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NIPO: 116-19-020-3

SECTOR TRANSFORMADOR PLÁSTICO

81

vigilancia tecnológica

1er trimestre 2023





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 productivosy nuevos materiales plásticos con propiedades avanzadas. No se ha incluído 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 CIRCULAR



NUEVOS PROCESOS INDUSTRIALES



MATERIALES CON PROPIEDADES AVANZADAS O MEJORADAS



NUEVOS PRODUCTOS

En el siguiente gráfico se muestra la distribución de las 19.535 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 |
|----------------------|--|--|
| ES2930557 | (UYPO-N) UNIV POLITECNICA CARTAGENA | Water-based active coating composition structure for sheets of cellulosic material, has emulsifier for obtaining total composition of cellulosic material, where halloysite nanotubes are connected to emulsifier |
| JP2023028457 | (STAR-N) STAR PLASTIC KOGYO KK | Packaging film used in package E.G. folded bag, three-sided sealed bag, four-sided sealed bag, gusset bag, and stand bag, comprises barrier material, and adhesive layer comprising base polymer, epoxy component and curing agent, located on surface of barrier material |





| Nº DE PUBLICACIÓN | SOLICITANTE | CONTENIDO |
|----------------------|---|---|
| US2017190482 | (SMIT-I) SMITH C A (SMIT-I) SMITH W T | Container for use as entomological storage display for displaying E.G. cannabis, has lid fitted on perimetrical ridge of container body forming chamber, where plug forms airtight seal between plug and lid completely sealing chamber |
| WO2023026613 | (MITA) MITSUI CHEM INC | Aqueous polyurethane composition used in heat-resistant coating agent, first laminate for bag, second laminate, which are used as packaging materials for various industrial products such as sweets, foods, daily necessities, medicines, and papers, comprises polyurethane resin and inorganic particles |
| FR3125457 | (ROVI-N) ROVIP | Injection mold for wrapper and dispenser assembly, has injection point for filling temporary space with plastic material before complete filling of plastic material of volume for molding walls of cap |
| EP4119457 | (TETR) TETRA LAVAL HOLDINGS & FINANCE SA | Package for holding E.G. pourable food product, has shoulder comprising flap sections that are formed from multilayer packaging material, extend from sidewall and are folded towards each other in direction towards neck |
| US2022400744 | (NIVE) NICOVENTURES TRADING LTD (GERA-I) GERARDI A R | Pouched product comprises outer water- permeable pouch defining cavity and composition configured for oral use situated within cavity, where composition is at least partially dissolvable, composition comprises one or more dissolvable fillers, humectant, at least one active ingredient, flavorant |
| BR102020026050 | (UYPA-N) UNIV FUNDACAO FEDERAL PAMPA | Biopolymer-based film used for intelligent and active potential packaging for foodstuff, comprises formulation of carrageenan and natural additive from jabuticaba fruit processing residues |



Construcción Tejados

| Nº DE PUBLICACIÓN | SOLICITANTE | CONTENIDO |
|----------------------|---|--|
| DE202021106049 | (LEMP-N) LEMP GMBH & CO KG | System for roof drainage of buildings, has cover element that is adapted to outer design of downpipe and/or channel in terms of material, structure and/or color design or with matches respectively |
| DE102022002796 | (SEIL-N) SEILKONZEIPT GMBH & CO KG | Suspended scaffolding to be attached to roof of building, has trusses which are provided with walkable coverings through which working platform is formed, and carried on side facing away from roof by supports which are anchored to building at other end |
| KR20230036860 | (KIMJ-I) KIM J H | Patterned roof tile for use at ends of eaves of wooden buildings, has roof tiles and black roof that are made of glass, where glass craft traditional tiles and roof tiles are integrally formed with stained glass manufacturing technique |
| US2023085227 | (WENX-I) WEN X (XULL-I) XU L | Expandable modular tent system, has two interconnecting tent modules provided with side panels and formed with first interconnecting section that is removably interconnected with second interconnecting section, and top cover attachable to side panels to form roof cover for tent modules |
| US2021293026 | (BMAT) BMIC LLC (BMAT) BUILDING MATERIALS INVESTMENT CORP (BMIC-N) BMIC LLC | Roofing system for attaching fabric substrate to roof deck or substrate to receive subsequent liquid applied roof coating, has fabric that is captured and held against roof deck by first and second elements |
| FR3126643 | (PARP-N) SOC PARIS PROD & MATERIAUX | Method for sealing surface E.G. outer wall of roof, involves allowing passage of polymeric resin through veil to encompass hooks of self-gripping web and forming connection between hooks of self-gripping web and polymer resin |
| US2023056407 | (SERE-I) SEREENEN B T | Portable and foldable yurt for outdoor activities, comprises lattice roof, lattice wall, door structure, dome, inner tension band, cover and floor, where body of yurt is made of lightweight woods or lightweight materials such as aluminum, beryllium, titanium or magnesium alloys, or polymer tarpaulin |
| DE102021121559 | (BMIH-N) BMI GROUP HOLDINGS UK LTD (BMIM-N) BMI GROUP MANAGEMENT UK LTD | Roofing underlay used as multilayer laminate, has barrier layers having water vapor permeability and liquid water tightness, and has preset age stability of density |
| WO2023277830 | (TRIF-I) TRIFI K | Part for roofing for industrial or agricultural use composed of plastic cover and grating assembled together by different connection systems (interlocking, tenon mortise, gutter or any other type of connection) |





| Nº DE PUBLICACIÓN | SOLICITANTE | CONTENIDO |
|----------------------|--------------------------|--|
| US2022416715 | (ARKA-N) ARKA ENERGY INC | System for mounting E.G. solar panel tiles, over surface in E.G. roof of private homes, has set of bolting elements and set of overhang elements removably coupled to two opposite sides of tiles to form tile assemblies, where row of tile assemblies is mounted over two adjacent mounting frames |

Construcción Conducciones

| Nº DE PUBLICACIÓN | SOLICITANTE | CONTENIDO |
|----------------------|---|--|
| JP2023040728 | (KUBO-N) KUBOTA-CHEMIX CO LTD | Fire spread prevention device for synthetic resin pipe inserted into through hole formed in floor slab of building, has connection portion connected to cylindrical portion fixedly provided in through hole |
| ES1295703 | (PORR-I) GOMEZ PORRAS F | Pool waterfall kit, has pool including suction pump with water inlet pipe and water return pipe to pool, where support casing is capable of being arranged on edge of pool |
| EP4151587 | (UNIT-N) UNITO SMART TECHNOLOGIES LTD | Mixing device for mixing two different types of liquids of different ingredients in a mixing tap system in a kitchen, has two inlets for receiving liquids, where each of inlets is connected to conduit that is separated from other conduits |
| US2021040721 | (MLWI-N) MLW INVESTMENTS LLC | Modular adjustable linear shower drain system used in installation site E.G. shower, has grill nested in receiving portion of drain interface adapter and trough, and is adjusted in height relative to drain interface adapter and trough |
| DE102021210148 | (LECH-N) LECHNER GMBH D | Wall fitting for use in sink unit of fitted kitchen, has connection hoses that are connected directly to angle valves of domestic water installation, and surface-mounted wall mountable mounting plate to which discharge pipe is attached |
| JP2023025744 | (FUNE-N) FUNEN ACROSS CORP | Connector for use in drainage system of structure E.G. building, has second covering portion that is held in cylindrical portion of inner pipe by interposing elastic annular material between above and lower extension portions |
| US2023045768 | (RNSS) RENSSELAER POLYTECHNIC INST (BORC-I) BORCA-TASCIUC T (HWAN-I) HWANG Y (TSAM-I) TSAMIS A | Hydronic system for use in hydropic network for heating and cooling rooms of building, such as residential building, has first conduit embedded in first side of partition, with valve and pump to control flow of fluid inside two conduits |



| Nº DE PUBLICACIÓN | SOLICITANTE | CONTENIDO |
|----------------------|-------------------|--|
| WO2023282969 | (LUCC-I) LUCCIA P | Sealing apparatus for sealing E.G. pipe, has flat sheet whose front side comprises retention site placed at center portion and configured to receive one of pipe or vessel, when pipe is inserted through center portion of flat sheet |

Construcción Muros

| Nº DE PUBLICACIÓN | SOLICITANTE | CONTENIDO |
|----------------------|---|--|
| FR3127238 | (GRAN-I) GRANGEON H (GRAN-I) GRANGEON P | Device for aiding installation of semi-rigid insulating panels, or aiding passage of E.G. accessories through insulating panel, has elongated element connected to piercing element made of steel and equipped with insertion end for piercing |
| BR202021014888 | (COST-I) COSTA M N J | Cold chamber for thermal insulation, has male and female-type joint system that is provided at longitudinal edges, and allows one panel to be engaged through protrusion at one longitudinal edge, where recess is provided at other end |
| NL2028919 | (NOOI-N) NOOIJENS BEHEER BV S | Method for monitoring process of installing insulating material, involves sending measured air pressure, flow rate and supply values to CPU for storage with corresponding timestamps as well as making available stored values and timestamps |
| ES1296950 | (LINI-I) DUARTE LINIO J A (MOLI-I) SALA MOLINA J | Rigid panel E.G. insulating natural stone panel, has body formed by mixing grout of extruded and reinforced polypropylene at high pressure with binder, where polypropylene is of specific weight percentage of body |
| WO2023030813 | (COMP) SAINT-GOBAIN GLASS FRANCE | Tandhalter for insulating glass unit, has metallic reinforcing elements bent in area of terminal wall sections with bending angle of specific range, where elements are not in contact with each other and are made in one piece |
| WO2023025634 | (COMP) SAINT-GOBAIN GLASS FRANCE | Spacer for insulating glass units, has first barrier layer and second barrier layer each having thickness of at most 15 nm, where thickness of first layer is larger than thickness of second layer |
| JP2023023125 | (NIAQ-N) NIPPON AQUA CO LTD | Heat insulation structure used for low-temperature warehouses E.G. cold storage warehouses and freezer warehouses, has heat insulating layer contains polyisocyanate compound, ester polyol compound, trimerization catalyst, and acrylic surface conditioner, and not containing silicone foam stabilizer |



| Nº DE PUBLICACIÓN | SOLICITANTE | CONTENIDO |
|----------------------|--|--|
| ES1295524 | (SANT-I) JUAN SANTANA F (MANZ-I) MOYANO MANZANO M C | Composition used for passive house panel used as acoustic and thermal insulator for construction of specific type of building, comprises recycled cotton paper from recycled legal tender bills, laminated plaster, water and binding resin |
| EP4124715 | (ALPA-N) ALPAC SRL | Frame structure for finishing and equipping opening of outer wall of building, has pair of lateral elongated elements comprising mat made of thermally insulating material and reinforcement panel integral with mat |
| DE102021118547 | (VAQT-N) VA-Q-TEC AG | Vacuum insulation structure encased in vacuum- tight manner with high-barrier film, has open- pored, pressure-resistant core, where one of surface sections of high-barrier film lying next to one another in area of a sealing seam is made of cycloolefin copolymer |
| EP4108631 | (NIKO-N) NIPPON KORNMEYER CARBON GROUP GMBH | Production of carbon or graphite foam component used as insulating material, involves filling container with dry foamable starch, heating partially starch filled container to foam starch, and detaching carbon foam after cooling and portioning into carbon foam portions |
| ES1295764 | (GONZ-I) CALDERON GONZALES F | Insulating sandwich panel, has outer face located to recess such that extension of outer face of panel is superimposed on recess of adjacent panel, and screws directly fixed to wall from anchor |
| ES1295752 | (BARN-I) MARQUE BARNETO J | Front panel for closing and insulating blind boxes, has plate, mechanical reinforcement, insulation plate, bearing support, and support pointer connected together, where plate is formed by rigid and flat body |
| FR3125073 | (COMP) ISOVER SAINT-GOBAIN | Insulating or prefabricated panel for wall, has retention unit for maintaining insulation material in panel and preventing insulation material from collapsing, where retention unit provided with studs extending from bottom part of board |
| US2019257140 | (KATT-N) KATTMANN ELIAS LLC | Dynamic multi-pane assembly E.G. multi-pane insulating glass units for thermal resistant system in windows and doors, has source of pressurized gas communicated with first and second pressurized gaps, where gas is pressurized at set level |
| DE102021122745 | (PINT-N) PINTA SEALING GMBH | Method for activating sealing tape impregnated for delayed resetting in sealing tape receptacle used in building joint of component E.G. window, involves separately acting sealing tape after introducing into receptacle to trigger or support resetting and applying liquid agent to sealing tape |
| WO2023025436 | (REHA-N) REHAU IND SE & CO KG | Production method of polymer, E.G. thermoplastic window or door hollow chamber profile, involves producing two separate core profiles by extrusion production process and jointly covering by outer coating to produce chamber profile |





Construcción Ventanas

| Nº DE PUBLICACIÓN | SOLICITANTE | CONTENIDO |
|----------------------|------------------------------|---|
| US2023077008 | (VIEW) VIEW INC | Framing system for use in vision area of E.G. tintable window, to visualize E.G. optical media, in building, has support system coupled to transparent display construct and coupled to first side of framing system, and electrochromic layer arranged between transparent conductive layers |
| GB2610583 | (TRUF-N) TRUFRAME LTD | Profile joint I.E. welded mitre joint, with rebate portion gap for connecting profile sections I.E. PVC-U profile sections, used in sash window or doors, has profile sections for containing first and second opposed exterior surfaces and interconnecting matrix |
| EP4144947 | (DECE-N) DECEUNINCK NV | Composite profile for creating miter joints for assembling E.G. window frames, has polymeric core and side profile to be provided on external surface of core profile, where side profile is repositioned over distance along height-direction |
| WO2023012202 | (MERE) MERCK PATENT GMBH | Window element used E.G. in window of building/vehicle, comprises multilayer arrangement of first and second switchable layers containing liquid-crystalline medium of dichroic dye and optionally chiral compound for regulating light passage |
| EP4112863 | (PROF-N) PROFINE GMBH | Composite profile for window or door, has plastic base profile that is provided with multiple plastic portion profiles, and plastic portion profiles are firmly connected to one another by locking functions through facing inner and outer metal profiles |
| US2019242177 | (WILL-N) WILLIAM-MACRAE & CO | Door jamb composite trim molding assembly for use in interior woodwork for E.G. commercial housings, has rough, unfinished core arranged within composite outer shell for one of strengthening or stiffening composite outer shell |



Automoción

| Nº DE PUBLICACIÓN | SOLICITANTE | CONTENIDO |
|----------------------|---|--|
| WO2023022785 | (UYFL) UNIV CENT FLORIDA RES FOUND INC | Method for making energy storing carbon fiber reinforced polymer composite, comprises depositing cathode material patches at spaced locations on first cross-weaved carbon fiber mat to form first cathode |
| CN218577648 | (KGFA) KINGFA SCI & TECH CO LTD (JIAN-N) JIANGSU KINGFA TECHNOLOGY NEW MATERIAL (SHAN-N) SHANGHAI KINGFA SCI & TECH DVPT CO LTD | Lightweight screen bracket for automobile, has screen control electronic unit mounting point arranged at longitudinal cross point of longitudinal and transverse reinforcing ribs |
| DE102021123332 | (PORS) PORSCHE AG F | Protection system for component group I.E. battery of vehicle with position sensor detection, has evaluation unit that is coupled to receivers by wirelessly and is set up to determine their positions relative to transmitters on basis of electromagnetic signals |
| WO2023031458 | (FORD) FORD GLOBAL TECHNOLOGIES LLC (FORD) FORD- WERKE GMBH | Housing for vibration unit arranged on seat cushion of vehicle seat for simultaneous generation of vibration signal and acoustic signal, has completely rounded and at least one housing opening which is permeable to sound waves |
| GB2610394 | (HAYD-N) HAYDALE COMPOSITE SOLUTIONS LTD (HAYD-N) HAYDALE COMPOSITES SOLUTIONS LTD (HAYD- N) HAYDALE GRAPHENE IND PLC | Shoe sole used in performance footwear, comprises rubber matrix material comprising butadiene rubber, and carbon nanoparticles comprising functionalised carbon nanoparticles, where rubber matrix material includes butadiene rubber, and carbon nanoparticles includes functionalised carbon nanoparticles |
| DE102021209563 | (VOLS) VOLKSWAGEN AG | Structural component of motor vehicle, has friction-welding element with shank and head penetrating reinforcing element in such way that shank is connected to reinforcing element by friction welding at connecting end opposite head |
| FR3126338 | (COMP) SAINT-GOBAIN GLASS FRANCE | Glazed assembly used for vehicle, comprises glazing having outer surface formed by glass sheet, and vibro-acoustic damping device comprising viscoelastic damping layer made of material comprising acrylic polymer(s), tackifying agent(s), and plasticizing agent(s), and constraint layer |
| US2023068380 | (HALL-N) HALL LOGIC INC | Weight distribution hitch system for connecting vehicle and trailer, has moment bar forward end that is attached to lower portion of rearward end of vehicle attachment unit so as to prevent rotation about horizontal axis |
| JP2023024298 | (SUMR) SUMITOMO RUBBER IND LTD | Tire used for passenger cars, comprises tread portion, sidewall portion, and rubber composition comprising tread rubber comprising thermoplastic elastomer with respect rubber component |



| Nº DE PUBLICACIÓN | SOLICITANTE | CONTENIDO |
|----------------------|---|--|
| US2023057570 | (BRIG-N) BRIGGS & RILEY TRAVELWARE LLC | Shock absorber component for luggage wheel of wheel assembly of wheeled luggage, has openings placed between outer circumference and center hole and configured to deform to absorb shock when circular unit is subjected to force along axis |
| DE102021208304 | (VOLS) VOLKSWAGEN AG | Motor vehicle wheel suspension for rear axles of passenger cars and light commercial vehicles, has actuator that acts on one of fastening devices in order to introduce torque about axis of rotation of relevant fastening device |
| DE102021119547 | (WBAI) WEBASTO SE | Device for operating screen arrangement for vehicle roof, has fixing unit that is set up to move away from cross element when display is unwound when display is wound up to be moved towards cross element and to tension display in cooperation with display shaft |
| US2023002077 | (CLAR-I) CLARK M W | Grounding disk for creating multiple connections on grounding point in single airport hangar, has connecting grounding point positioned below top surface of grounding disk, where top surface of grounding disk is tapered from center of top surface to peripheral edge of top surface |
| EP4112427 | (RHEM) RHEINMETALL LANDSYSTEME GMBH | Chain roller for military tracked vehicle E.G. armored personnel carrier, has roller body made from fiber-reinforced plastic material, and cooling device for cooling roller bandage during operation of chain roller |

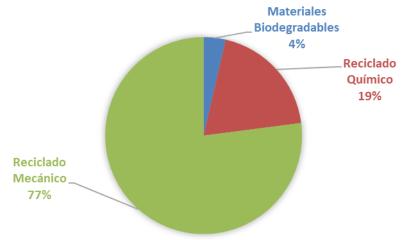
VOLVER A CONTENIDO



SOSTENIBILIDAD Y ECONOMÍA CIRCULAR

En el siguiente gráfico se muestra la distribución de las 13.85 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 |
|----------------------|------------------------------|--|
| JP2023039831 | (KYOH) KYODO PRINTING CO LTD | Biodegradable resin composition used for biodegradable molding including application of materials for agricultural, forestry and fishery materials, comprises biodegradable resin and polysaccharide and polysaccharide gels or is insoluble when dissolved in water at specific concentration |
| FR3126987 | (BERN-I) BERNELAS C | Rapidly biodegradable bioplastic used as single-use bags comprises cellulose from biomass comprising grasses and non-woody green waste, plasticizer of natural origin E.G. glycerine and matrix of natural origin E.G. starches |





| Nº DE PUBLICACIÓN | SOLICITANTE | CONTENIDO |
|----------------------|--|--|
| WO2023037710 | (KANF) KANEKA CORP | Manufacture of polyhydroxyalkanoic acid used in E.G. agricultural applications, involves preparing aqueous suspension containing polyhydroxyalkanoic acid, alkylene oxide-based dispersant and compound having several carboxyl groups and/or phosphoric acid group, and drying |
| WO2023013133 | (SONY) SONY GROUP CORP | Copper clad laminate used for forming printed wiring board, comprises resin substrate containing polylactic acid having preset crystallinity measured by differential scanning calorimetry, and crystallite size measured by X-ray diffraction measurement, adhesive layer and copper foil layer |
| WO2023001872 | (CARB-N) CARBIOLICE | Preparation of masterbatch for producing plastic articles, involves separating and introducing liquid enzyme formulation, polysaccharide and carrier polymer, mixing at temperature at which support polymer is partially or totally molten, and recovering masterbatch |
| WO2023008381 | (SUMO) SUMITOMO CHEM CO LTD (NEWL-N) NEWLIGHT TECHNOLOGIES INC | Composition used as resin material including fiber materials, exterior structural members, furniture and interior decoration members, home appliance members, gardening members, toy members, and automobile members, comprises olefinic polymer, and polymer(s) |
| US2023001044 | (COHE-N) COHESYS INC | Stabilizing bone fragments in body involves forming first anchor on first bone fragment by heating adhesive composition to form softened adhesive composition and contacting softened adhesive composition to first bone, permitting softened adhesive composition, and forming second anchor on second bone |

Reciclado Mecánico

| Nº DE PUBLICACIÓN | SOLICITANTE | CONTENIDO |
|----------------------|--|---|
| ES2933394 | (PICO-I) GUILLEM PICO I | Method for recirculation of non-hygroscopic polymers from rigid food or industrial post-consumer plastic containers, involves feeding with non-hygroscopic rigid plastic containers, shredding at low speed using ripper with four axes, without generating high temperatures |
| ES2932873 | (CORE-N) CORE SERVICIOS INFORMATICOS SL | Process for recycling toner cartridges in E.G. printers, involves grinding cartridges, carrying out separation and screening, deriving largest fraction, discarding minor fraction and carrying out dust aspiration stages |





| Nº DE PUBLICACIÓN | SOLICITANTE | CONTENIDO |
|----------------------|---|---|
| WO2023021145 | (CVST) COVESTRO DEUT AG | Pyrolysis of polymeric compound in the form of foam, involves adding pyrolysis material comprising polymeric compound containing polyurethane structural unit, decomposing polymeric compound of pyrolysis material in reactor, cooling discharged pyrolysate, and processing pyrolysis product |
| WO2023044077 | (YICH-N) YI CHUN GREEN TECHNOLOGY CO LTD (SHEN-I) SHEN J | Absorptive article quick decomposition system for decomposing, purifying and recycling waste water from organic pollutants carried by absorptive article, has fluff fiber raw material manufacturing module connected with processing module |
| JP2023033751 | (DAKO) DAIICHI HIGH FREQUENCY CO LTD | Film peeling apparatus for peeling film of resin and rubber formed on inner surface of tubular element E.G. lining steel pipe, has peeling blade with C-shaped shape with slit extending in pipe axis direction |
| KR102510055 | (PARK-I) PARK S C | Recycled raw material extrusion die for removing foreign substances contained in recycled raw material, comprises a body element that is provided with a pair of screen holes and a bracket element is installed on the surface of the body element |
| ES1296864 | (BARR-I) RODRIGUEZ BARREIRO C (PERE-I) SAINZ PEREZ J V | Urban furniture entirely made of recyclable plastic with joints or joint luminescent inserted in surface created from profiles or irregular pieces of recyclable plastic through extrusion and mixing process, used in E.G. benches, and tables |
| WO2023026081 | (SMAR-N) SMARTLAB POLYMERS SIA | Devulcanizing vulcanized rubber or decrosslinking crosslinked polyolefins, comprises E.G. supplying vulcanized rubber or crosslinked polyolefins to atmospheric extruder and sonicating |
| WO2023026306 | (SHAS-I) SHASTRY R | Apparatus used to recycle lithium cobalt oxide (LCO) batteries in dry form, has control unit enables recycling process for LCO batteries using fine fraction package from sifter unit and segregated second coarse fraction from air classifier |
| EP4140680 | (BERT-N) GRUPPO BERTOLASO SPA | Extractor machine for removing metering valve from E.G. oil bottle, has extraction head provided with movement unit for moving jaw between closed configuration and open configuration in which gripping portions are moved away from each other |
| JP2023025463 | (DAOS) DAIO PAPER CORP | System for sorting waste plastic from E.G. waste household electric appliance, has second sorting unit that selects waste plastic pieces to which surface treatment is performed based on determination result of second discrimination unit |



| Nº DE PUBLICACIÓN | SOLICITANTE | CONTENIDO |
|----------------------|--|---|
| WO2023012614 | (FERR-N) FERRAM RECYCLING SRL | Recovery of raw material from waste products, E.G. end-of-life tires, involves pre-treatment of skein to be treated to separate harmonic steel fraction from non-ferrous fraction, and heat treatment of pre-treated skein |
| EP4129604 | (ALLS-N) ALL SUN (TECH-N) TECHNI- TERRE | Method for crushing and recycling used big-bags made up of continuous inner bag in polyethylene and outer woven envelope in polypropylene, involves compacting big bag(s), and grinding compacted big-bag(s) at grinding unit |
| EP4129605 | (INDA-N) INDAVER PLASTICS RECYCLING NV | Method for sorting mixed plastic packaging waste E.G. beverage carton, involves sorting mixed plastics packaging waste by size into number of size fractions, and sorting sorted waste into different size fractions |
| WO2023002432 | (WHIT-N) WHITE STAR SRL | Mechanical system for separating recyclable casing of capsules and/or pods from compostable organic material contained in casing, comprises motorized separation unit comprising containment compartment containing perforated basket |
| WO2023285891 | (WIJE-I) WIJESINGHE A S | Method for manufacturing of waste textile fiber reinforced polymer composite material, involves blending cleaned, crushed and grind fabric waste particles with crushed, recycled and/or virgin polypropylene or high impact polystyrene |
| FR3125244 | (SOPR-N) SOPREMA | Heating mixer for treatment of composite products based on thermoplastic material E.G. waste from factories or construction sites, has element that is configured for controlling flow of output including flap valve or pivoting flap |
| WO2022271022 | (GPBO-N) GPBO IP BV | Mobile installation for processing waste plastic materials into processed plastic end item, has melting unit for melting stream of plastic flakes, and processing unit for processing molten stream of plastics flakes in plastic end items |
| EP4104994 | (REPS-N) REPSOL SA | Method for sorting flexible polyurethane foams from mattresses, involves obtaining mid-infrared spectrum of each calibration sample, and determining molecular weight of polyol in each of calibration samples |



Reciclado Químico

| Nº DE PUBLICACIÓN | SOLICITANTE | CONTENIDO |
|----------------------|--|--|
| WO2023038267 | (GLDS) LG CHEM LTD | Monomer composition used for synthesizing recycled plastics for molded product E.G. automobile parts and communication products, comprises aromatic diol compound, where diethyl carbonate is obtained as by-product and monomer composition is recovered from polycarbonate-based resin |
| WO2023042611 | (ONEW-N) ONE WORLD JAPAN CO (ONEW-N) ONE WORLD JAPAN INC | Carbonization oil conversion processing apparatus for carbonization of food waste has container, tubular oil carbonization furnace, and driving motor is installed below transport passage at portion serving as inlet or outlet of end shutters and partition shutters |
| WO2023033598 | (GLDS) LG CHEM LTD | Screening method of solvent used for extracting acrylonitrile butadiene styrene copolymer, involves screening solvent from waste containing acrylonitrile butadiene styrene copolymer calculated from mixing energy between acrylonitrile butadiene styrene copolymer and solvent |
| WO2023037943 | (MITU) MITSUBISHI CHEM CORP (MITU) SHINRYO CORP | Manufacture of regenerated carbon fiber used as reinforcement material for fiber reinforced plastic, involves sandwiching article-to-be-treated comprising carbon fiber assembly between airpermeable sheets, and performing heat treatment in oxidizing atmosphere |
| FR3126981 | (MICL) CIE GEN ETAB MICHELIN & CIE | Purifying feed resulting from depolymerizing styrenic compounds comprises using distillation column with charge from purification process fed at bottom of column and separating stream rich in styrene into at least one stream |
| WO2023032494 | (HITA) HITACHI LTD | Decomposition of halogen-containing organic substance E.G. halogen-containing waste plastic, involves contacting oxide semiconductor compound and compound of element that reacts with halogen contained in organic substance, with substance, and heating and decomposing in oxygen-containing atmosphere |
| WO2023032240 | (AGRI-N) AGRI CULTURE KARUIZAWA CO LTD (WATA-N) WATAYA SEISAKUSHO CO LTD | Device for waste-plastic oil conversion, has primary decomposition tank that dissolves waste plastic, and secondary decomposition tank that heats liquid component, and produces low-boiling-point decomposition gas, where melting tank allows introduction of cracked gas or low boiling point cracked gas |



| Nº DE PUBLICACIÓN | SOLICITANTE | CONTENIDO |
|----------------------|---|--|
| WO2023009398 | (PACT-N) PACT FUEL LLC | Processing plastic waste used to make fuels, comprises E.G. volatilizing light organics from plastic waste in pre-conditioning chamber and directing resultants to first, second and third pyrolysis chambers to form pyrogas comprising alkanes |
| KR20230015041 | (UYKR) UNIV KOREA RES & BUSINESS FOUND | New enzyme complex comprising E.G. fusion protein 1 in which PETase and dockerin module are combined and fusion protein 2 having lipase and dockerin module, useful to degrade polyethylene terephthalate for decomposing waste plastic |
| US2023022441 | (AKUL-I) AKULA K C (DAND-I) DANDAMUDI K P R (DENG-I) DENG S (LIUY-I) LIU Y | Depolymerizing polyethylene-based plastic involves combining polyethylene-based plastic with solvent in a reactor to generate plastic solvent mixture, and then heating plastic solvent mixture in reactor and fractionating the plastic solvent mixture into gas phase product |
| FR3125731 | (CNRS) CENT NAT RECH SCI (ECOL-N) ECOLE NAT SUPERIEURE CHIM PARIS (PARS-N) PARIS SCI & LETTRES | Extraction and separation of component of LED such as organic light-emitting diode, involves partial depolymerizing layer comprising polydimethylsiloxane using solvent and fluorine salt, separating phosphor and LED, and separating acid solution comprising metal and LED |
| WO2023002306 | (MIPT) POLITECNICO DI MILANO (WHIL-N) WHILE TRUE SRL | Depolymerizing polyethylene terephthalate contained in dimethyl terephthalate fiber and relative re-polymerization to polyethylene terephthalate involves depolymerizing polyethylene terephthalate to bishydroxyethylene terephthalate, and recovering bishydroxyethylene terephthalate |
| US2023024065 | (INHA-N) INHANCE TECHNOLOGIES LLC | Improving quality of products made with recycled plastics, involves providing plastic article, providing fluorination gas in chamber to expose plastic article to fluorination gas, withdrawing fluorination gas and withdrawing treated plastic article from chamber |
| WO2023285545 | (UANT) UNIV ANTWERPEN | Recycling polyurethane comprises performing alcoholysis reaction of polyurethane with first alcohol, separating carbamate from polyol, performing thermolysis reaction on carbamate and separating isocyanate from alcohol |
| WO2022265111 | (MEPC) MITSUBISHI ENG-PLASTICS CORP (NIIT) NAT INST ADVANCED IND SCI & TECHNOLOGY (TOPP) TOPPAN INC (TOYJ) TOSOH CORP (UBEI) UBE CORP (TOHO) UNIV TOHOKU (KEIW- N) KEIWA KOGYO CO LTD (TOHZ-N) TOHZAI CHEM IND CO LTD (TOPP-N) TOPPAN INC | Separation and recovery device is device for continuously separating and recovering hydrolyzable component of hydrolyzable polymer and non-hydrolyzable polymer, which has crushing unit that crushes resin mixture, melting and discharging unit, and hydrothermal reaction processing unit |



| Nº DE PUBLICACIÓN | SOLICITANTE | CONTENIDO |
|----------------------|--|--|
| DE102021114871 | (GRUE-N) GRUENE PUNKT-DUALES SYSTEM DEUT GES ABFA | Recovery of consumer plastic packaging waste made from polyolefin, used as substitute of primary fuel, involves sorting waste to obtain polyethylene and/or polypropylene fractions, feeding fractions to processing unit, and converting residual polyolefin fraction into pyrolysis oil or pyrolysis gas |
| WO2022263745 | (POLY-N) POLYLOOP | Recycling polycarbonate-based composite waste comprises supplying composite waste in form of pieces, dissolution of pieces in 1,3-dioxolane under inert atmosphere, separating mixture in recovery of insoluble fragments and precipitating |
| WO2022263336 | (CVST) COVESTRO DEUT AG | Splitting polyurethane product, preferably polyurethane foam, comprises providing polyurethane product based on isocyanate component and polyol component, and reacting polyurethane product with monofunctional araliphatic alcohol |
| WO2022244881 | (MICR-N) MICROWAVE CHEM CO LTD | Producing (meth)acrylic monomer by irradiating and mixing (meth)acrylic resin with microwaves to obtain melt containing component having lower microwave absorptivity than (meth)acrylic resin at depolymerization temperature, adding and mixing additional (meth)acrylic resin, irradiating and mixing |
| WO2022259142 | (MIPT) POLITECNICO DI MILANO | Preparing polyesters and polyamides by partially depolymerizing polyester or polyamide, purification of products, recovering in form of solid mixture, and polymerizing solid mixture, where depolymerization is only partial and results in mixture of cyclic, aliphatic oligomers and starting polymer |
| WO2023007871 | (UNCH) UNI-CHARM KK (SDPG-N) SDP GLOBAL CO LTD | Producing secondary dehydrated superabsorbent polymer by immersing constituent material comprising sanitary article containing pulp fibers and superabsorbent polymer in acid-containing aqueous solution, separating primarily dehydrated superabsorbent polymer, and dehydrating |

VOLVER A CONTENIDO



NUEVOS PROCESOS INDUSTRIALES

En el siguiente gráfico se muestra la distribución de las 12.615 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 |
|----------------------|--|---|
| WO2023043471 | (PROC) IMFLUX INC | Method of manipulating control of operation of actuation unit of apparatus using remote controller, involves transmitting modified feedback signal to native controller of apparatus |
| DE102021123469 | (VALO) FTE AUTOMOTIVE GMBH (RTDA-N) RTD AUTOMOTIVE GMBH | Method for manufacturing E.G. pump component, involves filling cavity on side portion of component, where sufficient sealing material is injected for portion of sealing material to pass material from cavity through overflow channel |





| Nº DE PUBLICACIÓN | SOLICITANTE | CONTENIDO |
|----------------------|--|--|
| ES1296424 | (MART-I) GAMEZ MARTINEZ J L | Mold condition monitoring device, comprises programmable control unit connected to sensor, temperature sensor, humidity sensor, and pressure sensor |
| WO2023043862 | (BARN-N) BARNES GROUP INC | Injection molding apparatus, has electrically powered actuator driving piston reciprocally within fluid drive cylinder according to drive program that instructs actuator to drive valve pin between gate closed and gate open positions |
| WO2023277151 | (NASB) NISSEI ASB MACHINE CO LTD | Manufacturing apparatus of resin-made container, has temperature control unit to perform temperature control by dividing preforms housed in housing into third number of groups including second number of preforms which are respectively smaller than first number of preforms |
| WO2023041418 | (OTTO-N) OTTO MAENNER GMBH (OTTO-N) OTTO MEN GMBH | Injection molding device, has injection mold provided with first mold half and second mold half, where first and second index elements are operatively connected to acceleration sensor to identify offset of index elements in spatial direction |
| US2023092818 | (YUSH-N) YUSHIN PRECISION EQUIP CO LTD | Apparatus for taking out molded product, has display control section for displaying display screen at identification indications for multiple set operations set in operation sequence, set values for multiple set operations, and actual operations times stored in operation time storing section |
| FR3126916 | (SFRA) SAFRAN AIRCRAFT ENGINES | Mold for use in manufacture of composite material gas turbine fan casing, has compacting wedge which bears against side flanges of mandrel and covers top of external flanges of casing to be manufactured |
| JP2023034971 | (NIKL) JAPAN STEEL WORKS LTD | Method for adjusting molding condition parameter of molding machine E.G. injection molding machine, involves determining change timing of parameters, and sequentially changing parameters determined as object of change according to determined change timing |
| WO2023032402 | (HITA) HITACHI LTD | System for estimating pressure-volume-temperature characteristic of calculation model, comprises processor and storage device connected, and for estimating resin material calculation models of PVT characteristics of resin materials |
| WO2023026347 | (FUFA) FANUC CORP | Arithmetic unit of injection molding system, has determining unit that determines drive starting position of ejector rod at start of execution of projecting operation based on position of ejector rod when magnitude of load acquired during projecting operation exceeds threshold value |



| Nº DE PUBLICACIÓN | SOLICITANTE | CONTENIDO |
|----------------------|----------------------------------|--|
| WO2023026318 | (FUFA) FANUC CORP | Industrial machine E.G. injection molding machine for performing operation of one process, has display control unit that increases/decreases number of input fields displayed in display unit according to gesture operation detected by input operation detection unit |
| EP4140827 | (SUMO) SUMITOMO CHEM CO LTD | Making thermoplastic elastomer composition used in injection molding by melt-kneading polypropylene and ethylene-based copolymer rubber in presence of organic peroxide, adding polypropylene and melt-kneading resulting mixture |
| WO2023022138 | (POPL) POLYPLASTICS KK | Method for suppressing deterioration of strength of two-color molded article of polybutylene terephthalate resin and polycarbonate resin, used for automobile component, involves adding carbodiimide compound to polybutylene terephthalate resin |
| US2023079508 | (ALLA) ALCON INC | Automated production line for production of ophthalmic lenses, such as soft contact lenses, comprises production line front end comprising first injection-molding machine arranged in production line and configured to concurrently produce scalable multiple of front curve plastic lens molds |
| WO2023017762 | (TOYJ) TOSOH CORP | Metal member-polyarylene sulfide resin member composite for E.G. automobile, is injection-molded member of polyarylene sulfide resin composition comprising polyarylene sulfide resin, modified ethylene copolymer and glass fiber, which is integral injection molding of metal member and resin member |
| WO2023013375 | (KOIT) KOITO MFG CO LTD | Method of manufacturing transparent resin cover for use as outer cover of lighting fixture unit E.G. headlight for vehicle, involves injecting molten transparent resin into cavity, curing transparent resin in cavity and forming transparent resin cover having metal wire |
| FR3125457 | (ROVI-N) ROVIP | Injection mold for wrapper and dispenser assembly, has injection point for filling temporary space with plastic material before complete filling of plastic material of volume for molding walls of cap |
| WO2023003022 | (NASB) NISSEI ASB MACHINE CO LTD | Apparatus for manufacturing resin-made container, has injection molding unit that performs N injection molding at time, and blow molding unit that divides N preforms into n portions and M portions of resin container from preform at one time |
| WO2022259972 | (SHBU) SHIBAURA MACHINE CO LTD | Injection device used in molding machine, has injection cylinder connected to plunger for pushing molding material into mold, hydraulic device that supplies hydraulic fluid to cylinder, electric motor connected to piston, and control device for controlling hydraulic device and electric motor |



| Nº DE PUBLICACIÓN | SOLICITANTE | CONTENIDO |
|----------------------|----------------------------------|--|
| WO2023277151 | (NASB) NISSEI ASB MACHINE CO LTD | Manufacturing apparatus of resin-made container, has temperature control unit to perform temperature control by dividing preforms housed in housing into third number of groups including second number of preforms which are respectively smaller than first number of preforms |

Extrusión

| Nº DE PUBLICACIÓN | SOLICITANTE | CONTENIDO |
|----------------------|--------------------------------|--|
| WO2022259784 | (NIKL) JAPAN STEEL WORKS LTD | Test device for evaluating wear and corrosion resistance of metallic material of components e.g. screw or cylinder used in resin product extrusion device, consists of metal blocks which have surface area same as surface area of sample and formed from metal same as metal of sample |
| CA3143692 | (ZUBE-N) ZUBEX IND SA DE CV | Production of metal-free 7-layer co-extruded bi- oriented film used for packaging, involves co- extruding tubular strip having preset dimension, cooling to obtain amorphous multilayer strip, heating, biaxially orienting in expansion bubble, and heating to stabilize it and eliminate thermal shrinkage |
| WO2023031912 | (UBQM-N) UBQ MATERIALS LTD | Composite material used to reduce carbon emission and produce articles of manufacture comprises heterogenous organic matter comprising cellulose, synthetic polymers and inorganic matter and polyethylene terephthalate |
| WO2023031752 | (LOHI-N) LOHIA CORP LTD | Apparatus for drying of polymeric film in automated tape extrusion line and extruded from extruder, has film that travels horizontally at height, and dried film passed to cutter unit in which dried film slit into tapes of desired width and made to enter into hot air oven for processing |
| WO2023026081 | (SMAR-N) SMARTLAB POLYMERS SIA | Devulcanizing vulcanized rubber or decrosslinking crosslinked polyolefins, comprises E.G. supplying vulcanized rubber or crosslinked polyolefins to atmospheric extruder and sonicating |
| FR3125826 | (AUTH-N) AUTHENTIC MATERIAL | Manufacturing leather-based sheet, comprises preparing paste by treating material containing leather prepared from skin of non-human animal in twin-screw extruder, and shaping sheet dough |



| Nº DE PUBLICACIÓN | SOLICITANTE | CONTENIDO |
|----------------------|---|--|
| WO2023006713 | (CLEX-N) CLEXTRAL | System for continuous preparation of extruded food product, has envelope that is fixedly attached to sheath so that material leaving sheath is pushed by screw or screws through die |
| WO2023008993 | (ULTI-N) ULTIMAKER BV | Device for cleaning extruder of fused filament fabrication system, has controller for controlling inspection unit to perform visual inspection of tip portion of filament after retraction of filament from extruder |
| US2023014793 | (DUPO) LIQUI-BOX CORP | Recyclable, co-extruded multi-layer polymeric film for preparing flexible bags, comprises five layers of inner sealant layer comprising copolymer or ethylene/-olefin interpolymer fraction density and/or thickness of total inner sealant layer, first, and second interposed layer comprising copolymer |
| WO2021077509 | (ANHU-N) ANHUI SENTAI WOOD PLASTIC TECHNOLOGY CO (ANHU-N) ANHUI SENTAI WPC-TEC FLOORING CO LTD | Wood-textured foam floor includes foamed substrate formed of resin and having block structure, and hard surface layer integrally connected to foamed substrate and covering one surface, and hard surface layer includes first exposed surface |
| WO2023272382 | (LUPK-I) LUPKE M A A (LUPK-I) LUPKE S A | Apparatus for mold block exchange on corrugator, has staging platforms that are aligned with respective return tracks and are adapted to support replacement mold blocks |
| WO2022262904 | (GNEU-N) GNEUSS GMBH | Multi-way valve unit for plastic melts and other medium-to-high-viscosity fluids, has switching element designed in segments and arranged adjacent to intermediate plate and/or spacer element |

Soplado

| Nº DE PUBLICACIÓN | SOLICITANTE | CONTENIDO |
|----------------------|---|--|
| WO2023041369 | (BADI) BASF SE | Tubular casing used as packaging casing and sausage casing, comprises copolyamide produced by polymerizing lactam, and monomer mixture comprising 4-12C dicarboxylic acid and 1,5-diamino-3-oxapentane |
| WO2023041533 | (ALPL) ALPLA WERKE ALWIN LEHNER GMBH & CO KG | Mold for producing stretch blow molded polyester bottle, has base projecting into interior of mold and formed on base part, where side wall of base is oriented parallel to vertical axis of mold |



| Nº DE PUBLICACIÓN | SOLICITANTE | CONTENIDO |
|----------------------|---|---|
| DE102021123764 | (SALZ) KHS GMBH (SALZ) KHS LTD | Device for producing container from preforms, has transfer device provided with holding element for holding container and preform, and transport device provided with separate drive device for moving transfer device between first transfer position and second transfer position |
| WO2023031450 | (SALZ) KHS GMBH (SALZ) KHS LTD | Apparatus for producing preforms containing containers of thermoplastic material, has first preform stream and further stream downstream of first sorting device that are brought together in such way that form common stream entering heating device |
| DE102021122020 | (SALZ) KHS GMBH (SALZ) KHS LTD | Device for producing containers from preforms made of thermoplastic material, has transfer unit having transfer arm to which gripping element is connected and which is mounted on transfer unit so that it can move without contact |
| WO2023007279 | (TERE-N) TEREKAS UAB | Integrate pressure tightness testing system for testing tightness of E.G. bottles, has cold air supply unit for feeding cold air into cold air collector, and air receiver for storing compressed air intended for testing package tightness |
| WO2023007302 | (SARO) SARONG SPA | Heating and welding mold for heating and welding zones of first sheet of thermoformable plastic material, has cavities into which block is inserted, in which each block is fixed to bottom of respective cavity |
| WO2023003041 | (NASB) NISSEI ASB MACHINE CO LTD | Method for manufacturing resin container E.G. back- in-box for water server using blow molding machine, involves releasing container having neck sandwiched between core mold and transfer chuck from undercut portion by opening mold |
| CA3164865 | (GAIP-N) GAIPRAST CO LTD (GAPL-N) GAPLAST GMBH | Method for manufacturing container, involves introducing pressure medium through holes into gap between inner bag and outer container, which detaches inner bag from wall of outer container |
| WO2023277875 | (AMCO-N) AMCOR RIGID PACKAGING USA LLC | Polymeric container E.G. polyethylene terephthalate container, for packaging foods and beverages, has base moved inwards from as-blown configuration to post-vacuum configuration, where base includes pushup portion at axial center |



Transformado

| Nº DE PUBLICACIÓN | SOLICITANTE | CONTENIDO |
|----------------------|---|---|
| WO2023027020 | (ELED) DENKA CO LTD | Thermoplastic release film for semiconductor encapsulation process, has thermoplastic crystalline cyclic polyolefin which is provided with specific mass and specific mass of polyolefin thermoplastic elastomer |
| WO2023031780 | (LUXO-N) LUXOTTICA SRL | Glasses frame comprises at least one portion of electronic device encapsulated inside at least one element of the glasses frame, in which the element of the frame is comprised of plasticized cellulose acetate mixture |
| FR3125978 | (SFRA) SAFRAN | Method for manufacturing thin-walled acoustic component, involves forming molding cavities on mold corresponding to shape of hollow complex acoustic elements, and de-molding acoustic multi-element panel and arranging with acoustic elements |
| WO2023007035 | (ARIZ-I) GARRALDA ARIZCUREN M V (CENT-I) NUNEZ CENTANO A | Device for molding plastic components, has spray holes configured to allow refrigerant liquid to escape from coolant liquid line, and drain configured to allow evacuation of coolant coming from coolant liquid line |
| WO2023006536 | (SFRA) SAFRAN SEATS | Method for manufacturing E.G. backrest, of economy type airplane seat, involves positioning heating frame around stacked structure comprising core, and setting up structure stacked inside thermoforming mold equipped with cutting punches |
| WO2023286867 | (GTEK-N) G-TEKT CORP | Press die used in press machine, has intermediate rib that is formed around front and rear surfaces and left and right surfaces of frame portion and that forms side recesses on top and bottom sides, where frame portion, processing surface portion, and rib are integrally formed |
| WO2023281217 | (TEIN-N) CENT TECH IND PLASTURGIE & COMPOSITES | Method for making thermoplastic composites using system for shaping of textiles, involves heating upper and lower cavities of thermoregulated and thermally conductive mold by heat transfer fluid |
| EP4112272 | (MOND-N) MONDINI SRL | Method for making container, involves positioning tray in thermoforming mold, where tray comprises bottom wall, lateral wall and annular flange that are constituted of single sheet of material, folded and shaped |
| JP2022191900 | PANASONIC IP MAN CORP | Toilet bowl manufacturing method, toilet bowl body manufacturing device, and toilet bowl |



| Nº DE PUBLICACIÓN | SOLICITANTE | CONTENIDO |
|----------------------|--------------------------------------|---|
| EP4105383 | (SCAF-N) SCAFA THERMOFORMING GMBH | Method for producing shaped bodies from multi-ply paper, involves feeding paper layers arranged one on top of other, and pressing paper layers into shaped body corresponding to positive and negative molds by pressing tool |

Recubrimientos

| Nº DE PUBLICACIÓN | SOLICITANTE | CONTENIDO |
|----------------------|--|--|
| WO2023041633 | (PITT) PPG IND OHIO INC (WOER-N) WOERWAG LACK & FARBENFAB GMBH & CO KARL | System for applying coating film to surface of component to be painted, comprises framework in which coating film is fixable and which is used to position coating film over surface, where system comprises application unit |
| WO2023017853 | (SHOW) SHOWA DENKO KK | Lining material for repairing existing pipes, comprises fiber base material containing resin composition comprising vinyl ester resin, ethylenically unsaturated group-containing monomer, compound selected from oxides and/or hydroxides of specific group elements, and photopolymerization initiator |
| EP4140693 | (WOER-N) WOERWAG LACK & FARBENFAB GMBH & CO KARL | Method for applying adhesive film to component, involves stabilizing component against deformation caused by negative pressure, and pressing elastic membrane together with adhesive film against surface of component using stamping unit |
| WO2023017851 | (SHOW) SHOWA DENKO KK | Renovating pipe, by preparing resin composition comprising resin, ethylenically unsaturated group-containing monomer, thickening agent, and photopolymerization initiator, impregnating fiber base material with resin composition, obtaining lining material, arranging lining material in pipe, and curing |
| EP4122677 | (UNIO-N) UNIONPROFILI SRL | Method for making composite element used for manufacturing structures or components for furnishing or construction industry, involves folding panel along folding channel so as to join portion of inner surface of each of two portions |
| US2023003328 | (DUPO-N) DUPONT SAFETY & CONSTR INC | Pipe liner for use with cured-in-place pipes, has nonwoven felt included with polyester staple fibers and para-aramid staple fibers, where basis weight and thickness of nonwoven felt are measured specific in range |



| Nº DE PUBLICACIÓN | SOLICITANTE | CONTENIDO |
|----------------------|---|--|
| US2022402259 | (SMSU) SAMSUNG ELECTRONICS CO LTD (HOYE-N) HOYEON CO LTD | Film attaching apparatus for attaching UV-curable film to E.G. smartphone, has film absorption-fixing part provided with divided absorption areas, which are sequentially arranged to correspond to moving direction of roller module and configured to have different absorption forces, respectively |

Estirado

| Nº DE PUBLICACIÓN | SOLICITANTE | CONTENIDO |
|----------------------|--|---|
| WO2023031971 | (UFLE-N) UFLEX LTD | Monomaterial heat-sealable bi-axially oriented polyester film used to flexible package in the food industry, comprises skin layer modified with co-poly ester alloys having amorphous and semi-crystalline elastomeric co-polyesters |
| WO2023286541 | (ТОҮМ) ТОҮОВО КК | Biaxially oriented laminated polypropylene film used as insulating films for capacitors and motors, back sheets for solar cells, high barrier films with inorganic oxide layers, and base films for transparent conductive films such as indium tin oxide, comprises substrate layers |
| WO2023286541 | (ТОҮМ) ТОҮОВО КК | Biaxially oriented laminated polypropylene film used as insulating films for capacitors and motors, back sheets for solar cells, high barrier films with inorganic oxide layers, and base films for transparent conductive films such as indium tin oxide, comprises substrate layers |
| WO2023012125 | (INEO) INEOS EURO AG | Film oriented in at least machine direction used as multilayer film in article, comprises polyethylene composition having specific density and melt index |
| DE102021119557 | (BRKM) BRUCKNER MECHANICAL ENG GMBH & CO KG (BRKM) BRUECKNER MASCHBAU GMBH & CO KG | Insertion device for automatically inserting material web from first stretching system into second stretching system, has conveyor device which is designed to move strip of material web, which emerges from first stretching system |
| WO2022259668 | (KONS) KONICA MINOLTA INC | Method for manufacturing film roll by solution or melt casting, involves setting projecting portion with in specific range, and adjusting position of projecting portion so as to move continuously in longitudinal direction of surface of film |



Curvado

| Nº DE PUBLICACIÓN | SOLICITANTE | CONTENIDO |
|----------------------|---|--|
| FR3126916 | (SFRA) SAFRAN AIRCRAFT ENGINES | Mold for use in manufacture of composite material gas turbine fan casing, has compacting wedge which bears against side flanges of mandrel and covers top of external flanges of casing to be manufactured |
| WO2023028379 | (MARS-N) MARSHALL COMPOSITE TECHNOLOGIES LLC | Automated C-bar bending system for reinforcing concrete, has mechanical manipulation device connected to movable supports, and controller directing movement of device, where device moves supports relative to stationary supports |
| FR3125739 | (MFTE-N) MFTECH | Filament winding machine for winding continuous fiber on body, has winding system moved into active position for fiber winding by head winding and inactive position in which operator is carried out maintenance operations |
| WO2022269648 | (DYNA-N) DYNAMIC TECHNOLOGIES SPA | Shaping tubes of polymeric material, E.G. thermoplastic, by bending and shaping tube using computer numerical control bending machine, and arranging bent tube in thermal conditioning unit comprising molds |
| US2022410507 | (MITO) MITSUBISHI HEAVY IND CO LTD | Method for shaping laminated body of multi-layered sheet materials containing reinforcing fibers by using shaping die, involves depressurizing enclosed space to thin laminated body by sucking air of enclosed space formed in sealing step |
| WO2022265485 | (DGAR-I) VALDES DE LA GARZA X | Production method for circular or non-circular tanks based on multiple walls of composite material through continuous or discontinuous winding of glass fiber reinforced resin, involves generating external wall of tank, and preventing material of external wall from hanging |

VOLVER A CONTENIDO



MATERIALES CON PROPIEDADES AVANZADAS O MEJORADAS

En el siguiente gráfico se muestra la distribución de las 866 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.

PROPIEDADES AVANZADAS/MEJORADAS **Activadores Agentes Reticulantes** Degradación 1% 1% **Nanocomposites** 27% Cargas y **Pigmentos** 35% **Estabilizadores** 2% Autoreparadores **Biocidas** 26% 4% Ignífugo Antiestáticos -4% 0%

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 |
|----------------------|------------------------------------|--|
| WO2023041889 | (MICL) CIE GEN ETAB MICHELIN & CIE | Production of elastomeric composition used for forming semi-finished article for tire, introducing ethylene monomer, inorganic reinforcing filler, and organosilane compound into twin screw extruder, and recovering extruded composition from extruder |
| WO2023013650 | (ASAH) ASAHI KASEI KK | Antenna element has thermoplastic resin that contains polyphenylene ether-based resin, and load deflection temperature of thermoplastic resin composition is in predetermined range |





| Nº DE PUBLICACIÓN | SOLICITANTE | CONTENIDO |
|----------------------|-----------------------------------|---|
| WO2023032735 | (DOWO) DOW TORAY CO LTD | Curable silicone composition for cured product for semiconductor device, comprises hot-melt organopolysiloxane resin having alkenyl group, organosiloxane compound containing siloxane unit and alkenyl group, organohydrogensiloxane compound, hydrosilylation catalyst, and functional inorganic filler |
| WO2023033043 | (ASAH) ASAHI KASEI KK | Polyamide composition used for automobiles, machinery industry, industrial materials, industrial materials, and building materials, comprises polyamide, branched polyamine, sterically hindered phenol, and azine-based dye or phthalocyanine-based dye |
| WO2023032969 | (KAOS) KAO CORP | Asphalt mixture used in road paving method, comprises polyester resin, compound containing hydroxyl group or amino group, asphalt and aggregate containing asphalt regenerated aggregate |
| WO2023032741 | (JAPG) ZEON CORP | Sheet for battery modules, vehicle use, power leveling, and mobile use, has crosslinked product of nitrile rubber and heat-dissipating filler |
| WO2023022122 | (FUJF) FUJI FILM CORP | Composition used for producing film, comprises inorganic particles, cyclic siloxane compound and silicone-based surfactant other than cyclic siloxane compound |
| JP2023026857 | (POPL) POLYPLASTICS KK | Method for suppressing deterioration of strength of two-color molded article of polybutylene terephthalate resin and polycarbonate resin, used for automobile component, involves adding carbodiimide compound to polybutylene terephthalate resin |
| WO2023017805 | (SHOW) SUNALLOMER LTD | Polypropylene composition for injection molded product, comprises polypropylene, polypropylene composition comprising polypropylene and propylene-alpha-olefin copolymer, polypropylene composition comprising propylene-alpha-olefin copolymer, copolymer elastomer of ethylene and 1-butene and filler |
| JP2023025746 | (TOYJ) TOSOH CORP | Metal member-polyarylene sulfide resin member composite for E.G. automobile, is injection-molded member of polyarylene sulfide resin composition comprising polyarylene sulfide resin, modified ethylene copolymer and glass fiber, which is integral injection molding of metal member and resin member |
| WO2023013716 | (MITN) MITSUBISHI GAS CHEM CO INC | Curable composition used for forming prepreg for forming metal foil clad laminate for printed wiring board, comprise alkenylphenol, epoxy-modified silicone, epoxy compound excluding epoxy-modified silicone, and aminotriazine novolac resin |



| Nº DE PUBLICACIÓN | SOLICITANTE | CONTENIDO |
|----------------------|--|--|
| WO2023013711 | (MITN) MITSUBISHI GAS CHEM CO INC | Thermosetting resin composition used for forming cured product, comprises polymer containing structural unit derived from alkenylphenol, structural unit derived from epoxy-modified silicone and structural unit derived from epoxy compound, and aromatic phosphorus compound |
| KR20230010360 | (KANG-N) KANGNAM JEVISCO CO LTD | Powder coating composition useful for production of metallic products ranging from silver to gold comprises polyester resin with carboxyl group, epoxy resin with glycidyl ether of bisphenol A, pinhole inhibitor and leveling agent |
| WO2023006818 | (ROHG) ROEHM GMBH | Thermoplastic molding composition useful in formed article, comprises polymer matrix comprising thermoplastic polymer, inorganic pigment comprising mixed metal oxides or oxosulfides comprising niobium, tin and zinc, and organic dye |
| WO2022270460 | (SEKI) SEKISUI CHEM CO LTD | (Meth)acrylic resin composition used in inorganic fine particle-dispersed slurry composition, comprises (meth)acrylic resin comprising sulfur atom, high-molecular-weight (meth)acrylic resin(s) and low-molecular-weight (meth)acrylic resin, and organic solvent comprising hydroxyl group |
| JP2023012454 | (KAOS) KAO CORP | Asphalt composition used in asphalt mixture for road pavement, contains asphalt and asphalt modifier, where asphalt modifier comprises polyesteramide containing structural units derived from alcohol component, carboxylic acid component, and polyamide component |
| WO2022264895 | (SONY) DEXERIALS CORP | Thermally conductive sheet used in electronic device E.G. central processing unit, comprises cured product of composition containing binder resin, anisotropic thermally conductive filler, and thermally conductive filler other than anisotropic thermally conductive filler |
| WO2023280172 | (TORA) TORAY ADVANCED MATERIALS RES LAB | Producing terminal-modified polyester resin by E.G. using diol composed of terephthalic acid or its esterforming derivatives or its ester, subjecting to esterification or transesterification reaction, followed by polycondensation reaction |
| KR20220169439 | (GLDS) LG CHEM LTD | Manufacture of superabsorbent polymer used for E.G. diaper, involves pumping superabsorbent particles by rotation of component dropped in direction of gravity and contacting with cooling air and water introduced into transfer space using spade-type cooler |
| WO2015200173 | (CARB-N) CARBON INC (CARB-N) CARBON3D INC | Preparation of three-dimensional component E.G. lens, involves filling build region in optically transparent component with liquid comprising photopolymerizable component and solidifiable component, irradiating with light and curing |



| Nº DE PUBLICACIÓN | SOLICITANTE | CONTENIDO |
|----------------------|--|--|
| WO2022262914 | (CONW) CONTINENTAL REIFEN DEUT GMBH | Sulfur-crosslinkable rubber mixture useful for treads of pneumatic vehicle tires, comprises solid, solution polymerized, functionalized butadiene rubber, further diene rubber, liquid, modified diene polymer A silica and natural polyisoprene |
| JP7188519 | (YOKO) YOKOHAMA RUBBER CO LTD | Rubber composition used in tread portion of tire E.G. pneumatic tire, and non-pneumatic tire of automobile, is obtained by compounding diene rubber containing specific modified conjugated diene polymer with filler and resin |
| WO2022259981 | (ASAG) AGC INC | Composition used in metal-clad laminate for manufacturing wiring board, electronic materials and various devices, comprises fluoropolymer containing fluoroolefin-based units and units based on monomer having adhesive functional group, and inorganic filler having specific surface area |

Agentes Reticulantes

| Nº DE PUBLICACIÓN | SOLICITANTE | CONTENIDO |
|----------------------|---|---|
| DE102021210272 | (CONW) CONTINENTAL REIFEN DEUT GMBH (CONW) CONTINENTAL TIRES GERMANY GMBH | Adhesive composition for permanently bonding vulcanized rubber components to form composite E.G. vehicle tires, comprises diene rubber, organic solvent, hydrocarbon resin and/or polyolefin, stearic acid, and sulfur vulcanization system |
| WO2023031412 | (BRID) BRIDGESTONE EURO NV SA | Rubber composition used for forming carcass portion of tire, comprises polymer base with cross-linkable unsaturated chain comprising natural rubber, and filler comprising carbon black and vulcanization system comprising sulfur, mixture of accelerator and anti-reversion agent |
| WO2023276517 | (TORA) TORAY IND INC | Resin composition used for forming cured product for semiconductor device, comprises dione-based resin compound, and phenyl-based resin compound |
| EP4105369 | (CONW) CONTINENTAL REIFEN DEUT GMBH | Composite material for use in manufacture of vehicle tires, comprises arrangement of juxtaposed steel cords which are at least partially covered by crosslinkable rubberizing compound |



Estabilizadores

| Nº DE PUBLICACIÓN | SOLICITANTE | CONTENIDO |
|----------------------|--|---|
| WO2023012248 | (BADI) BASF SE | Thermoplastic polyurethane (TPU) used for E.G. irrigation device, and production of extrusion product, film, membrane, and shaped body, is formed as reaction product of mixture comprising polyol composition comprising polyol, chain extender, triol, and isocyanate composition comprising isocyanate |
| WO2022269249 | (SYMP-N) SYMPHONY ENVIRONMENTAL LTD | Additive composition used in polymer substrate for food packaging, medicines or sanitary products, comprises carrier material, oxygen scavenger, and either antimicrobial substance or food preservative, where oxygen scavenger, antimicrobial substance and food preservative are different materials |
| EP4105256 | (CVST) COVESTRO DEUT AG | Thermoplastic molding composition used for forming molded product, comprises preset amount of thermoplastic polyurethane polymer obtained by reacting aliphatic diisocyanate(s) and aliphatic diol(s) having preset molecular weight, and sterically hindered amine light stabilizer |

Biocidas

| Nº DE PUBLICACIÓN | SOLICITANTE | CONTENIDO |
|----------------------|--|--|
| EP4112675 | (MICH-N) MICHALIK PANAMEDICA MACIEJ | Manufacture of antimicrobial composite used for e.g. packaging material, involves adding zinc salt E.G. zinc chloride and deionized water, stirring, adding stabilizing polymer E.G. polyvinylpyrrolidone and polysulfone, stirring, dosing into cylinder extruder, heating, pressing, and cooling |
| JP2022184334 | (SGNO) SUGINO MACHINE KK (OKAY- N) OKAYAMA PREFECTURE | Composite used for antibacterial agent, comprises biomass nanofibers and silver nanoparticles, where silver nanoparticles are precipitated and immobilized on biomass nanofibers |



Ignífugos

| Nº DE PUBLICACIÓN | SOLICITANTE | CONTENIDO |
|----------------------|----------------------------------|--|
| DE102021123604 | (UYAA-N) UNIV AACHEN APPLIED SCI | Polymer composition useful as aid in preventive fire protection in polymer-containing workpieces in field of E.G. construction, comprises polymer and additives including dehydrating flame retardant e.g. aluminium trihydroxide and magnesium dihydroxide, and filler |
| WO2023027544 | (HANW) HANWHA SOLUTIONS CORP | Vinyl chloride resin composition for wallpaper, comprises plasticizer comprising regenerated cyclohexane dicarboxylate-based compound and cyclohexane dicarboxylate-based compound having preset acid value, antimony flame-retardant and phosphate flame-retardant |
| JP2023007873 | (TOST-N) TOYO STYRENE CO LTD | Styrene-based flame-retardant resin composition used for E.G. office automation equipment, comprises rubber-modified styrenic resin, yellow brominated compound as flame retardant, flame retardant containing brominated compounds having specific melting point, and flame retardant aid |
| EP4105252 | (CVST) COVESTRO DEUT AG | Thermoplastic molding composition to produce molding, comprises thermoplastic polyurethane polymer obtained by reacting aliphatic diisocyanate and aliphatic diol, where structural component used to produce thermoplastic polyurethane polymer |

Autorreparadores

| Nº DE PUBLICACIÓN | SOLICITANTE | CONTENIDO |
|----------------------|--|--|
| WO2023038043 | (KAN) KANEKA CORP | Benzoxazine composition used for forming E.G. curing product, comprises benzoxazine compound, epoxy group-containing compound and/or transesterification catalyst is one or more chosen from acidic compounds, basic compounds, phosphorus compounds, and metal salts chosen from zinc, tin, and zirconium |
| WO2023014986 | (UMBA) UNIV MARYLAND COLLEGE PARK (DONG-I) DONG Q | Forming new pipe portion (pipe within existing pipe) by applying first slurry over surface of existing pipe to form first layer, having powder, binder and solvent and sintering powder in first layer to form the pipe portion by subjecting |



| Nº DE PUBLICACIÓN | SOLICITANTE | CONTENIDO |
|----------------------|--|--|
| WO2023014508 | (ESSO) EXXONMOBIL TECHNOLOGY & ENG CO | Reversible epoxy polymer used in composition, is obtained by reacting epoxy compound(s) in which at least portion of contains one reversible borate moiety or its derivative per molecule with curing agent(s) containing reversible borate moiety |
| DE102021120228 | (DARS) UNIV DARMSTADT TECH KORPERSCHAFT OFFENTL | Cement additive for self-healing of cement-bound system, comprises bio-based plastic in form of fibers which is subjected to chemical decomposition process and silicon-containing solid component which is released when bio-based plastic decomposes and lead to chemical reaction |
| DE102021205957 | (KOEH-N) KOEHLER INNOVATION & TECHNOLOGY GMBH | Biodegradable microcapsules useful in preparing e.g. medicinal product, coated paper and cosmetic product, comprise core material and shell, where shell includes barrier layer and stability layer |

Nanocomposites

| Nº DE PUBLICACIÓN | SOLICITANTE | CONTENIDO |
|----------------------|--|--|
| WO2023013253 | (MITN) MITSUBISHI GAS CHEM CO INC | Multilayer film used for transportation machine parts such as automobiles, general machine parts, precision machine parts, medical equipment, and leisure sports goods, comprises layer formed from resin composition containing polyamide resin and single-walled carbon nanotubes, and other layer |
| WO2023009668 | (REGC) UNIV CALIFORNIA | Nanocomposite ceramic or glass material used in E.G. fine china, comprises matrix materials, and nanostructures comprising core-shell nanostructure dispersed with matrix material |
| WO2023277145 | (UYZA) UNIV KANAZAWA NAT CORP (KUSA-N) KUSANO SAKKO INC (SUMI- N) SUMITOMO PHARM FOOD & CHEM CO LTD | Producing polysaccharide composition compounded with polysaccharide nanofibers, involves mixing sol containing polysaccharide nanofibers, polysaccharide and solvent capable of dissolving polysaccharide and drying obtained mixture |
| JP2022189273 | (TAKT) TAKEMOTO OIL & FAT CO LTD (TAKT) TAKEMOTO YUSHI KK | Sizing agent for producing inorganic fibers for composite material, contains resin and cellulose nanofibers |
| US2023091672 | (AISE) AISIN TECH CENT AMERICA INC | Polymer-graphene composite component comprises composite structure with foam core comprising first polymer and graphene, and overmolded skin disposed on foam core, where overmolded skin comprises second polymer and graphene |





NOTICIAS

ESPAÑA SE POSICIONA DENTRO DE LOS 10 PAÍSES DE LA UE CON MAYOR NÚMERO DE SOLICITUDES DE PATENTE EUROPEA

La Oficina Europea de Patentes (OEP) ha publicado los datos estadísticos correspondientes al *Índice de Patentes 2022* que recoge el número de solicitudes de patente europea presentadas en dicha oficina durante el pasado año.

Número de solicitudes

En el año 2022 se presentaron un total de 193.460 solicitudes, lo que supone un crecimiento del 2,5% respecto al año anterior y el dato más alto hasta la fecha.

Con este indicador temprano de las inversiones en investigación y desarrollo de las empresas, se desprende la idea de la resistencia y sostenimiento de la innovación a pesar de las incertidumbres económicas globales.

España se encuentra entre los 20 primeros puestos del ranking de países con mayor número de solicitudes de patente europea, y entre los 10 primeros países de la UE. En el año 2022, se presentaron 1.925 solicitudes de patente europea de empresas e inventores de origen español, el segundo dato más alto de su historia.

Tecnologías

En el ámbito europeo, la comunicación digital, la tecnología médica y la tecnología informática registraron los mejores datos de solicitudes.

En el caso de España, son las tecnologías sanitarias las ocupan los tres primeros puestos de número de solicitudes de patente europea. El campo farmacéutico, sigue ocupando el primer puesto, seguido de la tecnología médica y la biotecnología. Estos tres campos agrupados en la denominada tecnología sanitaria, representan aproximadamente la cuarta parte del total de solicitudes de patente europea presentadas por España ante la OEP.

Respecto a aquellos sectores con mayor crecimiento en número de solicitudes de patente europea procedentes de España, cabe destacar la tecnología medioambiental, con un crecimiento del 82,1% con respecto al año anterior, la informática, y los sistemas de medición, con crecimientos del 35,0% y 31,7%, respectivamente.

Solicitantes

La empresa de telecomunicaciones china Huawei, vuelve a ser el principal solicitante de patentes en la OEP con 4.505 solicitudes, seguido por LG en segundo puesto y Qualcomm.

En el caso de **España**, son los centros de investigación y las universidades los que desempeñan un papel fundamental en la innovación, ocupando seis de seis de los diez primeros puestos de principales solicitantes (CSIC, Fundación Tecnalia Research & Innovation, Universitat Politècnica de València, Universidad Autónoma de Barcelona, Universidad del País Vasco y Universitat de Barcelona).

Regiones españolas con mayor número de solicitudes

Cataluña, la Comunidad de Madrid y el País Vasco representan el 66% de las solicitudes de patentes presentadas ante la OEP desde España, con 604, 410 y 255 solicitudes, respectivamente, siendo las regiones con mayor número de solicitudes de patente europea.



Fuente: Oficina Europea de Patentes

Más información

Índice de Patentes de la Oficina Europea de Patentes 2022

Infografía

PUESTA EN PRODUCCIÓN DEL NUEVO SISTEMA WEB DE PRESENTACIÓN ELECTRÓNICA DE INVENCIONES, OEPMSEI

El pasado 13 de diciembre se puso en producción el nuevo sistema Web de presentación electrónica de



invenciones (OEPMSei – Solicitud Electrónica de Invenciones).

Esta aplicación, desarrollada de la mano de la Oficina Europea de Patentes, pretende dar solución a una de las mayores demandas de nuestro colectivo de usuarios, consistente en modernizar y hacer más amigables e intuitivos nuestros sistemas de solicitud electrónica de las diferentes modalidades de invenciones.

Para llevar a cabo una transición lo más suave posible y facilitar una

incorporación gradual, se ha diseñado un plan que consta de varias fases:

- Fase 1: Acceso de un grupo reducido de usuarios profesionales a la primera versión de la herramienta, para solucionar posibles errores e incorporar las primeras mejoras. Es la fase en la que actualmente nos encontramos
- Fase 2: Acceso ampliado a otros usuarios profesionales
- Fase 3: Apertura de la herramienta al público en general

Durante todo este proceso se seguirá manteniendo el sistema actual (e-OLF) de forma paralela, y se irá restringiendo su acceso de forma progresiva.

Desde la OEPM queremos agradecer a la Oficina Europea de Patentes su gran implicación en el proyecto y el gran trabajo en equipo llevado a cabo.

Más información

OEPMSei



LA OEPM PARTICIPA DE FORMA ACTIVA EN FORO TRANSFIERE 2023

La Oficina Española de Patentes y Marcas, O.A. (OEPM) ha participado en la duodécima edición del Foro Transfiere, Foro Europeo para la Ciencia, Tecnología e Innovación, celebrada en Málaga del 15 al 17 de febrero.

Este Foro se ha consolidado como uno de los principales puntos de encuentro para el ecosistema de innovación en el sur de Europa, siendo su objetivo fomentar la transferencia de ciencia y tecnología, así como la cooperación entre los sectores científico y empresarial.

A lo largo de los tres días de Transfiere, las pymes, emprendedores y start-ups expusieron sus productos

y servicios ante las grandes demandantes de empresas tecnología. El Foro contó con la participación de más de 4.300 profesionales, más de 500 entidades empresas, У administraciones públicas y 420 nacionales ponentes e internacionales. Además. se celebró la entrega de los premios al periodismo científico, que nacieron con el objetivo de dar visibilidad al



trabajo e impacto en la sociedad de los medios y periodistas.

Al igual que en ediciones pasadas, la OEPM, forma parte del Comité Organizador de la propia feria. Asimismo, el organismo ejerce como jurado en los premios de periodismo y participa en diversas conferencias y paneles relacionados con la propiedad industrial. Entre otros, cabe destacar un Taller de Búsqueda de Patentes impartido por profesionales de la Oficina, un encuentro con Plataformas Tecnológicas y una mesa redonda sobre Generación de oportunidades de negocio: propiedad industrial y uso de patentes, moderada por la Directora del Departamento de Patentes e Información Tecnológica.

El acto de inauguración del Foro Transfiere contó con la participación, entre otras personalidades, del Subsecretario de Industria y de la Directora de la OEPM, y por parte del Ministerio de Ciencia e Innovación, la Secretaria General de Innovación. Asimismo, participaron la Junta de Andalucía y el Ayuntamiento de Málaga.

Transfiere cuenta por otro lado con la participación de representantes del mundo científico y académico de Universidades, Plataformas Tecnológicas y Centros públicos y privados de Investigación, que aprovecharon esta oportunidad para posicionar sus avances tecnológicos en el mercado.

En palabras del Subsecretario, Pablo Garde, "el Ministerio de Industria, Comercio y Turismo lleva apostando decididamente estos años por hacer de la innovación el eje central de la industria y del emprendimiento en España. Un claro ejemplo de ello ha sido el impulso a los Proyectos Estratégicos para la Recuperación y Transformación Económica (PERTE). Además, la protección de la propiedad industrial, que brinda la OEPM, es un instrumento esencial para conseguir este propósito".

La innovación y el emprendimiento, impulsados por el sector público, son, en definitiva, los protagonistas absolutos de esta Feria.





