

NIPO: 220-24-025-9



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

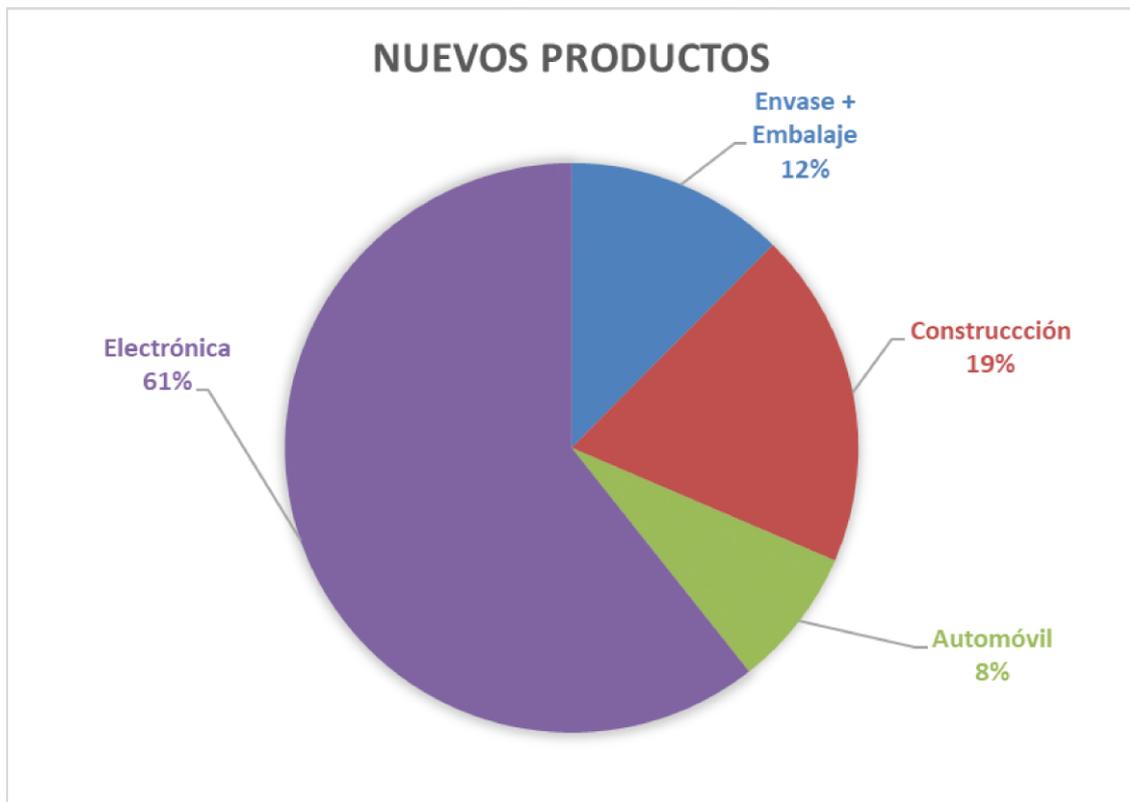


NUEVOS PRODUCTOS

SOSTENIBILIDAD Y
ECONOMÍA CIRCULARNUEVOS PROCESOS
INDUSTRIALESMATERIALES CON
PROPIEDADES AVANZADAS
O MEJORADAS

NUEVOS PRODUCTOS

En el siguiente gráfico se muestra la distribución de las 11.674 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
US2025304355	(LEST) LESTER THOMAS [US]	Self-heating beverage container E.G. paperboard carton, for heating single-serve hot beverage, has puncture device mounted on exterior surface of paperboard carton, and mineral pocket receiving liquid released from ruptured liquid chamber
DE202025105016	(WARI) WARIMEX WAREN IMP EXPORT HANDELS GMBH [DE]	Bottle for storing liquid or gel-like substances such as hygiene products I.E liquid soap, has insertion element with projection section which, in state of insertion of insertion element into cavity, projects outwards beyond bottle wall
US2025313397	(GSTC) GSTC LLC [US]	Shipping box for storing item I.E. guitar, has central panel and/or vacuum retention panels includes interior chamber, where interior chamber includes multiple microbeads, and each vacuum retention panel includes Zipper along edge
US2025320042	(WILK) WILKINSON BARRY BLAINE [US]	Container lid assembly I.E. detachable or hinged cover, for fitting opening of container used to store E.G. powdered or granular materials, has scoop comprising lid body defined by exterior upper surface configured for outward orientation relative to container and interior lower surface
US2025326525	(DENK, OBRO) DENKINGER WILLIAM [US]; OBRO TSA MARTA [US]	Container for attachment to top side of aluminum beverage, for storing items or comestibles, used in refrigerated sales cases and vending machines, has body with integral lid that is able to attach to top of aluminum beverage can
DE202025105509	(SPIL) DR SPILLER GMBH [DE]	Cosmetic packaging for creams, lotions or liquid cosmetic products, comprises two-unit closure and twopart container, where internal components of closure and container are made of polypropylene, polyethylene terephthalate or polystyrene
WO2025224004	(HOFF) HOFFMANN LA ROCHE [CH]; ROCHE DIAGNOSTICS GMBH [DE]; ROCHE DIAGNOSTICS OPERATIONS INC [US]	Element for packaging medical consumables, has carrier sheet component formed with cavity and having rim surrounding cavity, and sealing sheet material coupled to rim of carrier sheet component and sealing cavity
GB2641379	(GREI) GR8 ENG LTD [GB]	Stackable container for storing liquids, beverages or flowable solids E.G. pails formed of plastics material, has container main body whose side walls are connected with foamed regions of increased wall thickness to form ribs projecting from outer surface of container main body

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
US2025366588	(GILL) GILLETTE CO LLC [US]	Shaving razor cartridge dispensing system for dispensing shaving razor cartridges of wet shave type, has shaving razor cartridge container access opening through which shaving razor cartridges is removed from shaving razor cartridge container during use
EP4667381	(CAPA) CAPARDONI E C SRL [IT]	Container for E.G. loose large and small tablets, has insert fixed to cap with finned surface for facing cap, and providing active surface opposite to finned surface, where active surface faces inside of container when cap is closed

Construcción

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
WO2025207983	(WOLR) WOLVERINE ENCLOSURES INC [US]	Bracket assembly for use during construction of wall and ceiling of building, has attachment clip element attached to bracket element and including channel coupling element that is insertable into outer attachment channel
WO2025214925	(UPON) UPONOR INNOVATION AB [SE]	Riser system for providing heat and water in buildings, comprises pipes includes group consisting of pipe for carrying cold drinking water, pipe for carrying hot drinking water, pipe for carrying hot heating fluid, and pipe for carrying return heating fluid
EP4640965	(NOOI) S NOOIJENS BEHEER B V [NL]	Insulation material E.G. dimensionally stable volume insulation material for insulating cavity wall of building, comprises mixture of bio-based cork granulate, adhesive, and plastic beads
GB2640540	(POLI) POLIBEAM LTD [GB]	Cutable elongate box beam for use in building construction, has elongate walls, elongate side walls and elongate internal side walls defining multiple elongate enclosed cells of different sizes
WO2025231229	(NATA) GOLD BOND BUILDING PRODUCTS LLC [US]	Gypsum panel used as standalone panel in drywall construction, comprises gypsum core comprising gypsum and multilayer facing material comprising polymer, and perforations having variable diameter or variable width over portion of length
WO2025237797	(TARK) TARKETT GDL SA [LU]	Decorative homogeneous surface covering used E.G. for floor covering, wallcovering or ceiling covering comprises wear layer including thermoplastic materials having biomass-sourced filler, crosslinked transparent topcoat, and backing layer

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
WO2025237680	(AKZE) AKZENTA PANEEL PROFILE GMBH [DE]	Wall or floor panel for flooring or wall coverings in interior design, has first decorative coating layer that comprises covalent cross-connections between connections present in first decorative coating layer, where covalent bonds exist between first and second decorative coating layers
DE102024114445	(VAQT) VA Q TEC THERMAL SOLUTIONS GMBH [DE]	Vacuum insulation panel with reduced flame load for thermal insulation of high-rise buildings, comprises core material of shell and sealing layer applied to shell for enclosing flammable gases generated in event of flame inside vacuum insulation panel
WO2025242763	(CARP) CARPANZANO FABRICE [FR]	Manufacture of thermal and/or acoustic and/or fire-retardant insulating material used for constructing house or building, involves collecting banana fibers, subjecting fibers to first mechanical pressing, and shaping obtained fibers into sheet or panel by subjecting to second mechanical pressing
WO2025255608	(ARDG) ARDGARD IP HOLDING CO PTY LTD [AU]	Window assembly I.E. quick-fit and quick repair window assembly, for use with stockpile dozer for processing coal, stored in stockpiles, has sacrificial infill panel protecting window pane, and readily replaceable together with outer part
WO2025257820	(COOO) COOL ENERGY LTD [IL]	Composite material structure to operate with predetermined maximal operational temperature used in construction, comprises core portion comprising ceramic-containing material and outer shell portion at least partially encasing core portion

Automoción

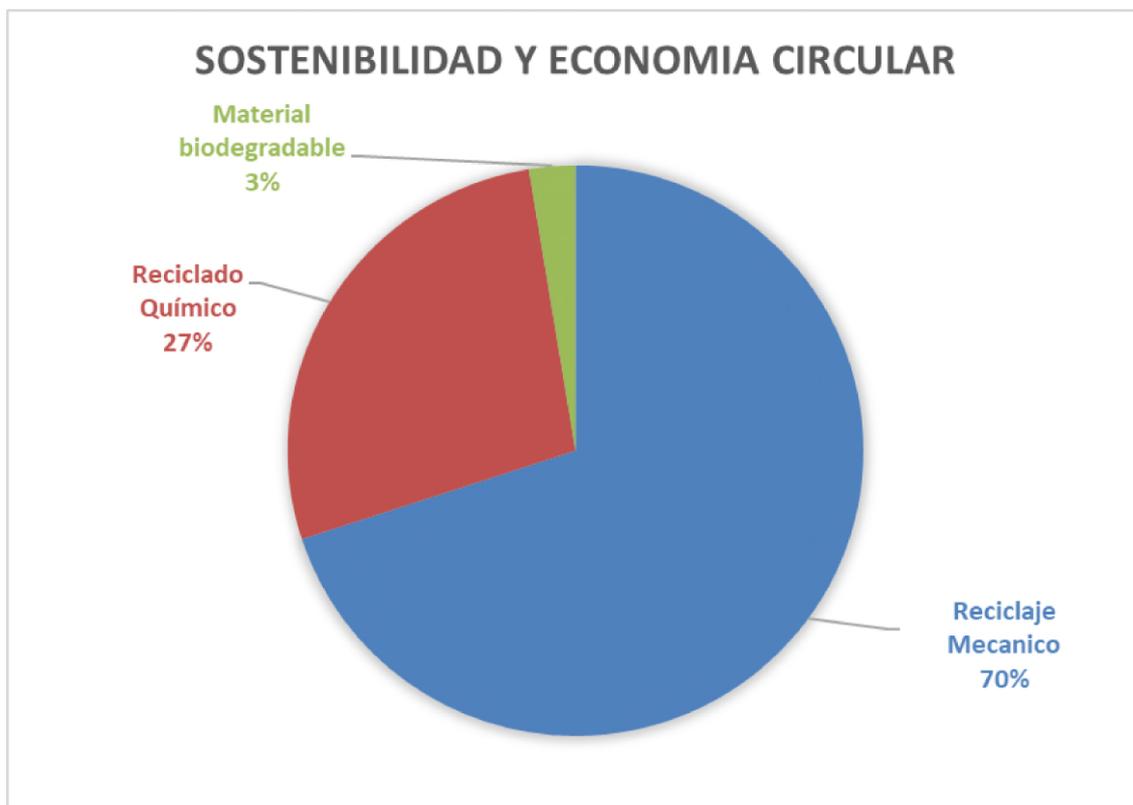
Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
US2025304190	(DAIM) DAIMLER TRUCK NORTH AMERICA LLC [US]	Fairing device for vehicle, has a first support element having a first end and a second end, where second support element is positioned proximate to the first end of the first element, and structure is provided to couple the first and second support elements
DE202025002974	(BIES) BIESTMANN ANSGAR [DE]	Mobile wind deflector for front surfaces of motor vehicles (truck), is made of stretched film and/or stretched fabric or from plastic film or fabric film molded part filled with compressed air or with lightweight filler

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
DE202025105600	(GEDI) GEDIA GEBRUEDER DINGERKUS GMBH [DE]	Strut bridge for stiffening vehicle body, has strut bridge connected in predetermined position with first end region to first strut tower of motor vehicle and with second end region to second strut tower of motor vehicle
GB2640753	(POWE) POWERTRAC RAIL LTD [GB]	Right-angled triangular shaped support bracket made of high-performance polyamide material for yellow colored guard board used in guard board apparatus to warn public about live conductor rail of railway line, has generally triangular support structure extended upwardly from base
CN121062824	(DAES, HYMR, KIAK) HYUNDAI MOTOR CO LTD [KR]; KIA CORP [KR]; DAESOL AUSYS CO LTD [KR]	Lightweight panel for vehicle, has honeycomb portion formed by machining paper honeycomb having interior formed in honeycomb structure, and reinforcing layer formed of reinforcing mat and reinforcing resin, formed on each of upper and lower surfaces of honeycomb portion
CN121062823	(DAES, HYMR, KIAK) DAESOL AUSYS CO LTD [KR]; HYUNDAI MOTOR CO LTD [KR]; KIA CORP [KR]	Lightweight panel used for vehicle such as hood, back door, and trunk lid, comprises honeycomb portion which has paper honeycomb whose interior is formed in honeycomb structure, reinforcing layer comprising reinforcing mat and reinforcing resin and upper and lower surfaces of honeycomb portion
US2025385343	(SYST) SYSTEMS PROT GROUP US LLC [US]	Thermal insulator in electric vehicle battery pack, and for battery module, comprises nonwoven layer of intertwined fibers, and outer heat-shrunk polymeric layer, and nonwoven layer of intertwined fibers is compressed by outer heat-shrunk layer

VOLVER A
CONTENIDO

SOSTENIBILIDAD Y ECONOMÍA CIRCULAR

En el siguiente gráfico se muestra la distribución de las 1.309 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
WO2025204097	(SHIP) SHIPRO KASEI KAISHA LTD [JP]	New substituted flavonoid compound used as UV absorber used in resin composition E.G. biodegradable resin composition for forming molded article
WO2025205576	(JAPC, RIKE) NIPPON CATALYTIC CHEM IND [JP]; RIKEN [JP]	Marine biodegradable polymer blend used in composition, comprises polyester polymer having structural units derived from succinic acid, dicarboxylic acid and aliphatic diol, and biodegradable polymer, in which polyester polymer and biodegradable polymer are in compatible or immiscible state
JP2025158292	(KANF, KURS)	Resin composition for forming molded article, comprises 3-hydroxyalkanoic acid polymer, and polyester polymer containing monomer units including polyhydric alcohol and dicarboxylic acid, where portion of ends of polyester polymer are blocked with (residue) of monoalcohol and/or monocarboxylic acid
KR20250144032	LG CHEMICAL LTD [KR]	Thermoplastic starch composition biodegradable composition and biodegradable film
WO2025220731	(PLAS) PLASTIFARM CO LTD [JP]	Composite plastic in the form of film, sheet or fibers, comprises poly-gamma glutamic acid that does not form poly-gamma glutamic acid ion complex and one or more types of poly-gamma glutamic acid ion complex
KR20250156987	UNIV NAT CHONNAM IND FOUND [KR]	Polybenzyl ether and contrast agent comprising the same
WO2025249456	(TORA) TORAY INDUSTRIES [JP]	Polyester composition used for forming molded article or implantable medical device such as suture, artificial bone, artificial skin, wound dressing, and carrier for drug delivery system, comprises polyester copolymer and carbodiimide compound, and has preset recovery rate

Reciclado Mecánico

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
WO2025202345	(SOPR, XCRU) XCRUSHER [FR]; SOPREMA [FR]	Method for recycling E.G. PVC/Polyethylene terephthalate membranes from production offcuts, involves performing mechanical grinding to obtain polymer ground material of intermediate granulation level
US2025307786	(COGH) COGHLAN ROBERT [US]	Full-loop method for facilitating manufacture, utilization, and reclamation of single-usage plastic cups I.E. iced coffee cup, involves interacting water-activated invisible ink imprints with condensation stowed within recycle narrating coupling reservoir region
EP4628271	(CARL) CARLISLE CONSTRUCTION MAT LLC [US]	Method for forming building material E.G. roofing insulation facer and wall sheathing cover board involves supplying shredded or granulated or pulverized thermoplastic material, and heating and compressing shredded or granulated or pulverized thermoplastic material to form rigid building material
DE102024109709	(KROE) KRONES AG [DE]	Recycling device for use in recycling plant for recycling plastic material E.G. plastic flakes or containers made of polyethylene terephthalate material, has electronic control device that controls operation of recycling device on basis of received control data and acquired measurement data
EP4635706	(ROSS) ROSSI GABRIELE [IT]	System for regeneration and advanced recycling of packaging, has conveying unit that is provided for packages to be treated towards separation unit for separating cap from packaging and collecting unit for caps separated from packaging
CZ2024135	(UTVL) UNIV V LIBERCI TECCH [CZ]	Method for removing cellulose from mechanical mixture cellulose for production of clothing textiles, involves exposing mixture of cellulose and synthetic fibrous polymer to hydrogen chloride, and processing hydrolyzing or degrading and removing from mixture by washing with water or mechanically
CZ2024134	(UTVL) UNIV V LIBERCI TECCH [CZ]	Selective disintegration of fibrous materials of polyester into particles of millimeter to sub-millimeter dimensions in production of food packaging, involves exposing material to ammonia, ammonolysis in alkaline medium, shortening macromolecules and removing amorphous phase and reducing strength

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
US2025319636	(ITRI) IND TECH RES INST [TW]	Method for generating processing parameters of waste tires for achieving desired properties of rubber crumb, involves outputting processing suggestion parameter through waterjet technology parameter optimization module and predictive processing model
DE102024110725	(UYPA) UNIV PADERBORN KOERPERSCHAFT DES OEFFENTLICHEN RECHTS [DE]	Extrusion device for separating plastic composite with two differently melting thermoplastics, has annular channel formed between sleeve tool and sleeve housing, which is connected to outside of sleeve housing via discharge channel, and fixed sleeve tool provided in the extruder housing
WO2025221489	(DOWC) DOW GLOBAL TECHNOLOGIES LLC [US]; DOW SILICONES CORP [US]	Self-sealing tire recycling apparatus element is provided for collecting removed silicone self-sealing tire sealant from a self-sealing tire including one of a container with one side open or a moving conveyor belt to receive the removed sealant, and a vacuum sucking device
US2025326162	(POUL) POULOS ANTHE [US]	Re-purposable container system comprises vessel configured to house container, where vessel comprising bottom piece comprising recesses configured to receive container while container is in liquid state
EP4644118	EUROPEAN PLAST RES & DEVELOPMENT SA [LU]	A method to provide a bird- and/or rodent repellent polymer film
WO2025229450	(NVCH) NOVA CHEMICALS INTERNATIONAL SA [CH]	System for wet and dry mechanically recycling E.G. organic waste, has extrusion unit for receiving, melting, and extruding dried plastic material stream and shredded plastic waste stream to produce mechanically recycled plastic material
WO2025229170	(BADI) BASF SE [DE]	Melt handling device for handling liquid hot melt in particular discharged from extruding device, has funnel comprising inlet for introducing liquid hot melt into funnel, and comprising nozzle configured to discharge transport fluid to inner wall of funnel and towards outlet
US12468268	(CART) CARTER RYAN [US]	Method for additive adjustments in plastic recycling system, involves obtaining sensor input indicative of characteristics of input stream of material into plastic recycling system, determining, based on sensor input using machine learning model, target set of characteristics of output material
JP2025172433	(CANO) CANON KK [JP]	Liquid storage container comprises storage portion configured to store a liquid, discharge portion configured to discharge the liquid, and a sealing portion configured to seal the discharge portion, where liquid storage container comprises a compound whose absorption spectrum peak changes

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
EP4650136	(SYNE) SYNEXTRA S P A [IT]	Plant used for sorting polyolefin-based waste, includes second station is configured for removal of metal fragments from flow of material, aeraulic separator is configured for separating three dimensional polyolefin fraction comprises polyolefin fragments with bulk density
EP4650135	STRATEGIC SPORTS LTD [CN]; JIANNING TECH DEVELOPMENT CO LTD [HK]; DONGGUAN STARTEGIC SPORTS CO LTD [CN]	Helmet recycling method and helmet disassembly device including a disassembly mechanism
GB2641285	(GENE) GENERATION PHOENIX LTD [GB]	Removing non-fibrous material from fibrous waste involves inserting milled fibrous waste into chamber, milled fibrous waste comprising fibres and non-fibrous particles, dispersing milled fibrous waste in chamber such that milled fibrous waste becomes airborne in chamber
WO2025243333	(ONEZ) 100% TURFRECYCLERS SRL [IT]	Method for separating infill for artificial grass surfaces, involves pouring mixed infill fraction onto respective vibrating table and running flow of water having flow direction over table to move second sub-fraction in accordance with flow direction
US2025361377	(UNCR) NORTH CAROLINA AGRICULTURAL AND TECHNICAL STATE UNIV [US]	Deconstructing plastic involves conducting pyrolysis of the plastic in the presence of a composite catalyst, where the composite catalyst comprises zeolite and silica
US2025367717	(HYMR, KIAK, USKK) HYUNDAI MOTOR CO LTD [KR]; KIA CORP [KR]; RESEARCH & BUSINESS FOUNDD SUNGKYUNKWAN UNIV [KR]	Method of recycling vehicle waste material, involves treating pulverized vehicle waste material placed in container by allowing supercritical fluid to flow within container under conditions of predetermined temperature, pressure, and time; and obtaining pulverized vehicle waste material
WO2025247872	(SUEZ) SUEZ INT [FR]	Method for treating used or defective photovoltaic panel, involves heat treating second assembly under nitrogen at temperature sufficient to decompose polymer materials of cohesive layers and obtaining residue comprising components from cells
WO2025253258	(SCMI) SACMI [IT]	Method for producing polyolefin food grade recyclates for use in direct contact with food used in food packaging industry E.G. plastic caps, involves providing each pack with information related to physical property parameter of polyolefin food grade recyclates contained in pack
EP4667126	(ENGI) ENGITEC TECH S P A [IT]	Spent and/or decommissioned lead-acid accumulator treatment plant used for treating spent and/or decommissioned lead-acid accumulators, has grinder device used to receive many spent and/or decommissioned lead-acid accumulators, many separator devices

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
EP4670942	(FRAU) FRAUNHOFER GES FORSCHUNG [DE]	Method for separating fiber layer from multi-layer fiber composite material, involves applying curvature to fiber layer or to multilayer fiber composite material around axis parallel to direction of crack propagation during separation of fiber layer

Reciclado Químico

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
WO2025202552	(ELRO) ELKEM SILICONES FRANCE SAS [FR]	Use of silicon powder as catalytic filler for silicone composition crosslinking by polyaddition and recycling silicone material, obtained by subjecting silicone material to polyaddition reaction, and crushing material
WO2025207032	(SGST) AGENCY SCIENCE TECH & RES [SG]	Producing fatty alcohol, comprises oxidizing polyolefin in presence of iron (II) catalyst and peroxide initiator and hydrogenating dicarboxylic acid in presence of metal catalyst
WO2025212042	(SGST) AGENCY SCIENCE TECH & RES [SG]	Polymer electrolyte for lithium-ion battery, comprises graft copolymer comprising polyolefin backbone and polyester grafts, and alkali metal non-coordinating salt
WO2025209816	(SYEN) SYENSQO SPECIALTY POLYMERS ITALY S P A [IT]	Extraction of vinylidene difluoride polymers from solid composition used for reducing environmental impact of recycling process of spent battery, involves contacting solid composition comprising vinylidene difluoride polymer with supercritical fluid and forming polymer solution and extracted residue
WO2025216960	(EACH) EASTMAN CHEM CO [US]	Recycling of poly (vinyl butyral) for forming sheet, involves pyrolyzing portion(s) of feedstock comprising poly (vinyl butyral) composition in initial pyrolysis stage to provide pyrolysis effluent and liquid reaction medium, and pyrolyzing liquid reaction medium to form pyrolysis effluent
WO2025215212	(TEKN, VSTA) TEKNOLOGISK INST [DK]; VESTAS WIND SYS AS [DK]	Extraction of polymer fractions from synthetic polymer portion of structural material for producing fresh polymer, involves immersing portion of synthetic polymer in extraction fluid to penetrate extraction fluid into synthetic polymer portion, cleaving linkages and liberating polymer fractions
WO2025216943	(HARD) HARVARD COLLEGE [US]	Performing biodegradation useful for degrading mixture of plastics involves applying composition comprising <i>Cupriavidus gilardii</i> cells to mixture of plastics or to product comprising mixture of plastics

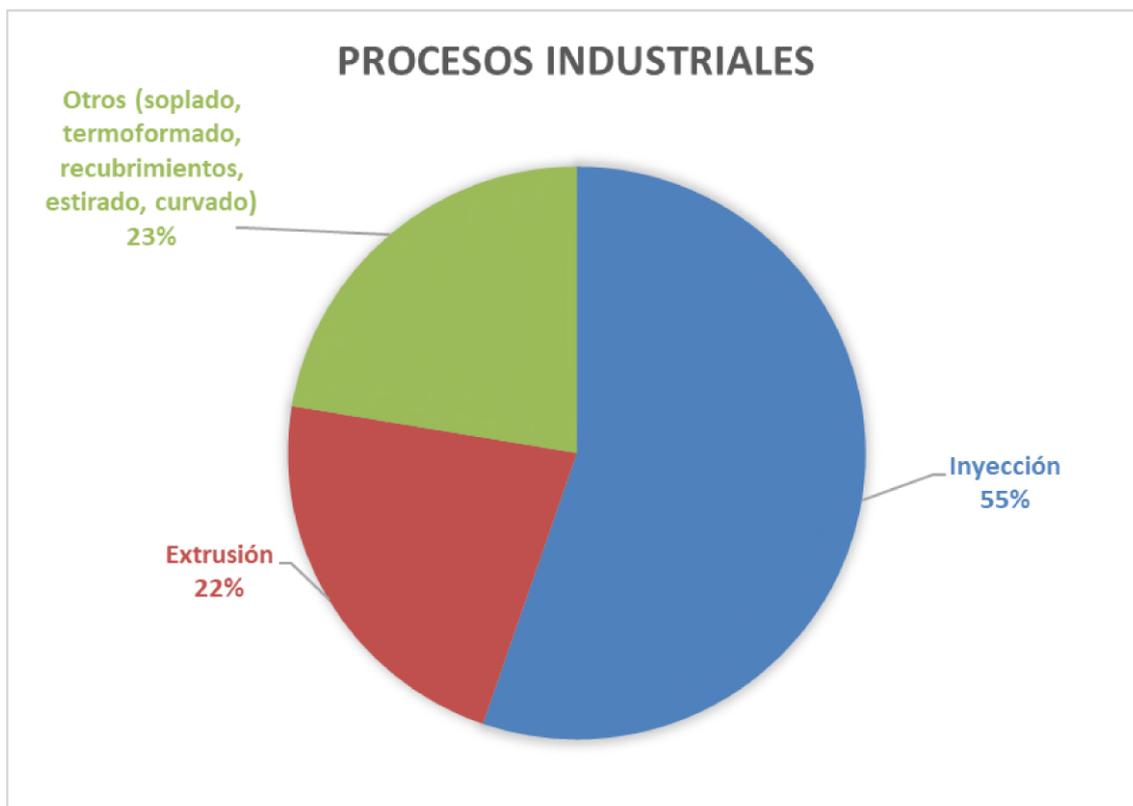
Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
WO2025221526	(EACH) EASTMAN CHEM CO [US]	Recycling of waste plastic E.G. polyethylene terephthalate, involves depolymerizing waste plastic comprising polyalkylene terephthalate in reaction mixture containing waste plastic, continuously removing portion of water from mixture and transesterifying dialkyl terephthalate in dehydrated product
WO2025221529	(EACH) EASTMAN CHEM CO [US]	Recycling of waste plastic E.G. polyethylene terephthalate, involves depolymerizing waste plastic comprising poly (alkylene terephthalate) in presence of alcohol and exogeneous glycol to form mixture comprising dialkyl terephthalate, and transesterifying portion of dialkyl terephthalate with alcohol
WO2025222239	(UDIK) UNIV DEAKIN [AU]	Separation of non-entangled particles/short fibers mixture E.G. cotton from textile waste, involves dispersing non-entangled particles/short fibers in non-oil miscible medium mixed with oil to form oil-water phase medium, separating non-entangled particles/short fibers by flotation, and filtering
WO2025224702	(BRAI, POCO) BRAIMAN MARK [US]; POCOROBBA JACK [US]	Composition of material used in vessel, comprises mixture comprising bromine-containing compound, and per- or polyfluoroalkyl substance
WO2025224749	(COUI) COUNCIL SCIENT IND RES [IN]	Preparation of value added products by depolymerization of polycarbonate involves reacting polycarbonate with secondary amine as aminolytic agent in presence of solvent preset conditions to obtain value added products without using catalyst and additive
WO2025226218	(UYTU) UNIV NANYANG TECH [SG]	New compound comprising carbon nitride with tri-coordinated nitrogen vacancies and oxygen-linked heptazine units, used E.G. for upcycling copolymers, mixed plastics, post-consumer plastic wastes and contaminated real-life plastic waste
WO2025222290	(LAVE) LAVERGNE GROUPE INC [CA]	Recovery of resin from rubber-based post-consumer recycled resin E.G. polystyrene, involves liquid-liquid extracting rubber phase from recycled resin, solubilizing and precipitating with polyreactive agent, precipitating high rubber-content and rubber-free resins, and selectively solubilizing resin
WO2025229080	(SHEL) SHELL INT RESEARCH [NL]; SHELL USA INC [US]	Process for depolymerization of polyurethane material E.G. polyurethane foam, involves E.G. reacting polyurethane material with alcohol, separating polyol and aromatic mixture comprising polycarbamate and amine-containing compound, and converting mixture into polycarbamate aromatic fraction
WO2025235307	(ALLU) ALLIANCE SUSTAINABLE ENERGY [US]	Method of deconstructing mixed plastics, involves solvolysing of fraction of mixed plastics, and oxidizing of fraction of mixed plastics in presence of oxygen

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
DE102024113188	(CARB) CARBOLIQ GMBH [DE]	Producing heteroatom-containing monomers during pyrolysis of polymer-containing starting materials, involves E.G. subjecting starting material comprising heteroatom-containing polymer to pyrolysis, obtaining product gas and spray cooling
FR3162051	(CNRS, ECOL, PARS) PARIS SCIENCES ET LETTRES [FR]; ECOLE NAT SUPERIEURE DE CHIMIE DE PARIS [FR]; CENTRE NAT RECH SCIENT [FR]	Treating used plastic portion comprises organic filler and one inorganic filler to recover separately, involves recovering solid phase(s) of plastic material by a solid-liquid separation and isolating from each of phases, separated by their difference in density, organic and inorganic filler(s)
WO2025237152	(BADI) BASF SE [DE]; BASF CHINA CO LTD [CN]	Recovery of hydroxy-containing polymeric composition for preparing polyurethane, involves mixing degradation product of end-of-life polyurethane including hydroxy-containing polymeric composition and solid particulates, with filter aid, and separating composition from mixture by centrifugation
WO2025239991	(MASI) MASSACHUSETTS INST TECHNOLOGY [US]	Degrading polyesters E.G. polybutylene succinate and polycaprolactone comprises lyophilizing engineered bacteria expressing lipase and foldase, dispersing lyophilized bacteria in sample including polyester, and degrading polyester in sample
WO2025250657	(REDI) REDIVIUS LLC [US]	System for recovering constituents of asphalt shingles, consists of mixer configured to receive and mix asphalt shingles and solvent to produce slurry, filter, dryer configured to receive and heat cake material to isolate constituent of asphalt shingles, centrifuge, dryer and distillation unit
WO2025257188	(OLIN, TEKN, VSTA) TEKNOLOGISK INST [DK]; VESTAS WIND SYS AS [DK]; OLIN GERMANY UPSTREAM GMBH & CO KG [DE]	Method of degrading epoxy of epoxy containing material for producing E.G. bulgy panels, involves subjecting epoxy containing material comprising epoxy to degrading fluid containing formic acid and acetic acid for degrading period
WO2025262028	VALEO SYSTEMES THERMIQUES [FR]; SPECIFIC POLYMERS [FR]	Plastic material comprising at least one polymer
WO2025262501	(UNIN) UNILIN BV [BE]	Recycling PVC products including polyvinyl chloride floor or wall coverings, comprises subjecting PVC products to solvent-based extraction, and separating at least partially second thermoplastic polymer from first thermoplastic polymer
WO2025264582	ALIGN TECHNOLOGY INC [US]	Recovery of hydroxyl-containing compounds and (meth)acrylate monomers from 3D printed polymeric material
WO2025265048	(DAVI, GOOD, RAVE, WOLF) RAVEL HOLDINGS INC [US]; GOODS JOHN B [US]; DAVIS FOREST GERARD [US]; WOLFORD ZACKARY AIDAN [US]	Preparation of elastane-containing solution for forming purified elastane, involves contacting textile feedstock with organic solvent, dissolving or suspending additive component in organic solvent, separating portion of solvent from feedstock, and contacting feedstock with portion of solvent

VOLVER A
CONTENIDO

NUEVOS PROCESOS INDUSTRIALES

En el siguiente gráfico se muestra la distribución de las 7.705 familias de documentos de patente recuperadas en este trimestre en el apartado de Nuevos procesos industriales. El proceso que mayor actividad innovadora reflejan es el de inyección



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
WO2025223944	(SILV) SILVERSTONE PERFORMANCE TECH LIMITED [GB]	Method of forming an assembly using thermoplastic unit, involves providing multiples of separate thermoplastic unit; heating one or more of the thermoplastic unit along at least one or more joining surfaces of thermoplastic unit
US2025346006	(SHEN) SHENZHEN LINKTOP IOT CO LTD [CN]	Integrated injection-molding method for a lens I.E. flat lens, involves selecting high-transparency polycarbonate material, and determining whether product body is qualified according to strict quality standard to ensure that product body flowing into market has reliable quality
CN120828502	(NIKL) JAPAN STEEL WORKS LTD [JP]	Vertical mold clamping apparatus for use in vertical injection molding machine, has movable plate component placed on fixed platen and attached with lower molding die, and movable platen attached with upper molding die
US2025304190	(DAIM) DAIMLER TRUCK NORTH AMERICA LLC [US]	Fairing device for vehicle, has a first support element having a first end and a second end, where second support element is positioned proximate to the first end of the first element, and structure is provided to couple the first and second support elements
WO2025238403	(MAGN) MAGNESIUM PRODUCTS OF AMERICA INC [US]	Die carrier used for die case assembly, comprises ends connected through frame and at least one hydraulic assembly arranged within frame and containing hydraulic jack structured to extend away from frame responsive to load applied to die carrier
EP4647232	(PROG) PROGRESSIVE COMPONENTS INT CORPORATION [US]	Mold safety strap for securing two mold halves together, has strap body whose first end is connected to first mold half and second end is connected to second mold half, and frangible section formed between first end and second end of strap body
CN121043426	(FORD) FORD GLOBAL TECH LLC [US]	Method for forming vehicle part having structural reinforcement E.G. exterior components of vehicle, involves injecting fluid into mold cavity to hollow center portion of molten resin and removing fluid from mold cavity after hollow center portion is formed
CN120986302	(WESF) HELLA SATURNUS SLOVENIJA D O O [SI]	Illuminated trim part for vehicle, has light source for providing light, opaque component applied to transparent or translucent carrier layer or integrated into carrier layer, and painted layer applied to carrier layer

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
FR3163036	(MOTS) SMRC AUTOMOTIVE HOLDINGS NETHERLANDS BV [NL]	System for embedding airbag channel sealing flap and hinge for making shutter hinge, comprises reinforcing material that is over molded with material of sealing flap, and injection mold is configured at level of structure intended for formation of hinge of sealing flap
AU2024203539	(SUPE) SUPERCART SOUTH AFRICA PTY LTD [ZA]	Apparatus for forming plastic shopping basket body for shopping trolley for use by children, has form insert panels that are readily interchangeable to enable basket bodies to be molded with different customer-specific formations and/or apertures, for different customers
EP4647230	(FASS) FASSNACHT WOLFGANG [DE]	Gear unit for converting drive movement of drive into linear and rotary movement of tool part of forming tool of plastic injection molding device, has helical recess section formed into linear recess section when shaft is actuated by drive parallel to shaft axis
DE102024111872	(SYNV) SYNVENTIVE MOLDING SOLUTIONS INC [US]	Nozzle assembly for injection mold suitable to supply melted plastic material into cavity of injection mold, has force sensor that interconnects actuator housing and nozzle housing to determine force acting on valve needle through actuator housing
WO2025261632	(IMAG) IMAGINE [FR]	Mold for manufacturing conveyor or power transmission belt for use in high-speed power transmission, has side plates for defining side edges of belt, and lower plate and upper plate for defining lower and upper surfaces of belt
WO2025219413	(SILV) SILVERSTONE PERFORMANCE TECH LIMITED [GB]	Method for joining thermoset parts used for forming crash structures for E.G. cars, involves applying a thermoplastic interface layer to surface of thermosets parts, and molding thermo-plastic connection structure onto interface layer
US2025345974	(ECOP, HYMR, KIAK) HYUNDAI MOTOR CO LTD [KR]; KIA CORP [KR]; ECOPLASTIC CORP [KR]	Method of manufacturing a transmission cover for a Light Detection and Ranging (LiDAR) sensor, involves preforming film layer configured to transmit infrared rays in a specific wavelength range; inserting film layer into a mold structure
DE102024109457	(OESL) OECHSLER AG [DE]	Producing pre-molded part and/or radome used in radar devices for vehicles, involves forming a pre-molded part with a contact element for electrically contacting a heating unit, where the contact element is partially overmolded with plastic such that a contact area remains partially free of plastic
WO2025217142	OURA HEALTH OY [US]	Techniques for manufacturing a wearable device using vacuum or pressure-formed domes

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
CN121004715	(NIKL) JAPAN STEEL WORKS LTD [JP]	Lifting apparatus for use in injection molding machine, has lifting plate which arranged on base of injection molding machine and on which injection apparatus mounted, where drive unit includes feed screw and used to move lifting plate up and down relative to base
JP2025185863	(BRID) BRIDGESTONE SPORTS CO LTD [JP]	Vertically separating two-portion golf ball mold for molding golf ball, has multiple vent pins located inward from where support pins located outermost as seen from poles of spherical cavity are positioned
US2025347494	(NOTH) NORTHROP GRUMMAN SYSTEMS CORP [US]	Hybrid pad system for being positioned between missile and launch tube in missile launching system for maintaining missile alignment, has resilient structure comprising multiple web regions, where each web region includes first web element that is coupled with outer sheet and inner sheet
EP4650142	(HAID) HAIDLMAIR HOLDING GMBH [AT]	Injection mold, has temperature control device comprising first fluid line and second fluid line for connecting mold plate and tool part and mold plate for rigid pipe comprising receptacle to guide pipe in and up to end pipe section
JP2025179294	(SHIH) SEIKO EPSON CORP [JP]	Material supplying device for use in three-dimensional molding device I.E. injection-molding device, has plasticizing section is configured to plasticize material to generate plasticization material, and nozzle is configured to supply plasticization material to outside
US2025332640	SEIKO EPSON CORP [JP]	Flow rate adjusting device, three-dimensional modeling device and injection molding device
US2025375928	(LACK) LACKS ENTPR INC [US]	Polymeric component for vehicle, has first component formed of first polymer resin, where first unit includes first exposed surface, and second unit formed of non-plateable resin and molded with first unit, where second unit including second exposed surface
CN120833021	(SUMH) SUMITOMO HEAVY INDUSTRIES [JP]	Molded product management device, has data storage part configured to store identification information of each molded product manufactured by injection molding machine in association with material loss amount per molded product manufactured during set period of time
JP2025180382	(SHIH) SEIKO EPSON CORP [JP]	Injection molding device for use in injection molding die of hot runner device, has partition element arranged in first through hole or second through hole to surround probe and partitioning first space and second space

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
US2025332775	(JUNH) JUN HE TECH CO LTD [TW]	Optical lens injection molding module for realizing injection molding of optical lenses, has temperature controlled flow channels each that comprises two opposite circular paths with outer circular section and inner circular section respectively arranged along outer edge and inner edge of cavity
WO2025222274	(MICH) MICHMAR DESIGNS INC [CA]	Toilet I.E. non-portable usage unit or assembly for residential and/or commercial use, has lower portion secured to upper portion, and including lower bowl, where lower portion is overmolded on trap, and trap is adapted to interconnect lower bowl and discharge line
US2025353228	(SYNV) SYNVENTIVE MOLDING SOLUTIONS INC [US]	Apparatus for performing injection molding on material, has component removably mounted within cavity and covering positioned about component, where covering forms liner about cavity
DE102024116434	(FINA) FINATEC HOLDING AG [CH]	Device for manufacturing beverage closures, has conveying device that transports beverage closures from forming device to folding device, and testing device that is arranged upstream of folding device
US2025305272	(RESO) RESORTMENTS LLC [US]	System for constructing modular housing in indoor environment of E.G. modular home, has wall extensions that are extended downwardly and aligned with housing wall and include multiple elongate extruded elements extended downwardly and inserted into inner insulation layer of housing wall
DE102025122870	(OERL) INGLASS SPA [IT]	Method for injecting molten material from injection point into cavity of mold during injection molding process, involves continuously moving valve configured to throttle first pass to regulate flow exiting injection point
DE102025122754	(OERL) INGLASS SPA [IT]	Shut-off valve for controlling flow of molten material exiting from injection point into cavity of casting mold, has slide that is movably mounted such that free end of slide moves towards and reaches point within passage to throttle and close passage
US2025340000	PROGRESSIVE COMPONENTS INT CORPORATION [US]	Gate insert for injection molding
US2025347493	(NOTH) NORTHROP GRUMMAN SYSTEMS CORP [US]	Sling pad system i.e launch pad and stowage pad for use with missile launching systems to maintain missile alignment, has inner sheet spaced from outer sheet, where resilient structure positioned between outer sheet and inner sheet, and first segment of structure extended

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
DE102024109293	(CONW) CONTITECH VIBRATION CONTROL GMBH [DE]	Injection molding process for producing component, such as engine mounting and chassis for motor vehicle, involves placing annular channel in mold, and melting polymeric material composition to form polymer melt, and filling annular channel
EP4640400	(SFBS) S F B S R L [IT]	Injection molding device for molding sole onto upper surface of shoe, has third blocking unit that is rotatably supported by second blocking unit around second rotation axis, and third support mold is fixed to second blocking unit
CN120963496	(TOYT) TOYOTA BOSHOKU KK [JP]	Seat pad for use in seat of vehicle i.e automobile such as railway, has flow passage cover including cover bent portion bent toward seat front side to form recess for receiving bank portion that protrudes from molding surface at peripheral edge portion of cover
US2025353227	(RHOA) RHOADS SHANNON M [US]	Injection molding device for securing bushing in block that utilized to supply molten plastic to mold, comprises notch arranged on one side of bore, where keeper for releasably securing bushing in bore, and bushing arranged for controlling movement of rod located in bore
EP4647233	(PROG) PROGRESSIVE COMPONENTS INT CORPORATION [US]	Runner turn-off for mold for opening and closing mold gates in mold installations, has cylindrical shape with machining flat on each of two opposing sides of bottom ring and partially extending into top ring, and top ring includes hex opening in top surface
DE102024112101	(SUMM) SUMMERER TECH GMBH & CO KG [DE]	Injection mold for producing plastic molded unit with flat insert, has opening that is arranged above insert and is bounded by slide received in second half, slide has surface that deflects flow direction of melt before it reaches opening during injection mold process
US12479979	(LOLI) LOLIWARE INC [US]	Making biodegradable article involves combining carrageenan and chitosan or chitin, one plasticizer, one filler, and one anhydride crosslinker to make pre-process mixture, and blending pre-process mixture
WO2025224329	(LEGO) LEGO AS [DK]	Method for controlling injection molding process in injection-molding machine used for manufacturing plastic portions, involves controlling machine by adjusting molding parameter of machine to adjust mass of melted polymer material
WO2025224031	(ESSI) ESSILOR INT [FR]	Method for manufacturing optical article with encapsulated microstructures, E.G. ophthalmic lens, for myopia control in kids and teens, involves providing support layer having microstructures on front convex surface, where support layer includes first optical thermoplastic material

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
EP4644085	(OERL) INGLASS SPA [IT]	Method for injecting a molten material from a nozzle into a mold during an injection molding process, involves traveling molten material along final section of internal central cavity to reach nozzle and proceed inside mold
CN120828517	(NIKL) JAPAN STEEL WORKS LTD [JP]	Injection molding machine for use in injection molding system for manufacturing molded article by injecting injection material into mold to be clamped by clamping apparatus, has injection apparatus that injects injection material into mold and clamping apparatus clamps mold
DE102025122684	(OERL) INGLASS SPA [IT]	Shut-off valve for use as plate slide for controlling flow of molten material exiting from sprue towards cavity during injection molding, has sliding element and actuating element coupled through inclined plane to convert linear displacement into sliding element displacement
WO2025231079	(MOXI) MOXIETEC LLC [US]	Heated runner separator for separating plastic runner in cold runner system between injection cycles of injection molding process using three plate molds of injection molding system, has heated melt disk provided with central aperture, and heating band positioned around heated melt disk
CN120886430	(COUT) COMERCIAL DE UTILES Y MOLDES SA [ES]	Slider assembly for injection molds, has traction element for moving pushing element that is provided with teeth, which is engaged with rack such that movement of pulling element traction causes movement of slider body through rack and pushing element
AU2025202264	(SMSC) SAMSONITE IP HOLDINGS SARL [LU]	Luggage case E.G. plastic luggage case, for use by traveler during travel, has integrally formed inner rim positioned at interior of outer rim, where inner rim extends along portion of length of outer rim and inner rim extends at acute angle away from sidewall
DE102025122865	(OERL) INGLASS SPA [IT]	Shut-off valve for designed as plate slide for controlling flow of molten material during injection molding, has profile slidably coupled to section of slide such that rotation of rotatable element leads to displacement of slider towards and away from point
DE102024203491	(BOSC) BOSCH GMBH ROBERT [DE]	Chip for use in fluidic cartridge utilized for analysis of body fluids and for timely diagnostics in doctor offices and hospitals, comprises cavities that are formed as recesses on surface of chip and formed in matrix-like structure on surface of chip

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
US2025375929	(PLUM) PLUME DESIGN INC [US]	Forming apparatus involves forming rigid logo having logo shape protruding from rigid substrate, forming aperture in flexible backing, aperture having aperture shape corresponding to logo shape, positioning logo shape in aperture to protrude from front surface of flexible backing through aperture
WO2025222445	(SIEI) SIEMENS IND SOFTWARE INC [US]; SIEMENS LTD CHINA [CN]	Method for designing cooling channel in injection mold of electronic device, involves determining positions of cooling channels in mold based on positions of sides of target polygon, to generate cooling channels based on positions of cooling channels in mold
US2025353229	(RBDI) RB DISTRIB INC [US]	Method for producing engine oil adapter assembly for use in motor vehicle, involves forming single polymeric body having lower surface configured to mate with lubrication in engine, and lubrication flow path that for establishing communication channel between lubrication network and filter housing
FR3162588	(SYMB) SYMBIOSE [FR]	Component obtained by in-mold electronics (IME)-type manufacturing process, has connector which includes pin integral with base and projecting from first face oriented towards flexible support, where each pin has length, such that pin is partially embedded in main portion during injection
US2025319259	(BECT) BECTON DICKINSON CO [US]	Two-portion stopper comprises stopper cap formed from first polymer material formed from first polymer material that has processed at low temperature, and stopper body formed from second polymer material that has processed at higher temperature
US12481843	(META) METALAND LLC [US]	Method for manufacturing radio-frequency identification-enabled metal smartcard realizing contact and contactless functionality for industrial and commercial industries, involves forming sacrificial layer on front surface, and filling module opening with thermosetting resin
DE102024117332	(GRHE) GROHE AG [DE]	Method for manufacturing valve body for sanitary fitting, involves connecting functional components with connecting element, and producing valve body by partially encasing functional components and connecting element
CN121105318	(OERL) INGLASS SPA [IT]	Shut-off valve for controlling flow of molten material from injector gate towards mold cavity during injection molding, has second circular array of magnetic poles installed in stator, where magnetic poles of first and second circular array is magnetically interacted with each other

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
FR3161934	(ILLT) ILLINOIS TOOL WORKS [US]	Hose clamp for securing pipes such as hoses, has first section and second section which each comprises respective engagement element connected to first and second sections in relationship spaced by several flexible links
WO2025237705	(UNIL) UNILEVER IP HOLDINGS B V [NL]	Oral care implement E.G. electronic toothbrush, has handle including handle part and neck part between handle part and head, where handle includes surface area and volume and comprises recesses
EP4644084	(HSUY) HSU YI HAO [TW]	Ultra-critical molding method for manufacturing double-layer sole structure, involves operating pump unit to pump gas out of injection space while injecting injection material into injection space to create vacuum
US12478460	(RUAN) RUAN QIANG [CN]	Electric toothbrush head, has connecting cavity connected to inner surface of accommodating cavity through connecting part, where mounting opening is in communication with insertion channel
CN120941677	(TOXY) TOYO MACHINERY & METAL [JP]	Injection molding machine for forming molded articles, has control device for causing display device to display change information entity screen to display change information entity related to item selected by item selection operation superimposed on set screen
GB2641379	(GREI) GR8 ENG LTD [GB]	Stackable container for storing liquids, beverages or flowable solids E.G. pails formed of plastics material, has container main body whose side walls are connected with foamed regions of increased wall thickness to form ribs projecting from outer surface of container main body
US2025332771	(KASA) KUKA SYSTEMS NORTH AMERICA LLC [US]	Transfer molding system to transfer molten resin material into component core I.E. rotor core for interior permanent magnet motor, has actuator aligned with index location of core support, where actuator moves respective component core at index location from position on support
US2025312983	(LINT) LIN TSAI HUI [TW]	Method for manufacturing composite inner cup containing high-temperature hot drinks by injecting cup rim portion of metal cup body through mold, involves injecting plastic into cup rim space for allowing plastic to melt and fuse with upper ring and lower ring to form cup rim portion
US2025367865	(TSMC) TAIWAN SEMICONDUCTOR MFG CO LTD [TW]	Die ejector for use in a die ejector system for separating a die from an adhesive tape in a semiconductor device manufacturing process, has ejector holder in an ejector cap, and multiple ejector rods are provided in the ejector holder

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
CN121004724	(CANO) CANON KK [JP]	Molding die for use in injection molding apparatus, has runner defined by runner surface, and cavity defined by molding surfaces, where material of first die and second die contains resin, ceramic, and glass as main component
US2025304236	(UYWI) UNIV WICHITA STATE [US]	Composite window plug for plugging a window hole in an aircraft, comprising stamped composite laminate having exterior surface and interior surface; and over-molded rib structure fused to the interior surface of the composite laminate

Extrusión

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
US2025334212	JDR CABLE SYSTEMS LTD [GB]	Reinforced hose
EP4649833	(NEDE) TNO [NL]	Protein structuring module for use in arrangement for providing structured protein substance for manufacturing of food product, comprises conduit between inlet and outlet of protein structuring module
US2025312967	(SAOI) SAUDI ARABIAN OIL CO [SA]	Multi-screw extruder for use in extruder barrel assembly of large-format three-dimensional printer, has nozzle being in fluid communication with common collection chamber and defining material outlet through molten printing material
DE102024111666	(WEBE) HANS WEBER MASCHF GMBH [DE]	Device for centering extrusion tool for extruding extrusion material of extrusion device, has housing device on or in which multiple centering elements are arranged or formed, and multiple centering elements are configured to exert centering force on extrusion tool to be centered
CN120840371	(TOAI) TOKAI KOGYO CO LTD [JP]	Method for producing weather strip, involves providing weather strip with seal portion that is configured to be sandwiched between periphery of car body opening part and door body for closing car body opening part and seal space
WO2025207410	(XALO) XALOY LLC [US]	Extruder barrel for extrusion assembly to engage barrel portions using mechanical fastening units or components, in extrusion industry for manufacture of objects that have fixed cross-sectional profile upon being exerted through shaping die, has second barrel portion engaged with first portion

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
FR3163298	(CQFD) CQFD COMPOSITES [FR]	Thermoplastic composite profile of panel frame, has first reinforcing material that is coated with first thermoplastic matrix and main portion having unidirectional fiber strands that form first reinforcing material and that is partially covered with outer layer
WO2025222232	(EREM) EREMA ENG RECYCLING MASCHINEN & ANLAGEN GMBH [AT]	Extruder E.G. multi-screw extruder for processing and melting polymeric material, has resistance element that is formed or arranged to generate resistance for material in area from less than predetermined value before end of pocket to less than predetermined value after end of pocket
DE102024115112	(WINM) WINDMOELLER & HOELSCHER [DE]	Producing multilayer film E.G. to generate electrical energy by film extrusion plant involves E.G. discharging melt by extruder nozzle head by opening nozzle of extruder nozzle head and post-processing continuous multilayer material film
FR3161872	(FAUR, INDO) FAURECIA SIEGES DAUTOMOBILE [FR]; INDORAMA VENTURES MOBILITY OBERNBURG GMBH [DE]	Continuous method for manufacturing mattress, involves providing rows of continuous fused fibers, and extending row along longitudinal direction of extrusion die, and arranging rows side-by-side along width direction of extrusion die
DE102024203772	(BOSC) BOSCH GMBH ROBERT [DE]	Method for performing additive manufacturing of three-dimensional component from E.G. granules made of thermoplastic polymer, involves arranging components of bulk material in row by rotating drum in sorting device arranged on inner wall of drum
WO2025242530	(MICL) MICHELIN & CIE [FR]	Method for managing operation of extruder used in tire manufacturing, involves driving non-zero length of extruded product along opposite direction to direction of production by rotating profiling rollers
DE102024109487	(DED0) DEDON GMBH [DE]	Plastic band for piece of furniture such as outdoor furniture, comprises monomer underlying granulate produced from biologically produced reactant, and produce polyolefin tape by pressing processed granulate through nozzle
WO2025245074	(PROA) PROAMPAC HOLDINGS INC [US]	Forming foamable polypropylene extrusion mixture for product and forming polypropylene foam tray, involves providing polypropylene resin, heating polypropylene resin and blending nucleating agent into polypropylene resin, blending polymer stabilizer into polypropylene resin
US2025326174	(CHOI) CHOICE EQUIPMENT COMPANY LLC [US]	Support E.G. trailer, for storing watercraft in water, has board including first slot and second slot, where first slot is engaged with first lock element and second slot engaged with second element to attach board to extrusion element

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
US2025347125	(INNO) INNOVATIVE CONSTRUCTION MAT HK LTD [CN]	Drainage mesh for use in exterior wall system of building, has lattice structure including set of intersecting strands, where set of protrusions extends orthogonal from intersection of intersecting strand, and lattice structure includes polymer
WO2025229170	(BADI) BASF SE [DE]	Melt handling device for handling liquid hot melt in particular discharged from extruding device, has funnel comprising inlet for introducing liquid hot melt into funnel, and comprising nozzle configured to discharge transport fluid to inner wall of funnel and towards outlet
DE102024110725	(UYPA) UNIV PADERBORN KOERPERSCHAFT DES OEFFENTLICHEN RECHTS [DE]	Extrusion device for separating plastic composite with two differently melting thermoplastics, has annular channel formed between sleeve tool and sleeve housing, which is connected to outside of sleeve housing via discharge channel, and fixed sleeve tool provided in the extruder housing
US2025367875	(BEAU, KLEM) KLEMMT CHRISTOPH [US]; BEAUCAGE GREGORY [US]	Method for causing expansion of E.G. reactive or reversibly reactive polymer melts, extruded from extruder after discharge from extruder and prior to material full solidification in three-dimensional printing process, involves compressing springs inside extruder due to internal pressure
US2025303647	LEAR CORP [US]	Method and apparatus for producing a cushion
EP4632121	(FARE) FARE S P A A SOCIO UNICO [IT]	Apparatus for producing nonwoven fabric, comprises spinneret adapted to extrude filaments, cooling elements to cool filaments adapted to direct gas, suction element adapted to remove gases from space arranged in use below extrusion surface, and drawing elements to draw filaments
CN120967520	(CECC) FLII CECCATO MILANO S R L [IT]	Spinneret for multi-row coaxial spunbond and/or melt-blown type plant, has acceleration conduits each extending along its own dispensing axis transverse to main plane and each adapted to dispense respective polymeric filament along dispensing axis, and plate including first holes
US2025333612	(ECOP) ECOPURO LLC [US]	Polymer mixture used as additives in paints, comprises polymer having kinetic mixing particles, where polymer is comprised of acrylic, enamel, polyurethanes, polyurea, epoxies, mastic, urethane, polyvinyl chloride, automotive paint, two component adhesives, or acrylic binders
US2025303667	(TORA) TORAY PLASTICS AMERICA INC [US]	Method used for forming a laminate, involves extruding foamable sheet comprises polypropylene and polyethylene, feeding sheet and textile through multiple rollers to bond textile to side of sheet forming laminate, irradiating laminate with ionizing radiation, and foaming foamable sheet of laminate

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
DE202025105915	(WEIF) WEIFANG ZHONGYUN MACHINERY CO LTD [CN]	Head for double-walled corrugated plastic pipe I.E. flameretardant pipes, has internal coating feed opening provided on internal coating spiral, where internal coating feed opening is connected to grooves of internal coating spiral
EP4653499	SHENYANG XINGHUA PHARMACEUTICAL TECH CO LTD [CN]	Silicone material, silicone tube, implant, pharmaceutical composition, and test method for amount of drug released
US2025326921	(ESSO) EXXONMOBIL TECHNOLOGY & ENGINEERING COMPANY [US]	Producing polymer, comprises generating polymer component parameters using model comprising algorithm with input of target polymer properties of the polymer, producing polymer using polymer component parameters
US12472672	(XUSS) XU SHIZAN [CN]	Three-dimensional forming device E.G. three-dimensional printer, has reduction motor connected to feeding wheel for transmission, transmission shaft including end fixedly connected to second synchronous wheel, and motor shaft including end fixedly connected to first synchronous wheel

Otros Procesos

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
EP4656355	(MOND) G MONDINI SPA [IT]	Method for making pack for partial vacuum packaging of fresh food products, involves deforming step during which sheet is thermoformed causing sheet to partially move away from another sheet towards product
DE102024109306	(KROE) KRONES AG [DE]	System for producing and treating containers E.G. bottles, cans and tubes, comprises blow molding machine arranged downstream of production machine for forming preforms into containers, and container treatment machine arranged downstream of blow molding machine for treating containers
US2025326177	(NAIM) NORTH AMERICA I M L CONTAINERS INC [CA]	Container or lid for use in packaging industry for products E.G. foodstuff, is made of blown cellulose fibers from mat compressed in one compression step
WO2025255702	(PROC) PROCTER & GAMBLE [US]	Making water-soluble pouch having at least one compartment on sealing plane for treatment of substrate, involves feeding first water-soluble film onto horizontal or non-horizontal portion of continuously and rotatably moving endless surface

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
US2025345981	(USFA) U S FARATHANE L L C [US]	Method for assisting mold forming barcode into formed portion I.E. thermo-formable material, involves compressing heated material between mold surfaces to form reverse embossment pattern of barcode into opposite surface of material, and utilizing scanner device for reading code from surface
CN120962995	(SIDL) SIDEL PARTICIPATIONS [FR]	Method for producing container by deforming heated preform, involves adjusting heating power of heating element according to quantity of material in formed area of body of container corresponding to area heated by heating element
US2025312980	(INTE) INTEPLAST GROUP CORP [US]	Method for forming biaxially oriented polyethylene film by heating system for polyethylene film production line, involves applying radiant heat to film in heating zone such that large amount of heat is applied to longitudinal edge margins than heat being applied to central portion of film
GB2639648	(BIRK) HILARY BIRKBECK [GB]	Method of bending a rigid fibrous polyethylene terephthalate felt panel, involves applying heat to localised linear section of PET panel, and bending rigid PET panel about localised heated section to form bent rigid fibrous PET felt panel
EP4624141	(EADS) AIRBUS OPERATIONS GMBH [DE]	Manufacturing tool with adaptable form for E.G. ducts, to generate E.G. cabin linings, from fiber-matrix composites in winding manufacturing system in E.G. aircraft, has manipulators for adjusting distance between outer deposit surface and support structure to provide adjustable outer shapes of tool
DE102024115254	(SALZ) KHS GMBH [DE]	Method for blow molding containers E.G. beverage bottles in stretch blow-molding machine, involves supplying inner wall of container with rinsing fluid for cooling head area from which fluid outlet of pull-up bar is supplied
CN120899965	(KROE) KRONES AG [DE]	Device for treating and sterilizing E.G. plastic preforms before E.G. filling process, has first discharge device that removes flowable medium enriched with sterilizing agent from treatment chamber, and return device that returns portion of medium back into treatment chamber
CN120919367	(KROE) KRONES AG [DE]	Device for treating and sterilizing unit goods and plastic preforms or plastic containers, has transport device for transporting goods, where goods are introduced into treatment room, and exposed to sterilization medium to sterilize goods
CN121200390	(STEV) STEVANATO GROUP SPA [IT]	Device for making bypass channel in syringe preform I.E. double-chamber syringe, has blower switchable between active condition in which pressurized fluid delivers direct pressurized fluid along gripping axis, when mold is placed in closed condition and inactive condition

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
WO2025207927	(NIAG) NIAGARA BOTTLING LLC [US]	Method for manufacturing bottle for beverage, involves preheating preform to internal temperature with airflow directed within deduster unit, sterilizing preheated preform with hydrogen peroxide solution, and forming bottle from preheated preform using blow molding process
EP4635715	(HUHT) HUHTAMAKI MOLDED FIBER TECH BV [NL]	Method for manufacturing molded fiber packaging unit E.G. containers to E.G. contain I.E. food products, involves stretching laminate layer, and providing multiple weaker areas in laminate layer to enable piercing of such area
WO2025224258	(OLLO) OLLOW [FR]	Three-dimensional composite element manufacturing method, involves implementing discontinuous ribbon comprising long fibers oriented in longitudinal axis of discontinuous tape and composed of segments
CN120963011	(BRKM) BRUECKNER MASCHBAU [DE]	Clamping unit for horizontal bar system E.G. transverse horizontal bar system, has head section including upper length measured in direction of movement of unit, where upper length is fifty percent longer than minimum length of neck section
DE202025105304	(KROE) KRONES AG [DE]	Machine for manufacturing containers, has measuring device that is used for measuring fill level of storage device, and control unit that is configured to control transport device and/or blow molding machine and/or manufacturing machine based on measured fill level
US2025345982	(RAYT) RAYTHEON TECH CORP [US]	Method for making split seal for gas turbine engine, involves winding fiber around cylindrical mandrel to provide hollow cylinder wound fiber form, where winding is conducted with predetermined pitch with respect to axis of rotation of mandrel
DE102024112970	(SALZ) KHS GMBH [DE]	Transport arrangement for transporting containers, has metering device that is provided upstream of conveying lane, and that is arranged to transfer predefined number of containers to singulation device based on weight
EP4628287	(RAYT) CROMPTON TECHNOLOGY GROUP LTD [GB]	Method for manufacturing fiber-reinforced polymer structure I.E. pressure vessels, involves providing tubular mandrel with roughened outer surface, applying tows of continuous fiber to roughened outer surface of tubular mandrel and introducing polymer matrix resin either with or to continuous fiber
EP4635714	(DSCM) DISCMA AG [CH]	Method for aseptically forming, sterilizing, and filling plastic container I.E. polyethylene terephthalate container by using sterilizing liquid to expand container precursor such as preform within mold, involves dispensing sterilizing liquid into container precursor to expand container precursor

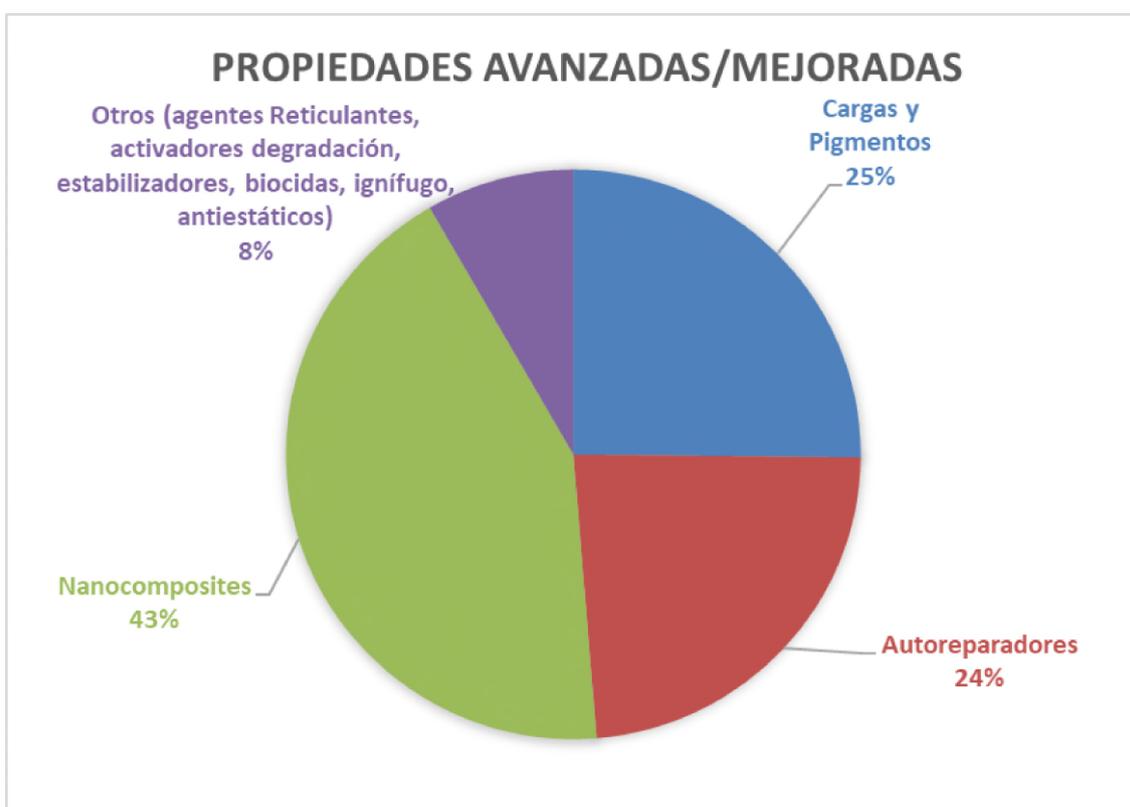
Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
JP2025172433	(CANO) CANON KK [JP]	Liquid storage container comprises storage portion configured to store a liquid, discharge portion configured to discharge the liquid, and a sealing portion configured to seal the discharge portion, where liquid storage container comprises a compound whose absorption spectrum peak changes
WO2025247488	(WATT) WATTTRON GMBH [DE]	Method for heating thermoplastic film, involves generating pressure difference between first area and second area such that first pressure in first area is partially lower than second pressure in second area, and removing heated film from heating surface
US2025332783	(BOEI, UNIW) BOEING CO [US]; UNIV WASHINGTON [US]	Movable carriage for wrapping material sheet around longitudinal component, has top wheels within operating volume to guide material sheet against top of portion of longitudinal component as movable carriage moves parallel to center plane
DE102024204507	(FAUR) FAURECIA INNENRAUM SYSTEME GMBH [DE]	Method for producing structured upholstery component for vehicle interior E.G. vehicle interior trim part, involves providing airtight cover film with elastically compressible cushioning layer and cover layer, and forming depression on A-side of cover film in indentation area
DE102024109800	(DIEH) DIEHL AVIATION LAUPHEIM GMBH [DE]	Method for producing E.G. coolant pipe, for fuel cell extending along central longitudinal axis in form of straight line, involves consolidating functional material together with fiber composite material to define consolidated pipe with functional layer and tubular main body
CN120784423	(SKSK) SK ON CO LTD [KR]	Apparatus for forming folding guide line of battery cell, comprises second pressing tool that includes second pressing surface having flat shape, pressing protrusion disposed to oppose accommodating groove and having shape in which portion protrudes from second pressing surface
WO2025248033	(SIDL) SIDEL PARTICIPATIONS [FR]	Preform feeding installation for feeding preforms into blow-molding machine, has control device implementing model previously trained by machine learning to provide setpoints for control device such that loading flow rate respects setpoint
EP4647241	G MONDINI SPA [IT]	Apparatus for applying a film to a support
WO2025229269	(SFRA) SAFRAN [FR]; SAFRAN AIRCRAFT ENGINES [FR]; SAFRAN LANDING SYSTEMS [FR]	Tooling for winding fibrous texture, has winding support attached to frame and on which fibrous texture is wound around first winding axis, where winding support has end regions spaced along second axis transverse to first axis
WO2025233982	(PERS) PERSICO SPA [IT]	Coating machine for coating preformed substrate used for producing E.G. composite product for interior finishing of motor vehicle, has support body structured for supporting substrate, and coating unit for coating substrate by coating layer

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
WO2025233589	DUQUEINE RHONE ALPES [FR]	Mechanical attachment to the end of a composite tube
WO2025226570	(EDLI) EDWARDS LIFESCIENCES CORP [US]	Method of making balloon for insertion within portion of patient body used for delivery apparatus, involves removing layer of three or more layers of stretched wall to form balloon, and balloon is expandable through pressure applied to inner surface of balloon
EP4647238	(WMTH) WM THERMOFORMING MACHINES SA [CH]	Thermoforming machine for production of plastic articles, has light source emitting diffused light, where light source comprises light-emitting element and light diffuser, and module transmitting detected images to processing unit
DE102024110572	(METZ) METZNER HOLDING GMBH [DE]	Applying an adhesive strip to lateral surface of an object, involves moving assembly stamp of assembly from rest position spaced from the object along feed direction into working position
EP4650642	(SUKI) SUKITUSTUKKU OY [FI]	Pressurizing head for linings used in pipe renovation by cured-in-place-pipe technology in harsh construction site, has infill located at tightening section and cap section between outer shell and inner shell to stabilize tightening section and connector of connection
CN120921673	(BRKM) BRUECKNER MASCHBAU [DE]	Air supply system for stretching machine I.E. film stretching machine, for longitudinal and/or transverse stretching of plastic film, has exhaust air recirculation unit and fresh air supply unit assigned to common treatment zone
US2025382149	(HACI) HACIKYAN MICHAEL [US]	Handheld glass foiler apparatus for use by hobbyists in fabrication of glass artwork and decorative glass products, has foil material backing peeler that separates adhesive backing from metallic foil material within housing and directs adhesive backing along waste track to waste exit of housing

VOLVER A
CONTENIDO

MATERIALES CON PROPIEDADES AVANZADAS O MEJORADAS

En el siguiente gráfico se muestra la distribución de las 1.045 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 nanocomposites sobrepasa seguido por cargas y pigmentos y autorreparadores.



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
WO2025205970	(MATU) PANASONIC IP MAN CO LTD [JP]	Prepreg used for metal-clad laminate, comprises fibrous base material and resin composition containing thermosetting resin including epoxy resin, coumarin compound and inorganic filler, and its semi-cured product, and has preset glass transition temperature and reflectance after curing
WO2025205992	(AJIN) AJINOMOTO KK [JP]	Polymer composition for polymer sheet, comprises liquid olefin polymer having acid anhydride group and/or carboxyl group, solid olefin polymer and water-absorbent filler
WO2025206152	(MATU) PANASONIC IP MAN CO LTD [JP]	Prepreg used for metal-clad laminate for wiring board used in electronic device, comprises thermosetting resin composition containing molybdenum compound particles and maleimide compound, or its semi-cured product, and glass cloth containing silica, alumina, magnesium oxide, and phosphorus pentoxide
WO2025205390	(SEKI) SEKISUI CHEMICAL CO LTD [JP]	Two-component curing thermally conductive composition for producing cured product, comprises component containing curable liquid resin and plasticizer and thermally conductive filler having preset average particle size, and having specific viscosity
WO2025205189	(ASAHI) ASAHI CHEMICAL IND [JP]	Rubber composition used for E.G. conveyor belt and shoe sole, comprises carbon black, rubber component containing at least one modified conjugated diene polymer having preset Mooney viscosity and branching degree, and silica-based inorganic filler
WO2025206156	(MATU) PANASONIC IP MAN CO LTD [JP]	Prepreg used for metal-clad laminate for wiring board, comprises thermosetting resin composition containing molybdenum compound particles and epoxy resin, or its semi-cured product, and glass cloth containing silicon dioxide, aluminum oxide, magnesium oxide and phosphorus pentoxide
WO2025204162	(NAMI) NAMICS CORP [JP]	Resin composition used for forming thermosetting film for semiconductor device, comprises low-glass-transition temperature phenoxy resin, curing agent, filler, and high-glass-transition temperature naphthalene-type epoxy resin, and has preset glass transition temperature and elasticity modulus

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
WO2025205911	(NAMI) NAMICS CORP [JP]	Curable resin composition E.G. adhesive composition used for forming cured product for component alignment step during manufacture of semiconductor device, comprises polymerizable compound, polymerization initiator, inorganic thixotropy-imparting agent, and modified polydimethylsiloxane
WO2025204719	(MITV) MITSUBISHI MATERIALS CORP [JP]	Thermally conductive resin composition for forming thermally conductive resin material, comprises resin component including organopolysiloxane, polysiloxane compound including ester functional group in which end is modified with hydroxyl group and alkoxy silane compound and filler
WO2025206147	(MATU) PANASONIC IP MAN CO LTD [JP]	Prepreg used for metal-clad laminate, comprises thermosetting resin composition containing maleimide and high-molecular-weight compound or semi-cured product of thermosetting resin composition, and glass cloth containing silicon dioxide, aluminum oxide, magnesium oxide and phosphorus pentoxide
WO2025205969	(MATU) PANASONIC IP MAN CO LTD [JP]	Resin composition used for forming resin-coated film E.G. resin-coated metal foil and prepreg for producing metal-clad laminate used for printed wiring board, comprises thermosetting resin comprising epoxy resin and maleimide resin, coumarin compound, and inorganic filler
WO2025206142	(AJIN) AJINOMOTO KK [JP]	Resin composition used for forming cured product used in circuit board, comprises compound including terminal radically polymerizable group, and having preset weight-average molecular weight and tensile modulus of elasticity, epoxy resin, activated ester resin, and inorganic filler
WO2025205503	(MITA) MITSUI CHEMICALS INC [JP]	Polyamide resin composition for molded article of automobile, comprises polyamide resin having preset melting point, halogen-based flame retardant, endothermic filler, fibrous reinforcing material and polyolefin resin modified with unsaturated carboxylic acid
WO2025206145	(SEKI) SEKISUI CHEMICAL CO LTD [JP]	Polysiloxane particles used as spacer particles, comprises polysiloxane and pigment which is coated with surface treatment agent
WO2025206332	(DAIK, UNYA) DAIKIN IND LTD [JP]; UNIV YAMAGATA NAT UNIV CORP [JP]	Particles used in composition for forming molded product, comprises super engineering plastic resin and filler bonded together through compound having nitrogen containing group
WO2025220697	(SHOW) RESONAC CORP [JP]	Manufacture of cured product of composition used for heat dissipation material, involves heating composition comprising curable component and thermally conductive filler

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
WO2025225599	(SHOW) RESONAC CORP [JP]	Resin composition used for forming semi-cured product for prepreg or cured product for laminate and printed wiring board for semiconductor package, comprises thermosetting resin, phosphorus-based flame retardant, and boehmite
WO2025225152	MITSUBISHI ENG PLASTICS CORP [JP]	Flame-retardant polycarbonate resin composition
WO2025225088	(TOAG) TOAGOSEI CO LTD [JP]	Coating composition used for forming coating film for substrate used in flexible devices such as bendable foldable devices and rollable devices, displays such as electronic paper, and optical components such as lenses, comprises silsesquioxane derivative
WO2025225398	(ELED) DENKA COMPANY LTD [JP]	Resin composition used for forming molded product used as masterbatch, comprises olefin-aromatic vinyl compound-aromatic polyene copolymer and surface-treated silica powder configured such that carbon, and sulfur
WO2025225689	(KURS) KURARAY CO [JP]	Foam used for cushioning material, comprises starch, and vinyl alcohol-based polymer containing two or more vinyl alcohol-based polymers with different degrees of saponification
WO2025228762	BASELL POLIOLEFINE ITALIA SRL [IT]	Polyolefin composition for painted articles
JP2025168975	(CANO) CANON KK [JP]	Resin composition used as pellet, comprises matrix comprising thermoplastic resin, flame retardant particles having specific particle diameter, and elastomer material which is thermoplastic elastomer and comprising elastomer particles having specific particle diameter
WO2025239305	(NIIT) AIST [JP]	Insulating material used in substrate for electrical circuit for communication device and other relay device, is porous and comprises particles containing ceramics and polymeric material
WO2025243965	(KAOS) KAO CORP [JP]	Composite cellulose particles used in cosmetic composition, comprise cellulose and functional substance and have preset compressive modulus and elastic recovery rate
JP2025178688	(TOKU) TOKUYAMA CORP [JP]	Silicone resin composition used for forming cured product, comprises silicone resin, hexagonal boron nitride filler having preset volume-based median pore diameter, and thermally conductive filler other than hexagonal boron nitride filler
WO2025249375	(NIOC) ENEOS MAT CORPORATION [JP]	Polymer composition used for forming crosslinking product, comprises conjugated diene polymer, and hydrocarbon resin obtained by polymerizing raw material component containing cycloaliphatic olefin containing carbon fraction containing aromatic olefin in preset mass ratio

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
WO2025249488	(KAOS) KAO CORP [JP]	Resin composition used for forming cured product, comprises composite particles having polymer graft chains on surface of inorganic particles having preset average particle size, and resin which is curable resin, thermoplastic resin with preset glass transition temperature and/or thermoplastic resin
WO2025250722	(COMP) SAINT GOBAIN PERFORMANCE PLASTICS CORP [US]	Composite material used as gap filler in thermal interface material for battery module and battery pack, comprises silicone-based matrix component and filler package component including thermally conductive filler components

Autorreparador

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
WO2025222642	(CSPG) GUIZHOU POWER GRID CO LTD [CN]	Preparing magnetic nanoparticle composite microcapsules useful in preparation of self-healing composite materials, involves dispersing polyurethane toluene diisocyanate prepolymer and ferrosferric oxide-silica-titania nanoparticles
WO2025244983	(PSRF) PENN STATE RES FOUND [US]	Self-healing composition of matter used E.G. to prepare self-healing surface, comprises covalent adaptive network comprising primer layer covalently tethered to surface, and coated polymer crosslinked with primer layer

Nanocomposite

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
WO2025207093	(PERI) PERIDOT PRINT LLC [US]	Fusing agent used in three-dimensional printing kit has cesium tungsten oxide nanoparticles and liquid vehicle with water and co-solvent mixture having active of benzyl alcohol and co-solvent to improve miscibility of the alcohol and water
WO2025207549	(UNWV) WEST VIRGINIA UNIV BOARD OF GOVERNORS ON BEHALF OF WEST VIRGINIA UNIV [US]	Making membrane used to reduce amount of target gas from gas stream by mixing polymer with solvent, printing ink onto substrate using additive manufacturing method, allowing ink to solidify into membrane and removing membrane from substrate

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
WO2025215336	(PRIN) PRINTZYMES LTD [GB]	Carrying out 3-dimensional printing of article used in stereolithography, involves providing fluent medium comprising building-blocks and structurally different linkers in printing apparatus, binding linkers to building-blocks, applying stimulation, depositing newly introduced building-blocks
DE102024110856	(VOLS) VOLKSWAGEN AG [DE]	Producing sorption material installed in Direct Air Capture system for adsorption or desorption of carbon dioxide, involves producing sorption material, producing water-based gel from amine-functionalized graphene oxide and water, and producing three-dimensional shape by extrusion of water-based gel
US2025326181	(USAR, USSA) U S ARMY DEVCOM ARMY RES LABORATORY [US]; US GOV SEC ARMY [US]	Filament or preform for 3D printing, comprises first thermoplastic polymer and second thermoplastic polymer physically associated in geometric arrangement, in which flow temperature of first thermoplastic polymer is higher than flow temperature of second thermoplastic polymer
EP4644103	(MITU) MITSUBISHI CHEMICAL AMERICA INC [US]	Processing high temperature annealing of ultra-high molecular weight polyethylene involves consolidating UHMWPE resin powder into unit of designated shape and size; placing consolidated UHMWPE unit into sealable and pressurizable vessel of size, and sealing the inerted vessel
DE102024204366	(FRAU) FRAUNHOFER GES FORSCHUNG [DE]	Printing ink used for producing E.G. tissue such as soft tissue and/or physiological tissue, comprises polyelectrolyte complex containing structural protein and anionic polysaccharide and/or polysaccharide derivative having preset concentration, and water
KR20250160605	(SMSU, USEO) SAMSUNG ELECTRONICS CO LTD [KR]; SEOUL NAT UNIV R&DB FOUNDATION [KR]	High thermal conductivity structure comprises polymer base material; multiple carbon fibers positioned in direction within polymer base material; and horizontal thermal conductive layer formed on surface or both surfaces of polymer base material, and carbon fibers contact with each other
US2025345982	(RAYT) RAYTHEON TECH CORP [US]	Method for making split seal for gas turbine engine, involves winding fiber around cylindrical mandrel to provide hollow cylinder wound fiber form, where winding is conducted with predetermined pitch with respect to axis of rotation of mandrel
EP4651624	(BOEI) BOEING CO [US]	Resistive film heater for use in compound material processing apparatus for shaping E.G. carbon nanotube of thermoforming system in aerospace vehicles, has resistive heating layer comprising electrically conductive carbonaceous materials, and electrical terminals attached to resistive heating layer

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
US2025353218	(WISC) WISCONSIN ALUMNI RES FOUND [US]	Recovering desired polymer with reduced colorant content from colored plastic waste comprising desired polymer and colorant material involves contacting plastic waste with solvent for time and at temperature, where portion of desired polymer is selectively dissolved in solvent

Otras propiedades

Nº DE PUBLICACIÓN	SOLICITANTE	CONTENIDO
WO2025255568	(KURS) MONOSOL LLC [US]	Water-soluble film used for forming article in form of packet comprising sealed compartment, comprises film-forming resin comprising mixture of starch, carrageenan and pullulan and plasticizer

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CONTENIDO

NOTICIAS

NUEVO ESTATUTO DE LA OEPM

Con la entrada en vigor del Real Decreto 1186/2025, publicado EL 30 de diciembre de 2025 en el BOE, la OEPM dispone de un nuevo Estatuto que le permitirá afrontar con mayor eficacia los retos futuros, respetando la misión institucional que tiene legalmente establecida.

El nuevo Estatuto viene a ofrecer una base actualizada y más sólida para responder a los retos del organismo, en un contexto de creciente importancia de la innovación y la protección legal de los activos intangibles para la economía española.



Más información:

<https://www.oepm.es/es/detalle-noticia/Nuevo-Estatuto-de-la-OEPM/enlace-BOE>

ESPAÑA LIDERA EL CRECIMIENTO DE LA INNOVACIÓN PÚBLICA EN TODA EUROPA



La Oficina Europea de Patentes (EPO) ha presentado un nuevo estudio en el que analiza la dimensión que la actividad inventiva de los Organismos Públicos de Investigación (OPI) tiene en el conjunto del ecosistema de innovación en Europa.

España es el país que lidera el crecimiento de patentes solicitadas por entidades del sector público en toda Europa, con un espectacular incremento del 365% en las últimas dos décadas.

Nuestro país pasó de 57 solicitudes en el año 2001 a un total de 265 en 2020. Estos datos sitúan a España como el quinto país europeo con mayor número de patentes solicitadas por Organismos Públicos de Investigación, con un total de 2994 solicitudes en ese intervalo de tiempo. Tan solo Francia, Alemania, Países Bajos y Bélgica ofrecen una cifra superior.

Más información:

<https://www.epo.org/en/news-events/news/study-shows-vital-role-public-research-organisations-european-competitiveness>

PUBLICACIÓN DE LA CONVOCATORIA DEL PROCESO SELECTIVO DE LA ESCALA DE OO.AA. DEL MICT (OEP 2025)

El 19 de diciembre de 2025 se publicó en el BOE la “Resolución de 10 de diciembre de 2025, de la Subsecretaría, por la que se convoca proceso selectivo para el ingreso, por el sistema general de acceso libre, en la Escala de Titulados Superiores de Organismos Autónomos del MICT, especialidad de Propiedad Industrial, y se encomienda la gestión material de las pruebas selectivas a la Oficina Española de Patentes y Marcas, O.A.



El número de plazas convocadas es de 35, repartidas de la siguiente forma:

Rama Técnica: 27 plazas para examinadores de patentes, con la siguiente distribución:

- Área mecánica: 9 plazas
- Área eléctrica: 9 plazas
- Área química: 9 plazas

Rama Informática: 4 plazas

Rama Jurídica: 4 plazas

Plazo para realizar la inscripción en el proceso selectivo: del **22/12/2025** al **21/01/2026**.

Más información:

<https://www.oepm.es/es/sobre-OEPM/nosotros/empleo/trabajar-en-la-OEPM/convocatoria-titulados-superiores-2026/>

[Búsqueda de convocatorias](#)

INTERCAMBIO DE EXAMINADORES DE LA OFICINA DE PATENTES JAPONESA CON LA OFICINA ESPAÑOLA DE PATENTES Y MARCAS



En el mes de noviembre, seis examinadores de patentes de la Oficina Española de Patentes y Marcas, (OEPM) visitaron la Oficina Japonesa de Patentes (JPO) en el marco de un programa de intercambio de examinadores.

Durante la estancia los examinadores debatieron casos comunes de patentes en cinco campos técnicos: máquinas dinamoeléctricas y control, ingeniería de calefacción, refrigeración y aire acondicionado, dispositivos médicos, ingeniería

genética e ingeniería celular. Además, los participantes intercambiaron información sobre métodos de búsqueda de antecedentes y la aplicación de directrices de examen. También se debatieron iniciativas orientadas al usuario y aplicaciones que utilizan la inteligencia artificial.

Más información:

https://www.oepm.es/cs/OEPMsite/contenidos/Revista_InfoPYM/2025/Diciembre/es/noticia4.html

<https://www.jpo.go.jp/e/news/ugoki/202512/2025120402.html>

PUBLICADA LA NORMA QUE REGULA LAS INDICACIONES GEOGRÁFICAS DE PRODUCTOS ARTESANALES E INDUSTRIALES A NIVEL NACIONAL

La Unión Europea extendió recientemente a la artesanía y a la industria la protección que otorgan las Indicaciones Geográficas, que hasta entonces se limitaban al sector agroalimentario. Estos signos distintivos conceden derechos de Propiedad Industrial (PI) a aquellos productos cuya elaboración esté estrechamente ligada a la tradición de un territorio concreto.

El Real Decreto 1190/2025, de 26 de diciembre, publicado el 30 de diciembre de 2025 en el Boletín Oficial del Estado, establece el procedimiento nacional para el registro de esta nueva modalidad de derechos de propiedad industrial.

Más información sobre las indicaciones geográficas de productos artesanales e industriales:

<https://www.oepm.es/es/indicaciones-geograficas/>

