

#### Noticias

La empresa Cargacoche, ha instalado en la sede del [Ministerio de Defensa](#) en la calle Arturo Soria 289, dos cargadores semirrápidos para dar servicio a su nueva dotación de vehículos eléctricos e híbridos enchufables, destinados a su personal interno.

Al primer contrato de Cargacoche con el Ministerio de Defensa se le suman anteriores actuaciones de implantación de infraestructuras de recarga en otros organismos públicos, especialmente en ayuntamientos. Ejemplos de ello son las estaciones recientemente instaladas en los municipios de Pedrezuela, Ágreda, San Martín de Pusa o Sant Vicenç dels Horts.

En el [Consejo de Ministros celebrado el 23 de noviembre de 2021](#), a propuesta del Ministerio para la Transición Ecológica y el Reto Demográfico (MITECO), se adoptó una nueva medida para impulsar la movilidad eléctrica, modificando la Ley 34/1998, del sector de hidrocarburos para introducir más competencia al otorgar total libertad al titular de las estaciones de servicio abanderadas o franquiciadas a la hora de instalar un punto de recarga para vehículos eléctricos, impidiendo que se vincule al contrato de suministro en exclusiva que mantienen con los operadores y cuyo contenido y límites se regulan en la citada ley.

El 9 de diciembre de 2021, diferentes medios de comunicación ([Diario de Navarra](#), [El Español](#), [msn](#)) se hicieron eco de unas declaraciones de Herbert Diess, CEO del grupo Volkswagen, según las cuales Volkswagen condiciona la fabricación de vehículos eléctricos compactos en las plantas de Martorell y de Pamplona a partir de 2025, a las condiciones generales y de los incentivos gubernamentales, en clara referencia al PERTE.

El pasado 28 de diciembre de 2021, se publicaron en el [BOE](#) las bases reguladoras, para la concesión de ayudas a actuaciones integrales de la cadena industrial del vehículo eléctrico y conectado, dentro del Proyecto Estratégico para la Recuperación y Transformación Económica en el sector del Vehículo Eléctrico y Conectado (PERTE VEC), en el marco del Plan de Recuperación, Transformación y Resiliencia.

El presupuesto máximo de las ayudas procedentes del fondo 'Next Generation EU' será de 2.975 millones de euros, de los cuales 1.425 millones serán en forma de préstamo y 1.550 millones en forma de subvenciones.

Podrán acogerse a las ayudas las agrupaciones sin personalidad jurídica propia, que hayan establecido con anterioridad un acuerdo de agrupación y cumplan los requisitos establecidos en el anexo VI de la orden ICT/1466/2021, de 23 de diciembre. Deberán cumplir además con otra serie de requisitos establecidos en el artículo 5 de las citadas bases.

El periodo de concesión de las ayudas es 2021-2023.

Serán financiables las inversiones y gastos realizados desde el día siguiente a la presentación de la solicitud y hasta un plazo máximo de treinta meses contados desde la fecha de resolución de la concesión o hasta el 30 de septiembre de 2025, lo que tenga lugar antes, salvo que la correspondiente convocatoria indique otros plazos.

NIPO: 116-19-009-9

[BOLETINES OEPM](#)

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## Solicitudes de Patente Publicadas

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

### BATERÍAS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
<a href="#">WO 2021215572 A1</a>	ENERTECH INT INC	Heater system for heating battery for electric vehicle and battery for electric vehicle having same
<a href="#">WO 2021220746 A1</a>	MURATA MANUFACTURING CO	Secondary battery
<a href="#">WO 2021198027 A1</a>	BAYERISCHE MOTOREN WERKE AG	Modular system for a traction battery in a motor vehicle and motor vehicle
<a href="#">WO 2021199722 A1</a>	PANASONIC IP MAN CO LTD	Laminated battery production method
<a href="#">WO 2021214725 A1</a>	IPLTECH ELECTRIC PRIVATE LTD	A system and method for increasing efficiency of an electric vehicle
<a href="#">WO 2021214904 A1</a>	YAMAHA MOTOR CO LTD	Electric vehicle battery pack and pure electric vehicle
<a href="#">WO 2021196141 A1</a>	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Secondary battery and device comprising secondary battery
<a href="#">WO 2021205288 A1</a>	SEMICONDUCTOR ENERGY LAB	Positive electrode active material, positive electrode, secondary battery, electronic device, and vehicle
<a href="#">WO 2021213413 A1</a>	HUAWEI TECH CO LTD	Metal negative electrode, preparation method therefor, and secondary battery
<a href="#">WO 2021220350 A1</a>	NISSAN MOTOR	Output control method for secondary battery and output control system for secondary battery
<a href="#">WO 2021221340 A1</a>	LG ENERGY SOLUTION LTD	Battery pack and device including same
<a href="#">WO 2021221353 A1</a>	LG ENERGY SOLUTION LTD	Battery pack having enhanced efficiency and stability of cooling fluid channel structure and vehicle comprising same
<a href="#">WO 2021221006 A1</a>	MURATA MANUFACTURING CO	Solid-state battery
<a href="#">WO 2021206383 A1</a>	LG ENERGY SOLUTION LTD	Battery pack and device including same
<a href="#">WO 2021209079 A2</a>	EVERGRANDE NEW ENERGY TECH SHENZHEN CO LTD	Positive electrode active material with superlattice structure and preparation method therefor, and lithium ion battery
<a href="#">WO 2021210771 A1</a>	LG ENERGY SOLUTION LTD	Battery module and battery pack including same
<a href="#">WO 2021210525 A1</a>	THE SCHOOL CORPORATION KANSAI UNIV	Positive electrode material for lithium-sulfur secondary batteries, lithium-sulfur secondary batteries using same, and method for producing positive electrode material for lithium-sulfur secondary batteries
<a href="#">WO 2021221223 A1</a>	ENERTECH INT INC	Electric heater-mounted battery pack for electric vehicles
<a href="#">WO 2021201768 A1</a>	GRABTAXI HOLDINGS PTE LTD	Method of operating an electric power system, electric power system, and computer executable code
<a href="#">WO 2021200394 A1</a>	PANASONIC IP MAN CO LTD	Non-aqueous electrolyte secondary battery
<a href="#">WO 2021205275 A1</a>	SEMICONDUCTOR ENERGY LAB	Secondary battery control system, control circuit, and vehicle using same
<a href="#">WO 2021206514 A1</a>	LG ENERGY SOLUTION LTD	Battery module and battery pack including same
<a href="#">WO 2021215768 A1</a>	LG ENERGY SOLUTION LTD	Silicon-carbon composite negative electrode active material, negative electrode comprising silicon-carbon composite negative electrode active material, and secondary battery comprising negative electrode
<a href="#">WO 2021219319 A1</a>	IBM	Electrolyte compositions for rechargeable metal halide battery
<a href="#">WO 2021221276 A1</a>	RES INST IND SCIENCE & TECH	Anode material for lithium secondary battery, method for preparing same, and lithium secondary battery
<a href="#">WO 2021221026 A1</a>	MURATA MANUFACTURING CO	Secondary battery
<a href="#">WO 2021220306 A1</a>	TVS MOTOR CO LTD	Wireless communication in a battery pack
<a href="#">WO 2021221001 A1</a>	PANASONIC IP MAN CO LTD	Positive electrode material and battery

<a href="#">WO 2021199484 A1</a>	MURATA MANUFACTURING CO	Secondary battery
<a href="#">WO 2021205870 A1</a>	GS YUASA INT LTD	Electricity storage element management device, electricity storage device, and vehicle
<a href="#">WO 2021205469 A1</a>	TVS MOTOR CO LTD	A battery module
<a href="#">WO 2021206325 A1</a>	LG ENERGY SOLUTION LTD	Battery module and battery pack including same
<a href="#">WO 2021211451 A1</a>	URBAN ELECTRIC POWER INC	Aqueous high voltage zinc-anode battery
<a href="#">WO 2021212050 A1</a>	URBAN ELECTRIC POWER INC	Improving zinc-manganese dioxide battery performance through interlayers
<a href="#">WO 2021214903 A1</a>	YAMAHA MOTOR CO LTD	Electric vehicle battery pack and pure electric vehicle
<a href="#">WO 2021219309 A1</a>	BAYERISCHE MOTOREN WERKE AG	Battery housing with valve device, battery and motor vehicle
<a href="#">WO 2021217620 A1</a>	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Negative electrode active material and preparation method therefor, secondary battery, and device including secondary battery
<a href="#">WO 2021220307 A1</a>	HERO MOTOCORP LTD	Energy storage system
<a href="#">WO 2021197959 A1</a>	SOLVAY SPECIALTY POLYMERS IT	Polyamic acid derivatives binder for lithium ion battery
<a href="#">WO 2021200395 A1</a>	PANASONIC IP MAN CO LTD	Positive electrode for nonaqueous electrolyte secondary batteries, and nonaqueous electrolyte secondary battery
<a href="#">WO 2021206430 A1</a>	LG ENERGY SOLUTION LTD	All-solid-state battery and method for manufacturing all-solid-state battery
<a href="#">WO 2021215571 A1</a>	ENERTECH INT INC	Battery module monitoring device and battery module for electric vehicle having same
<a href="#">WO 2021215661 A1</a>	LG ENERGY SOLUTION LTD	Battery module and manufacturing method thereof
<a href="#">WO 2021221370 A1</a>	LG ENERGY SOLUTION LTD	Battery pack having improved fixing structure and gas discharge structure, and electronic device and vehicle including same
<a href="#">WO 2021199010 A1</a>	LUKATIT INVEST 12 PTY LTD	Rechargeable electrical storage devices
<a href="#">WO 2021200446 A1</a>	SANYO ELECTRIC CO	Power supply device
<a href="#">WO 2021203086 A1</a>	SILA NANOTECHNOLOGIES INC	Lithium-ion battery with anode comprising blend of intercalation-type anode material and conversion-type anode material
<a href="#">WO 2021199721 A1</a>	PANASONIC IP MAN CO LTD	Laminated battery production method
<a href="#">WO 2021211985 A1</a>	GREEN CUBES TECH LLC	Thermal battery management system
<a href="#">WO 2021218775 A1</a>	BYD CO LTD	Copper bar protection structure, battery pack, and electric vehicle
<a href="#">WO 2021220745 A1</a>	MURATA MANUFACTURING CO	Secondary battery
<a href="#">WO 2021200229 A1</a>	SUMITOMO CHEMICAL CO	Solid electrolyte-containing layer
<a href="#">WO 2021201443 A1</a>	LG ENERGY SOLUTION LTD	Battery module including gas breaking structure
<a href="#">WO 2021201054 A1</a>	MITSUI CHEMICALS INC	Non-aqueous electrolyte for battery, precursor for lithium secondary battery, method for manufacturing lithium secondary battery, lithium secondary battery, phosphazene compound, and additive for battery
<a href="#">WO 2021220796 A1</a>	SUMITOMO CHEMICAL CO	Positive electrode active material, positive electrode, lithium ion secondary battery, and method for producing positive electrode active material
<a href="#">WO 2021195808 A1</a>	NANJING BO SHI HUI CHUANG IND DEVELOPMENT CO LTD	Protective structure for high-performance battery pack
<a href="#">WO 2021200033 A1</a>	DENSO CORP	Voltage detection device
<a href="#">WO 2021213743 A1</a>	SOLVAY	Anode-less lithium battery
<a href="#">WO 2021215197 A1</a>	TOYODA GOSEI KK	Battery pack
<a href="#">WO 2021221018 A1</a>	MURATA MANUFACTURING CO	Secondary battery
<a href="#">WO 2021199720 A1</a>	PANASONIC IP MAN CO LTD	Laminated battery production method and laminated battery
<a href="#">WO 2021204842 A1</a>	ACCUMULATEURS FIXES	Electrochemical element for a battery and corresponding battery
<a href="#">WO 2021199489 A1</a>	SANYO ELECTRIC CO	Battery module, and electric vehicle and power storage device equipped with battery module
<a href="#">WO 2021201407 A1</a>	LS CABLE & SYSTEM LTD	Electric vehicle battery module frame
<a href="#">WO 2021200343 A1</a>	PANASONIC IP MAN CO LTD	Secondary battery

<a href="#">WO 2021204364 A1</a>	AC BIODE S A R L	Secondary battery pack, charger and discharger
<a href="#">WO 2021220994 A1</a>	TOYOTA JIDOSHOKKI KK	Power storage cell, power storage device, and method for manufacturing power storage device
<a href="#">WO 2021221297 A1</a>	LG ENERGY SOLUTION LTD	Battery pack and device including same
<a href="#">WO 2021201606 A1</a>	LG ENERGY SOLUTION LTD	Separator for lithium secondary battery, manufacturing method thereof, and lithium secondary battery comprising same
<a href="#">WO 2021198892 A1</a>	HFG	Method for manufacturing lithium-ion batteries
<a href="#">WO 2021210717 A1</a>	ENERTECH INT INC	Electric car battery pack having improved cooling performance
<a href="#">WO 2021218928 A1</a>	BYD CO LTD	Temperature control assembly and battery pack
<a href="#">WO 2021222662 A1</a>	SENSATA TECHNOLOGIES INC	Secure wireless protocol for wireless sensor networks
<a href="#">WO 2021218814 A1</a>	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Battery, apparatus, battery production method, and device
<a href="#">WO 2021222527 A1</a>	PIERSICA INC	Solid-state polymer separator for lithium-ion batteries
<a href="#">WO 2021200396 A1</a>	PANASONIC IP MAN CO LTD	Non-aqueous electrolyte secondary battery
<a href="#">WO 2021199485 A1</a>	MURATA MANUFACTURING CO	Secondary battery
<a href="#">WO 2021205749 A1</a>	JAPAN METALS AND CHEMICALS CO LTD	Hydrogen storage alloy for alkaline storage battery
<a href="#">WO 2021206099 A1</a>	MURATA MANUFACTURING CO	Solid-state battery
<a href="#">WO 2021210653 A1</a>	MURATA MANUFACTURING CO	Secondary cell and method for manufacturing same
<a href="#">WO 2021222743 A1</a>	ELECTRIC ERA TECH INC	Battery module
<a href="#">WO 2021205774 A1</a>	KUREHA CORP	Method for producing carbonaceous material for negative electrode of non-aqueous electrolyte secondary battery, method for producing electrode of non-aqueous electrolyte secondary battery, and method for producing non-aqueous electrolyte secondary battery
<a href="#">WO 2021206431 A1</a>	LG ENERGY SOLUTION LTD	Separator for electrochemical element and method for manufacturing same
<a href="#">WO 2021209961 A1</a>	DJINOVIC ZORAN	Battery block comprising battery cells and a fiber-optic sensing systems for the in situ monitoring of said battery cells
<a href="#">WO 2021221296 A1</a>	LG ENERGY SOLUTION LTD	Battery module and battery pack comprising same
<a href="#">WO 2021196028 A1</a>	NINGDE AMPEREX TECHNOLOGY LTD	Battery
<a href="#">WO 2021199626 A1</a>	FDK CORP	Battery voltage equalization apparatus
<a href="#">WO 2021196217 A1</a>	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Battery module, battery pack, device and failure processing method
<a href="#">WO 2021210021 A1</a>	TVS MOTOR CO LTD	Interconnecting structure for energy storage cells
<a href="#">WO 2021210284 A1</a>	HITACHI LTD	Lithium ion secondary battery
<a href="#">WO 2021210017 A1</a>	EXICOM TELE SYSTEMS LTD	Energy storage apparatus
<a href="#">WO 2021215403 A1</a>	OHARA KK	Lithium ion-conductive glass ceramic
<a href="#">WO 2021222500 A1</a>	GLOBAL GRAPHENE GROUP INC	A method of producing non-flammable quasi-solid electrolyte and a quasi-solid electrolyte/separator layer for use in a lithium battery
<a href="#">WO 2021220824 A1</a>	MITSUI MINING & SMELTING CO LTD	Hydrogen storage alloy
<a href="#">WO 2021221295 A1</a>	LG ENERGY SOLUTION LTD	Battery pack and device including same
<a href="#">WO 2021229956 A1</a>	PANASONIC IP MAN CO LTD	Nonaqueous magnesium battery
<a href="#">WO 2021239383 A1</a>	MARQUARDT GMBH	Method for operating a battery system
<a href="#">WO 2021239378 A1</a>	ZENTRUM FUER SONNENENERGIE UND WASSERSTOFF FORSCHUNG BADEN WUERTTEMBERG GEMEINNUETZIGE STIFTUNG	Propagation barrier for batteries
<a href="#">WO 2021249700 A1</a>	BAYERISCHE MOTOREN WERKE AG	Active cathode material for lithium-ion cells, and lithium-ion cell having high energy density
<a href="#">WO 2021229214 A1</a>	QDOT TECH LTD	Tab cooling for batteries



<a href="#">WO 2021196169 A1</a>	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Battery module, battery pack, and apparatus using battery as power source
<a href="#">WO 2021225396 A1</a>	LG ENERGY SOLUTION LTD	Cathode for secondary battery, manufacturing method therefor, and lithium secondary battery comprising same
<a href="#">WO 2021242831 A2</a>	WORCESTER POLYTECH INST	Facile etching for single crystal cathode materials
<a href="#">WO 2021239363 A1</a>	BAYERISCHE MOTOREN WERKE AG	Holding device for battery cells
<a href="#">WO 2021230537 A1</a>	LG ENERGY SOLUTION LTD	Apparatus and method for diagnosing state of battery
<a href="#">WO 2021229000 A1</a>	ANALOG DEVICES INT UNLIMITED COMPANY	Differential electrical impedance spectroscopy
<a href="#">WO 2021215660 A1</a>	LG ENERGY SOLUTION LTD	Battery module and battery pack including same
<a href="#">WO 2021225238 A1</a>	LG ENERGY SOLUTION LTD	Battery module having fire extinguishing unit
<a href="#">WO 2021230250 A1</a>	MURATA MANUFACTURING CO	Secondary battery and manufacturing method thereof
<a href="#">WO 2021249272 A1</a>	BYD CO LTD	Battery pack and electric vehicle
<a href="#">WO 2021201140 A1</a>	APB CORP	Lithium-ion battery system and battery state estimation system
<a href="#">WO 2021221597 A1</a>	IZMIR YUEKSEK TEKNOLOJI ENSTITUESUE REKTOERLUEGUE	Convection-based tab cooling methods for batteries
<a href="#">WO 2021228782 A1</a>	RENAULT SAS	Case for an electrochemical cell for a battery, electrochemical cell arrangement for a battery comprising such a case and method for manufacturing such a cell arrangement
<a href="#">WO 2021226969 A1</a>	NINGDE AMPEREX TECHNOLOGY LTD	Battery and electric apparatus having same
<a href="#">WO 2021217585 A1</a>	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Secondary battery, production method therefor, and device comprising same
<a href="#">WO 2021221350 A1</a>	MINTECH CO LTD	Battery electric flow test system and method
<a href="#">WO 2021225210 A1</a>	ENERTECH INT INC	Battery pack of which cooling device maintenance is convenient
<a href="#">WO 2021230639 A1</a>	LG ENERGY SOLUTION LTD	Charging depth configuration device and method
<a href="#">WO 2021228995 A1</a>	DYNASOL ELASTOMEROS S A U	Electrode for a lithium-ion battery and process for its preparation
<a href="#">WO 2021225203 A1</a>	ENERTECH INT INC	Sealed battery pack housing for electric vehicle
<a href="#">WO 2021230576 A1</a>	INU RES & BUSINESS FOUNDATION	Electrolyte for lithium secondary battery containing triethanolamine borate and lithium secondary battery comprising same
<a href="#">WO 2021230360 A1</a>	APB CORP	Lithium-ion battery
<a href="#">WO 2021230066 A1</a>	PANASONIC IP MAN CO LTD	Battery module, vehicle and production method for battery module
<a href="#">WO 2021240075 A1</a>	PSA AUTOMOBILES SA	Method for estimating the state of charge of an electric battery in particular for electrified vehicle charging energy management
<a href="#">WO 2021225248 A1</a>	LG ENERGY SOLUTION LTD	Method for manufacturing secondary battery having improved resistance
<a href="#">WO 2021226505 A1</a>	ZITARA TECH INC	Battery analysis system and method
<a href="#">WO 2021225202 A1</a>	ENERTECH INT INC	Parallel coupling-type battery pack for electric vehicle
<a href="#">WO 2021230206 A1</a>	MURATA MANUFACTURING CO	Secondary battery
<a href="#">WO 2021217586 A1</a>	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Secondary battery and method for preparing same, and device including secondary battery
<a href="#">WO 2021225237 A1</a>	LG ENERGY SOLUTION LTD	Battery module having fire extinguishing unit including extinguishing material
<a href="#">WO 2021226120 A1</a>	ZELOS ENERGY LTD	Space configurable battery structures for electrode assemblies incorporating ion exchange materials
<a href="#">WO 2021225831 A1</a>	SOELECT INC	Advanced solid electrolyte membranes and batteries made therefrom
<a href="#">WO 2021234092 A1</a>	ACCUMULATEURS FIXES	Electrochemical unit and corresponding manufacturing method and facility
<a href="#">WO 2021240802 A1</a>	NISSAN MOTOR	Terminal block
<a href="#">WO 2021251624 A1</a>	LG ENERGY SOLUTION LTD	Battery module and method for manufacturing same

<a href="#">WO 2021215691 A1</a>	LG ENERGY SOLUTION LTD	Battery module and manufacturing method therefor
<a href="#">WO 2021230547 A1</a>	LG ENERGY SOLUTION LTD	Electrode assembly having enhanced safety and lithium secondary battery comprising same
<a href="#">WO 2021229802 A1</a>	NIPPON TELEGRAPH & TELEPHONE	Method for producing carbon-coated lithium oxide and carbon-coated lithium oxide
<a href="#">WO 2021226705 A1</a>	HYDRO QUEBEC	System for cycling battery cells with pressure regulation
<a href="#">WO 2021208093 A1</a>	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Negative electrode plate, secondary battery, and device thereof
<a href="#">WO 2021221307 A1</a>	LG ENERGY SOLUTION LTD	Battery module and battery pack comprising same
<a href="#">WO 2021234106 A1</a>	ACCUMULATEURS FIXES	Electrochemical assembly, corresponding battery and method
<a href="#">WO 2021202588 A1</a>	SENSATA TECHNOLOGIES INC	Listening only wireless network controller in a wireless battery management system
<a href="#">WO 2021215662 A1</a>	LG ENERGY SOLUTION LTD	Battery module and battery pack including same
<a href="#">WO 2021214794 A1</a>	TVS MOTOR CO LTD	Battery module with a cell holder assembly
<a href="#">WO 2021230661 A1</a>	LG ENERGY SOLUTION LTD	Electrolyte for lithium secondary battery and lithium secondary battery comprising same
<a href="#">WO 2021234422 A1</a>	EDGE MOBILITY LTD	Battery pack
<a href="#">WO 2021217576 A1</a>	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Secondary battery, preparation method therefor and device comprising the secondary battery
<a href="#">WO 2021249934 A1</a>	VALEO SYSTEMES THERMIQUES	Device for the thermal management of an electric or hybrid motor vehicle comprising a heat-transfer fluid circuit
<a href="#">WO 2021251623 A1</a>	LG ENERGY SOLUTION LTD	Battery module and manufacturing method therefor
<a href="#">WO 2021237335 A1</a>	HYDRO QUEBEC	Electrochemical cells in the solid state, methods for preparing same and uses thereof
<a href="#">WO 2021246364 A1</a>	SHOWA DENKO KK	Nonaqueous secondary battery electrode binder and nonaqueous secondary battery electrode slurry
<a href="#">WO 2021251234 A1</a>	ADEKA CORP	Electrode and lithium ion secondary battery
<a href="#">WO 2021234501 A1</a>	SEMICONDUCTOR ENERGY LAB	Secondary battery and vehicle having secondary battery
<a href="#">WO 2021248986 A1</a>	BYD CO LTD	Battery pack and vehicle
<a href="#">WO 2021250437 A1</a>	NISSAN MOTOR	Secondary battery
<a href="#">WO 2021235816 A1</a>	LG ENERGY SOLUTION LTD	Method for manufacturing negative electrode
<a href="#">WO 2021241153 A1</a>	DENSO CORP	Battery monitoring device
<a href="#">WO 2021245027 A1</a>	BOSCH GMBH ROBERT	Battery having a locking element, and vehicle having a socket for the arrangement of the battery
<a href="#">WO 2021251434 A1</a>	MURATA MANUFACTURING CO	Solid-state battery
<a href="#">WO 2021235154 A1</a>	MURATA MANUFACTURING CO	Secondary battery
<a href="#">WO 2021238925 A1</a>	BYD CO LTD	Power battery heating method for electric automobile, device, and automobile
<a href="#">WO 2021241618 A1</a>	PANASONIC IP MAN CO LTD	Negative-electrode active material for secondary batteries, and secondary battery
<a href="#">WO 2021251408 A1</a>	SHOWA DENKO KK	Solid electrolyte material, solid electrolyte, solid electrolyte production method, and all-solid-state battery
<a href="#">WO 2021251407 A1</a>	SHOWA DENKO KK	Solid electrolyte material, solid electrolyte, solid electrolyte production method, and all-solid-state battery
<a href="#">WO 2021251410 A1</a>	SHOWA DENKO KK	Solid electrolyte material, solid electrolyte, solid electrolyte production method, and all-solid-state battery
<a href="#">WO 2021234424 A1</a>	NISSAN MOTOR	Recovery control method for secondary battery, recovery control system for secondary battery, and vehicle control system
<a href="#">WO 2021238859 A1</a>	BYD CO LTD	Lithium-ion battery, power battery module, battery pack, electric vehicle, and energy storage device
<a href="#">WO 2021238953 A1</a>	BEIJING WEILION NEW ENERGY TECH CO LTD	Anode piece for lithium battery having both high safety and high capacity, and preparation method and use therefor
<a href="#">WO 2021251121 A1</a>	MURATA MANUFACTURING CO	Secondary battery, electronic device, and electric tool
<a href="#">WO 2021252433 A1</a>	BATTERY RESOURCERS LLC	Anode recovery in recycled batteries
<a href="#">WO 2021241761 A1</a>	ASAHI CHEMICAL IND	Non-aqueous secondary battery and non-aqueous electrolyte
<a href="#">WO 2021251017 A1</a>	AWA PAPER & TECH COMPANY INC	Thermal insulation sheet, and power supply device provided with same

<a href="#">WO 2021241752 A1</a>	SHOWA DENKO KK	Titanium oxide-silicon composite and use of same
<a href="#">WO 2021241402 A1</a>	NIPPON SHEET GLASS CO LTD	Electrolyte sheet, solid-electrolyte-coated fiber, and lithium-ion battery
<a href="#">WO 2021245411 A1</a>	ECHION TECH LIMITED	Active electrode material
<a href="#">WO 2021252337 A1</a>	CMC MAT INC	Secondary battery cell with solid polymer electrolyte
<a href="#">WO 2021217628 A1</a>	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Secondary battery, preparation method therefor, and apparatus comprising secondary battery
<a href="#">WO 2021233965 A1</a>	THEION GMBH	Advanced monolithic sulphur wafer-like cathode based on hyper-branched super-structures and method of manufacture thereof
<a href="#">WO 2021238857 A1</a>	BYD CO LTD	Lithium-ion battery, power battery module, battery pack, electric vehicle, and energy storage device
<a href="#">WO 2021245028 A1</a>	BOSCH GMBH ROBERT	Battery module and use of a battery module of this kind
<a href="#">WO 2021226719 A1</a>	UNIV KINGSTON	Hydrometallurgical recycling of lithium-ion battery electrodes
<a href="#">WO 2021235505 A1</a>	MITSUBISHI CHEM CORP	Nonaqueous electrolytic solution and nonaqueous electrolytic solution battery
<a href="#">WO 2021241323 A1</a>	SUMITOMO WIRING SYSTEMS	Battery wiring module
<a href="#">WO 2021246608 A1</a>	LG ENERGY SOLUTION LTD	Pouch-type secondary battery having increased energy density, and method for manufacturing same
<a href="#">WO 2021246097 A1</a>	MURATA MANUFACTURING CO	Secondary cell
<a href="#">WO 2021246606 A1</a>	LG ENERGY SOLUTION LTD	Method for reusing active material using positive electrode scrap
<a href="#">WO 2021251405 A1</a>	SHOWA DENKO KK	Solid electrolyte material, solid electrolyte, production methods therefor, and all-solid-state battery
<a href="#">WO 2021250412 A1</a>	JOHNSON MATTHEY PLC	Process for manufacturing doped lithium titanate
<a href="#">WO 2021236982 A1</a>	ZELOS ENERGY LTD	Air electrode assemblies incorporating ion exchange materials
<a href="#">WO 2021235189 A1</a>	AWA PAPER & TECH COMPANY INC	Thermal insulation sheet
<a href="#">WO 2021232288 A1</a>	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Secondary battery and preparation method therefor, and device containing secondary battery
<a href="#">WO 2021241423 A1</a>	MAXELL LTD	Negative electrode for all-solid-state secondary cell, method for manufacturing same, and all-solid-state secondary cell
<a href="#">WO 2021241429 A1</a>	MURATA MANUFACTURING CO	Solid-state battery
<a href="#">WO 2021235794 A1</a>	LG ENERGY SOLUTION LTD	Secondary battery
<a href="#">WO 2021251406 A1</a>	SHOWA DENKO KK	Solid electrolyte material, solid electrolyte, solid electrolyte production method, and all-solid-state battery
<a href="#">WO 2021241001 A1</a>	PANASONIC IP MAN CO LTD	Battery
<a href="#">WO 2021241959 A1</a>	LG ENERGY SOLUTION LTD	Free-standing film-type positive electrode material for lithium secondary battery, method for manufacturing same, and lithium secondary battery comprising same
<a href="#">WO 2021247736 A1</a>	UNIV ARIZONA STATE	Fire-proof lithium-ion battery
<a href="#">WO 2021243583 A1</a>	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Electrode assembly and related battery, device, manufacturing method, and manufacturing device
<a href="#">WO 2021248903 A1</a>	UNIV XIAMEN	High-temperature-resistant lithium ion battery system and charging and discharging method therefor
<a href="#">WO 2021235692 A1</a>	LG ENERGY SOLUTION LTD	Battery pack
<a href="#">WO 2021235401 A1</a>	MURATA MANUFACTURING CO	Solid electrolyte ceramic material, and solid battery
<a href="#">WO 2021241637 A1</a>	APB CORP	Single cell unit
<a href="#">WO 2021238103 A1</a>	BYD CO LTD	Battery energy processing device and method, and vehicle
<a href="#">WO 2021244810 A1</a>	BAYERISCHE MOTOREN WERKE AG	Air-conditioning system for an electrically driveable motor vehicle, motor vehicle and method for operating an air-conditioning system
<a href="#">WO 2021233084 A1</a>	NINGDE AMPEREX TECHNOLOGY LTD	Battery cell, battery using same, and electronic device
<a href="#">WO 2021246756 A1</a>	GFI CO LTD	Fire extinguisher for secondary battery and battery pack comprising same
<a href="#">WO 2021251409 A1</a>	SHOWA DENKO KK	Solid electrolyte material, solid electrolyte, solid electrolyte production method, and all-solid-state battery
<a href="#">WO 2021235783 A1</a>	LG ENERGY SOLUTION LTD	Battery module, battery pack comprising same, and vehicle



<a href="#">WO 2021245698 A1</a>	OLA ELECTRIC MOBILITY PRIVATE LTD	Offline authentication of batteries
<a href="#">WO 2021246215 A1</a>	NIPPON CHEMICAL IND	Positive electrode active material for lithium secondary batteries, method for producing same, and lithium secondary battery
<a href="#">WO 2021251670 A1</a>	LG ENERGY SOLUTION LTD	Battery pack having battery modules stacked into multiple layers
<a href="#">WO 2021238952 A1</a>	BEIJING WEILION NEW ENERGY TECH CO LTD	Anode piece, and preparation method and use therefor in semi-solid state battery
<a href="#">WO 2021245382 A1</a>	UNIV COURT UNIV OF EDINBURGH	Group 15 metal halide salt electrodes
<a href="#">WO 2021246376 A1</a>	SHOWA DENKO KK	Binder for non-aqueous secondary battery electrode and slurry for non-aqueous secondary battery electrode
<a href="#">WO 2021217635 A1</a>	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Secondary battery and method for preparing same, and device including secondary battery
<a href="#">WO 2021223181 A1</a>	NINGDE AMPEREX TECHNOLOGY LTD	Electrolyte and electrochemical device
<a href="#">WO 2021241750 A1</a>	SHOWA DENKO KK	Composite particles, negative electrode material, and lithium ion secondary battery
<a href="#">WO 2021238858 A1</a>	BYD CO LTD	Lithium ion battery, power battery module, battery pack, electric vehicle, and energy storage apparatus
<a href="#">WO 2021251411 A1</a>	SHOWA DENKO KK	Lithium ion-conductive solid electrolyte and all-solid-state battery
<a href="#">WO 2021241651 A1</a>	NTT COMM CORP	Manufactured object information management device, method, and program
<a href="#">WO 2021241817 A1</a>	LG ENERGY SOLUTION LTD	Method for reusing active material by using positive electrode scrap
<a href="#">WO 2021241886 A1</a>	LG ENERGY SOLUTION LTD	Battery management system, battery pack, and electronic vehicle and battery management method
<a href="#">WO 2021241818 A1</a>	LG ENERGY SOLUTION LTD	Active material reuse method using cathode scrap
<a href="#">WO 2021252435 A1</a>	CORNING INC	Modified cathode for high-voltage lithium-ion battery and methods of manufacturing thereof
<a href="#">WO 2021241820 A1</a>	LG ENERGY SOLUTION LTD	Heat sink
<a href="#">WO 2021221596 A2</a>	IZMIR YUEKSEK TEKNOLOJİ ENSTITUESUE REKTOERLUEGUE	Conduction-based tab cooling methods for batteries
<a href="#">WO 2021241924 A1</a>	LG ENERGY SOLUTION LTD	Secondary battery and method for manufacturing same
<a href="#">WO 2021246599 A1</a>	LG ENERGY SOLUTION LTD	Battery cell pressure measuring apparatus and method
<a href="#">WO 2021241835 A1</a>	LG ENERGY SOLUTION LTD	Method for reusing active material using positive electrode scrap
<a href="#">WO 2021246225 A1</a>	DENSO CORP	Electric leakage detection device
<a href="#">WO 2021245164 A1</a>	ANALOG DEVICES INT UNLIMITED COMPANY	Wireless bms host time synchronization mechanism
<a href="#">WO 2021246657 A1</a>	LG ENERGY SOLUTION LTD	Battery pack having coolant circulation route in pack case

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## SUPERCONDENSADORES

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
<a href="#">WO 2021201293 A1</a>	DAINIPPON PRINTING CO LTD	Outer packaging for electrical storage devices, method for manufacturing said outer packaging, and electrical storage device
<a href="#">WO 2021210318 A1</a>	ASAHI CHEMICAL IND	Composite single-layer chemically cross-linked separator
<a href="#">WO 2021210317 A1</a>	ASAHI CHEMICAL IND	Composite-type stacked chemically-crosslinked separator
<a href="#">WO 2021201199 A1</a>	NATIONAL UNIV CORPORATION TOKAI NATIONAL HIGHER EDUCATION AND RESEARCH SYSTEM	Power storage device and electrode for power storage device
<a href="#">WO 2021210603 A1</a>	FUJIFILM CORP	Non-aqueous electrolyte secondary battery binder composition, electrode composition, electrode sheet, non-aqueous electrolyte secondary battery, production method for electrode sheet, and production method for secondary battery
<a href="#">WO 2021223968 A1</a>	SEW EURODRIVE GMBH & CO	Electric vehicle and method for operating an electric vehicle
<a href="#">WO 2021235357 A1</a>	DAIKIN IND LTD	Electrolyte solution, electrochemical device, lithium ion secondary battery and module
<a href="#">WO 2021242833 A1</a>	DELTRAN OPERATIONS USA INC	Battery management system for batteries in engine start and deep cycle applications
<a href="#">WO 2021247313 A1</a>	AVX CORP	System and method for monitoring one or more characteristics of an ultracapacitor

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## SISTEMAS DE RECUPERACIÓN DE ENERGÍA; FRENOS REGENERATIVOS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
<a href="#">WO 2021220694 A1</a>	MITSUBISHI MOTORS CORP	Vehicle braking device

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## MÁQUINAS ELÉCTRICAS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
<a href="#">WO 2021219292 A1</a>	AUDI AG	Method and controller for operating a drive train of an electrically driven motor vehicle
<a href="#">WO 2021201983 A1</a>	CUMMINS INC	Pole switching in multi-phase machines
<a href="#">WO 2021204328 A1</a>	SCHAEFFLER TECHNOLOGIES AG	Coil component comprising a closure element with a trough-shaped recess for receiving an insulation layer; and electric machine
<a href="#">WO 2021209290 A1</a>	VALEO EQUIP ELECTR MOTEUR	Electric assembly with cooling circuit
<a href="#">WO 2021205708 A1</a>	HITACHI ASTEMO LTD	Stator of rotating electrical machine
<a href="#">WO 2021200459 A1</a>	HITACHI ASTEMO LTD	Electric brake device and electric brake control device
<a href="#">WO 2021209285 A1</a>	RENAULT SAS	System for oil cooling an electric motor
<a href="#">WO 2021222940 A1</a>	ALLISON TRANSM INC	Clutch configurations for a multiple motor mixed-speed continuous power transmission
<a href="#">WO 2021239734 A1</a>	SOLVAY	New solid sulfide electrolytes
<a href="#">WO 2021229865 A1</a>	HITACHI ASTEMO LTD	Electric motor stator and electric motor stator manufacturing method
<a href="#">WO 2021225902 A1</a>	TESLA INC	Permanent magnet motor with wrapping
<a href="#">WO 2021232043 A1</a>	ATIEVA INC	Motor cooling system utilizing axial coolant channels
<a href="#">WO 2021232042 A1</a>	ATIEVA INC	Motor cooling system utilizing axial coolant channels
<a href="#">WO 2021232044 A1</a>	ATIEVA INC	Stator-integrated manifold assembly to supply coolant to axial coolant channels
<a href="#">WO 2021234425 A1</a>	NISSAN MOTOR	Drive unit for series hybrid vehicle
<a href="#">WO 2021236565 A1</a>	MAGNA INT INC	Cooling system for electric motors
<a href="#">WO 2021242404 A1</a>	EXXONMOBIL RES & ENG CO	Liquid coolants with dissolved gas for electric systems
<a href="#">WO 2021241744 A1</a>	HONDA MOTOR CO LTD	Information processing device, information processing system, information processing method, program, and storage medium
<a href="#">WO 2021246411 A1</a>	TOYOTA MOTOR CO LTD	Motor
<a href="#">WO 2021244704 A1</a>	SCHAEFFLER TECHNOLOGIES AG	Electric machine with housing-side attachment for a stator
<a href="#">WO 2021245079 A1</a>	VALEO SYSTEMES THERMIQUES	Motor rotor, in particular for a fan motor of a motor vehicle heating, ventilation and/or air conditioning system
<a href="#">WO 2021251201 A1</a>	MITSUBISHI MOTORS CORP	Electric vehicle control device
<a href="#">WO 2021251299 A1</a>	NTN TOYO BEARING CO LTD	Vehicle power device and wheel bearing with generator
<a href="#">WO 2021245568 A1</a>	RICCIARDI FRANCESCO	Permanent magnet electric machine with multiple coaxial rotors

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## CONVERTIDORES, INVERSORES

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
<a href="#">WO 2021199803 A1</a>	DENSO CORP	Power conversion device
<a href="#">WO 2021222162 A1</a>	BAE SYS CONTROLS INC	Independent ground fault detection using current transformer
<a href="#">WO 2021219761 A1</a>	PRODRIVE TECH BV	Electrical power converter
<a href="#">WO 2021196309 A1</a>	HUAWEI TECH CO LTD	Bidirectional energy transmission apparatus, on-board charger, and electric vehicle
<a href="#">WO 2021210232 A1</a>	HITACHI ASTEMO LTD	Motor control device, electromechanical unit, electric vehicle system, and motor control method
<a href="#">WO 2021199954 A1</a>	DENSO CORP	Power conversion device
<a href="#">WO 2021205710 A1</a>	HITACHI ASTEMO LTD	Motor control device, electric vehicle, and motor control method
<a href="#">WO 2021206211 A1</a>	SCALAR DATA CO LTD	Charging adaptor that is compatible with can-plc data communication
<a href="#">WO 2021205586 A1</a>	MITSUBISHI ELECTRIC CORP	Power conversion device
<a href="#">WO 2021211635 A1</a>	TAE TECH INC	Modular cascaded energy systems with a cooling apparatus and with replaceable energy source capability
<a href="#">WO 2021195692 A1</a>	UNIV SYDNEY	A bi-directional ac-dc power converter – inverter
<a href="#">WO 2021209152 A1</a>	HUAWEI TECH CO LTD	DC-to-DC converter with freewheeling circuits
<a href="#">WO 2021213676 A1</a>	HUAWEI TECH CO LTD	Bridgeless single-phase PFC multi-level totem-pole power converter
<a href="#">WO 2021199804 A1</a>	DENSO CORP	Power conversion device
<a href="#">WO 2021205709 A1</a>	HITACHI ASTEMO LTD	Inverter control device and electric vehicle system
<a href="#">WO 2021210306 A1</a>	DENSO CORP	Power conversion device
<a href="#">WO 2021199805 A1</a>	DENSO CORP	Current detection device
<a href="#">WO 2021201057 A1</a>	HITACHI POWER SOLUTIONS CO LTD	Power supply system, driving device, and electrically-driven moving body system
<a href="#">WO 2021197991 A1</a>	VITESCO TECH GMBH	High-voltage charging circuit in a vehicle, and on-board vehicle electrical system
<a href="#">WO 2021233028 A1</a>	NINGBO GEELY AUTOMOBILE RES & DEVELOPMENT CO LTD	A vehicle power supply system
<a href="#">WO 2021225072 A1</a>	HITACHI LTD	Power conversion device
<a href="#">WO 2021231759 A1</a>	TAE TECH INC	Systems, devices, and methods for rail-based and other electric vehicles with modular cascaded energy systems
<a href="#">WO 2021235003 A1</a>	HITACHI ASTEMO LTD	Motor control device and motor control method
<a href="#">WO 2021234493 A1</a>	TORINO POLITECNICO	Method and system for characterizing junction temperatures of power diodes of a voltage source inverter
<a href="#">WO 2021229908 A1</a>	HITACHI ASTEMO LTD	Filter device and power conversion device
<a href="#">WO 2021252911 A1</a>	UNIV TEXAS	Highly efficient isolated bidirectional DC/AC topologies
<a href="#">WO 2021205040 A1</a>	PRODRIVE TECH INNOVATION SERVICES B V	Electrical power converter
<a href="#">WO 2021250254 A1</a>	VALEO SYSTEMES DE CONTROLE MOTEUR	DC/DC voltage converter with precharging device
<a href="#">WO 2021236367 A1</a>	MAREL POWER SOLUTIONS INC	Compact inverter system
<a href="#">WO 2021211630 A2</a>	TAE TECH INC	Systems, devices, and methods for charging and discharging module-based cascaded energy systems
<a href="#">WO 2021247278 A1</a>	UNIV TENNESSEE RES FOUND	Integrated on-board charger and auxiliary power module using a triple active bridge for electric vehicles
<a href="#">WO 2021244899 A1</a>	BOSCH GMBH ROBERT	Method and device for charging an intermediate circuit capacitor in a high-voltage network
<a href="#">WO 2021235485 A1</a>	MITSUBISHI ELECTRIC CORP	Power conversion apparatus and method for manufacturing power conversion apparatus
<a href="#">WO 2021245800 A1</a>	MITSUBISHI ELECTRIC CORP	Electric vehicle control device
<a href="#">WO 2021251273 A1</a>	DENSO CORP	Rotating machine control device

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## RECARGA DE BATERÍAS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
<a href="#">WO 2021220921 A1</a>	MITSUBISHI MOTORS CORP	Vehicle state display device and vehicle state display method
<a href="#">WO 2021198287 A1</a>	JOLT ENERGY GROUP	Charging station
<a href="#">WO 2021218866 A1</a>	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	Battery module, fabrication method therefor and device thereof, battery pack and apparatus
<a href="#">WO 2021197495 A1</a>	AULTON NEW ENERGY AUTOM TECH GROUP	Charging device, charging assembly, and battery replacement station
<a href="#">WO 2021219809 A1</a>	DIPP R AB	A power supply system for an electric vehicle and a cargo box
<a href="#">WO 2021204519 A1</a>	RICHTER R & W STEUERUNGSTECHNIK GMBH	DC-to-DC converter device and control/regulating system for a power grid
<a href="#">WO 2021251863 A1</a>	SCANIA CV AB	An apparatus for the electrical charging of an electrical battery unit of a vehicle
<a href="#">WO 2021235691 A1</a>	STARKOFF CO LTD	Electric vehicle charging plug
<a href="#">WO 2021240857 A1</a>	PANASONIC IP CORP AMERICA	Electric cart use management device, use management system, program, and electric cart use management method
<a href="#">WO 2021250072 A1</a>	PHOENIX CONTACT E MOBILITY GMBH	Automatic charging device for conductively charging battery-electric vehicles
<a href="#">WO 2021246667 A1</a>	LG ENERGY SOLUTION LTD	Wireless charging system, wireless charging method, and electric vehicle
<a href="#">WO 2021241831 A1</a>	UNIV NAT HANBAT IND ACAD COOP FOUND	OBC- and LDC-combination-integrated power converting circuit for electric vehicle
<a href="#">WO 2021246568 A1</a>	BASMANTECHNOLOGY CO LTD	Independent connection adapter for connecting to shared slow charger for electric vehicles

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## CAMBIO DE BATERÍAS

Nº PUBLICACIÓN	SOLICITANTE	CONTENIDO TÉCNICO
<a href="#">WO 2021197494 A1</a>	AULTON NEW ENERGY AUTOM TECH GROUP	Battery swapping station
<a href="#">WO 2021197497 A1</a>	AULTON NEW ENERGY AUTOM TECH GROUP	Battery swapping method
<a href="#">WO 2021197498 A1</a>	AULTON NEW ENERGY AUTOM TECH GROUP	Battery swapping device, battery swapping station and battery swapping method
<a href="#">WO 2021228265 A1</a>	AULTON NEW ENERGY AUTOM TECH GROUP	Battery swapping method for battery swapping station
<a href="#">WO 2021228261 A1</a>	AULTON NEW ENERGY AUTOM TECH GROUP	Battery swapping control method for battery swapping device, and battery swapping device

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**LANZAMIENTO**



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



**EJECUCIÓN**



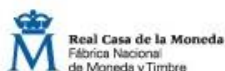
Los ITPs\*\* de la OEPM detectaron solicitudes de patente relevantes cuando estábamos a mitad del proyecto y gracias a ello pudimos reconducir nuestra investigación.



**CONCLUSIÓN**



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