

NIPO: 116-19-020-3



La Oficina Española de Patentes y Marcas tiene como misión impulsar la innovación y compartir sus resultados como valores y activos de diferenciación y desarrollo tecnológico. Por ello sus dos objetivos principales son proteger la innovación tramitando distintos títulos de propiedad industrial y difundir la información técnica contenida en las patentes a través de sus servicios de Información Tecnológica, uno de ellos estos Boletines.

En esta nueva andadura del Boletín de Vigilancia Tecnológica del Sector Transformador Plástico que comenzó el primer trimestre de 2021, se ha reestructurado el contenido del Boletín, intentando reflejar la realidad en propiedad industrial de la Industria del Plástico para hacer llegar a las empresas e investigadores del sector, con periodicidad trimestral, una selección de las patentes más recientemente publicadas en el sector de transformación de los materiales plásticos. Las patentes aparecen clasificadas en los siguientes apartados: nuevos productos en los principales sectores de aplicación, invenciones que

contribuyen al desarrollo sostenible, mejoras de procesos productivos y nuevos materiales plásticos con propiedades avanzadas. No se ha incluido en este Boletín información sobre la tecnología de impresión 3D, ya que ésta aparece recogida en el boletín de Vigilancia Tecnológica Impresión 3D que la OEPM comenzó a publicar en el 2020

A través de las imágenes que representan cada sección y que aparecen en la portada del Boletín, se accede de forma directa a los contenidos de las mismas, donde encontraremos el número de publicación de cada patente, quien la solicita, una pequeña descripción de la invención y el enlace de acceso al texto completo del documento. De forma complementaria, se incluye una selección de noticias sobre propiedad industrial y actividades relevantes de la OEPM.

Si se desea recibir este Boletín periódicamente basta con cumplimentar el correspondiente [formulario de suscripción](#)

Contenido

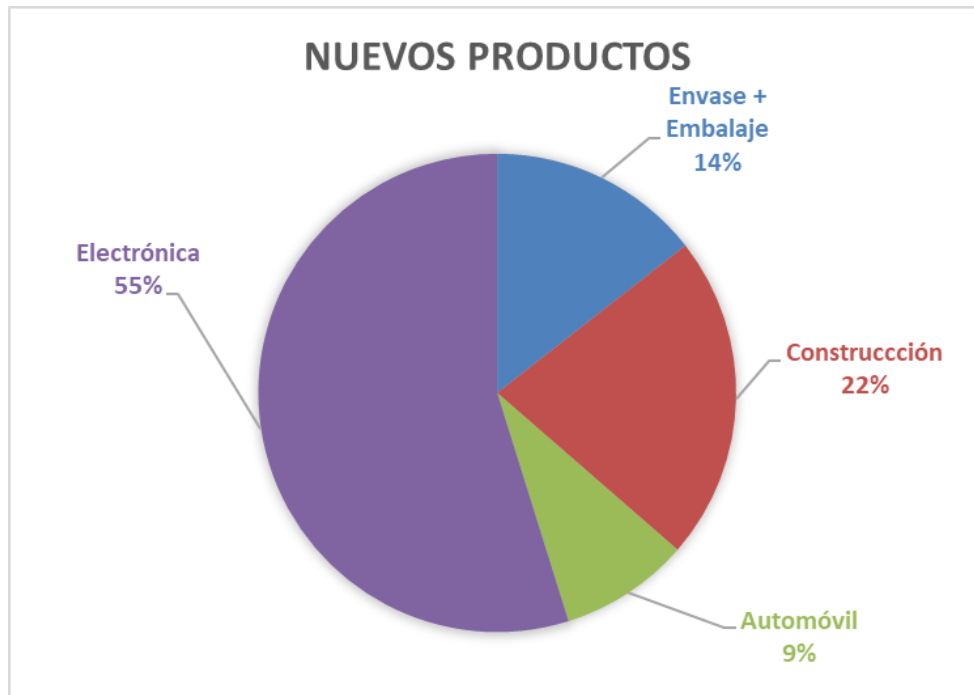


NUEVOS PRODUCTOS

SOSTENIBILIDAD Y
ECONOMÍA CIRCULARNUEVOS PROCESOS
INDUSTRIALESMATERIALES CON
PROPIEDADES AVANZADAS
O MEJORADAS

NUEVOS PRODUCTOS

En el siguiente gráfico se muestra la distribución de las 16.807 familias de documentos de patente recuperadas en este trimestre en el apartado de Nuevos Productos. Tal y como viene ocurriendo, el sector dedicado a la electrónica sigue siendo el que más documentos de patente aporta.



Las siguientes tablas muestran una selección de los documentos más representativos, junto con un enlace directo a la base de datos Espacenet, el solicitante y una breve descripción de la invención.

Envase y Embalaje

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
US2023181420	(HOFF) HOFFMANN LA ROCHE & CO AG F (HOFF) HOFFMANN LA ROCHE INC	Adapter for connecting prefilled syringe to E.G. glass bottles, for delivering liquid pharmaceutical substances to patient, has body portion provided with container end and dispenser end opposite to container end
WO2023081459	(ILLT) ILLINOIS TOOL WORKS INC	Container carrier for unitizing multiple containers, has first engagement unit that is configured to engage can, second engagement unit is configured to engage bottle, and engagement units are generally superimposed upon each other

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
TR202014282	(GREI-N) GREINER AMBALAJ SANAYI & TICARET AS	Anti bacterial and anti viral food packaging for use in food industry, has sheet that is shaped by thermoforming technique and by containing aluminum silicate powder, quaternary ammonium component and polypropylene homogeneously dispersed on film on plastic
US2023174280	(TEKN-N) TEKNI-PLEX INC	Tamper-evident and re-closable container E.G. clamshell container, for E.G. bakery counter use in E.G. sandwich shops, has tamper-evident hinged element provided with mating flanges, and ring tab grasped by user to enable user to pull lid from base and break frangible connecting portions
US11661237	(FORM-N) FORMALL INC	Pallet E.G. wooden pallet, for transporting exercise equipment, has formed barbell portion including hexagonal portion that is shaped to removably secure one of hex or trap barbell to-be transported on pallet within formed barbell portion of pallet body
US2023114078	(TOYT) TOYOTA MOTOR ENG & MFG NORTH AMERICA INC	Actuatable container for vehicle, has first electrode panel and second electrode panel are each foldable along multiple fold regions to permit first electrode panel and second electrode panel to move between first form and second form
WO2023049995	(ONET-N) 1368576 B C LTD	Multi-functional sport kit box for carrying and storing E.G. shoes, has lid for closing tub, and slot provided on opposing sides of tub, where each slot is shaped to engage with opening of lid
WO2023055789	(PORE-N) POREX CLEANROOM PROD INC	System for cleaning controlled and regulated equipment I.E. isolator equipment, has tool head frame shaped to reach and clean hard-to-access hardware obstacles within controlled and regulated equipment
JP2023071221	(NIPQ) DAINIPPON PRINTING CO LTD	Oxygen-absorbing laminate used for producing packaging material, comprises substrate layer, inorganic oxygen barrier layer containing metal oxide, oxygen-absorbing adhesive layer formed from oxygen-absorbing adhesive composition, shielding resin layer and sealant layer
CA3182653	(REAM) DREAMWELL LTD	Compressed mattress assembly package for bed in box application, has compressed mattress assembly that is provided with first height when compressed and second height when decompressed, where second height is greater than first height
US2017253409	(PHAS-N) PHASE CHANGE ENERGY SOLUTIONS INC	Product transport container for maintaining temperature of E.G. food, has walls defining interior volume, where openable side permits movement of product out of container volume, and walls are formed from thermoformed non-woven fabric

Construcción

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
ES2942062	(ORTE-I) VAZQUEZ ORTEGA J V	Method for coating wooden profile for aluminum or PVC windows by chemical treatment, involves arranging profile in molding zone, and covering profile with PVC foil, paper or desired material treated with low emission adhesive
ES2938788	(ESCO-I) GONZALEZ ESCOBAR M	External glass window cleaning system for temperature controlling facades of glass or curtain wall in building, has blind or double skin protecting glazed surface and metal profiles that make up glass building, light facades or curtain wall
DE102021128608	(ELRA-N) ELRAM BAUBESCHLAEGE GMBH	Device for fastening hinge strips in Euro fitting groove of plastic door and window casement profiles with metal fitting groove insert I.E. wing connection, has metal fitting groove insert fixed with sliding block, where blocking body of sliding block is lengthened with strip
DE102021132878	(VEKA-N) VEKA AG	Frame profile arrangement for window or door frames of building, has aluminum cover fastened or latched or glued to carrier profile and provided with latching lug or positioning lug which holds aluminum cover in latching or positioning manner in receiving groove of carrier profile
EP4174272	(VEKA-N) VEKA AG	Composite profile for producing frame for window of building, has inner reinforcement that is fastened to inner side of inner wall facing profile interior or to inner web of hollow plastic profile spaced from inner wall by coextrusion, where inner wall faces interior of building in intended use
ES1297899	(CAJA-N) CAJASLANT GRUPO SLU	Pre-frame for windows in buildings, has small eyelet projections provided in interior corners to allow fixing of screws and anchors, steel profiles of rectangular section and variable size adapted to interior compartments of profiles
JP7297139	(KUBO-N) KUBOTA-CHEMIX CO LTD	Inspection method for water cut-off performance of outer layer component in resin-made drain collecting pipe installed in through-hole of floor slab of E.G. office building, involves determining that water stopping property is good by confirming that no intrusion of water occurs from upper end
EP4177529	(ALTE-N) ALTECNIC LTD	Dry trap tundish for preventing backflow of fluid through E.G. discharge pipe of expansion valve, has valve element, biasing element and support structure that are fully located below dividing element

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
KR102528341	(PARK-I) PARK J H	Method for constructing precast concrete column with water drain pipe, involves forming protruding balls on wire of steel wire-shaped scrapers to reinforce bearing capacity and elasticity during cleaning
KR102528168	(HANY-N) HANYANG TOTAL ELECTRICAL E & C CO LTD	Automatic fire-fighting water supply system using electrical device for use in flat house, has buffer sheet adhered between main supply pipe and wall surface, where surface of adherend is spray-coated with surface coating agent
EP4173952	(DIEH) DIEHL AVIATION GILCHING GMBH	Water supply system for aircraft, has water pipes that are formed as flexible hose made of plastic, and feed pump is configured to feed water from water reservoir into water pipes at predetermined pressure and flow rate
DE102021126951	(BRAN-N) BRANDENBURGER LINER GMBH & CO	Lining pipe for rehabilitation of defective sewer pipe, has fiber band for comprising elongation-limiting means which causes plastic elongation of sliver in elongation range in longitudinal direction when value set by elongation-limiting means actively limits certain expansion limit value
WO2023119130	(SABI) SABIC GLOBAL TECHNOLOGIES BV	Multiwall sheet for use in glazing, industrial, structural and thermal insulation applications, has resonator extended along z-axis, where resonator is provided with portion that is extended in y-axis direction from upper wall into cavity
WO2023079349	(CHAP-I) VALDERRAMA CHAPARRO M	Intelligent insulating building partition for insulating outdoor and indoor rooms, refrigeration rooms and vehicles, has microprocessor with instructions that are automatic or digitally modified, remotely by voice, such that components act in real time, according to environmental changes
ES1299552	(JUNT-N) JUNTA DE EXTREMADURA	Enclosure for building facades, has vertical garden located on ventilated facade with ecological thermal insulation, where ventilated facade is provided with conventional closing sheet, and air chamber
WO2023080770	(PARP-I) PARPALAC N	Method of thermal insulation and protection of walls from atmospheric factors, involves applying polymer paste with marble filler to protect surface from penetration of low temperatures and moisture at joints, between seams after laying and fixing all plates on wall
FR3129964	(LOCA-N) LOCABRI	Roof for removable modular structure for E.G. warehouse to constitute shelters, has upper fabric and lower fabric being independent of one other, and thermal insulating layer positioned between upper fabric and lower fabric

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
EP4187035	(EMPA-N) EMPA EIDGENOESSISCHE MATERIALPRUEFUNGS	Translucent insulating glass brick for use in glass wall of building, has two spacers that are fixed inside cavity which are formed as inhibiting spacer preferably from transparent or translucent plastic material
WO2023077551	(ZAOZ-N) ZAOZHUANG BAOWU ELECTROMECHANICAL TECHNO	High thermal insulation vacuum toughened flat glass partition useful in building house, has high thermal insulation vacuum toughened flat glass partition with rubber pad combination of interval comprising upper LOW-E toughened flat glass
WO2023062991	(NIPA) NIPPON PAINT IND COATINGS CO LTD	Producing coating film for road marking and/or for road heat insulation, involves applying coating composition to object to be coated, coating another coating composition on coating film in which coating films are laminated, and curing laminated coating film to form coating film
ES2935306	(LAMB-N) LAMBDA AL CUADRADO SL	Insulating panel used as construction product, is obtained by mixing crushed dried dead aquatic plants or algae with vegetable-derived biodegradable binder and aqueous organic acid solution, compressing, and drying
US2021156150	(BMAT) BMIC LLC (BMAT) BUILDING MATERIALS INVESTMENT CORP	Roofing panel structure for use in building, has each roofing panel whose water shedding feature portion is cooperated with corresponding water shedding feature portion of adjacent roofing panel to reduce migration of water between roofing panel and adjacent roofing panel
ES1297961	(YEBO-I) DE HARO YEBOLES A	Photovoltaic structure for E.G. flat roofs of residential buildings, has PVC tubes for floating in event that tanks fail, located in parallel, and arranged on set of structures or cells to north-south direction

Automoción

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
US2023192195	(GENK) GM GLOBAL TECHNOLOGY OPERATIONS INC	Roof for vehicle upper body structure, has body extending between first side and second side and extending between front end and back end, where body comprises polymer and set of fibers, and front end is coupled to header
CA3182486	(ARIA-N) ARIANEGROUP GMBH	System for connecting fuel tank using lines, has tank wall formed with material, and counterpart formed with material positioned on interior side of tank and connected with connector with two fastening elements

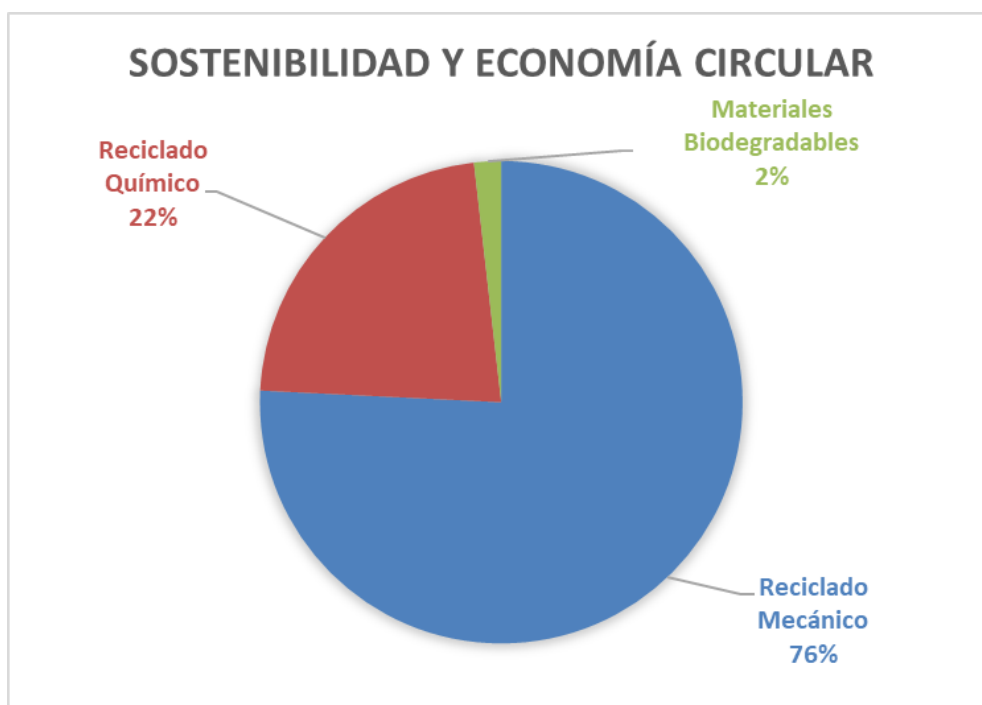
Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
DE102022004768	(DAIM) MERCEDES-BENZ GROUP AG	Lattice frame-based center console for storing items in E.G. passenger car, has structural frame for defining hollow recess in console body to accommodate items for storage, where recess includes partition for dividing hollow recess into front and rear side storage compartments
US2023138894	(KMAR-N) K-MARINE CO LTD	Lifting fan for compressing air used in E.G. hovercraft, in military use, has blowing passage formed with inclination between upper shroud, lower shroud and set of blowing blades, and air outlet part formed on outer side of upper shroud, outer side of lower shroud and at distal ends of set of blades
DE102022206885	(HYMR) HYUNDAI MOTOR CO LTD (KIAK) KIA CORP	Front body structure for vehicle, has reinforcement section attached between inner cabin part and outer cabin part, where inner and outer cabin parts and reinforcement section are provided with carbon fiber reinforced plastic material
KR20230075674	(HWAS-N) HWASHIN CO	Sub-frame for vehicle I.E. passenger car, has frame portion molded from composite material, cover part coupled to frame part, and bush portion mounted on frame portion and coupled to vehicle frame, where frame portion is provided with side frame parts
DE102022119395	(ZAHF) ZF ACTIVE SAFETY GMBH	Brake actuator unit for use in electromechanical brake I.E. vehicle brake of vehicle I.E. land-based vehicle such as motor vehicle, has spindle bearing comprising spherical bearing contact surface which absorbs axial reaction forces of spindle, when brake is actuated
US2023135535	(VOLV) VOLVO TRUCK CORP	Foldable front step for E.G. lorries, has rear panel element provided with standing surface on first side on which user can stand when front step is in open position, and beam elements extended in length extension between first and the second hinge receiving sections and outside receiving sections
EP4173930	(KOEK-N) KOEGEL TRAILER GMBH	Vehicle chassis of refrigerated vehicle, has lower cover layer of insulating floor that is profiled molded portion formed from plastic film and glass-fiber-reinforced plastic material pressed with plastic film
CA3178505	(ROEC) ROSEMOUNT AEROSPACE INC	Wiper blade for use on windscreen of aircraft, has wash tube for extending through central portion of support unit, and set of nozzles spaced along length of support unit, where wash tube is fluidly coupled to nozzles

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
DE102021126606	(BAYM) BAYERISCHE MOTOREN WERKE AG	Vehicle frame for E.G. tilting vehicle, has frame element for absorbing and transmitting load acting on vehicle frame, and electrical contact unit designed as single-piece component in frame element and undetachably fixed to frame element by casting with resin and/or by foaming with foaming agent
FR3128191	(DELE-I) DELETANG N (DELE-I) DELETANG P	Protective device for E.G. motorcycle for motorcycle school, has pairs of metal fittings configured to be fixed on either side of motorized two-wheeled vehicle at level of handlebar, engine block, footrests, saddle and fork
WO2023058071	(BAWE-N) BAWER SPA	Plastic support for binding toolbox to frame of heavy vehicle, has flat rectangular- section portion which gradually tapers until coupling with second portion, where latter being of smaller section and elongated shape

VOLVER A
CONTENIDO

SOSTENIBILIDAD Y ECONOMÍA CIRCULAR

En el siguiente gráfico se muestra la distribución de las 1.102 familias de documentos de patente recuperadas en este trimestre en el apartado de Sostenibilidad y Economía Circular. El reciclado mecánico sigue siendo el sector que mayor actividad innovadora presenta.



Las siguientes tablas muestran una selección de los documentos más representativos, junto con un enlace directo a la base de datos Espacenet, el solicitante y una breve descripción de la invención.

Materiales Biodegradables

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
ES2942331	(ASIN-N) ASOC INVESTIGACION IND TEXTIL	Making hot melt adhesive used in cardboard packaging, comprises E.G. adding natural polylactic acid, polyhydroxybutyrate or poly(3-hydroxybutyrate-co-3-hydroxyvalerate) polymeric resin having ethylene butyl acrylate copolymer to reactor
KR102546019	(PARK-I) PARK J M	Biodegradable composite resin composition used in manufacture of E.G. film product, comprises preset amount of grain powder having preset moisture content and water activity, resin, another resin, and additives

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
WO2023058572	(TORA) TORAY IND INC	Filament used in manufacture of molded article, comprises amorphous biodegradable polyester and aqueous polymer which is different from biodegradable polyester, where aqueous polymer has preset melting point
WO2023068459	(DAES) DAESANG CORP	Thermoplastic starch composition for biodegradable composition for forming film, comprises starch, plasticizer, compatibilizer, benzaldehyde, biodegradable polymer and reaction initiator, where compatibilizer is selected from unsaturated dicarboxylic acids or anhydrous unsaturated dicarboxylic acids
US2023125125	(TERR-N) TERRAMER INC	Container used for producing biodegradable composite, comprises biodegradable composite forming portion of container, which has biodegradable plastic polymer having biodegradability, tensile strength and elastic modulus
WO2023057962	(BONA-N) BONA TERRA A C	Making biodegradable bioplastic for containers by E.G. weighing starch and orange powder, mixing water, measuring pH and adjusting with acid and acetic acid, and adding glycerol, glycerol esters, chitin and activated carbon
WO2023042758	(NSES) NIPPON PAPER IND CO LTD	Composition used for E.G. adsorbents, sanitary products E.G. masks and wiper sheets, filters, paper, cardboard, non-woven fabrics, and packaging materials, contains composite fibers in which inorganic particles are fixed to cellulose fibers and thermoplastic resin
JP2023082587	(NISO) NIPPON SHOKUHIN KAKO KK	Resin composition used for producing molded article, comprises biomass particles and resin, where biomass particles are biomass particles whose surface has been increased in specific surface area by physical processing and/or enzymatic treatment

Reciclado Mecánico

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
EP4186669	(SUPE-N) SUPER PIPE LTD	Process for manufacturing composite aggregates utilized as feedstocks in injection molding processes, involves blending first source material derived from solid municipal waste, and mixing mixture in vessel under conditions
WO2023111563	(RECY-N) RECYCLATECH GROUP LTD	Method for recovering component materials from composite products, involves stripping uncured rubber from reinforcement material and resulting in mixture of uncured rubber fabric and reinforcement material
WO2023088951	(WING-N) WINGBEAM AS	Method for producing E.G. railway sleepers, based on used wind turbine blades, involves cutting composite section from used blade, placing cut composite section in mold, adding binding agent to mold, and allowing agent to solidify
WO2023079085	(ALPL) ALPLA WERKE ALWIN LEHNER GMBH & CO KG	Method for recycling polyolefin containers, involves sorting containers, performing extrusion and granulation of the cleaned flakes, performing flake sorting, and performing extrusion and granulation of cleaned flakes
EP4177032	(INDA-N) INDAVER PLASTICS RECYCLING NV	Method for sorting mixed plastic packaging waste containing E.G. polyethylene, involves sorting mixed plastic packaging waste by air classifier, sorting mixed plastic packaging waste into lower-density fraction, sorting higher-density fraction and sorting polyethylene terephthalate fraction by color
EP4194170	(KRON) SWISS KRONO TEC AG	Recycling formaldehyde resin, preferably melamine resin containing inorganic particles as liquid coating, comprises mechanically separating inorganic particles from formaldehyde resin to be recycled and adding recycled formaldehyde resin
DE102021131314	(TYRB-I) TYRBAS I (ZOLO-I) ZOLOTAS I	Method for recovering raw materials from multi-layer food packaging field, involves detecting transformation of composite materials by shredding chemical inactivation of biological residues, homogenization and stabilization and subsequent agglomeration by mechanical crushing with rotating rollers
WO2023091711	(BATE-N) BATECH CORP	Extruder system for recycling wet waste material, comprises main barrel comprising inner chamber, solid-stage degassing port for removing gas or vapor released by molten polymer, die comprising flow channels and predischage flow channel for receiving molten polymer and discharge barrel

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
WO2023069787	(VALE-I) VALERIO T A	Method for separating waste material E.G. automobile shredder residue, from E.G. large machinery, involves providing multi-spiral separator with two separators in elongated trough, and introducing waste material into separators
WO2023047269	(AMUT) AMUT SPA	Continuous processing method for flakes formed by two layers of different plastic materials, involves drawing mixture of layers of flakes of two different plastic materials from intensive washing equipment together with aqueous solution
EP4163025	(COMP-N) COMPOSITES RECYCLING SOLUTIONS	Device for breaking up material flow to be supplied from composite material and form-fitting structure into individual fraction of composite material, has curved disc that is mounted between injector mixer and rotor and stator inside reactor
FR3127141	(COMP) SAINT-GOBAIN GLASS FRANCE	Device for processing used multiple glazing of building for interior and exterior applications, has fragmentation assembly adapted to fragment glazing during transport, and assembly for cutting out glazing arranged upstream of assembly

Reciclado Químico

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
WO2023111231	(UGNT) UNIV GENT	Deinking and/or delaminating plastic material E.G. plastic waste, comprises providing plastic material comprising or provided with ink, and contacting plastic material with amine, or composition comprising amine
DE102021133861	(UYKO-N) UNIV KONSTANZ	Preparing water-insoluble mixture of homologous alpha, omega-alkyldicarboxylic acids for producing polymers such as polyamides and polyesters, involves heating polyethylene-containing mixture in oxygen-containing gas to oxidatively cleave mixture and to obtain mixture of alkyldicarboxylic acids
WO2023083968	(CVST) COVESTRO DEUT AG	Recovering raw materials from polyurethane products E.G. polyurethane foam, involves providing polyurethane product based on isocyanate component and polyol component, performing liquid phase chemolysis with amine reagent to obtain product, and working up to obtain amine and/or polyol

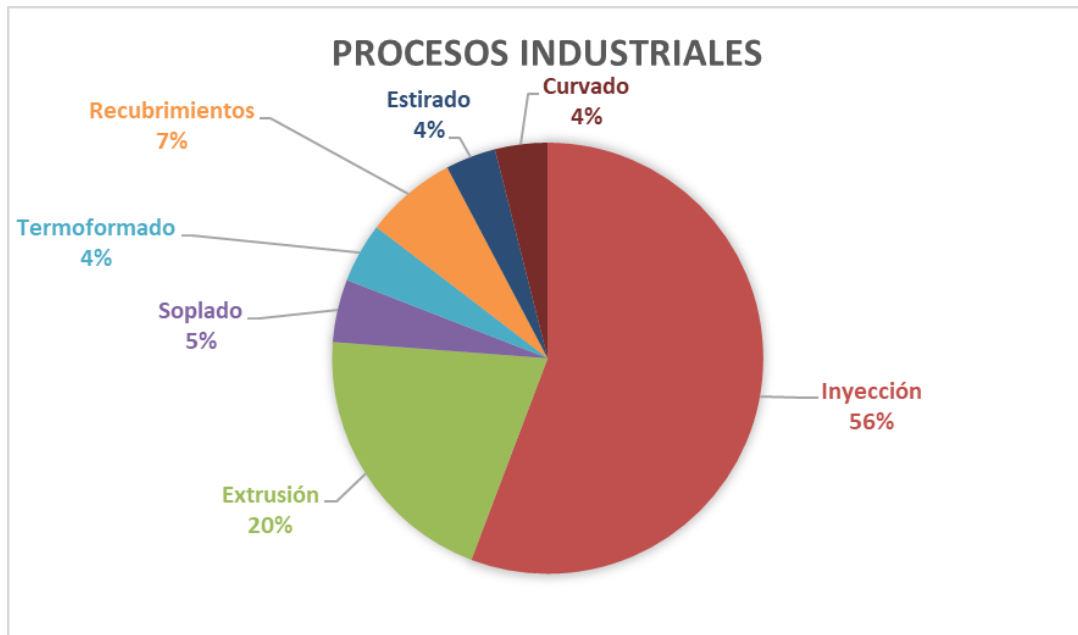
Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
WO2023074437	(TORA) TORAY IND INC	Recovering epsilon-caprolactam and polyamide oligomer for forming molded article, involves contacting resin composition containing polyamide with water or polyamide oligomer aqueous solution to obtain mixture and subjecting mixture to solid-liquid separation
WO2023078802	(EVON) EVONIK OPERATIONS GMBH	Solvolytic of polyurethane in production of E.G. adhesives, involves using polyurethane with preset average particle size, produced by reacting polyether with active hydrogen and organic polyisocyanate, and performing solvolysis E.G. hydrolysis of prepared dispersion with preset polyurethane content
WO2023110753	(BADI) BASF SE	Producing thermoplastic molded polyurethane flexible foam by mixing diisocyanate, polyol, chain extenders, catalyst and fillers and/or polyurethane additives, mixing mixture with gas, injecting pre-foam into mold, and applying vacuum to mold to further expand pre-foam and curing expanded prefoam
WO2023097534	(SOLV) SOLVAY SA	Degradation of composite material for recovering carbon fibers, involves subjecting composite material comprising epoxy resin and reinforcing fibers to pretreatment by contacting composite material with organic solvent and subjecting composite material to enzymatic treatment
WO2023099307	(SOLV) SOLVAY SA	Treating a fiber-reinforced epoxy composite by contacting fiber-reinforced epoxy composite with solvent at treatment temperature
WO2023099420	(CVST) COVESTRO DEUT AG	Recovering raw material from polyurethane product, comprises E.G. reacting polyurethane product with alcohol and water in presence of liquid phase catalyst to obtain chemolysis product, and extracting chemolysis product with organic solvent
DE102022000647	(AIXL-N) AIXLENS GMBH	Processing plastic involves de-wetting plastic and then irradiating to partially achieve cross-linking of plastic again
JP7263661	(TOXW) TOYO INK CO LTD (TOXW) TOYO INK SC HOLDINGS CO LTD (TOXW) TOYO-MORTON LTD	Separating and recovering laminate used in manufacture of molding material, involves immersing release layer with polyolefin base material layer in supernatant liquid and recovering polyolefin base material by desorbing release layer containing water-soluble resin or compound having acidic group
WO2023088908	(CARB-N) CARBIOS	New esterase variant useful in composition for degrading polyester or polyester of polyester containing material and in detergent composition, comprises specific amino acid sequence

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
KR20230060106	(SKSK) SK INNOVATION CO LTD (SKGE-N) SK GEO CENTRIC CO LTD	Pyrolysis method of waste plastics by inputting waste plastics to batch reactor and performing heating to produce waste plastic melt, heating plastic melt to remove chlorine and heating plastic melt from which chlorine has been removed
DE102021211499	(HYPE-N) HYPERION ADMINISTRATION GMBH (HYPE-N) HYPERION VERWALTUNG GMBH	Method for recycling polyurethane-crushed-compounds, involves filling container with polyurethane-crushed-composite, container having perforated diaphragm, which is arranged away from bottom of container, container being filled with solvent for cured polyurethane, solvent is above perforated screen
WO2023044699	(HKRE-N) HONG KONG RES INST TEXTILES & APPAREL LT	Separating spandex from blended textile substrate involves contacting substrate with biosolvent to form treated textile substrate comprising other textile polymer and biosolvent extract solution, and separating biosolvent extract solution and treated textile substrate
WO2023033605	(GLDS) LG CHEM LTD	Method for screening solvent used for recycling polyvinyl chloride from waste, involves screening solvent for extracting polyvinyl chloride from waste containing polyvinyl chloride using polyvinyl chloride swelling score

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CONTENIDO

NUEVOS PROCESOS INDUSTRIALES

En el siguiente gráfico se muestra la distribución de las 9.047 familias de documentos de patente recuperadas en este trimestre en el apartado de Nuevos procesos industriales. Los procesos que mayor actividad innovadora reflejan son el de inyección y extrusión



Las siguientes tablas muestran una selección de los documentos más representativos, junto con un enlace directo a la base de datos Espacenet, el solicitante y una breve descripción de la invención.

Inyección

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
EP4201630	(IVAR-N) IVARS SPA	Mold for facilitating injection molding of plastic material to produce bases for seats in offices, has ejecting system provided with shearing element, where shearing element is aligned with inlet channel and ejector element
WO2023114523	(MISS-N) MISSION CRITICAL COMPOSITES LLC	Method for manufacturing composite propeller by using rigid foam materials in E.G. hovercraft, involves curing density material inside mold at temperature and pressure to form cured component

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
DE102021133753	(ARBH) ARBURG GMBH & CO KG	Injection molding machine frame for processing plastics and plasticizable masses, has pump and motor that are coupled to one another via operative connection unit, and bearing element provided for mounting motor-pump unit, which is decoupled from container
ES1299908	(TROQ-N) TROQUELES & MOLDES GALICIA TROMOSA SA	Skid system for guiding inclined slides in injection molds of plastic materials, has support part and central element for being guided on base part and head part and located inside support part, which constitutes rotating element of system
EP4197738	(INGL-N) INGLASS A SOCIO UNICO SPA (INGL-N) INGLASS SPA	Nozzle tip for guiding valve pin of nozzle for injecting molten material into mold during injection molding, has insert that is configured as separate element and directly mounted between tapered tip of inner element and inner surface of outer element
WO2023114237	(REEL-N) REELL PRECISION MFG	Insert molded torsion bar hinge of fold down system, has first and second hinged elements that rotate relative to each other along torsion bar axis and torsion bar produces torsional spring torque with relative rotation of first and second hinged elements
WO2023112855	(KAYD) KYB CORP	Spring guide formed from a fiber reinforced resin, has cylindrical portion into which cylinder of shock absorber is inserted, and fiber reinforced resin that is oriented in circumferential direction, in cylindrical portion
WO2023086466	(SYBR-N) SYBRIDGE TECHNOLOGIES US INC	Monitoring system for automated monitoring operation of injection mold during injection molding process, has computing system for generating output for transmitting to electronic device in communication with computing system to provide monitoring status indication
WO2023085377	(NIKL) JAPAN STEEL WORKS LTD	Injection device for injection molding machine, monitors pressure of load cell, and detects deviation between injection nozzle and sprue of mold based on pressure, when injection nozzle is caused to touch sprue by nozzle touch device
WO2023081995	(HUIN) HUSKY INJECTION MOLDING SYSTEMS LTD	Plastic molding system for producing types of article E.G. plastic beverage container, has controller that is operable to direct movement of vessels along conveying path to transport molding material from dispensing stations to shaping stations
EP4177036	(SACE-N) SACEL SRL	Modular robotic co-molding station for producing semi-finished product, has completely autonomous mechanical electro-pneumatic and software connection system for guaranteeing standardized connection of module in modular connection devices

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
WO2023076366	(DOWC) DOW GLOBAL TECHNOLOGIES LLC	Injection molded closure article used as cap member for perfume container, comprises composition blend of substantially linear polyolefin elastomer component, and partially neutralized ethylene acid copolymer resin component comprising magnesium, lithium, zinc, sodium, and their mixtures
WO2023104355	(HUSQ) HUSQVARNA AB	Manufacturing component I.E. connecting element, involves providing core with recess allowing molding material to flow through core so that bond breaks on withdrawing core out of mold
JP7289024	(TOXW) TOYO INK SC HOLDINGS CO LTD (TOXW) TOYOCOLOR CO LTD	Magnetic resin composition used for forming injection molded article, comprises thermoplastic resin having preset melting point, scaly magnetic particles comprising iron-silicon-aluminum alloy, and lubricant, and has preset temperature
EP4194351	(OBER-N) OBERLAND M & V GMBH	Method for producing transport container E.G. bottle crate, involves setting up elevation to deflect material flow of molten plastic material in closed injection molding tool in such way that melted plastic material hits edge area of in-mould film
WO2023100398	(NSSK) NISSEI PLASTICS IND CO LTD	Mold-clamping device of injection molding device, has tie bar which supports in raising or lowering manner by cylindrical guides, where attachment orientation of second and third guides are adjusted by interposing shim between one of sides of flange portion and pressure-receiving platen
JP2023077448	(NIKL) JAPAN STEEL WORKS LTD	Ball screw mechanism of mold clamping device of industrial machinery E.G. injection molding machine, has load concentration relief portion which is formed in lock nut to relieve load acting on crest of internal thread from being concentrated on crests near contact end surface
WO2023099980	(MAST-N) MASTERIX SRL	Injector for injecting wax, plastic, resin or to-be-injected other material into to-be-filled rubber molds, used in goldsmith, silversmith and costume jewelry sector, has main tank for mounting material on load-bearing frame
JP7267386	(SAEI) SANKEI GIKEN KOGYO KK (SHBU) SHIBAURA MACHINE CO LTD (NIYU-N) NIHON YUKI CO LTD	Apparatus E.G. screw type injection molding apparatus for manufacturing foam-molding article, has screw that has helical flight on outer periphery of shaft, where gradation zone is provided between starvation and feeding zones
WO2023067827	(NSSK) NISSEI PLASTICS IND CO LTD	Plasticizing apparatus for plasticizing resin material in plastic molding field, has temperature control rod moving mechanism for moving temperature control rod in axial direction with respect to screw, where heat insulation unit of control rod is provided in vicinity of drop port

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
WO2023058213	(FUFA) FANUC CORP	Control device for injection molding machine, has energy ratio calculation unit that calculates energy ratio of injection molding machine based on amount of heat transfer energy and amount of shear energy
WO2023048106	(SATN) SATO HOLDINGS CORP (SATN) SATO HOLDINGS KK	Method for manufacturing container E.G. test tube used for collecting blood and for testing specimen, involves supplying heated material to mold and molding container having radio frequency identification (RFID) inlay on outer surface through thermoplastic adhesive
WO2023047435	(TECH-N) TECHNOCRATS CORP	Molding die incorporated with slide assembly of slide unit, has gate cutters that are attached, so that advancing and retreating directions intersect with axial lines linking inlet portion and outlet portion of runner
JP7252427	(KAPA) KANSAI PAINT CO LTD	Method for forming in-mold coating double layer coating film, involves injecting first in-mold coating composition containing compound containing first reactive functional group other than polymerizable unsaturated group
FR3127715	(SFRA) SAFRAN AIRCRAFT ENGINES	Method for manufacturing blade for aircraft turbine engine, involves injecting resin in injection mold in order to proceed with impregnation of fiber preform and fixing of metal foil on leading edge of fiber preform
US2023124802	(SCMI) SACMI IMOLA SPA	Apparatus for manufacturing and unloading of preforms for manufacture of plastic containers, has device for injection molding of multiple preforms and device for cooling and extraction of preforms from molding device, where cooling and extraction device is provided with grip assembly
WO2023054388	(KANF) KANEKA CORP	Blow molded article comprises reaction product of poly(3-hydroxyalkanoate)-based resin component comprising copolymers of 3-hydroxybutyrate units and other hydroxyalkanoate units, and organic peroxide

Extrusión

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
FR3130279	(AQOR) ARKEMA FRANCE	Continuous preparation of polyamide by condensation involves melting mixture comprising polyamide monomers in extruder or co-kneader, and polycondensing obtained mixture in reactor-mixer
WO2023086861	(ESSE-N) ESSENTIUM IPCO LLC	Three-dimensional (3D) printer head has main sensor and main sensor trigger that are mounted to main feed assembly, where sub sensor and sub sensor trigger that are mounted to sub feed assembly
WO2023079895	(NIKL) JAPAN STEEL WORKS LTD	Die for use in granulation device, has first end nozzle whose length of first portion is shorter than length of first portion of first non-end nozzle, where first non-end nozzle is positioned next to first end nozzle
FR3128395	(MICL) CIE GEN ETAB MICHELIN & CIE	Coextrusion installation for generating profile entered into composition of pneumatic tires for vehicle wheels, has seal fixed to extrusion head to project radially with respect to extrusion head
WO2023078441	(SNPC) BEIJING RES INST CHEM IND CHINA PETRO (SNPC) CHINA PETROLEUM & CHEM CORP	Polypropylene composite material useful E.G. in consumer goods, has multiple successively laminated polypropylene sheet unit groups, each unit group includes identical or different polypropylene sheet unit has core layer and outer layer
WO2023076448	(CELA) CELANESE INT CORP	Making thermoplastic vulcanizate composition by introducing thermoplastic polymer to extruder through feed throat, introducing elastomeric polymer to melt feeder, introducing elastomeric polymer melt to extruder and mixing polymers
DE102021131589	(UKAS) UNIV KASSEL KOERPERSCHAFT OEFFENTLICHEN (UKAS) UNIV KASSEL	Feeding device for feeding solid silicone rubber as strands or bales into screw conveyor of extruder, has one-piece conveyor screw connected in cylindrical section and conical section, and conical section formed with two outlet nozzles
WO2023096606	(SUBO-N) SUBOR BORU SANAYI VE TICARET ANONIM SIRK	Pipe machine for producing fiber glass reinforced plastic pipes, has bowl type horizontal arm steel springs located in horizontal arms to which horizontal arm eccentric bearing is connected, and generates necessary force for system
EP4186677	(SIKA) SIKA TECHNOLOGY AG	Method for producing insulating element for insulating structural element in motor vehicle, involves removing components of carrier and material from cut to length to form individual insulating elements

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
FR3129316	(CNRS) CENT NAT RECH SCI (CNRS) CNRS CENT NAT RECH SCI (CNAM) CONSERVATOIRE NAT ARTS METIERS (SFRA) SAFRAN (ECOL-N) ECOLE NAT SUPERIEURE DARTS & METIERS ENS	Method for manufacturing coil of filament used to shape polymer parts, involves quenching filament at temperature of hardening determined to lower with degree of crystallinity in binder, and winding filament around spool at temperature below quenching temperature
WO2023067536	(LOHI-N) LOHIA CORP LTD	Apparatus for removing moisture from material for making extruded film on raffia tapeline, has dehumidifier unit for supplying hot air and sucking moisture laden air out from loader, and conduits connected to dehumidifier unit with loader
WO2023058525	(KYKO) KYORAKU CO LTD	Production of foamed molded product for producing foam molded article and structure, involves forming foamed parison by continuously extruding resin comprising physical foaming agent from slit of extrusion head, and molding parison with mold
EP4163073	(BURG-N) BURGER IND CONSULTING GMBH	Method for producing ultra long fiber thermoplastic (ULFT) granule, involves cooling pre-cooled ULFT strand in cooling device to form cooled ULFT strand, and cutting cooled ULFT strand by cutting device such that ULFT granulate is obtained
EP4159407	(CONW) CONTINENTAL REIFEN DEUT GMBH (CTTI-N) CONTINENTAL TIRES GERMANY GMBH	Method for processing rubber mixture for producing vulcanized rubber product E.G. tire for vehicle, involves introducing and processing heated rubber mixture in extruder to obtain extruded rubber mixture, where pre-heating is performed by electromagnetic radiation with maximum intensity
WO2023056550	(MGIN) MAGNA INT INC	Extrusion system for extruding components E.G. automotive component in automotive industry, has shearing surface or container that is configured to shear and heat feedstock before entering aperture, and whose portion is configured to rotate about axis while aperture remains rotationally stationary
EP4163082A1;	(MUEL-N) MUELLER GMBH W	Extrusion head arrangement, has housing extending along longitudinal axis extending outer housing part with outer peripheral surface, where longitudinal bore parallel to longitudinal axis is arranged in outer part
DE102021125712	(NEXT-N) NEXT GENERATION ANALYTICS GMBH	Method for filtration of liquids and melts with impurities, involves pressing clamping element which moves into clamping position against housing in contact with respective filter element
WO2023054533	(KURS) KURARAY CO LTD	Producing extruded resin laminated film having laminated structure in which (meth)acrylic resin-containing layer is laminated on polycarbonate-containing layer, by co-extruding thermoplastic resin laminate from T die in molten state and cooled, and taking off laminated film using take-up roll

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
DE102021004909	(GIES) GIESECKE & DEVRIENT MOBILE SECURITY GMBH	Layered composite useful for card-shaped data carrier, preferably smart card, has second Layer arranged between first layer and third layer, where first and third layers comprise polylactide, and second layer comprises polylactide-free laser polymer mixture, which has plastics and laser additive
EP4159428	(KALL) KALLE GMBH	Food casing used as artificial sausage casing for encasing boiled or scalded sausage, comprises porous layer, carrier layer based on aliphatic and/or partially aromatic (co)polyamide, layer impermeable to water vapor, and adhesive layer containing adhesion-promoting component
DE102021125395	(BATW) BATTENFELD-CINCINNATI GERMANY GMBH	Planetary roller extruder for homogenization, dispersing, pasteurization and targeted tempering of biodegradable materials which tend to lose their properties, during processing E.G. food, has seal installed in interior of extruder
WO2023040021	(CNCE) GUILIN RUBBER DESIGN INST CO LTD (CNCE) GUILIN RUBBER IND R & D INST CO LTD	Rubber composite extruder head locking device for providing forming outlet for producing extruded profile, has connecting plate located outside lock door, and moving unit connected with connecting plate, where moving unit drives lock door to move back and forth through connecting plate

Otros Procesos

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
WO2023119189	(SSEM) GD SPA	Machine for manufacturing electrochemical cell of cylindrical lithium-ion battery, has holding device for grabbing end of composite material and starting winding of material while corresponding winding head moves along straight segment
WO2023118127	(TECH-N) TECHNOBELL KOPER DOO	Continuous filament winding (CFW) machine for manufacturing hollow portion, has guiding structure that guides continuous band downstream from axial position, so that portion of continuous band wound around mandrel loops around axial projection of rotation axis of mandrel
WO2023075580	(NTWO-N) N2 GLOBAL SIA	Filter winding apparatus has frame, pressure generating unit, support bearing rotationally arranged on axle of winding roller and comprising four additional bearings arranged around support bearing, and winding motor connected to roller

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
FR3128658	(SFRA) SAFRAN AIRCRAFT ENGINES (SFRA) SAFRAN	Method for manufacturing fibrous preform of turbine engine blade or propeller part by rolling up texture obtained by weaving in shape, involves winding fibrous texture obtained by shaped weaving on substrate of evolving section
WO2023105311	(STOE) STORA ENSO OYJ	Manufacturing folded packaging product by folding unit of air-laid blank against male mold, compacting folded unit of air-laid blank against male mold, and cutting folded unit of air-laid blank from remainder of air-laid blank
DE102021131986	(WAFI) WAFIOS AG	Device for heating rod-shaped material, has shielding screen that is arranged movably relative to heating element in order to extend in longitudinal direction effective heating element adjust portion of heat dissipation area
ES1299426	(DIAZ-I) SOTES DIAZ D	Aerodynamic device for use in tall chimneys and wind turbine towers in construction sector, has modular and inflatable body that is preferably adhered on base, and tower that is formed with cylindrical helical trajectory
FR3129285	(CLUN-I) CLUNET-COSTE B (COLL-I) COLLOMBIN A (MANE-I) MANEUF B	Dental preform has central portion that is formed by first wire elements, and second wire elements of two consecutive layers have opposite orientations and do not belong to fabric or woven element
ES1298065	(ESTR-I) SANCHEZ ESTRUCH O	Device for bending tubes e.g. PVC tubes, has flexible hose for being inserted into tube to be bent, which is provided, by one end, of closing plug or similar and, at opposite end, by inflation valve, whose hose presents, in deflated state
WO2023061867	(PCON) PHOENIX CONTACT GMBH & CO KG	Device for dynamic length compensation when embossing film strip for marking conductor E.G. cable, has film strip that is conveyed in first position of guide surface in guide channel and guide surface is moved from first position to second position
WO2023111437	(SAIM) SAIPEM SA	Coated pipe used for transport of fluids E.G. hydrocarbon such as oil and gas, has slot that is open on side of internal face of sleeve prior to insertion of sleeve into steel pipe, and is partially closed between inner face and outer face of liner along its depth
WO2023088801	(WINM) WINDMOELLER & HOELSCHER KG	Stretching device for monoaxial stretching of film web in transport direction, has pressure roller that is supported on holding arrangement through support point extending over quarter of axial length of pressure roller or multiple support points distributed over axial length of pressure roller

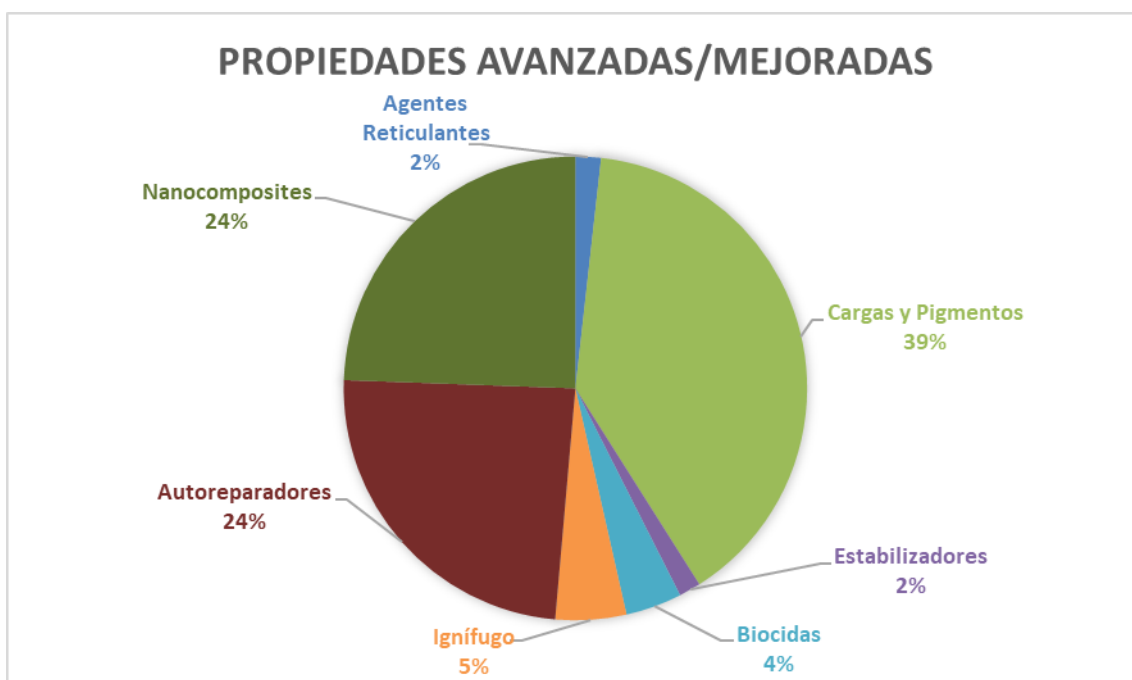
Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
EP4170082	(TEXM-N) TEXMAG GMBH VERTRIEBSGESELLSCHAFT FA (TEXM-N) TEXMAG SALES GMBH	Device for inserting moving web into stenter machine, has measuring unit that is provided for detecting pivoting angle of cheek, and has angle sensors
WO2023074731	(TOKU) TOKUYAMA CORP	Stretched porous film for E.G. paper diaper, comprises resin composition containing polyethylene resin containing linear low-density polyethylene, branched low-density polyethylene, and another resin having preset density, and inorganic filler, and has preset heat shrinkage and moisture permeability
WO2023074935	(UYDK) UNIV DANKOOK IND ACADEMIC COOP FOUND	Metal-sensitive polymer multilayer structure used for E.G. automobile interior material, comprises structure including polymer layers including different polymers with preset refractive index difference, and having preset thickness, and containing guanine as plate-like pigment
EP4174120	(BRKM) BRUCKNER MASCHBAU GMBH & CO KG (BRKM) BRUCKNER MECHANICAL ENG GMBH & CO KG (BRKM) BRUECKNER MASCHBAU GMBH & CO KG	Biaxially oriented film useful as dielectric for production of capacitors comprises at least two cycloolefin polymers and at least one partially crystalline alpha-olefin polymer, film comprises first- and second cycloolefin polymer
WO2023047936	(TORA) TORAY IND INC	Biaxially oriented polyester film used as support film for green sheet molding in process of manufacturing laminated ceramic capacitor, has surfaces with specific properties on both sides of the film
EP4029990	(PULP-N) PULPAC AB	Forming cellulose products in forming mold system from air-formed cellulose blank structure, comprises E.G. compressing portion of residual section to first degree of compression higher than that of product sections
KR102543024	(ANYC-N) ANYCASTING CO LTD	Molding apparatus for manufacturing optical part such as micro lens array used in micro LED display module, has controller that aligns lower mold and upper mold by controlling second driving unit according to detection of align camera unit
WO2023088935	(IPUI-N) IPU ING BRAUNSCHWEIG MBH	Mold-free relieved component manufacturing method, involves subjecting flat semi-finished product to fluid pressure to plane of extension, and permanently deforming flat semi-finished product in area recess to form curved surface structure
WO2023100074	(MINN) 3M INNOVATIVE PROPERTIES CO	Method for placing rigid objects E.G. semiconductor chips on moving web, involves engaging roller sleeve with adhesive surface of web, without changing predetermined speed of web, and separating moving web from roller sleeve such that rigid objects are attached to adhesive surface of web

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
WO2023078593	(KROE) KRONES AG	Device for producing plastic containers, has inspection device which is intended for inspecting plastic container, and comprises inspection area through which plastic containers to be inspected passes to inspect, and two inspection area which are partially overlapped
EP4197739	(GEAA) GEA PROCOMAC SPA	Apparatus for heating parisons in thermoplastic material, has heating unit of parisons that extends along section interposed between first path and second path for advancing parisons
US2023174322	(SCMI) SACMI IMOLA SPA	Grip device for support and movement of preforms, such as plastic preforms for production of containers, has supporting element operatively associated with air supply conduit and connected to air exit nozzle
WO2023099656	(SCMI) SACMI IMOLA SPA	Apparatus for handling preforms I.E. plastic containers, such as handling bottles, in blow molding system, has pickup device for picking up preforms in pickup condition from overturning element in order to feed preforms
EP4169694	(KROE) KRONES AG	Method for forming plastic preforms into plastic bottles, involves subjecting plastic perform to pressure level, where pressure level deviates from other pressure level and is higher than other pressure level
WO2023066868	(SCMI) SACMI IMOLA SPA	Cup-shaped body structure for producing plastic container, has height extension unit being measured between mouth and opposite end portion, where ratio between height extension unit and diameter of mouth is comprised in specific range
WO2023059631	(PEPS) PEPSICO INC	Method for producing blow molding instructions for preform of plastic bottle used to package consumer products such as beverages, involves selecting experiment from set of blow molding experiments based on characteristics of selected experiment

VOLVER A
CONTENIDO

MATERIALES CON PROPIEDADES AVANZADAS O MEJORADAS

En el siguiente gráfico se muestra la distribución de las 597 familias de documentos de patente recuperadas en este trimestre en el apartado de Materiales con propiedades avanzadas o mejoradas. En este trimestre, el volumen de documentos de patente a cargas y pigmentos sobresale seguido por autorreparadores y nanocompuestos.



Las siguientes tablas muestran una selección de los documentos más representativos, junto con un enlace directo a la base de datos Espacenet, el solicitante y una breve descripción de la invención.

Cargas y Pigmentos

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
KR20230086549	(SMTS-N) SMT CORP (SPRI-N) SPRINT MEDIA TECHNOLOGY CO LTD	Producing high thermal conductivity sheet containing surface-treated inorganic filler by semi-wet method comprises pre-mixing inorganic filler and solvent, treating surface of inorganic filler and removing residual solvent after mixing
WO2023085002	(KAOS) KAO CORP	Production of halogen-based resin composition used for forming molded articles, involves mixing anionic polymer and plasticizer, mixing obtained mixture with basic inorganic filler, and mixing with halogen-based resin

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
WO2023074731	(TOKU) TOKUYAMA CORP	Stretched porous film for E.G. paper diaper, comprises resin composition containing polyethylene resin containing linear low-density polyethylene, branched low-density polyethylene, and another resin having preset density, and inorganic filler, and has preset heat shrinkage and moisture permeability
EP4194498	(CONW) CONTINENTAL REIFEN DEUT GMBH (CONW) CONTINENTAL TIRES GERMANY GMBH	Sulfur-crosslinkable rubber composition used for vehicle tire such as pneumatic vehicle tire used for E.G. car, comprises natural rubber, at least one other diene rubber and at least one carbon black having preset dibutyl phthalate number and iodine adsorption number
WO2023100993	(YAWH) NIPPON STEEL CHEM & MATERIAL CO LTD	New modified vinyl aromatic copolymer used for preparing modified conjugated diene copolymer, comprises crosslinked vinyl-based structural unit and conjugated diene compound-derived structural unit, and includes functional group chosen from amino group, alkoxy silyl group and hydroxyl group
WO2023100897	(MEPC) MITSUBISHI ENG-PLASTICS CORP	Resin composition used for forming molded article, comprises polybutylene terephthalate resin, polyethylene terephthalate resin having preset iron content, and inorganic filler
WO2023095445	(TORA) TORAY IND INC	Thermoplastic resin composition for forming molded article, comprises vinyl copolymer having preset refractive index and inorganic particles having preset particle diameter
WO2023068186	(TOYJ) TOSOH CORP	Polyarylene sulfide composition used for forming pellets E.G. cold cut pellets used for e.g. electrical/electronic component, and automobile component, comprises polyarylene sulfide having preset melt viscosity, post-consumer recycled polyamide and fibrous filler
WO2023068083	(KANF) KANEKA CORP	Multi-component curable composition used for forming cured product E.G. coating film for manufacturing waterproof material, comprises agent containing polyoxyalkylene polymer having reactive silicon group, and epoxy resin curing agent containing epoxy resin
WO2023068024	(ARIA) ARISAWA MFG CO LTD	Thermosetting resin composition used in heat dissipation sheet and heat dissipation plate, comprises epoxy resin, curing agent, acrylic copolymer having functional group on side chain, boron nitride, and filler
WO2023067662	(ARIA) ARISAWA MFG CO LTD	Thermosetting resin composition for forming adhesive sheet, comprises epoxy resin, fine particle rubber dispersed in non-solid epoxy resin, curing agent, inorganic filler and polycarbonate diol-derived polyurethane having preset acid value

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
WO2023063282	(MITN) MITSUBISHI GAS CHEM CO INC	Resin composition used for forming laminate and chip with resin composition layer for semiconductor device, comprises aminotriazine novolac resin, compounds chosen from maleimide compounds and citraconimide compounds, and inorganic filler
WO2023063406	(SEKI) SEKISUI CHEM CO LTD	Thermally conductive resin sheet used in semiconductor package, gives free induction decay curve of 1H spin-spin relaxation, as determined by pulsed NMR
WO2023054413	(MIUA) MITSUBOSHI BELTING LTD	Toothed belt used as power transmission belt, consists of back portion in which core wire extending in belt circumferential direction is embedded, and tooth portions having back rubber layer on outer circumferential side of belt and rubber layers formed using composition containing short fibers
WO2023054536	(PLYH) SEKISUI POLYMATECH CO LTD	Thermally conductive sheet used in thermally conductive composition, thermally conductive sheet, electronic device, comprises matrix made of organopolysiloxane, thermally conductive filler contained in matrix, methylphenyl silicone, and hydrocarbon compound
WO2023047869	(SHIE) SHINETSU CHEM CO LTD	Thermally conductive film comprises silicone resins, wax and thermally conductive filler
WO2023053915	(TORA) TORAY IND INC	Polyarylene sulfide resin composition used for molded article, comprises polyarylene sulfide having preset cumulative integral value and glass fiber and has specific change rate of ratio of melt flow rate of polyarylene sulfide to mixture of polyarylene sulfide and epoxysilane coupling agent
WO2023054479	(KANF) KANEKA CORP	Curable resin composition used for forming cured product such as adhesive used for weld bonding of laminate and vehicle component, comprises epoxy resin containing aliphatic polybasic acid-modified epoxy resin, polymer particles, and latent curing agent exerting preset curing action
DE102021125585	(LEOI) LEONI KABEL GMBH	Cable useful in automotive sector, comprises layer, including polyvinyl chloride, halogen-free oligomers and compatibilizer

Autorreparador

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
WO2023067111	(ASIN-N) ASOC CENT INVESTIGACION COOP EN NANOCIEN	Self-healing organic-inorganic material used to fabricate E.G. electronic and optoelectronic materials comprises polymeric substrate, coating layer directly on surface of the substrate and infiltrated layer within the polymeric substrate
WO2023074271	(ASAG) AGC INC	Glass used for forming base material for flexible electronic devices, comprises phosphorus pentoxide, cesium oxide, alkali metal oxide including lithium oxide, sodium oxide, potassium oxide, rubidium oxide and cesium oxide, and polyvalent element oxide other than phosphorus pentoxide
WO2023084521	(TECR) TECHNION RES & DEV FOUND LTD	New self-healing biocompatible elastomer comprising polymeric chains, used in antibacterial composition for wound dressing in the treatment and/or monitoring a condition of a wound and in performing a surgical incision on a body part
WO2023106909	(UYMO-N) UNIV MONASH MALAYSIA SDN BHD	Making self-healing article E.G. glove comprises E.G. dipping former in coagulant mixture, drying former with deposited coagulant layer, and dipping former with deposited coagulant layer in rubber mixture to deposit rubber layer on former
WO2023075689	(UYTU) UNIV NANYANG TECHNOLOGICAL	Super-contractible thin film used in shape-adaptive electrode for super-contractile electronic device, comprises crystalline inclusion complex domain formed from poly(pseudo)rotaxane and oriented polyethylene oxide domain
US2023159763	(SMSU) SAMSUNG DISPLAY CO LTD	Hard coating composition comprises silica-silsesquioxane-based resin, photoinitiator, and diluting monomer including 2-hydroxyethyl acrylate monomer, tetrahydrofurfuryl acrylic acid monomer, isobornyl acrylate monomer, cyclic trimethylolpropane formal acrylate monomer
WO2023042905	(TORA) TORAY IND INC	Film for metal laminate for E.G. film capacitor, comprises small-thickness resin layer having preset ratio of atomic fractions of carbon, nitrogen, sulfur, and silicon atoms, and atomic fractions of hydrogen and oxygen atoms, on large-thickness resin layer, and has preset dielectric loss tangent

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
WO2023038044	(KANF) KANEKA CORP	Benzoxazine composition for forming cured product, comprises component containing reaction product of benzoxazine compound and/or compound containing phenolic hydroxyl groups, and component containing cross-linking agent containing bond and functional group

Nanocomposite

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
WO2023085471	(KOAD) KOREA ADVANCED SCI & TECHNOLOGY INST (KPXC-N) KPX CHEM CO LTD	Composite polishing pad for chemical mechanical polishing apparatus for flattening and mirroring wafer, has carbon nanotube layer that includes carbon nanotubes embedded in and fixed to upper surface of substrate layer
WO2023076095	(EVOQ-N) EVOQ NANO INC	Three dimensional (3D) printing, comprises E.G. providing 3D printing composition comprising thermoplastic polymer or curable resin and metal nanoparticles, forming the 3D printing composition into desired object, and causing or allowing
EP4194596	(UYKA-N) UNIV KAUNAS TECHNOLOGY	Production of substrate used for nano/micro fibrous filter, involves electrospinning polymer solution to form layer as nanofibrous surface layer for collection of aerosol particles, drying, removing static charge, and sterilizing substrate
US2019259517	(UYIK) UNIV KING ABDULLAH SCI & TECHNOLOGY	Ink composition used for printing technology, includes magnetic iron oxide nanoparticles which are dispersed in solution containing carrier and surface tension adjusting agent to form iron oxide nanoparticle-based magnetic ink
US11072147	(ALTU-N) ALTUM LLC	Composite structural component used for bearing load, comprises polymer core including surfaces, thermoplastic polymer skin, and crosslinking nanolayer including reactive component bonded to surface and thermoplastic functional component
US2021098888	(SOCR-I) SOCRANSKY A	Parabolic reflector for moldable material for terrestrial, marine, aeronautical and space applications, includes monolithic structure comprising carbon nanotubes for reflecting radio frequency energy, and carbon nanofiber

Otras propiedades

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
EP4174124	(SABI) SHPP GLOBAL TECHNOLOGIES BV	Polymer composition used for forming article, comprises polycondensation polymer, and encapsulated flame-retardant agent comprising coating having preset thickness and catalytic flame-retardant core
WO2023100897	(MEPC) MITSUBISHI ENG-PLASTICS CORP	Resin composition used for forming molded article, comprises polybutylene terephthalate resin, polyethylene terephthalate resin having preset iron content, and inorganic filler
DE102021130725	(PHOE-N) PHOENIX COMPOUNDING TECHNOLOGY GMBH	Flame retardant elastomeric composition used for producing shaped body, comprises elastomer containing double bonds, and thermoplastic polymer containing vinyl acetate, as polymeric component, crosslinking system consisting of sulfur or sulfur-containing crosslinking agent
WO2023100798	(FURU) FURUKAWA AUTOMOTIVE SYSTEMS INC (FURU) FURUKAWA ELECTRIC CO LTD	Resin composition used in insulated wire for automotive wire harnesses, comprises ethylene/vinyl acetate copolymer resin as resin component, imidazole compound, a phenol compound and thioether compound as antioxidants, and bromine compound and antimony compound as flame retardants
DE102021130724	(HILT) HILTI AG	Molded parts for structural fireproofing used as device for fire-proof passage of lines, cables, and pipes through openings in walls or shafts, comprises polymer mixture of double bond-containing elastomer and vinyl acetate-containing thermoplastic polymer
WO2023049127	(DOWC) DOW GLOBAL TECHNOLOGIES LLC	Forming polymeric composition, involves melt blending ethylene-silane copolymer and halogen free flame retardant masterbatch, where ethylene-silane copolymer is random copolymer of units derived from ethylene and vinyltrimethoxysilane, and processing polymeric composition into particles
WO2023054456A1;	(TORA) TORAY IND INC	Cerium oxide nanoparticles used for E.G. antiviral agent, antibacterial agent, and textile product, comprises basic amino acid, alicyclic amine, aromatic heterocyclic compound containing nitrogen atom in ring structure, polymer having a heterocyclic amine framework, or boron compound as stabilizer
EP4191757	(MINN) 3M INNOVATIVE PROPERTIES CO	Thermal runaway protection film used for preventing or mitigating thermal runaway event in lithium ion battery, comprises protection layer comprising silicone and silicate compound

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
WO2023054104	(ELED) DENKA CO LTD	Chloroprene-based block copolymer used in latex, comprises polymer block derived from monomer yielding polymer having preset glass transition temperature and chloroprene polymer block comprising chloroprene monomer unit and polyfunctional monomer unit
WO2023053869	(TORA) TORAY IND INC	Epoxy resin composition used to produce prepreg, comprises non-aromatic epoxy resins, curing agent and non-aromatic thermoplastic resin

VOLVER A
CONTENIDO

NOTICIAS

LANZAMIENTO DE LA NUEVA WEB EN VERSIÓN BETA

El Plan Estratégico 2021-2024, de la Oficina Española de Patentes y Marcas, O.A. (OEPM) tiene como



objetivo promocionar un uso estratégico de la propiedad industrial mediante el impulso de su conocimiento como activo estratégico.

Con el objeto de que nuestros usuarios tengan acceso a una web, y a sus portales asociados, actualizada y de acuerdo

a los modernos estándares de accesibilidad, incluimos en nuestro Plan Operativo Anual 2021, el proyecto de creación de una nueva página web que sustituya a la actual publicada en 2011. Dicho proyecto está finalizado y una versión beta se hará disponible el próximo 7 de julio.

Algunas de las mejoras incorporadas son:

- Actualización y modernización del diseño
- Optimización de la arquitectura de la web, unificando contenidos y accesos
- Reestructuración de la información facilitando la navegación y haciéndola más intuitiva
- Adaptación del contenido a los diferentes dispositivos móviles
- Mejora del sistema de búsqueda con resultados más precisos
- Mejora de la interacción de navegación, permitiendo una localización sencilla y permanente de las secciones y subsecciones visitadas
- Simplificación del lenguaje empleado más cercano al usuario

Durante los primeros meses coexistirán las versiones beta y actual, que se irán actualizando conjuntamente y permitirá disponer de tiempo para que los usuarios puedan actualizar sus posibles marcadores.

Desde la OEPM, les invitamos a navegar por la versión beta para ir familiarizándose con la nueva estructura.

En el caso de identificar alguna incidencia, rogamos nos sea comunicada a través del formulario accesible en su página de inicio.

NUEVOS BONOS DISPONIBLES DEL FONDO PARA PYMES "IDEAS POWERED FOR BUSINESS. SME FUND"

Desde el pasado miércoles 26 de abril, las pymes pueden solicitar las ayudas correspondientes a los Bonos 3 y 4 del Fondo para Pymes "Ideas Powered for business SME Fund" (SME Fund) relativos a patentes y variedades vegetales comunitarias.

El Fondo para Pymes "Ideas Powered for business SME Fund" (SME Fund) es una iniciativa de la Comisión Europea que se lleva a cabo a través de la *Oficina Europea de la Propiedad Intelectual* (EUIPO) con el objetivo de prestar apoyo financiero a las pymes de la Unión Europea en la protección de sus Derechos de Propiedad Intelectual e Industrial.

El 23 de enero de 2023 se lanzó la tercera edición de este programa de reembolso que emite bonos que pueden utilizarse para cubrir parcialmente las tasas correspondientes a las actividades seleccionadas:



- Bono 1: *IP scan*. Hasta 1.350 euros (actualmente no disponible en España).
- Bono 2: Marcas y diseños industriales. Hasta 1.000 euros.
- Bono 3: Patentes. Hasta 1.500 euros.
- Bono 4: Variedades vegetales comunitarias. Hasta 225 euros.

Como novedad de este año, el bono 3 ha duplicado el reembolso máximo (hasta 1.500 euros), incluyendo lo siguiente:

- El 75% de reembolso de la tasa del Informe Tecnológico de Patentes (ITP) o Búsquedas retrospectivas. Dicho informe debe ser realizado por una oficina nacional de propiedad industrial de un Estado miembro de la UE.
- El 75% de reembolso de las tasas previas a la concesión de patente nacional (presentación, búsqueda y examen), de concesión y de publicación de patentes nacionales en un Estado miembro de la UE.
- El 75% de reembolso de las tasas de presentación y búsqueda de patentes europeas presentadas en la Oficina Europea de Patentes (EPO).

En esta edición se mantiene el requisito de solicitud previa del bono a la prestación del servicio de propiedad industrial.

Los fondos son limitados y se otorgarán por orden de llegada de las solicitudes.

[Más información](#)

EL QUÍMICO ESPAÑOL AVELINO CORMA CANÓS, PREMIO AL INVENTOR EUROPEO 2023

La *Oficina Europea de Patentes* (OEP) ha anunciado el fallo del jurado del Premio Inventor Europeo en la categoría “Trayectoria profesional”, y este año lo han otorgado al químico español Avelino Corma Canós.



Avelino Corma Canós, natural de Moncofa, Castellón, es cofundador del Instituto de Tecnología Química, centro mixto de la Universitat Politècnica de València y el Consejo Superior de Investigaciones Científicas (CSIC) y ha desarrollado una espectacular carrera profesional en el campo de los procesos químicos y catalizadores, buscando una mayor sostenibilidad, eficacia y mejora medioambiental

de las reacciones químicas en la industria, con el desarrollo de zeolitas sintetizadas.

En el campo de la propiedad intelectual e industrial, Avelino Corma figura en más de 200 patentes de invención, y en 1.400 artículos en revistas científicas nacionales e internacionales.

El Instituto de Tecnología Química (ITQ), del que es miembro fundador, tras 3 décadas de existencia es considerado un centro de referencia internacional en las áreas de catálisis, nuevos materiales y fotoquímica, ha presentado más de 150 solicitudes de patentes y ha realizado una gran labor de transferencia de la tecnología licenciando parte de ellas.

Sin duda, la OEP otorga al químico Avelino Corma un merecido reconocimiento, que se suma a los muchos que ha recibido a lo largo de su carrera científica, entre los que destaca el Premio Príncipe de Asturias de Ciencia en el año 2014, junto a los científicos estadounidenses Mark E. David y Galen D. Stucky, por sus contribuciones al campo de los materiales microscópicos y mesoporosos.

La OEP realizó la entrega del galardón a su trayectoria profesional el pasado 4 de julio en una ceremonia de entrega de premios que fue retransmitida en directo desde la ciudad de Valencia.

Patentes de Avelino Corma
European Inventor Award 2023

LA TECNOLOGÍA EÓLICA, LA TRANSICIÓN ECOLÓGICA Y LA SOSTENIBILIDAD, GANADORAS DEL PREMIO CATEGORÍA ABSOLUTA MEJOR PATENTE EN LA II EDICIÓN DE LOS PREMIOS A LA MEJOR INVENCIÓN PROTEGIDA POR PROPIEDAD INDUSTRIAL

El 14 de junio de 2023, se entregaron los galardones de la Segunda Edición de los Premios a la Mejor Invención Protegida por Propiedad Industrial, convocada por la Oficina Española de Patentes y Marcas, O.A. (OEPM), en una exitosa ceremonia celebrada en los jardines de la sede madrileña de la *Escuela de Organización Industrial* (EOI).

El acto fue inaugurado por el director general de la EOI, Juan Ignacio Díaz y Aida Fernández, directora de la OEPM, que recalcó la importancia de la protección de la propiedad industrial para garantizar un retorno del esfuerzo intelectual y económico que se invierte en poner en marcha todo ese talento creativo e innovador, y de la difusión y acercamiento de la propiedad industrial a los ciudadanos y a la sociedad y reivindicarla con acciones de relevancia como son estos Premios.



Pablo Garde, subsecretario de Industria, Comercio y Turismo y presidente de la OEPM clausuró la ceremonia con un discurso donde puso de manifiesto el gran mérito que tiene el trabajo de los inventores y el valor social que tiene la investigación y la innovación.

El objetivo de estos premios es distinguir la protección de resultados de investigación mediante Patentes y Modelos de Utilidad concedidos en el año 2021 por la OEPM, reconociendo así públicamente el valor de la I+D española protegida y posicionada competitivamente en el mercado. Con todo ello, el fin último perseguido no es otro que el de apoyar y fomentar la actividad investigadora, científica y tecnológica y premiar el carácter innovador de nuestros inventores como motor del desarrollo tecnológico de nuestra sociedad.

La ceremonia contó, además, con la participación de Ana Martínez, investigadora del CSIC y ganadora del Premio Mejor Patente en la edición anterior, gracias a su innovación consistente en un fármaco para el tratamiento de enfermedades neurodegenerativas.

[Más información](#)

