA TOMOYUKI          | NEGATIVE ELECTRODE FOR LITHIUM ION SECONDARY CELL, NEGATIVE ELECTRODE SLURRY FOR LITHIUM ION SECONDARY CELL, AND LITHIUM ION SECONDARY CELL   |
| <a href="#">WO 2014002483 A1 20140103</a> | IDEMITSU KOSAN CO<br>KOSHIKA HIROMICHI<br>HIGUCHI HIROYUKI<br>KAMBARA TAKAYOSHI | POSITIVE ELECTRODE MIX  |
| <a href="#">WO 2014002937 A1 20140103</a> | KUREHA CORP   | METHOD FOR PRODUCING RESIN FILM FOR NON-AQUEOUS ELECTROLYTE SECONDARY BATTERY AND RESIN FILM FOR NON-AQUEOUS ELECTROLYTE SECONDARY BATTERY  |
| <a href="#">WO 2014010043 A1 20140116</a> | TOYOTA MOTOR CO LTD; KATO KAZUHITO  | ALL-SOLID-STATE BATTERY, AND PRODUCTION METHOD THEREFOR   |
| <a href="#">WO 2014010854 A1 20140116</a> | LG CHEMICAL LTD   | HIGH VOLTAGE ANODE ACTIVE MATERIAL AND LITHIUM SECONDARY BATTERY INCLUDING SAME   |
| <a href="#">WO 2013176533 A1 20131128</a> | LG CHEMICAL LTD   | STEPPED ELECTRODE ASSEMBLY AND BATTERY CELL, BATTERY PACK, AND DEVICE COMPRISING SAME   |
| <a href="#">WO 2013180841 A1 20131205</a> | TOYOTA ENG & MFG NORTH AMERICA  | BISMUTH-TIN BINARY ANODES FOR RECHARGEABLE MAGNESIUM-ION BATTERIES  |
| <a href="#">WO 2014010169 A1 20140116</a> | IDEMITSU KOSAN CO<br>KAMBARA TAKAYOSHI<br>JUNKE TADANORI<br>ABURATANI RYO       | METHOD FOR PRODUCING ION-CONDUCTIVE SUBSTANCE, ION-CONDUCTIVE SUBSTANCE, CRYSTALLIZED ION-CONDUCTIVE SUBSTANCE, AND CELL  |
| <a href="#">WO 2014010294 A1 20140116</a> | FUJIFILM CORP   | INFORMATION DISTRIBUTION METHOD, INFORMATION DISTRIBUTION PROGRAM, INFORMATION DISTRIBUTION SERVER, AND CHARGING DEVICE   |
| <a href="#">WO 2014010439 A1 20140116</a> | SANYO ELECTRIC CO   | BATTERY SYSTEM, VEHICLE PROVIDED WITH BATTERY SYSTEM, AND STORAGE DEVICE  |
| <a href="#">WO 2014010856 A1 20140116</a> | LG CHEMICAL LTD   | ANODE ACTIVE MATERIAL FOR HIGH VOLTAGE AND METHOD FOR MANUFACTURING SAME  |
| <a href="#">WO 2014010862 A1 20140116</a> | LG CHEMICAL LTD   | PRECURSOR FOR PREPARING LITHIUM COMPOSITE TRANSITION METAL OXIDE, METHOD FOR PREPARING SAME, AND LITHIUM COMPOSITE TRANSITION METAL OXIDE   |
| <a href="#">WO 2013192513 A2 20131227</a> | MOLECULAR REBAR DESIGN LLC  | BINDERS, ELECTROLYTES AND SEPARATOR FILMS FOR ENERGY STORAGE AND COLLECTION DEVICES USING DISCRETE CARBON NANOTUBES   |
| <a href="#">WO 2014003382 A1 20140103</a> | SK INNOVATION CO LTD  | BATTERY PACK  |
| <a href="#">WO 2014007161 A1 20140109</a> | TORAY INDUSTRIES  | NEGATIVE ELECTRODE MATERIAL FOR LITHIUM ION SECONDARY BATTERIES, COMPOSITE NEGATIVE ELECTRODE MATERIAL FOR LITHIUM ION SECONDARY BATTERIES, RESIN COMPOSITION FOR NEGATIVE ELECTRODES OF LITHIUM ION SECONDARY BATTERIES, NEGATIVE ELECTRODE FOR LITHIUM ION SECONDARY BATTERIES, AND LITHIUM ION SECONDARY BATTERY |
| <a href="#">WO 2014010042 A1 20140116</a> | TOYOTA MOTOR CO LTD; KATO KAZUHITO  | PRODUCTION METHOD FOR ALL-SOLID-STATE BATTERY   |
| <a href="#">WO 2014010842 A1 20140116</a> | LG CHEMICAL LTD   | BATTERY MODULE INCLUDING INDIRECT AIR COOLING STRUCTURE   |
| <a href="#">WO 2013183079 A1 20131212</a> | EMPIRE TECHNOLOGY DEV LLC<br>IWAMOTO TAKASHI                                    | BATTERY ASSEMBLY, UNIT CELL AND CUT-OFF DEVICE  |
| <a href="#">WO 2014010252 A1 20140116</a> | PANASONIC CORP  | BATTERY HEATING APPARATUS   |
| <a href="#">WO 2014010437 A1 20140116</a> | SANYO ELECTRIC CO   | POWER SOURCE DEVICE AND VEHICLE PROVIDED WITH SAID POWER SOURCE DEVICE  |
| <a href="#">WO 2013180522 A1 20131205</a> | LG CHEMICAL LTD   | LITHIUM SECONDARY BATTERY   |
| <a href="#">WO 2014007510 A1 20140109</a> | SK INNOVATION CO LTD  | BATTERY PACK  |
| <a href="#">WO 2014010730 A1 20140116</a> | MITSUI MINING & SMELTING CO   | LITHIUM METAL COMPLEX OXIDE   |

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| <a href="#">WO 2014010849 A1 20140116</a> | LG CHEMICAL LTD  | PRECURSOR FOR PREPARING LITHIUM COMPOSITE TRANSITION METAL OXIDE   |
| <a href="#">WO 2014002857 A1 20140103</a> | MURATA MANUFACTURING CO  | ALL-SOLID-STATE BATTERY  |
| <a href="#">WO 2014008741 A1 20140116</a> | BEIQI FOTON MOTOR CO LTD; BEIJING ZHI KE INVEST AND MAN CO LTD | ELECTRIC VEHICLE AND POWER SUPPLY MANAGEMENT DEVICE THEREOF        |
| <a href="#">WO 2014009951 A1 20140116</a> | PHINERGY LTD   | SYSTEM AND METHOD FOR CONTROLLING OPERATION OF A METAL-AIR BATTERY |

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## SUPERCONDENSADORES

| Nº PUBLICACIÓN                            | SOLICITANTE   | CONTENIDO TÉCNICO   |
|---|---|---|
| <a href="#">WO 2014034859 A1 20140306</a> | KUREHA CORP<br>KURARAY CO<br>KURARAY CHEMICAL<br>KK       | CARBONACEOUS MATERIAL FOR NEGATIVE ELECTRODES OF LITHIUM ION CAPACITORS AND METHOD FOR PRODUCING SAME |
| <a href="#">WO 2014040814 A2 20140320</a> | VOLKSWAGEN AG   | DEVICE, VEHICLE, METHOD AND COMPUTER PROGRAM FOR DEACTIVATING HIGH-VOLTAGE COMPONENTS OF A VEHICLE    |
| <a href="#">WO 2013182212 A1 20131212</a> | VOLVO LASTVAGNAR<br>AB<br>HOEVENAARS ERIK<br>ALAKULA MATS | AN ELECTRICAL APPARATUS AND METHOD FOR POWERING AN ELECTRICAL MACHINE                                 |
| <a href="#">WO 2014006396 A2 20140109</a> | IMP INNOVATIONS LTD                                       | A PARALLEL DRIVE TRAIN FOR A HYBRID ELECTRIC VEHICLE AND A METHOD OF OPERATING SUCH A DRIVE TRAIN     |
| <a href="#">WO 2013183496 A1 20131212</a> | SUMITOMO HEAVY<br>INDUSTRIES                              | WORKING MACHINE AND METHOD FOR CONTROLLING SAME   |

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## SISTEMAS DE RECUPERACIÓN DE ENERGÍA; FRENOS REGENERATIVOS

| Nº PUBLICACIÓN                            | SOLICITANTE  | CONTENIDO TÉCNICO  |
|---|--|--|
| <a href="#">WO 2014033529 A2 20140306</a> | TOYOTA MOTOR CO LTD<br>FUJI HEAVY IND LTD<br>YAMAMOTO MASAYA<br>SETA ITARU   | ELECTRIC VEHICLE AND CONTROL METHOD  |
| <a href="#">WO 2014041978 A1 20140320</a> | HINO MOTORS LTD  | VEHICLE, GENERATOR SYSTEM, AND GENERATION METHOD   |
| <a href="#">WO 2014039992 A1 20140313</a> | JOHNSON CONTROLS<br>TECH CO  | VARIABLE LIGHT INDICATOR   |
| <a href="#">WO 2014034678 A1 20140306</a> | ADVICS CO LTD<br>TOYOTA MOTOR CO LTD   | VEHICLE BRAKING DEVICE   |
| <a href="#">WO 2014034333 A1 20140306</a> | HITACHI AUTOMOTIVE<br>SYSTEMS LTD  | ELECTRIC VEHICLE DRIVE SYSTEM  |
| <a href="#">WO 2014036203 A1 20140306</a> | BAE SYS CONTROLS INC   | RECUPERATIVE TRANSMISSION DOWN SHIFTING<br>MULTIPLE GEARS AND ENGINE DECOUPLING  |
| <a href="#">WO 2014025069 A1 20140213</a> | DENSO CORP<br>SUZUKI MOTOR CORP  | POWER SYSTEM FOR A VEHICLE   |
| <a href="#">WO 2014029548 A1 20140227</a> | BOSCH GMBH ROBERT  | CONTROL DEVICE FOR A REGENERATIVE BRAKE<br>SYSTEM OF A VEHICLE, AND METHOD FOR OPERATING A<br>REGENERATIVE BRAKE SYSTEM OF A VEHICLE   |
| <a href="#">WO 2014032839 A1 20140306</a> | BOSCH GMBH ROBERT  | BRAKE CONTROL DEVICE FOR A VEHICLE, AND A<br>METHOD FOR OPERATING AT LEAST ONE ELECTRIC<br>DRIVE MOTOR FOR A VEHICLE                   |
| <a href="#">WO 2014024285 A1 20140213</a> | mitsubishi electric<br>corp<br>YAMASHITA YOSHINORI<br>KATO SHO<br>YAMASAKI HISANORI<br>YOKOZUTSUMI RYO<br>OKADA YURUKI | CONTROL DEVICE FOR ELECTRIC CAR  |
| <a href="#">WO 2013186026 A2 20131219</a> | MAGNA POWERTRAIN<br>AG & CO KG   | METHOD FOR INCREASING RECOVERY RATE  |
| <a href="#">WO 2014016646 A1 20140130</a> | ARISTIZABAL<br>ARISTIZABAL LUIS<br>ALBERTO<br>ARISTIZABAL NAVARRO<br>JORGE AUGUSTO                                     | REGENERATIVE BRAKING AND TRANSMISSION SYSTEM   |
| <a href="#">WO 2014013991 A1 20140123</a> | HONDA MOTOR CO LTD   | VEHICLE BRAKE FORCE GENERATION DEVICE  |
| <a href="#">WO 2014003656 A1 20140103</a> | SCANIA CV AB   | A METHOD FOR BRAKING A VEHICLE   |
| <a href="#">WO 2014003671 A1 20140103</a> | SCANIA CV AB   | A METHOD FOR BRAKING A VEHICLE   |
| <a href="#">WO 2014013622 A1 20140123</a> | mitsubishi electric<br>corp<br>OKADA YURUKI<br>WADA YASUHIKO<br>YAMASAKI HISANORI<br>HATANAKA KEITA                    | HYBRID VEHICLE CONTROL DEVICE  |
| <a href="#">WO 2014006157 A1 20140109</a> | ALSTOM TRANSPORT SA  | ASSEMBLY FOR PULLING A RAIL VEHICLE  |
| <a href="#">WO 2014013597 A1 20140123</a> | mitsubishi electric<br>corp<br>HATANAKA KEITA  | DEVICE AND METHOD FOR CONTROLLING PROPULSION<br>OF ELECTRIC VEHICLE  |
| <a href="#">WO 2013183764 A1 20131212</a> | CLARION CO LTD<br>NISSAN MOTOR   | ENERGY ESTIMATION DEVICE, VEHICLE INFORMATION<br>SYSTEM, SERVER DEVICE   |
| <a href="#">WO 2013186158 A2 20131219</a> | SIEMENS AG   | WHEEL DRIVE UNIT FOR A WHEEL OF AN ELECTRICALLY<br>DRIVEN VEHICLE, VEHICLE AND METHOD FOR<br>OPERATING A WHEEL DRIVE UNIT OF A VEHICLE |

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## MÁQUINAS ELÉCTRICAS

| Nº PUBLICACIÓN                            | SOLICITANTE  | CONTENIDO TÉCNICO  |
|---|--|--|
| <a href="#">WO 2014026250 A1 20140220</a> | SPINERGY PTY LTD   | INLINE POWER GENERATOR   |
| <a href="#">WO 2014033522 A2 20140306</a> | TOYOTA MOTOR CO LTD<br>FUJI HEAVY IND LTD; ENDO<br>HIROKI; SETA ITARU                            | POWER MANAGEMENT DEVICE AND POWER<br>MANAGEMENT METHOD   |
| <a href="#">WO 2014033397 A1 20140306</a> | RENAULT SA   | DEVICE FOR DETECTING AND MEASURING AN<br>INSULATION FAULT  |
| <a href="#">WO 2014026986 A1 20140220</a> | JAGUAR LAND ROVER LTD  | SPEED CONTROL SYSTEM AND METHOD FOR<br>OPERATING THE SAME  |
| <a href="#">WO 2014027437 A1 20140220</a> | TOSHIBA KK   | TRAIN-CAR CONTROL DEVICE, TRAIN-CAR CONTROL<br>METHOD, AND HYBRID TRAIN CAR                                  |
| <a href="#">WO 2014041992 A1 20140320</a> | AISIN SEIKI  | HYBRID DRIVE DEVICE  |
| <a href="#">WO 2014047056 A1 20140327</a> | REMY TECHNOLOGIES LLC  | MOTOR COOLING SYSTEM WITH POTTED END TURNS   |
| <a href="#">WO 2014034198 A1 20140306</a> | TOYOTA JIDOSHOKKI KK   | FOUR-WHEEL DRIVE DEVICE  |
| <a href="#">WO 2014041313 A1 20140320</a> | VALEO EQUIP ELECTR<br>MOTEUR   | SINGLE-TOOTH STATOR FOR A ROTATING ELECTRIC<br>MACHINE AND CORRESPONDING ROTATING<br>ELECTRIC MACHINE        |
| <a href="#">WO 2014016476 A1 20140130</a> | LIBAULT DAVID  | AXIAL-FLOW ELECTRIC MOTOR  |
| <a href="#">WO 2014034343 A1 20140306</a> | HITACHI AUTOMOTIVE<br>SYSTEMS LTD  | ROTATING ELECTRIC MACHINE AND METHOD FOR<br>MANUFACTURING SAME   |
| <a href="#">WO 2014040687 A2 20140320</a> | AUDI AG  | DRIVE DEVICE FOR A MOTOR VEHICLE   |
| <a href="#">WO 2014041423 A1 20140320</a> | TOYOTA MOTOR CO LTD<br>NAKANISHI NAOKI<br>MATSUTANI SHINTARO                                     | VEHICLE AND CONTROL METHOD   |
| <a href="#">WO 2014013408 A2 20140123</a> | BANGURA JOHN<br>MOKLEGAARD LASSE<br>SARAN AMITABH  | A DUAL-STRUCTURED ELECTRIC DRIVE AND POWER<br>SYSTEM FOR HYBRID VEHICLES                                     |
| <a href="#">WO 2014016679 A1 20140130</a> | TOYOTA MOTOR CO LTD<br>MIYAMOTO TOMOHIKO<br>IKEMOTO MASAYUKI<br>KURAMOTO MAMORU<br>YAGI NORIYUKI | CONTROL DEVICE AND CONTROL METHOD FOR<br>HYBRID VEHICLE POWER UNIT   |
| <a href="#">WO 2014023302 A1 20140213</a> | SCHAEFFLER<br>TECHNOLOGIES AG  | ELECTROMECHANICAL INDEPENDENT WHEEL DRIVE<br>DEVICE  |
| <a href="#">WO 2014040689 A1 20140320</a> | AUDI AG  | DRIVE ARRANGMENT FOR A MOTOR VEHICLE   |
| <a href="#">WO 2014030547 A1 20140227</a> | NISSAN MOTOR   | ROTOR STRUCTURE AND ROTOR MANUFACTURING<br>METHOD FOR PERMANENT MAGNET TYPE ROTATING<br>ELECTRICAL MACHINE   |
| <a href="#">WO 2014038062 A1 20140313</a> | MINITUBISHI ELECTRIC CORP<br>KAYANO SHINSUKE; INOUE<br>MASAYA; NISHIMURA SHINJI                  | INTERIOR PERMANENT MAGNET MOTOR  |
| <a href="#">WO 2014038262 A1 20140313</a> | TOYOTA JIDOSHOKKI KK   | VEHICLE DRIVE MECHANISM  |
| <a href="#">WO 2014038290 A1 20140313</a> | NISSAN MOTOR   | MOTOR DRIVE UNIT   |
| <a href="#">WO 2014038350 A1 20140313</a> | NISSAN MOTOR   | METHOD FOR CONTROLLING AND DEVICE FOR<br>CONTROLLING HYBRID VEHICLE  |
| <a href="#">WO 2014038591 A1 20140313</a> | AISIN AW CO  | VEHICLE DRIVE DEVICE CONTROL DEVICE  |
| <a href="#">WO 2014041277 A1 20140320</a> | VALEO EQUIP ELECTR<br>MOTEUR   | MIXED COIL INSULATOR MADE FROM TWO PARTS<br>AND CORRESPONDING ELEMENT OF AN ELECTRICAL<br>MACHINE            |
| <a href="#">WO 2014024222 A1 20140213</a> | JFE STEEL CORP<br>TODA HIROAKI<br>NAKANISHI TADASHI<br>KOHNO MASAOKI<br>ODA YOSHIHIKO            | HIGH-STRENGTH ELECTROMAGNETIC STEEL SHEET<br>AND METHOD FOR PRODUCING SAME                                   |
| <a href="#">WO 2014025048 A1 20140213</a> | AISIN AW CO  | HYBRID DRIVE DEVICE  |
| <a href="#">WO 2014037594 A1 20140313</a> | MICROELECTRONICA<br>MASER S L  | DRIVE MOTOR BUILT INTO THE STUB AXLE OF A<br>MOTOR VEHICLE   |
| <a href="#">WO 2014016728 A2 20140130</a> | BANGURA JOHN<br>MOKLEGAARD LASSE<br>SARAN AMITABH  | INDUCTION MOTOR-PERMANENT MAGNET<br>GENERATOR TANDEM CONFIGURATION STARTER-<br>GENERATOR FOR HYBRID VEHICLES |
| <a href="#">WO 2014029554 A2 20140227</a> | BOSCH GMBH ROBERT  | ROTOR FOR AN ELECTRIC MACHINE  |

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| <a href="#">WO 2014038315 A1 20140313</a> | MITSUBISHI HEAVY IND<br>AUTOMOTIVE THERMAL<br>SYSTEMS CO LTD   | INVERTER-INTEGRATED ELECTRIC COMPRESSOR   |
| <a href="#">WO 2014039954 A1 20140313</a> | REMY TECHNOLOGIES LLC  | VARIABLE RELUCTANCE RESOLVER HAVING<br>INTEGRAL ELECTROMAGNETIC INTERFERENCE<br>SHIELD AND ROTARY ELECTRIC MACHINE HAVING<br>SAME   |
| <a href="#">WO 2014003730 A1 20140103</a> | NISSAN MOTOR<br>WINSCONSIN ALUMNI RES<br>FOUNDATION<br>KATO TAKASHI<br>LORENZ ROBERT<br>LIMSUWAN NATEE   | VARIABLE MAGNETIC FLUX-TYPE ROTARY ELECTRIC<br>MACHINE  |
| <a href="#">WO 2014025928 A2 20140213</a> | AC PROPULSION INC  | LIQUID COOLED ELECTRIC MOTOR  |
| <a href="#">WO 2014026874 A2 20140220</a> | VOLKSWAGEN AG  | UNIT AND CASING WITH A COOLING JACKET   |
| <a href="#">WO 2014037471 A2 20140313</a> | JAGUAR LAND ROVER LTD  | VEHICLE RECOVERY SYSTEM   |
| <a href="#">WO 2013189602 A1 20131227</a> | VOLVO TRUCK CORP   | A METHOD OF MANUFACTURING A LAMINATED<br>WINDING AND A LAMINATED WINDING  |
| <a href="#">WO 2014016100 A2 20140130</a> | BOSCH GMBH ROBERT  | ROTOR ARRANGEMENT FOR AN ELECTRICAL<br>MACHINE AND BEARING OF SAID ROTOR<br>ARRANGEMENT   |
| <a href="#">WO 2014021913 A1 20140206</a> | CONVERGENT POWER INC<br>MURRAY JAMES F; BRAUER<br>ERIK J   | MULTI-POLE SWITCHED RELUCTANCE D.C. MOTOR<br>WITH FIXED AIR GAP AND RECOVERY OF INDUCTIVE<br>FIELD ENERGY   |
| <a href="#">WO 2013190514 A1 20131227</a> | BRUSA ELEKTRONIK AG  | STATOR  |
| <a href="#">WO 2014005374 A1 20140109</a> | DAI JIE  | HIGH-POWER DRIVE CONTROL UNIBODY WHEEL HUB<br>MOTOR   |
| <a href="#">WO 2014011763 A1 20140116</a> | REMY TECHNOLOGIES LLC  | SEGMENTED ELECTRIC MACHINE CORE SECURED<br>WITH BELT AND METHOD OF MANUFACTURE  |
| <a href="#">WO 2014021012 A1 20140206</a> | HITACHI AUTOMOTIVE<br>SYSTEMS LTD  | MOTOR CONTROL DEVICE  |
| <a href="#">WO 2014016482 A1 20140130</a> | RENAULT SA   | SYSTEM AND METHOD FOR CONTROLLING THE<br>TORQUE OF A TRACTION ENGINE OF A MOTOR<br>VEHICLE ON THE BASIS OF THE ROTATIONAL<br>VELOCITY AND THE DEPRESSION OF THE<br>ACCELERATION PEDAL |
| <a href="#">WO 2014017125 A1 20140130</a> | AISIN AW CO<br>TOYOTA MOTOR CO LTD<br>KURASHIGE DAICHI<br>HASHIMOTO SHINGO<br>TANAKA HIROYUKI<br>OTA TAKANORI<br>NAKAGAWA OSAMU<br>MATSUO DAISUKE<br>KAWAURA HIROTAKA<br>SUGIURA HIROHARU; AKAO<br>NORIIHIKO | DEVICE AND METHOD FOR FORMING COIL END  |
| <a href="#">WO 2014020813 A1 20140206</a> | NISSAN MOTOR   | DRIVE CONTROL DEVICE FOR VEHICLE  |
| <a href="#">WO 2014021233 A1 20140206</a> | AISIN SEIKI ;AISIN AW CO   | HYBRID DRIVE DEVICE   |
| <a href="#">WO 2014006294 A1 20140109</a> | VALEO EQUIP ELECTR<br>MOTEUR   | ROTATING ELECTRIC MACHINE WITH COMPENSATION<br>OF ARMATURE MAGNETIC FEEDBACK  |
| <a href="#">WO 2014018720 A1 20140130</a> | REMY TECHNOLOGIES LLC  | PERMANENT MAGNET ROTOR WITH RESIN-COVERED<br>MAGNET AND LAMINATOR FOR THERMAL CONTROL   |
| <a href="#">WO 2014013830 A1 20140123</a> | HITACHI AUTOMOTIVE<br>SYSTEMS LTD  | ROTARY ELECTRIC MACHINE AND ELECTRIC VEHICLE  |
| <a href="#">WO 2013183630 A1 20131212</a> | MITSUBISHI ELECTRIC CORP   | STATOR FOR ROTATING ELECTRIC MACHINE AND<br>METHOD FOR MANUFACTURING STATOR FOR<br>ROTATING ELECTRIC MACHINE  |
| <a href="#">WO 2014002983 A1 20140103</a> | HITACHI METALS LTD   | METHOD FOR PRODUCING RARE EARTH SINTERED<br>MAGNETS   |
| <a href="#">WO 2014003662 A1 20140103</a> | SCANIA CV AB   | DRIVE SYSTEM AND METHOD OF DRIVING A VEHICLE  |
| <a href="#">WO 2014011804 A1 20140116</a> | REMY TECHNOLOGIES LLC  | INTEGRATED PHASE CONNECTION ISOLATOR WITH<br>INDIVIDUAL PHASE ISOLATOR  |
| <a href="#">WO 2014013910 A1 20140123</a> | SUMITOMO SHI CONSTR<br>MACH CO   | EXCAVATOR   |
| <a href="#">WO 2014008897 A1 20140116</a> | SCHAEFFLER<br>TECHNOLOGIES AG  | MOUNTING CONCEPT FOR AN ELECTRIC AXLE   |

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| <a href="#">WO 2014020992 A1 20140206</a> | HONDA MOTOR CO LTD  | MOTIVE POWER DEVICE   |
| <a href="#">WO 2014021234 A1 20140206</a> | AISIN SEIKI   | HYBRID DRIVE DEVICE   |
| <a href="#">WO 2014023542 A1 20140213</a> | BOSCH GMBH ROBERT<br>SAMSUNG SDI CO LTD   | FORMING APPARATUS AND METHOD FOR FORMING BATTERY CELLS OF A BATTERY   |
| <a href="#">WO 2013189812 A1 20131227</a> | BAYERISCHE MOTOREN<br>WERKE AG  | VEHICLE STABILIZATION FOR A HYBRID VEHICLE IN THE EVENT OF BRAKE SLIP OF THE DRIVE WHEELS OR INCREASED RISK THEREOF |
| <a href="#">WO 2014002724 A1 20140103</a> | TOYOTA AUTO BODY CO<br>LTD<br>UNO KOUSUKE; SUGAI<br>MASARU  | MOTOR CONTROL DEVICE  |
| <a href="#">WO 2014003669 A1 20140103</a> | SCANIA CV AB  | DRIVE SYSTEM AND METHOD OF DRIVING A VEHICLE  |
| <a href="#">WO 2014008896 A1 20140116</a> | SCHAEFFLER<br>TECHNOLOGIES AG   | ELECTRIC AXLE WITH A TWO GEAR TRANSMISSION  |
| <a href="#">WO 2014010418 A1 20140116</a> | NISSAN MOTOR  | METHOD FOR MANUFACTURING SINTERED MAGNET  |
| <a href="#">WO 2014011783 A1 20140116</a> | REMY TECHNOLOGIES LLC   | INTERLOCKING COIL ISOLATORS FOR RESIN RETENTION IN A SEGMENTED STATOR ASSEMBLY                                      |
| <a href="#">WO 2014002986 A1 20140103</a> | HITACHI METALS LTD  | PRODUCTION METHOD AND MOLD FOR RARE EARTH SINTERED MAGNET   |
| <a href="#">WO 2013190999 A1 20131227</a> | TOYOTA JIDOSHOKKI KK  | ROTATING ELECTRICAL MACHINE   |
| <a href="#">WO 2014007940 A1 20140109</a> | GEN ELECTRIC  | SYSTEM AND METHOD FOR POWERING A HYDRAULIC PUMP   |
| <a href="#">WO 2014010061 A1 20140116</a> | MITSUBISHI ELECTRIC CORP<br>SAITO SHOJI<br>TSUNODA YOSHIKAZU<br>HUSSEIN KHALID HASSAN<br>ARAKI SHINTARO | CONTROL BOARD FOR ON-BOARD MOTOR DRIVE  |
| <a href="#">WO 2014005910 A2 20140109</a> | BOSCH GMBH ROBERT   | ELECTRIC MACHINE HAVING A STATOR BLADE STACK PROVIDED WITH VORTEX GENERATORS FOR AN INTEGRATED COOLING ARRANGEMENT  |
| <a href="#">WO 2013179438 A1 20131205</a> | NIPPON STEEL & SUMITOMO<br>METAL; WAKISAKA TAKEAKI  | NONORIENTED ELECTROMAGNETIC STEEL SHEET   |
| <a href="#">WO 2013183482 A1 20131212</a> | NTN TOYO BEARING CO LTD   | SPEED-CHANGE CONTROL METHOD FOR ELECTRIC VEHICLE, AND SPEED-CHANGE CONTROL APPARATUS                                |
| <a href="#">WO 2014010484 A1 20140116</a> | UNIV NAGASAKI   | ELECTRIC MOTOR  |
| <a href="#">WO 2014011728 A2 20140116</a> | MAGNA E CAR SYSTEMS OF<br>AMERICA INC   | THERMAL MANAGEMENT OF ELECTRIC VEHICLE BATTERY PACK IN THE EVENT OF FAILURE OF BATTERY PACK HEATER                  |

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## CONVERTIDORES, INVERSORES

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| <a href="#">WO 2014041892 A1 20140320</a> | HITACHI AUTOMOTIVE SYSTEMS LTD   | POWER CONVERSION APPARATUS  |
| <a href="#">WO 2014041652 A1 20140320</a> | FUJI ELECTRIC CO LTD<br>LU HONGFEI   | SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING SEMICONDUCTOR DEVICE                                |
| <a href="#">WO 2014041722 A1 20140320</a> | CALSONIC KANSEI CORP   | SEMICONDUCTOR DEVICE  |
| <a href="#">WO 2014034332 A1 20140306</a> | HITACHI AUTOMOTIVE SYSTEMS LTD   | POWER SEMICONDUCTOR MODULE AND POWER SEMICONDUCTOR MODULE PRODUCING METHOD                            |
| <a href="#">WO 2014036042 A1 20140306</a> | PRODIC ALEKSANDAR<br>SHOUSH MAHMOUD<br>MARTEN VICTOR<br>MILIOS IOANNIS                       | ASSISTING CONVERTER   |
| <a href="#">WO 2014034323 A1 20140306</a> | HITACHI LTD  | ELECTRICAL CIRCUIT DEVICE AND METHOD FOR PRODUCING ELECTRICAL CIRCUIT DEVICE                          |
| <a href="#">WO 2014035260 A1 20140306</a> | AUCKLAND<br>UNISERVICES LTD<br>MADAWALA UDAYA<br>KUMARA<br>THRIMAWITHANA<br>DULEEPA JAYANATH | A POLYPHASE INDUCTIVE POWER TRANSFER SYSTEM WITH INDIVIDUAL CONTROL OF PHASES                         |
| <a href="#">WO 2014032156 A1 20140306</a> | BOMBARDIER TRANSP<br>GMBH<br>WU DI; WORONOWICZ<br>KONRAD                                     | ADAPTIVE SOFT SWITCHING CONTROL FOR POWER CONVERTER   |
| <a href="#">WO 2014034321 A1 20140306</a> | HITACHI AUTOMOTIVE SYSTEMS LTD   | POWER SEMICONDUCTOR MODULE  |
| <a href="#">WO 2014036013 A2 20140306</a> | AEROVIRONMENT INC  | PORTABLE ELECTRIC VEHICLE SUPPLY EQUIPMENT  |
| <a href="#">WO 2014024361 A1 20140213</a> | FUJI ELECTRIC CO LTD   | COOLING STRUCTURE AND POWER CONVERSION DEVICE   |
| <a href="#">WO 2014037143 A1 20140313</a> | BOSCH GMBH ROBERT  | OPERATING STATE CIRCUIT FOR AN INVERTER AND METHOD FOR SETTING OPERATING STATES OF AN INVERTER        |
| <a href="#">WO 2014040971 A2 20140320</a> | BAYERISCHE<br>MOTOREN WERKE AG   | CURRENT ZERO CROSSING IN AN INVERTER  |
| <a href="#">WO 2014024243 A1 20140213</a> | MITSUBISHI ELECTRIC<br>CORP<br>NISHIKAWA KATSUYA   | POWER CONVERSION DEVICE   |
| <a href="#">WO 2014024622 A1 20140213</a> | HITACHI AUTOMOTIVE SYSTEMS LTD   | POWER MODULE  |
| <a href="#">WO 2014030445 A1 20140227</a> | NISSAN MOTOR   | INTEGRATED HIGH-CURRENT UNIT INSTALLED IN ELECTRIC VEHICLE  |
| <a href="#">WO 2014030458 A1 20140227</a> | HITACHI AUTOMOTIVE SYSTEMS LTD   | POWER SEMICONDUCTOR MODULE  |
| <a href="#">WO 2014033852 A1 20140306</a> | MITSUBISHI ELECTRIC<br>CORP<br>FUJII YOSHIYUKI<br>KODAMA KATSUHISA                           | IN-VEHICLE POWER CONVERSION APPARATUS   |
| <a href="#">WO 2014034331 A1 20140306</a> | HITACHI AUTOMOTIVE SYSTEMS LTD   | POWER CONVERSION APPARATUS  |
| <a href="#">WO 2014030499 A1 20140227</a> | HITACHI AUTOMOTIVE SYSTEMS LTD   | DC-DC CONVERTER APPARATUS, AND ELECTRIC POWER CONVERSION APPARATUS                                    |
| <a href="#">WO 2014038299 A1 20140313</a> | HITACHI AUTOMOTIVE SYSTEMS LTD   | POWER SEMICONDUCTOR MODULE  |
| <a href="#">WO 2014017253 A1 20140130</a> | HITACHI AUTOMOTIVE SYSTEMS LTD   | POWER SUPPLY APPARATUS  |
| <a href="#">WO 2014038179 A1 20140313</a> | PANASONIC CORP   | COOLING DEVICE, ELECTRIC AUTOMOBILE EQUIPPED WITH SAID COOLING DEVICE, AND ELECTRONIC DEVICE          |
| <a href="#">WO 2013186996 A1 20131219</a> | PANASONIC CORP   | ELECTRIC POWER CONVERSION DEVICE  |
| <a href="#">WO 2014016085 A2 20140130</a> | CONTI TEMIC<br>MICROELECTRONIC   | COOLING DEVICE AND METHOD FOR PRODUCING A COOLING DEVICE AND CIRCUIT ASSEMBLY HAVING A COOLING DEVICE |
| <a href="#">WO 2014021035 A1 20140206</a> | HITACHI AUTOMOTIVE SYSTEMS LTD   | DC-DC CONVERTER   |

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| <a href="#">WO 2013182341 A2 20131212</a> | BOSCH GMBH ROBERT   | METHOD AND DEVICE FOR DRIVING A MOTOR VEHICLE WITH AT LEAST TWO DRIVING AXLES |
| <a href="#">WO 2013189641 A2 20131227</a> | BOSCH GMBH ROBERT   | METHOD AND DEVICE FOR ACTUATING AN INVERTER                                   |
| <a href="#">WO 2014020806 A1 20140206</a> | FUJI ELECTRIC CO LTD  | COOLING STRUCTURE AND POWER CONVERTER   |
| <a href="#">WO 2013183677 A1 20131212</a> | ROHM CO LTD   | SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING SAME                        |
| <a href="#">WO 2014017373 A1 20140130</a> | AISIN AW CO   | VEHICLE DRIVE DEVICE  |
| <a href="#">WO 2014021112 A1 20140206</a> | AISIN AW CO   | SWITCHING ELEMENT UNIT  |
| <a href="#">WO 2013179547 A1 20131205</a> | PANASONIC CORP  | POWER SEMICONDUCTOR DEVICE  |
| <a href="#">WO 2013179612 A1 20131205</a> | PANASONIC CORP  | METALLIZED FILM CAPACITOR   |
| <a href="#">WO 2013189635 A2 20131227</a> | BOSCH GMBH ROBERT   | METHOD AND DEVICE FOR CONTROLLING AN INVERTER                                 |
| <a href="#">WO 2014033026 A2 20140306</a> | SIEMENS AG  | DRIVE METHOD WITH SHIFTING OF THE SWITCHING FREQUENCY AND DRIVE DEVICE        |
| <a href="#">WO 2014002260 A1 20140103</a> | MITSUBISHI ELECTRIC CORP<br>SUGAHARA TETSUO<br>UEMURA TAKUMI                    | METHOD FOR CONTROLLING AC ELECTRIC VEHICLE                                    |
| <a href="#">WO 2014010028 A1 20140116</a> | TOYOTA MOTOR CO LTD<br>OKAMURA MASAKI<br>TAKAMATSU<br>NAOYOSHI<br>HIRANO KOSUKE | BOOST CONVERTER CONTROL DEVICE  |
| <a href="#">WO 2014024541 A1 20140213</a> | MITSUBISHI HEAVY IND<br>AUTOMOTIVE<br>THERMAL SYSTEMS<br>CO LTD                 | INVERTER-INTEGRATED ELECTRICALLY DRIVEN COMPRESSOR                            |
| <a href="#">WO 2014010218 A1 20140116</a> | PANASONIC CORP  | INVERTER AND METHOD FOR OPERATING INVERTER                                    |

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## RECARGA DE BATERÍAS

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| <a href="#">WO 2014023595 A2 20140213</a> | BAYERISCHE MOTOREN WERKE AG   | DEVICE AND METHOD FOR POSITIONING BY MEANS OF TRIANGULATION   |
| <a href="#">WO 2014045666 A1 20140327</a> | TOSHIBA KK  | BATTERY PACK AND ELECTRIC VEHICLE   |
| <a href="#">WO 2014044936 A2 20140327</a> | RENAULT SA  | POWER SUPPLY SYSTEM AND METHOD FOR AN ELECTRIC VEHICLE  |
| <a href="#">WO 2014022874 A2 20140213</a> | KEBA AG   | CHARGE CONNECTING DEVICE FOR ELECTRIC VEHICLES  |
| <a href="#">WO 2014032851 A2 20140306</a> | BOSCH GMBH ROBERT SAMSUNG SDI CO LTD  | METHOD FOR STARTING A HYBRID OR ELECTRIC VEHICLE, ASSOCIATED ENERGY WITHDRAWAL SYSTEM, AND VEHICLE COMPRISING AN ELECTRIC MOTOR |
| <a href="#">WO 2014033214 A2 20140306</a> | BAYERISCHE MOTOREN WERKE AG   | FOREIGN BODY IDENTIFICATION IN THE CASE OF INDUCTIVE CHARGING   |
| <a href="#">WO 2013181147 A1 20131205</a> | SCHNEIDER ELECTRIC USA INC  | ELECTRIC VEHICLE SUPPLY EQUIPMENT CABLE DETECTION   |
| <a href="#">WO 2014029436 A1 20140227</a> | SIEMENS AG FOGANG TCHONLA ETIENNE   | CURRENT OUTPUT UNIT FOR A CHARGING DEVICE   |
| <a href="#">WO 2014029439 A1 20140227</a> | SIEMENS AG MIKULEC DRAGAN; KNORR RAINER; BRILL ROLAND; LIPOLD ANJA                | CHARGING DEVICE FOR INDUCTIVE CHARGING  |
| <a href="#">WO 2014029961 A1 20140227</a> | IMP INNOVATIONS LTD   | INDUCTIVE POWER TRANSFER SYSTEM   |
| <a href="#">WO 2014040732 A1 20140320</a> | DAIMLER AG  | ELECTRICAL POWER SUPPLY FOR THE DRIVE MACHINE OF A MOTOR VEHICLE, AND METHOD FOR OPERATING A MOTOR VEHICLE OF THIS KIND         |
| <a href="#">WO 2014015907 A1 20140130</a> | SIEMENS AG LUEDE THOMAS NOLEWAIKA MARTIN  | METHOD FOR PROTECTING A CHARGING CABLE AND CHARGING DEVICE  |
| <a href="#">WO 2014016523 A1 20140130</a> | RENAULT SA  | VEHICLE COMPRISING A BATTERY AND MEANS FOR DETERMINING A MAXIMUM ALLOWABLE POWER FOR THE BATTERY, AND CORRESPONDING METHOD      |
| <a href="#">WO 2014030059 A2 20140227</a> | TOYOTA MOTOR CO LTD OGAWA TAKAYUKI  | VEHICLE POWER CONTROL SYSTEM AND POWER CONTROL METHOD   |
| <a href="#">WO 2014033915 A1 20140306</a> | TOYOTA MOTOR CO LTD KINOMURA SHIGEKI  | VEHICLE, AND VEHICLE CONTROL METHOD   |
| <a href="#">WO 2014042788 A1 20140320</a> | QUALCOMM INC  | WIRELESS POWER TRANSFER SYSTEM COIL ARRANGEMENTS AND METHOD OF OPERATION  |
| <a href="#">WO 2014023441 A1 20140213</a> | BOSCH GMBH ROBERT SAMSUNG SDI CO LTD  | BATTERY WITH A PLURALITY OF BATTERY STRINGS CONNECTED IN PARALLEL AND METHOD FOR OPERATING THE BATTERY                          |
| <a href="#">WO 2014023544 A1 20140213</a> | BOSCH GMBH ROBERT SAMSUNG SDI CO LTD  | REPLACEMENT CELL FOR A BATTERY SYSTEM   |
| <a href="#">WO 2014037356 A2 20140313</a> | COMMISSARIAT ENERGIE ATOMIQUE   | RECHARGING OF A POOL OF BATTERIES   |
| <a href="#">WO 2014038293 A1 20140313</a> | NISSAN MOTOR  | TRAVEL SUPPORT SYSTEM, TRAVEL SUPPORT SERVER, AND VEHICLE   |
| <a href="#">WO 2014030042 A2 20140227</a> | TOYOTA MOTOR CO LTD MITSUTANI NORITAKE  | VEHICLE AND CONTROL METHOD FOR VEHICLE  |
| <a href="#">WO 2014034151 A1 20140306</a> | SANYO ELECTRIC CO   | CHARGING APPARATUS, METHOD FOR CHARGING SECONDARY BATTERY, AND METHOD FOR MANUFACTURING SECONDARY BATTERY                       |
| <a href="#">WO 2014041410 A2 20140320</a> | TOYOTA MOTOR CO LTD FUJITSU TEN LTD ICHIKAWA SHINJI MAKAMURA TORU TOKUYAMA KAZUMA | VEHICLE AND CONTACTLESS POWER SUPPLY SYSTEM   |
| <a href="#">WO 2014023486 A1 20140213</a> | BOSCH GMBH ROBERT   | METHOD FOR CONTROLLING THE OPERATION OF A HYBRID VEHICLE AND HYBRID VEHICLE HAVING A CONTROL OPERABLE ACCORDING TO SAID METHOD  |
| <a href="#">WO 2014030451 A1 20140227</a> | NISSAN MOTOR  | DEVICE FOR CHARGING SECONDARY CELL AND METHOD FOR CHARGING SECONDARY CELL   |
| <a href="#">WO 2014030463 A1 20140227</a> | IHI CORP  | MOVABLE PARKING FACILITY  |

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| <a href="#">WO 2014037572 A1 20140313</a> | BLUE SOLUTIONS   | METHOD AND DEVICE FOR MANAGING ELECTRICAL ENERGY STORAGE ASSEMBLIES FOR ELECTRICAL POWER SUPPLY OF AN ELECTRIC MOTOR VEHICLE                 |
| <a href="#">WO 2014038691 A1 20140313</a> | IHI CORP   | VEHICLE POWER FEEDING DEVICE   |
| <a href="#">WO 2014038707 A1 20140313</a> | IHI CORP   | VEHICLE POWER FEEDING DEVICE   |
| <a href="#">WO 2014022026 A2 20140206</a> | CHRYSLER GROUP LLC   | METHOD AND SYSTEM FOR BATTERY CHARGING AND THERMAL MANAGEMENT CONTROL IN ELECTRIFIED VEHICLES  |
| <a href="#">WO 2014023613 A2 20140213</a> | BAYERISCHE MOTOREN WERKE AG  | MONITORING FOR FOREIGN BODIES DURING INDUCTIVE CHARGING  |
| <a href="#">WO 2014024452 A1 20140213</a> | SANYO ELECTRIC CO  | BATTERY SYSTEM, AND ELECTRIC VEHICLE AND ELECTRICITY STORAGE DEVICE BOTH HAVING SAID BATTERY SYSTEM  |
| <a href="#">WO 2014027700 A1 20140220</a> | TOSHIBA KK<br>TOSHIBA SOLUTIONS CORP                               | CHARGING MANAGEMENT SYSTEM   |
| <a href="#">WO 2013186030 A1 20131219</a> | BOSCH GMBH ROBERT  | CHARGE BALANCING CIRCUIT FOR AN ENERGY STORE AND METHOD FOR BALANCING CHARGE DIFFERENCES IN AN ENERGY STORE                                  |
| <a href="#">WO 2014023369 A2 20140213</a> | AUDI AG  | METHOD FOR CONTROLLING THE CHARGING MODE OF AN ELECTRIC MOTOR VEHICLE  |
| <a href="#">WO 2014023747 A2 20140213</a> | JAGUAR LAND ROVER LTD  | CONTROL MEANS AND METHOD FOR CHARGING A VEHICLE  |
| <a href="#">WO 2014024226 A1 20140213</a> | TOYOTA MOTOR CO LTD<br>TAKAHASHI KENJI; NISHI YUJI; KAIYA HIROYUKI | ELECTRICITY STORAGE SYSTEM   |
| <a href="#">WO 2014035399 A1 20140306</a> | SCHNEIDER ELECTRIC USA INC<br>GIBBONS JR DONALD GREGORY            | EXTENDABLE AND DEFORMABLE CHARGING SYSTEM  |
| <a href="#">WO 2014009254 A1 20140116</a> | BOSCH GMBH ROBERT  | CONTROL DEVICE AND METHOD FOR CHARGING AN ELECTRICAL ENERGY STORE  |
| <a href="#">WO 2014029563 A1 20140227</a> | BOSCH GMBH ROBERT<br>SAMSUNG SDI CO LTD                            | METHOD OF USE FOR ELECTRIC ENERGY STORES, ARRANGEMENT FOR CARRYING OUT SUCH A METHOD OF USE, BATTERY AND MOTOR VEHICLE HAVING SUCH A BATTERY |
| <a href="#">WO 2014037157 A1 20140313</a> | BOSCH GMBH ROBERT  | CONTROL DEVICE AND METHOD FOR DETERMINING THE CHARGE STATE OF ENERGY STORAGE CELLS OF AN ENERGY STORAGE DEVICE                               |
| <a href="#">WO 2013182211 A1 20131212</a> | VOLVO LASTVAGNAR AB<br>ALAKULA MATS<br>HOEVENAARS ERIK             | ELECTRICAL APPARATUS AND METHOD FOR CHARGING A BATTERY   |
| <a href="#">WO 2013182357 A1 20131212</a> | BOSCH GMBH ROBERT  | METHOD FOR DYNAMICALLY BYPASSING CELLS IN AN ENERGY STORAGE DEVICE   |
| <a href="#">WO 2013187316 A1 20131219</a> | TOYOTA JIDOSHOKKI KK   | VOLTAGE EQUALIZATION DEVICE AND METHOD   |
| <a href="#">WO 2014001028 A1 20140103</a> | BOSCH GMBH ROBERT  | METHOD FOR OPERATING AN ELECTRIC TRACTION DRIVE SYSTEM, AND ASSOCIATED CONTROL APPARATUS   |
|   | SAMSUNG SDI CO LTD   |  |
| <a href="#">WO 2014001117 A1 20140103</a> | BOSCH GMBH ROBERT<br>SAMSUNG SDI CO LTD                            | METHOD FOR OPERATING AN ELECTRIC TRACTION DRIVE SYSTEM WITH A BATTERY DIRECT INVERTER AND ASSOCIATED CONTROL APPARATUS                       |
| <a href="#">WO 2013187178 A1 20131219</a> | SONY CORP  | ELECTRIC MOVING BODY, POWER TRANSMISSION AND RECEPTION SYSTEM, AND POWER RECEPTION METHOD FOR ELECTRIC MOVING BODY                           |
| <a href="#">WO 2014001727 A1 20140103</a> | RENAULT SA   | METHOD AND DEVICES FOR MAXIMISING THE SERVICE LIFE OF A TRACTION BATTERY OF AN ELECTRIC VEHICLE, IN PARTICULAR A LI-ION BATTERY              |
| <a href="#">WO 2014008300 A1 20140109</a> | QUALCOMM INC   | SYSTEMS, METHODS, AND APPARATUS RELATED TO ELECTRIC VEHICLE PARKING AND WIRELESS CHARGING  |
| <a href="#">WO 2014014615 A1 20140123</a> | QUALCOMM INC   | DEVICE ALIGNMENT AND IDENTIFICATION IN INDUCTIVE POWER TRANSFER SYSTEMS  |
| <a href="#">WO 2014033094 A1 20140306</a> | FRONIUS INT GMBH   | METHOD AND DEVICE FOR PROVIDING A SERVICE FUNCTION FOR A VEHICLE   |
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| <a href="#">WO 2014001205 A1 20140103</a> | PHOENIX CONTACT GMBH & CO   | ELECTRICAL PLUG WITH A LOCKING LEVER  |
| <a href="#">WO 2014014259 A1 20140123</a> | KOREA ELECTRONICS TELECOMM  | ENERGY MANAGEMENT METHOD AND ENERGY MANAGEMENT SYSTEM USING SAME  |
| <a href="#">WO 2013182382 A2 20131212</a> | SIEMENS AG  | METHOD FOR CONTROLLING THE CHARGING OPERATION IN AN ELECTRIC MOTOR VEHICLE  |
| <a href="#">WO 2014019600 A1 20140206</a> | SIEMENS AG<br>GOETZMANN ARMIN   | DEVICES AND METHODS FOR MANAGING AT LEAST ONE PARKING SPACE WITH A CHARGING FUNCTION FOR ELECTRIC VEHICLES  |
| <a href="#">WO 2013180404 A1 20131205</a> | SK INNOVATION CO LTD  | DEMAND CONTROLLER, CHARGER, AND REMOTE CHARGING CONTROL SYSTEM CONTROL METHOD USING THE SAME  |
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| <a href="#">WO 2014013058 A2 20140123</a> | IES SYNERGY   | REVERSIBLE CONVERTER  |
| <a href="#">WO 2014015957 A2 20140130</a> | AUDI AG   | LOCKING MODULE FOR A MOTOR VEHICLE HATCHBACK OF A MOTOR VEHICLE AND CORRESPONDING MOTOR VEHICLE   |
| <a href="#">WO 2013176087 A1 20131128</a> | TOYOTA JIDOSHOKKI KK  | BATTERY-STATE DETERMINATION METHOD, BATTERY CONTROL DEVICE, AND BATTERY PACK  |
| <a href="#">WO 2013179534 A1 20131205</a> | PANASONIC CORP  | APPARATUS, SYSTEM, AND METHOD FOR DETECTING UNAUTHORIZED CONNECTION   |
| <a href="#">WO 2013180324 A1 20131205</a> | KOREA RAILROAD RES INST<br>JUNG HO SUNG; PARK<br>YOUNG; KIM HYUNG CHUL;<br>PARK CHAN BAE;KIM KI SUK | MULTI-FUNCTIONAL ELECTRIC VEHICLE CHARGING DEVICE FOR DC DISTRIBUTION NETWORKS UTILIZING HIGH CAPACITY DC/DC CONVERTER  |
| <a href="#">WO 2013182439 A1 20131212</a> | BOSCH GMBH ROBERT<br>SAMSUNG SDI CO LTD   | BATTERY SYSTEM AND ASSOCIATED METHOD FOR DETERMINING THE INTERNAL RESISTANCE OF BATTERY CELLS OR BATTERY MODULES OF SAID BATTERY SYSTEM   |
| <a href="#">WO 2013189627 A1 20131227</a> | BOSCH GMBH ROBERT<br>SAMSUNG SDI CO LTD   | SAFETY CONCEPT FOR BATTERIES  |
| <a href="#">WO 2014007656 A1 20140109</a> | AUCKLAND UNISERVICES<br>LTD<br>JAMES JASON EDWARD IAN   | VAR CONTROL FOR INDUCTIVE POWER TRANSFER SYSTEMS  |
| <a href="#">WO 2014033517 A1 20140306</a> | TOYOTA MOTOR CO LTD<br>MURATA TAKASHI   | POWER STORAGE SYSTEM AND TEMPERATURE CONTROL METHOD FOR THE SAME  |
| <a href="#">WO 2013179986 A1 20131205</a> | NEC CORP  | INFORMATION PROCESSING DEVICE, INFORMATION PROCESSING SYSTEM, CONTROL METHOD FOR INFORMATION PROCESSING SYSTEM, INFORMATION PROCESSING METHOD, AND INFORMATION PROCESSING PROGRAM |
| <a href="#">WO 2014005562 A1 20140109</a> | HUF HUELSBECK & FUERST<br>GMBH  | LOCKING DEVICE FOR A CHARGING PLUG  |
| <a href="#">WO 2014006953 A1 20140109</a> | NEC CORP<br>SHIZUNO TAKAYUKI  | CHARGING SYSTEM CONTROL DEVICE, PROGRAM, AND CONTROL METHOD   |
| <a href="#">WO 2014002245 A1 20140103</a> | HONDA MOTOR CO LTD<br>SAKURAI KENYA<br>KONDOU KENJI<br>SUDA HIROHIDE                                | VEHICLE COMMUNICATION SYSTEM  |
| <a href="#">WO 2014002246 A1 20140103</a> | HONDA MOTOR CO LTD<br>SAKURAI KENYA   | VEHICLE COMMUNICATION SYSTEM  |
| <a href="#">WO 2014005621 A1 20140109</a> | SIEMENS AG<br>FEHLING MARCUS  | ELECTRIC VEHICLE, INDUCTIVE CHARGING STATION, AND METHOD  |
| <a href="#">WO 2014005623 A1 20140109</a> | SIEMENS AG<br>BICHLER THOMAS;<br>BRAUKMANN ERWIN;<br>FISCHER FRIEDRICH;KOCH<br>GEORG                | METHOD FOR UNLOCKING A PLUG   |
| <a href="#">WO 2014014553 A2 20140123</a> | EATON CORP  | REMOTE ANNUNCIATOR FOR ELECTRIC VEHICLE SUPPLY EQUIPMENT  |
| <a href="#">WO 2014023651 A1 20140213</a> | BAYERISCHE MOTOREN<br>WERKE AG  | POSITIONING WITH A RADIO-BASED LOCKING SYSTEM   |



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| <a href="#">WO 2013188188 A2 20131219</a> | SCHNEIDER ELECTRIC USA INC  | LOCKING DEVICE FOR ELECTRIC VEHICLE CHARGING CONNECTOR  |
| <a href="#">WO 2014004981 A1 20140103</a> | SCHNEIDER ELECTRIC USA INC  | COUPLER FOR ELECTRIC VEHICLE CHARGING STATION   |
| <a href="#">WO 2014003106 A1 20140103</a> | mitsubishi heavy ind ltd  | ELECTRIC-VEHICLE CHARGING SYSTEM AND CHARGING BILLING METHOD  |
| <a href="#">WO 2014005567 A2 20140109</a> | KIEKERT AG  | CHARGING DEVICE FOR AN ELECTRIC VEHICLE, AND ADAPTER  |
| <a href="#">WO 2014008114 A2 20140109</a> | GEN ELECTRIC  | SYSTEM AND METHOD FOR OPERATING A HYBRID VEHICLE SYSTEM   |
| <a href="#">WO 2013182549 A2 20131212</a> | BOSCH GMBH ROBERT   | DEVICE AND METHOD FOR CHARGING A FIRST VEHICLE BATTERY  |
| <a href="#">WO 2013182825 A1 20131212</a> | IES SYNERGY   | CHARGING DEVICE HAVING ADAPTIVE INPUT   |
| <a href="#">WO 2014002544 A1 20140103</a> | mitsubishi motors corp  | CHARGE CONTROL DEVICE FOR ELECTRIC VEHICLE  |
| <a href="#">WO 2014010025 A1 20140116</a> | FUJI ELEC FA COMPONENTS & SYS<br>USUDA TAKAYUKI<br>YOSHIOKA NOBUYORI  | CHARGING SYSTEM AND CHARGING METHOD   |
| <a href="#">WO 2014015950 A2 20140130</a> | AUDI AG   | METHOD FOR OPERATING A CHARGING STATION   |
| <a href="#">WO 2014024030 A1 20140213</a> | TOYOTA MOTOR CO LTD<br>KIKUCHI TAKURO   | ELECTRICAL STORAGE SYSTEM AND EQUALIZING METHOD   |
| <a href="#">WO 2014020926 A1 20140206</a> | mitsubishi electric corp<br>HATAKEYAMA KAZUNORI<br>SHINOMOTO YOSUKE<br>YAMAKAWA TAKASHI                                       | CHARGING/DISCHARGING DEVICE   |
| <a href="#">WO 2014024747 A1 20140213</a> | YAZAKI CORP   | CHARGING CONNECTOR  |
| <a href="#">WO 2013189530 A1 20131227</a> | SIEMENS AG<br>VESTER MARKUS; KRUG<br>ANDREAS; VOM ENDT AXEL;<br>DIETZ PETER; FATH<br>SASCHA; KOMMA THOMAS;<br>NISTLER JUERGEN | DETECTION COIL ASSEMBLY, ENERGY TRANSFER COIL ASSEMBLY AND DETECTION SYSTEM FOR DETECTING ELECTRICALLY CONDUCTIVE FOREIGN BODIES            |
| <a href="#">WO 2013182373 A2 20131212</a> | VOLKSWAGEN AG   | METHOD AND DEVICE FOR CHARGING A BATTERY OF AN ELECTRIC OR HYBRID VEHICLE BY MEANS OF A HIGH-POWER CURRENT SOURCE                           |
| <a href="#">WO 2013183499 A1 20131212</a> | NISSAN MOTOR  | LAYOUT STRUCTURE FOR ELECTRONIC-CONTROL-SYSTEM ELEMENTS FOR ELECTRIC VEHICLE  |
| <a href="#">WO 2013190207 A1 20131227</a> | RENAULT SA  | DEVICE FOR MEASURING RESISTANCE OF EARTH TAP AND CHARGER FOR ON-BOARD VEHICLE FURNISHED WITH SUCH A DEVICE                                  |
| <a href="#">WO 2014007019 A1 20140109</a> | NISSAN MOTOR  | CHARGING PORT DEVICE FOR ELECTRIC VEHICLE   |
| <a href="#">WO 2013189870 A1 20131227</a> | BOSCH GMBH ROBERT<br>SAMSUNG SDI CO LTD   | BATTERY MANAGEMENT SYSTEM HAVING AN INCREASED ROBUSTNESS AGAINST NEGATIVE VOLTAGES  |
| <a href="#">WO 2014010518 A1 20140116</a> | TOYOTA JIDOSHOKKI KK  | POWER-RECEIVING DEVICE AND POWER TRANSFER SYSTEM  |
| <a href="#">WO 2013186021 A2 20131219</a> | VOLKSWAGEN AG   | METHOD FOR OPERATING A VEHICLE BATTERY, AND CORRESPONDING BATTERY ASSEMBLY AND VEHICLE  |
| <a href="#">WO 2014001471 A2 20140103</a> | BAYERISCHE MOTOREN<br>WERKE AG  | CHARGING DEVICE FOR CHARGING A CHARGE STORAGE DEVICE  |
| <a href="#">WO 2014010447 A1 20140116</a> | TOYOTA JIDOSHOKKI KK  | VEHICLE-MOUNTED COMMUNICATION DEVICE, AND COMMUNICATION METHOD  |
| <a href="#">WO 2014009369 A2 20140116</a> | SIEMENS AG  | MODULAR CONSTRUCTION OF DC FAST-CHARGING STATIONS   |
| <a href="#">WO 2014010050 A1 20140116</a> | PIONEER CORP<br>OISHI HIROKAZU  | INFORMATION UPDATE SYSTEM AND METHOD, AND AUTOMOBILE, CHARGER AND SERVER DEVICE   |
| <a href="#">WO 2014010438 A1 20140116</a> | SANYO ELECTRIC CO   | BATTERY SYSTEM, AND VEHICLE AND POWER STORAGE DEVICE EQUIPPED WITH BATTERY SYSTEM   |
| <a href="#">WO 2014008976 A2 20140116</a> | AUDI NSU AUTO UNION AG  | CHARGER DEVICE FOR A HIGH-VOLTAGE BATTERY OF A MOTOR VEHICLE AND MOTOR VEHICLE  |
| <a href="#">WO 2014005776 A2 20140109</a> | BOSCH GMBH ROBERT<br>SAMSUNG SDI CO LTD   | ELECTRIC CHARGING SYSTEM COMPRISING A TEMPERATURE CONTROL SYSTEM FOR BATTERY-OPERATED MOTOR VEHICLES, AND COMPONENTS OF THE CHARGING SYSTEM |

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| <a href="#">WO 2014004769 A2 20140103</a> | MIDTRONICS INC                | HYBRID AND ELECTRIC VEHICLE BATTERY PACK MAINTENANCE DEVICE  |
| <a href="#">WO 2013093287 A2 20130627</a> | VALEO SYS CONTROLE MOTEUR SAS | METHOD OF EXCHANGING ELECTRICAL ENERGY BETWEEN AN ELECTRICAL NETWORK CONVEYING A DC OR AC ELECTRICAL QUANTITY AND AN ELECTRICAL ENERGY STORAGE UNIT FOR HYBRID OR ELECTRIC VEHICLE |
| <a href="#">WO 2014006096 A2 20140109</a> | EBEE SMART TECHNOLOGIES GMBH  | CHARGING CABLE AND METHOD FOR DETECTING A CHARGING CABLE   |
| <a href="#">WO 2014010337 A1 20140116</a> | NISSAN MOTOR MITSUBA CORP     | CHARGING PORT DEVICE FOR ELECTRIC VEHICLE  |

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## CAMBIO DE BATERÍAS

| Nº PUBLICACIÓN                            | SOLICITANTE  | CONTENIDO TÉCNICO  |
|---|--|--|
| <a href="#">WO 2014026250 A1 20140220</a> | SPINERGY PTY LTD   | INLINE POWER GENERATOR   |
| <a href="#">WO 2014033522 A2 20140306</a> | TOYOTA MOTOR CO LTD<br>FUJI HEAVY IND LTD<br>ENDO HIROKI; SETA<br>ITARU                          | POWER MANAGEMENT DEVICE AND POWER MANAGEMENT METHOD  |
| <a href="#">WO 2014033397 A1 20140306</a> | RENAULT SA   | DEVICE FOR DETECTING AND MEASURING AN INSULATION FAULT   |
| <a href="#">WO 2014026986 A1 20140220</a> | JAGUAR LAND ROVER LTD  | SPEED CONTROL SYSTEM AND METHOD FOR OPERATING THE SAME   |
| <a href="#">WO 2014027437 A1 20140220</a> | TOSHIBA KK   | TRAIN-CAR CONTROL DEVICE, TRAIN-CAR CONTROL METHOD, AND HYBRID TRAIN CAR                             |
| <a href="#">WO 2014041992 A1 20140320</a> | AISIN SEIKI  | HYBRID DRIVE DEVICE  |
| <a href="#">WO 2014047056 A1 20140327</a> | REMY TECHNOLOGIES LLC  | MOTOR COOLING SYSTEM WITH POTTED END TURNS   |
| <a href="#">WO 2014034198 A1 20140306</a> | TOYOTA JIDOSHOKKI KK   | FOUR-WHEEL DRIVE DEVICE  |
| <a href="#">WO 2014041313 A1 20140320</a> | VALEO EQUIP ELECTR MOTEUR  | SINGLE-TOOTH STATOR FOR A ROTATING ELECTRIC MACHINE AND CORRESPONDING ROTATING ELECTRIC MACHINE      |
| <a href="#">WO 2014016476 A1 20140130</a> | LIBAULT DAVID  | AXIAL-FLOW ELECTRIC MOTOR  |
| <a href="#">WO 2014034343 A1 20140306</a> | HITACHI AUTOMOTIVE SYSTEMS LTD   | ROTATING ELECTRIC MACHINE AND METHOD FOR MANUFACTURING SAME  |
| <a href="#">WO 2014040687 A2 20140320</a> | AUDI AG  | DRIVE DEVICE FOR A MOTOR VEHICLE   |
| <a href="#">WO 2014041423 A1 20140320</a> | TOYOTA MOTOR CO LTD<br>NAKANISHI NAOKI<br>MATSUTANI SHINTARO                                     | VEHICLE AND CONTROL METHOD   |
| <a href="#">WO 2014013408 A2 20140123</a> | BANGURA JOHN<br>MOKLEGAARD LASSE<br>SARAN AMITABH  | A DUAL-STRUCTURED ELECTRIC DRIVE AND POWER SYSTEM FOR HYBRID VEHICLES                                |
| <a href="#">WO 2014016679 A1 20140130</a> | TOYOTA MOTOR CO LTD<br>MIYAMOTO TOMOHIKO<br>IKEMOTO MASAYUKI<br>KURAMOTO MAMORU<br>YAGI NORIYUKI | CONTROL DEVICE AND CONTROL METHOD FOR HYBRID VEHICLE POWER UNIT                                      |
| <a href="#">WO 2014023302 A1 20140213</a> | SCHAEFFLER TECHNOLOGIES AG   | ELECTROMECHANICAL INDEPENDENT WHEEL DRIVE DEVICE   |
| <a href="#">WO 2014040689 A1 20140320</a> | AUDI AG  | DRIVE ARRANGMENT FOR A MOTOR VEHICLE   |
| <a href="#">WO 2014030547 A1 20140227</a> | NISSAN MOTOR   | ROTOR STRUCTURE AND ROTOR MANUFACTURING METHOD FOR PERMANENT MAGNET TYPE ROTATING ELECTRICAL MACHINE |
| <a href="#">WO 2014038062 A1 20140313</a> | mitsubishi electric corp<br>KAYANO SHINSUKE<br>INOUE MASAYA<br>NISHIMURA SHINJI                  | INTERIOR PERMANENT MAGNET MOTOR  |
| <a href="#">WO 2014038262 A1 20140313</a> | TOYOTA JIDOSHOKKI KK   | VEHICLE DRIVE MECHANISM  |
| <a href="#">WO 2014038290 A1 20140313</a> | NISSAN MOTOR   | MOTOR DRIVE UNIT   |
| <a href="#">WO 2014038350 A1 20140313</a> | NISSAN MOTOR   | METHOD FOR CONTROLLING AND DEVICE FOR CONTROLLING HYBRID VEHICLE                                     |
| <a href="#">WO 2014038591 A1 20140313</a> | AISIN AW CO  | VEHICLE DRIVE DEVICE CONTROL DEVICE  |
| <a href="#">WO 2014041277 A1 20140320</a> | VALEO EQUIP ELECTR MOTEUR  | MIXED COIL INSULATOR MADE FROM TWO PARTS AND CORRESPONDING ELEMENT OF AN ELECTRICAL MACHINE          |
| <a href="#">WO 2014024222 A1 20140213</a> | JFE STEEL CORP<br>TODA HIROAKI<br>NAKANISHI TADASHI<br>KOHNO MASAOKI<br>ODA YOSHIHIKO            | HIGH-STRENGTH ELECTROMAGNETIC STEEL SHEET AND METHOD FOR PRODUCING SAME                              |
| <a href="#">WO 2014025048 A1 20140213</a> | AISIN AW CO  | HYBRID DRIVE DEVICE  |

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| <a href="#">WO 2014037594 A1 20140313</a> | MICROELECTRONICA MASER S L   | DRIVE MOTOR BUILT INTO THE STUB AXLE OF A MOTOR VEHICLE   |
| <a href="#">WO 2014016728 A2 20140130</a> | BANGURA JOHN<br>MOKLEGAARD LASSE<br>SARAN AMITABH  | INDUCTION MOTOR-PERMANENT MAGNET GENERATOR TANDEM CONFIGURATION STARTER-GENERATOR FOR HYBRID VEHICLES   |
| <a href="#">WO 2014029554 A2 20140227</a> | BOSCH GMBH ROBERT  | ROTOR FOR AN ELECTRIC MACHINE   |
| <a href="#">WO 2014038315 A1 20140313</a> | MINITUBISHI HEAVY IND<br>AUTOMOTIVE THERMAL<br>SYSTEMS CO LTD  | INVERTER-INTEGRATED ELECTRIC COMPRESSOR   |
| <a href="#">WO 2014039954 A1 20140313</a> | REMY TECHNOLOGIES<br>LLC   | VARIABLE RELUCTANCE RESOLVER HAVING INTEGRAL ELECTROMAGNETIC INTERFERENCE SHIELD AND ROTARY ELECTRIC MACHINE HAVING SAME  |
| <a href="#">WO 2014003730 A1 20140103</a> | NISSAN MOTOR<br>WINSCONSIN ALUMNI<br>RES FOUNDATION<br>KATO TAKASHI<br>LORENZ ROBERT<br>LIMSUWAN NATEE   | VARIABLE MAGNETIC FLUX-TYPE ROTARY ELECTRIC MACHINE   |
| <a href="#">WO 2014025928 A2 20140213</a> | AC PROPULSION INC  | LIQUID COOLED ELECTRIC MOTOR  |
| <a href="#">WO 2014026874 A2 20140220</a> | VOLKSWAGEN AG  | UNIT AND CASING WITH A COOLING JACKET   |
| <a href="#">WO 2014037471 A2 20140313</a> | JAGUAR LAND ROVER<br>LTD   | VEHICLE RECOVERY SYSTEM   |
| <a href="#">WO 2013189602 A1 20131227</a> | VOLVO TRUCK CORP   | A METHOD OF MANUFACTURING A LAMINATED WINDING AND A LAMINATED WINDING   |
| <a href="#">WO 2014016100 A2 20140130</a> | BOSCH GMBH ROBERT  | ROTOR ARRANGEMENT FOR AN ELECTRICAL MACHINE AND BEARING OF SAID ROTOR ARRANGEMENT   |
| <a href="#">WO 2014021913 A1 20140206</a> | CONVERGENT POWER<br>INC<br>MURRAY JAMES F<br>BRAUER ERIK J   | MULTI-POLE SWITCHED RELUCTANCE D.C. MOTOR WITH FIXED AIR GAP AND RECOVERY OF INDUCTIVE FIELD ENERGY   |
| <a href="#">WO 2013190514 A1 20131227</a> | BRUSA ELEKTRONIK<br>AG   | STATOR  |
| <a href="#">WO 2014005374 A1 20140109</a> | DAI JIE  | HIGH-POWER DRIVE CONTROL UNIBODY WHEEL HUB MOTOR  |
| <a href="#">WO 2014011763 A1 20140116</a> | REMY TECHNOLOGIES<br>LLC   | SEGMENTED ELECTRIC MACHINE CORE SECURED WITH BELT AND METHOD OF MANUFACTURE   |
| <a href="#">WO 2014021012 A1 20140206</a> | HITACHI AUTOMOTIVE<br>SYSTEMS LTD  | MOTOR CONTROL DEVICE  |
| <a href="#">WO 2014016482 A1 20140130</a> | RENAULT SA   | SYSTEM AND METHOD FOR CONTROLLING THE TORQUE OF A TRACTION ENGINE OF A MOTOR VEHICLE ON THE BASIS OF THE ROTATIONAL VELOCITY AND THE DEPRESSION OF THE ACCELERATION PEDAL |
| <a href="#">WO 2014017125 A1 20140130</a> | AISIN AW CO  | DEVICE AND METHOD FOR FORMING COIL END  |
|   | TOYOTA MOTOR CO<br>LTD<br>KURASHIGE DAICHI<br>HASHIMOTO SHINGO<br>TANAKA HIROYUKI<br>OTA TAKANORI<br>NAKAGAWA OSAMU<br>MATSUO DAISUKE<br>KAWAURA HIROTAKE<br>SUGIURA HIROHARU<br>AKAO NORIHIKO |   |
| <a href="#">WO 2014020813 A1 20140206</a> | NISSAN MOTOR   | DRIVE CONTROL DEVICE FOR VEHICLE  |
| <a href="#">WO 2014021233 A1 20140206</a> | AISIN SEIKI  | HYBRID DRIVE DEVICE   |
|   | AISIN AW CO  |   |
| <a href="#">WO 2014006294 A1 20140109</a> | VALEO EQUIP ELECTR<br>MOTEUR   | ROTATING ELECTRIC MACHINE WITH COMPENSATION OF ARMATURE MAGNETIC FEEDBACK   |
| <a href="#">WO 2014018720 A1 20140130</a> | REMY TECHNOLOGIES<br>LLC   | PERMANENT MAGNET ROTOR WITH RESIN-COVERED MAGNET AND LAMINATION FOR THERMAL CONTROL   |
| <a href="#">WO 2014013830 A1 20140123</a> | HITACHI AUTOMOTIVE<br>SYSTEMS LTD  | ROTARY ELECTRIC MACHINE AND ELECTRIC VEHICLE  |
| <a href="#">WO 2013183630 A1 20131212</a> | MINITUBISHI ELECTRIC<br>CORP   | STATOR FOR ROTATING ELECTRIC MACHINE AND METHOD FOR MANUFACTURING STATOR FOR ROTATING ELECTRIC MACHINE  |

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| <a href="#">WO 2014002983 A1 20140103</a> | HITACHI METALS LTD  | METHOD FOR PRODUCING RARE EARTH SINTERED MAGNETS  |
| <a href="#">WO 2014003662 A1 20140103</a> | SCANIA CV AB  | DRIVE SYSTEM AND METHOD OF DRIVING A VEHICLE  |
| <a href="#">WO 2014011804 A1 20140116</a> | REMY TECHNOLOGIES LLC   | INTEGRATED PHASE CONNECTION ISOLATOR WITH INDIVIDUAL PHASE ISOLATOR   |
| <a href="#">WO 2014013910 A1 20140123</a> | SUMITOMO SHI CONSTR MACH CO   | EXCAVATOR   |
| <a href="#">WO 2014008897 A1 20140116</a> | SCHAEFFLER TECHNOLOGIES AG  | MOUNTING CONCEPT FOR AN ELECTRIC AXLE   |
| <a href="#">WO 2014020992 A1 20140206</a> | HONDA MOTOR CO LTD  | MOTIVE POWER DEVICE   |
| <a href="#">WO 2014021234 A1 20140206</a> | AISIN SEIKI   | HYBRID DRIVE DEVICE   |
| <a href="#">WO 2014023542 A1 20140213</a> | BOSCH GMBH ROBERT SAMSUNG SDI CO LTD  | FORMING APPARATUS AND METHOD FOR FORMING BATTERY CELLS OF A BATTERY   |
| <a href="#">WO 2013189812 A1 20131227</a> | BAYERISCHE MOTOREN WERKE AG   | VEHICLE STABILIZATION FOR A HYBRID VEHICLE IN THE EVENT OF BRAKE SLIP OF THE DRIVE WHEELS OR INCREASED RISK THEREOF |
| <a href="#">WO 2014002724 A1 20140103</a> | TOYOTA AUTO BODY CO LTD UNO KOUSUKE SUGAI MASARU  | MOTOR CONTROL DEVICE  |
| <a href="#">WO 2014003669 A1 20140103</a> | SCANIA CV AB  | DRIVE SYSTEM AND METHOD OF DRIVING A VEHICLE  |
| <a href="#">WO 2014008896 A1 20140116</a> | SCHAEFFLER TECHNOLOGIES AG  | ELECTRIC AXLE WITH A TWO GEAR TRANSMISSION  |
| <a href="#">WO 2014010418 A1 20140116</a> | NISSAN MOTOR  | METHOD FOR MANUFACTURING SINTERED MAGNET  |
| <a href="#">WO 2014011783 A1 20140116</a> | REMY TECHNOLOGIES LLC   | INTERLOCKING COIL ISOLATORS FOR RESIN RETENTION IN A SEGMENTED STATOR ASSEMBLY                                      |
| <a href="#">WO 2014002986 A1 20140103</a> | HITACHI METALS LTD  | PRODUCTION METHOD AND MOLD FOR RARE EARTH SINTERED MAGNET   |
| <a href="#">WO 2013190999 A1 20131227</a> | TOYOTA JIDOSHOKKI KK  | ROTATING ELECTRICAL MACHINE   |
| <a href="#">WO 2014007940 A1 20140109</a> | GEN ELECTRIC  | SYSTEM AND METHOD FOR POWERING A HYDRAULIC PUMP   |
| <a href="#">WO 2014010061 A1 20140116</a> | mitsubishi electric corp SAITO SHOJI TSUNODA YOSHIKAZU HUSSEIN KHALID HASSAN ARAKI SHINTARO | CONTROL BOARD FOR ON-BOARD MOTOR DRIVE  |
| <a href="#">WO 2014005910 A2 20140109</a> | BOSCH GMBH ROBERT   | ELECTRIC MACHINE HAVING A STATOR BLADE STACK PROVIDED WITH VORTEX GENERATORS FOR AN INTEGRATED COOLING ARRANGEMENT  |
| <a href="#">WO 2013179438 A1 20131205</a> | NIPPON STEEL & SUMITOMO METAL WAKISAKA TAKEAKI  | NONORIENTED ELECTROMAGNETIC STEEL SHEET   |
| <a href="#">WO 2013183482 A1 20131212</a> | NTN TOYO BEARING CO LTD   | SPEED-CHANGE CONTROL METHOD FOR ELECTRIC VEHICLE, AND SPEED-CHANGE CONTROL APPARATUS                                |
| <a href="#">WO 2014010484 A1 20140116</a> | UNIV NAGASAKI   | ELECTRIC MOTOR  |
| <a href="#">WO 2014011728 A2 20140116</a> | MAGNA E CAR SYSTEMS OF AMERICA INC  | THERMAL MANAGEMENT OF ELECTRIC VEHICLE BATTERY PACK IN THE EVENT OF FAILURE OF BATTERY PACK HEATER                  |

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