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 CIRCULAR**
- **NUEVOS PROCESOS INDUSTRIALES**
- **MATERIALES CON PROPIEDADES AVANZADAS O MEJORADAS**
En el siguiente gráfico se muestra la distribución de las 16.830 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

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<thead>
<tr>
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<tbody>
<tr>
<td>US2023254394</td>
<td>(NGUY-I) NGUYEN K</td>
<td>Cup holder attachment for holding beverage and propping up cell phone at viewable angle for use in car air conditioning vent, has hole for allowing rod and supporter to support cell phone in configurations with vertical position and horizontal position of cell phone</td>
</tr>
</tbody>
</table>
### Injection process for active packaging for release of antimicrobial and antifungal

Injection process for active packaging for release of antimicrobial and antifungal, involves performing extrusion and injection of plastic, using polymeric matrix of polylactic acid with addition of beta-cyclodextrin-thymol and beta-cyclodextrin-carvacrol.

### Oxygen-absorbing laminate for packaging material

Oxygen-absorbing laminate for packaging material, comprises layer structure in which at least oxygen barrier layer, oxygen-absorbing adhesive layer comprising adhesive composition which comprises oxygen-absorbing compound and/or catalyst, and sealant layer are laminated.

### Recycled type collapsible plastic blow injection molded container

Recycled type collapsible plastic blow injection molded container such as fully recyclable 50ml spirit container, has finish for defines opening, longitudinal axis of container extends through axial center of each of opening, and base is configured to collapse along material bands to have flat body.

### Blister pack for consumable products E.G. pharmaceutical product

Blister pack for consumable products E.G. pharmaceutical product, has reinforcing strip having support configured to partially cover second recess of blister film, which is sealed between lidding film and blister film in contact region in sealed configuration of blister pack.

### Construcción

### Device for automated assembly of polymer spacer for insulating glazing used in window and facade area of buildings

Device for automated assembly of polymer spacer for insulating glazing used in window and facade area of buildings, has control unit that enables appropriate positioning of longitudinal side sections and transverse side sections transmitted to positioning unit.

### Laminated glazing for use in glass window (claimed)

Laminated glazing for use in glass window (claimed) of E.G. decorative architectural panels for reducing or preventing bird collision, has thermoplastic interlayer consisting of surface provided with bird protection pattern.

### Window system for controlling transmission of thermal radiation from external source of electromagnetic radiation

Window system for controlling transmission of thermal radiation from external source of electromagnetic radiation, has processor for applying potential difference between determined electrodes in electrode layers.
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<tr>
<th>Nº DE PUBLICACIÓN</th>
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<tbody>
<tr>
<td>WO2023144771</td>
<td>(SERR-N) SERRAMENTI BROMBAL SRL</td>
<td>Door/window frame structure for making door/window casing to be anchored to wall of building, has pair of straight metal profiles comprising first end to be coupled with insulating element, and profile of pair comprising second end</td>
</tr>
<tr>
<td>US2022106829</td>
<td>(CLOP ) CORNELLCOOKSON LLC</td>
<td>Overhead door panel for providing security and access control in institutional, industrial and commercial buildings, has first and second seal systems engage with glass pane of pair of parallel glass panes and lateral stile of metal frame</td>
</tr>
<tr>
<td>FR3131710</td>
<td>(COMP ) SAINT-GOBAIN GLASS FRANCE</td>
<td>Laminated glazing I.E. pinched glazing, for E.G. window of pressurized or non-pressurized aircraft with rotary wing, has seal extending in direction of window presser and mounting structure into rigid projection and flexible protrusion</td>
</tr>
<tr>
<td>GB2616094</td>
<td>(CONT-I) CONTESSA R</td>
<td>Rodent ingress prevention apparatus for wall cavity where pipe enters into building I.E. domestic residential building, has retainer plates inserted into plate receiver formations to close off remainder of pipe receiving section around pipe</td>
</tr>
<tr>
<td>GB2615535</td>
<td>(KNAU-N) KNAUF INSULATION SRL</td>
<td>Hydronics underfloor heating system for providing indoor climate control for use in indoor floor of building, has heating pipe arranged and secured over upper surface of insulating floor panel by retaining anchors, which is anchored in insulating floor panel</td>
</tr>
<tr>
<td>WO2023146557</td>
<td>(WORT-N) WORTHINGTON PROD INC</td>
<td>High-density polyethylene marine boom for forming E.G. containment barrier, has end wall that extends across one end of main body, and floatation billet being placed within cavity in elongated generally cylindrical shell</td>
</tr>
<tr>
<td>GB2615079</td>
<td>(MCLO-I) MCLoughlin S J</td>
<td>Method for continuously recovering plastic debris from seawater, involves enabling temporary accumulation of plastic debris, and mounting of high-volume, low-pressure centrifugal seawater pumps and recovery conduit</td>
</tr>
<tr>
<td>CA3191518</td>
<td>(SAIP-N) SAIP IMPIANTI POLIURETANI SRL</td>
<td>Equipment for fitting standing seam type panels for insulating housing roofs, has carriage comprising thrust unit for introducing plates into tail end of intermediate layer, where thrust unit is placed downstream of dies</td>
</tr>
<tr>
<td>WO2023158402</td>
<td>(ASSA-N) ASSAN PANEL SANAYI &amp; TICARET AS</td>
<td>Lateral load sandwich panel for providing water and heat insulation in slope roofs, has double dent mid rib in hard foam filling structure to provide photovoltaic module mounting by inserting cap and mounting apparatus to ribs</td>
</tr>
<tr>
<td>WO2023143691</td>
<td>(KNAF) KNAUF GIPS KG</td>
<td>Projectile resistant wall assembly used for partition and exterior wall of building, has cavity that is present between first side and second side and cavity that thickness of 40 mm. and is filled with air or insulation material</td>
</tr>
<tr>
<td>Nº DE PUBLICACIÓN</td>
<td>SOLICITANTE</td>
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<tr>
<td>WO2023152379</td>
<td>(SIKA) SIKA TECHNOLOGY AG</td>
<td>Roofing element for waterproofing of building constructions E.G. basement, has backplane comprising second electrode layer, and electrophoretic material layer comprising medium sandwiched between first light-transmissive electrode layer and backplane</td>
</tr>
<tr>
<td>US2023231510</td>
<td>(GAFE-N) GAF ENERGY LLC</td>
<td>Photovoltaic system, has multiple roofing shingles installed on roof deck and provided with first end and second end opposite first end, cap layer provided with first surface and pattern printed on first surface, and core layer arranged underneath cap layer</td>
</tr>
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**Automoción**

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<tr>
<th>Nº DE PUBLICACIÓN</th>
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<tbody>
<tr>
<td>DE102022200388</td>
<td>(CONW) CONTINENTAL REIFEN DEUT GMBH (CONW ) CONTINENTAL TIRES GERMANY GMBH</td>
<td>Pneumatic tire for vehicle, has carcass plies that are provided with rubberized strength elements with cord angle in predetermined range in one side region and cord angle in predetermined range in central region, where combined mass fraction of carcass plies is in predetermined range</td>
</tr>
<tr>
<td>EP3656547</td>
<td>(KOEG-N) KOEGEL TRAILER GMBH</td>
<td>Insulating panel for vehicle structure E.G. refrigerated vehicle structure, has core layer that is provided with connection opening which is filled by cover layers, to integrally connect cover layers to one another through core layer</td>
</tr>
<tr>
<td>DE102022101655</td>
<td>(IILT) ILLINOIS TOOL WORKS INC</td>
<td>Actuating portion E.G. handle portion for door handle assembly of vehicle E.G. passenger car for use by vehicle occupant to open or close vehicle door from interior, has decorative portion integrally connected to carrier portion</td>
</tr>
<tr>
<td>DE102022101292</td>
<td>(BAYM) BAYERISCHE MOTOREN WERKE AG</td>
<td>Pressure vessel assembly for vehicle, has pressure vessel for storing fuel, fixture provided with block formed from molded units, receptacle formed in block, which is designed to hold pressure vessel in sections</td>
</tr>
<tr>
<td>DE202023102698</td>
<td>(MAHL) MAHLE INT GMBH</td>
<td>Air duct for heating, ventilation and air conditioning system in motor vehicle, has e outer wall for surrounding inner wall, and cavity formed between inner wall and outer wall, where inner wall touches outer wall and formed with two first shell elements</td>
</tr>
<tr>
<td>CN116395043</td>
<td>(ANHU-N) ANHUI WEIDU HOLDINGS CO LTD</td>
<td>Light weight tube beam assembly component for heavy traction vehicle, has beam pipe main pipe for providing support to mounting steering pipe column, and beam pipe supporting rod for fixedly connecting beam pipe assembly on vehicle body</td>
</tr>
<tr>
<td>Nº DE PUBLICACIÓN</td>
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<tr>
<td>CN219295532</td>
<td>(NING-N) NINGBO HADEXIN AUTOMOTIVE ELECTRICAL</td>
<td>Hybrid vehicle beam has inner grid reinforcing rib that is composed of long rib and transverse rib vertical to long rib</td>
</tr>
<tr>
<td>WO2023118034</td>
<td>(NSUM) AUDI AG</td>
<td>Plastic component E.G. underride guard for at least partially electrically powered motor vehicle, has flat fire protection textile which is arranged between protruding support sections and materially connected to base plate</td>
</tr>
</tbody>
</table>
En el siguiente gráfico se muestra la distribución de las 1.087 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

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<tr>
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<tbody>
<tr>
<td>WO2023174899</td>
<td>(NEST) SOC PROD NESTLE SA (EMPA-N) EMPA</td>
<td>Manufacture of biodegradable compound for packaging items, involves providing extruder comprising heater, rotating screw, and feeding units, feeding unit with polyhydroxyalcanoate polymer, maleic anhydride, cellulosic fibers being hardwood cellulose fibers having preset length and density</td>
</tr>
<tr>
<td>WO2023171699</td>
<td>(KYOU) UNIV KYOTO NAT CORP INST TECHNOLOGY (CURE-N) CURLELABO CO LTD (RINN-N) RINNOVATION INC</td>
<td>Polymer-containing composition used in manufacture of polymer fiber for producing yarn, comprises gel-like biodegradable polymer, sulfoxide-based organic solvent or nitrogen-containing organic solvent, and ionic liquid</td>
</tr>
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### CONTENIDO

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<tr>
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<tbody>
<tr>
<td>WO2023120689</td>
<td>(DOWO) DOW TORAY CO LTD</td>
<td>New vinyl-modified organopolysiloxane used for preparing silicone elastomer particles, and radically-polymerizable polymer or radically-polymerizable copolymer, comprises polyorganosiloxane structure, and two or more vinyl-modified groups bonded to silicon atom in molecule</td>
</tr>
<tr>
<td>WO2023120690</td>
<td>(DOWO) DOW TORAY CO LTD</td>
<td>New reactive group-containing polycaprolactone compound having modified polycaprolactone used as synthetic raw material for producing silicone elastomer particles for cosmetic raw material, cosmetic composition, organic resin additive, and organic resin</td>
</tr>
<tr>
<td>JP2023105918</td>
<td>(MITU) MITSUBISHI CHEM CORP</td>
<td>Composition used in foam, toys, industrial materials, and cushioning materials, comprises aliphatic polyester having aliphatic diol units and aliphatic dicarboxylic acid units as main repeating units, and either polylactic acid and/or starch</td>
</tr>
<tr>
<td>KR20230117811</td>
<td>(UYAD) UNIV ANDONG NAT IND ACADEMIC COOP FOUND</td>
<td>Composition for eco-friendly filament, comprises soybean hulls and biodegradable plastic resin</td>
</tr>
<tr>
<td>JP2023111812</td>
<td>(FUJI-N) FUJI PIGMENT CO LTD (FUJI-N) FUJI SHIKISO KK (GREEn-G) GREEN SCI ALLIANCE CO LTD (GSAL-N) GS ALLIANCE CO LTD</td>
<td>Thermoplastic composition used for forming thermoplastic pellets and molded article, comprises cellulose and eutectic mixture of monosaccharides and/or disaccharides, and hydroxycarboxylic acids</td>
</tr>
<tr>
<td>KR20230101218</td>
<td>(CHEO-N) CHEONGHEUNG MUSHROOM FARMING ASSOC</td>
<td>Biodegradable liquid mulch composition useful for mushroom cultivation media, comprises starch, water-soluble polymer, additive including guar gum, gelatin and talc, and oil component including cinnamon oil, lemon oil and eucalyptus oil</td>
</tr>
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### Reciclado Mecánico

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<tr>
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<tbody>
<tr>
<td>EP4241971</td>
<td>(GENE) LM WIND POWER AS</td>
<td>Method for removing thermoset pultrusion element from spar cap for wind turbine blade, involves heating portion of thermoplastic material which surrounds thermo-set plate, and removing portion or all of heated portion of thermoplastic material and removing portion of thermoset pultrusion element</td>
</tr>
<tr>
<td>US2023294107</td>
<td>(ENCI-N) ENCINA DEV GROUP LLC</td>
<td>Inspection, sortation, and pyrolysis of waste plastic feeds, involves estimating mass or shape of plastic particles of plastic of bale using control system device using first, second, third, and fourth data sets</td>
</tr>
<tr>
<td>Nº DE PUBLICACIÓN</td>
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<tr>
<td>WO2023162495</td>
<td>(TORA) TORAY IND INC</td>
<td>Coating film peeling device for use in marine industry, has suction box that is arranged in each washing tank, and surrounds portion of conveyance path of film by opening gap through which film can pass is provided respectively</td>
</tr>
<tr>
<td>EP4223476</td>
<td>(STLI) STARLINGER &amp; CO GMBH</td>
<td>Device for recycling flakes from crushed and washed post-consumer plastic waste, for use in food packaging, has odor removal unit whose process gas inlet is connected to ozone source or ozone generating device, so that deodorizing unit is supplied with process gas enriched with ozone</td>
</tr>
<tr>
<td>WO2023144149</td>
<td>(GISL-N) GISLER MASCHBAU &amp; HYDRAULIK AG EMIL</td>
<td>Regeneration of asphalt and/or bitumen containing debris used as material in construction of road, involves feeding coarse grain composition in washer, classifying composition into slurry, feeding slit slurry into water extractor unit, removing water from slurry, and forming grain composition</td>
</tr>
<tr>
<td>US2023227729</td>
<td>(CBRI) LUMMUS TECHNOLOGY LLC</td>
<td>System for converting waste plastic material to petrochemicals, comprises feed inlet and distributor section, raked film reaction section located below feed inlet and distributor section, and stirred tank reaction section located below raked film reaction section</td>
</tr>
<tr>
<td>US2023219333</td>
<td>(CONT-N) CONTINUUS MATERIALS INTELLECTUAL PROPERT</td>
<td>Composite panel for producing cover boards, has first layer having thermoplastic binder and first blend of paper fragments and plastic fragments, and second layer having second blend of paper fragments and plastic fragments, where second blend are coated with thermosetting resin</td>
</tr>
<tr>
<td>WO2023131919</td>
<td>(GRUB-N) GRUB SRL</td>
<td>System for regenerating clothing manufacturing waste, has first apparatus that is provided with autoclave, and second apparatus that is provided with two-drum opener which is adapted to fray and pulp waste and condenser which is adapted to remove residues of plastic material from waste</td>
</tr>
<tr>
<td>WO2023105426</td>
<td>(MARZ-N) MARZOLI MACHINES TEXTILE SRL</td>
<td>Producing composite material in polymer matrix by dispersing fibrous material derived from textile wastes in aqueous emulsion of thermoplastic polymer, mixing emulsion inside which fibrous material is dispersed, and at least partially evaporating water contained in composite material</td>
</tr>
<tr>
<td>KR20230101077</td>
<td>(SKSK) SK INNOVATION CO LTD (SKGE-N) SK GEO CENTRIC CO LTD</td>
<td>Method for producing waste plastic pyrolysis oil with reduced chlorine, involves preparing feed containing 1 to 25 parts by weight of moisture based on 100 parts by weight of waste plastic and performing pyrolysis of the feed</td>
</tr>
<tr>
<td>GB2613874</td>
<td>(PLAS-N) PLASTIC ENERGY LTD</td>
<td>Production of rubber or thermoplastic polymer composition comprises providing end-of-life-plastic feedstock, pyrolyzing feedstock to produce pyrolysis char, and mixing pyrolysis char into rubber or thermoplastic polymer composition</td>
</tr>
<tr>
<td>Nº DE PUBLICACIÓN</td>
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<tr>
<td>WO2023147008</td>
<td>(DOWC) DOW GLOBAL TECHNOLOGIES LLC</td>
<td>Purificación de polímero recuperado involucra E.G. transferir polímero recuperado sólido a recipiente, disolviendo polímero recuperado sólido en recipiente de disolución de polímero con temperatura y presión preestablecida y transferir composición a recipiente de filtración con temperatura y presión preestablecida</td>
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**Reciclado Químico**

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<tr>
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<tbody>
<tr>
<td>WO2023152245</td>
<td>(UYUA) UNIV AARHUS (DATE-N) DANISH TECHNOLOGICAL INST</td>
<td>Desensamblaje de polímeros basados en epoxi (EBPs) o fibras reforzadas con EBPs consiste en contactar EBPs o fibras reforzadas con EBPs con mezcla de solvente de tolueno y catalizador de deshidrogenación organometálica de ruthenio y ligando orgánico tridentado</td>
</tr>
<tr>
<td>KR20230098426</td>
<td>(KOTE-N) KOREA TEXTILE MACHINERY CONVERGENCE RES</td>
<td>Dispositivo utilizado para producir fibras de carbono recicladas tiene cuerpo principal, entrada de gas, salida de gas, bobina de inducción penetrando un lado del cuerpo principal y el otro lado enfrentando el cuerpo principal, bobinas de inducción insertadas en el caso del cuerpo principal, núcleos magnéticos insertados entre bobinas de inducción, y dispositivo de aplicación de corriente</td>
</tr>
<tr>
<td>WO2023117882</td>
<td>(BADI) BASF SE</td>
<td>Descoloración de material polímero coloreado involucra contactar material polimérico coloreado con solvente que contiene gamma-valerolactona, obteniendo solvente, que es enriquecido en colorante comparado al solvente</td>
</tr>
<tr>
<td>JP2023126013</td>
<td>(UNCH) UNI-CHARM KK</td>
<td>Producción de fibras de papel recicladas se obtienen de mezcla de producto de higiene E.G., involucra suministro de agente oxidante y rayos ultravioleta, disgregando y disolviendo polímero superabsorbente, formando y recuperando fibras que consisten en fibras de papel obtenidas de productos sanitarios y polímero superabsorbente</td>
</tr>
<tr>
<td>WO2023153380</td>
<td>(BRID) BRIDGESTONE CORP (NIIT) NAT INST ADVANCED IND SCI &amp; TECHNOLOGY (TOHO) UNIV TOHOKU</td>
<td>Método para degradar caucho enlazado como cinta de cemento, involucra degradando caucho enlazado conteniendo caucho dieno con catalizador y descomponiendo producto de degradación en atmósfera de gas inerte en ausencia de catalizador</td>
</tr>
<tr>
<td>WO2023175524</td>
<td>(FORM-N) FORMULA CENT DI RICERCA &amp; SVILUPPO DEEP</td>
<td>Desarme de polietileno tereftalato depolymerización proceso obtenido por usar líquido iónico con choleucin, consiste en mezclar líquido iónico consistente de [2-hidroxietil]trimetilammonio arginato y metanol juntos a la temperatura especificada</td>
</tr>
<tr>
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<tr>
<td>WO2023170572</td>
<td>(COAL-N) COALCHRY GREEN SRL</td>
<td>Separación de materiales constituyendo composite multilayer of disposable packaging, involves contacting composite multilayer with treatment mixture comprising acidophilic bacteria belonging to families chosen from Lactobacillaceae, Pseudomonadaceae, Moraxellaceae, Rhizobiaceae and Acetobacteraceae</td>
</tr>
<tr>
<td>JP2023109381</td>
<td>(BRID) BRIDGESTONE CORP (NIOC) ENEOS CORP</td>
<td>Manufacturing chemical products and carbides by obtaining gas fraction, oil, and residue by pyrolyzing crushed waste tires, recovering carbide from residue, obtaining another gas fraction, light and heavy fractions by hydrocracking raw material oil, and steam cracking raw material oil</td>
</tr>
<tr>
<td>WO2023147250</td>
<td>(PURD) PURDUE RES FOUND (CARU-I) CARUTHERS J</td>
<td>Lignan separation and depolymerization apparatus used for recovering lignan from biomass, comprises E.G. modular portion, further comprising soaking tank, intake port operationally connected to soaking tank, high-pressure vapor explosion tank, and knockout tank</td>
</tr>
<tr>
<td>WO2023144170</td>
<td>(REPS-N) REPSOL SA</td>
<td>Polymeric polyl used for forming polyurethane foam, comprises dispersed phase formed by polymeric particles containing monomeric unit of E.G. styrene, which is polymerization product of polystyrene pyrolysis oil containing E.G. styrene monomer, and continuous phase comprising E.G. polyl</td>
</tr>
<tr>
<td>WO2023137311</td>
<td>(EACH) EASTMAN CHEM CO</td>
<td>Manufacture of recycled polyethylene terephthalate for forming molded article, involves reacting recycled ethylene glycol and/or recycled dimethyl terephthalate obtained from waste plastic to form recycled polyethylene terephthalate polymer melt, pelleting melt and crystallizing</td>
</tr>
<tr>
<td>NL2030566</td>
<td>(IONI-N) IONIQA TECHNOLOGIES BV</td>
<td>Obtaining a monomer by degrading a polymer, by providing polymer and solvent as reaction mixture, providing reusable catalyst, degrading polymer, and recovering catalyst from reaction mixture</td>
</tr>
<tr>
<td>WO2023111750</td>
<td>(MINN) 3M INNOVATIVE PROPERTIES CO</td>
<td>Process for recycling heat-treated solid article used for catalyst ink, comprises fluorinated polymer containing fluorinated polymer backbone chain, and involves heating heat-treated solid article in presence of solution at specific temperature and pressure</td>
</tr>
<tr>
<td>WO2023120597</td>
<td>(UNCH) UNI-CHARM KK</td>
<td>Producing recycled pulp fibers from mixture comprising pulp fibers and superabsorbent polymer by irradiating aqueous solution comprising mixture with UV rays, oxidatively degrading polymer, dissolving polymer in aqueous solution, and forming recycled pulp fibers, and recovering recycled pulp fiber</td>
</tr>
<tr>
<td>Nº DE PUBLICACIÓN</td>
<td>SOLICITANTE</td>
<td>CONTENIDO</td>
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<tr>
<td>WO2023117728</td>
<td>(SABI) SABIC GLOBAL TECHNOLOGIES BV</td>
<td>Making blended composition comprises processing waste plastic material derived from post-consumer and/or postindustrial waste, and melt-mixing recycled polypropylene composition with heterophasic propylene copolymer and inorganic filler</td>
</tr>
</tbody>
</table>
En el siguiente gráfico se muestra la distribución de las 8.717 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.

![Gráfico de distribución de procesos industriales]

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

<table>
<thead>
<tr>
<th>Nº DE PUBLICACIÓN</th>
<th>SOLICITANTE</th>
<th>CONTENIDO</th>
</tr>
</thead>
<tbody>
<tr>
<td>WO2023166732</td>
<td>(FUFA) FANUC CORP</td>
<td>Injection molding system for injecting molding material, has injection drive device that supplies driving force to driven element in injection process during molding cycle to eject molding material from injection port</td>
</tr>
<tr>
<td>WO2023157793</td>
<td>(MITU) MITSUBISHI CHEM CORP</td>
<td>Thermoplastic resin composition used for forming injection molded or extrusion molded article for E.G. vehicle component, comprises compound which is selected from macromonomer, copolymer containing structural unit, and 2-((2-hydroxycyclohexyl)methyl)cyclohexyl prop-2-enoate compound</td>
</tr>
<tr>
<td>Nº DE PUBLICACIÓN</td>
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<tr>
<td>WO2023174973</td>
<td>(WEEN-N) WEENER PLASTICS GROUP BV</td>
<td>Fully rupturable aerosol cap for aerosol container, has cap body whose circumferential wall includes rupture line extending from top end of cap body towards bottom end of cap body, where rupture line is partially offset from center plane</td>
</tr>
<tr>
<td>DE102022105432A1</td>
<td>(ARBH) ARBURG GMBH &amp; CO KG</td>
<td>Method for determining machine for processing plastics and plasticizable materials in plastics processing industry for manufacturing multiple components based on criteria, involves sending minimum requirement to machine unit when producing component based on partial agreements</td>
</tr>
<tr>
<td>WO2023170556</td>
<td>(COOL-N) COOLIT SYSTEMS INC</td>
<td>Molded fluid coupler for use in fluid connector, has distal rib distally spaced from proximal rib to define annular gap positioned between proximal rib and distal rib, where the piston extending distally of distal rib and defining external sealing surface lacking parting line</td>
</tr>
<tr>
<td>WO2023157368</td>
<td>(HITA) HITACHI LTD</td>
<td>System for obtaining compounding ratio of fluid modifier to-be-added to material E.G. recycled material, has processor that is provided for generating learning prediction model for predicting compounding ratio of fluid modifier for obtaining fluidity of material having same mold number</td>
</tr>
<tr>
<td>WO2023157680</td>
<td>(MITQ) MITSUBISHI ELECTRIC CORP</td>
<td>Resin mold for resin molding of product, has sliding core that is slidably attached to guide rail, and sensor which detects force applied to guide rail during sliding of sliding core and that detects force applied to guide rail in vertical direction</td>
</tr>
<tr>
<td>DE102022103918</td>
<td>(THAO) THOMAS MAGNETE GMBH</td>
<td>Method for producing electronic component, involves performing first encapsulation by injection molding, such that first casing encloses electronics unit and second casing does not touch electronics unit during second encapsulation by injection molding</td>
</tr>
<tr>
<td>DE102022103483</td>
<td>(ARBH) ARBURG GMBH &amp; CO KG</td>
<td>Method for determining wear of module of device for processing plastics, involves generating and storing analysis and action recommendation in data memory if accumulated wear parameter exceeds critical reference parameter</td>
</tr>
<tr>
<td>ES2943732</td>
<td>(COUT-N) COMERCIAL UTILES &amp; MOLDES SA</td>
<td>Connector for refrigeration circuits for use in plastic injection molds, has connection tube provided with coupling or connection at ends that is of variable length by cutting connection tube</td>
</tr>
<tr>
<td>EP4223482</td>
<td>(YUSH-N) YUSHIN PRECISION EQUIP CO LTD</td>
<td>System for manufacturing molded product, has communication device for transmitting molding machine temperature information to external server when control device receives information from machine while starting control operation</td>
</tr>
<tr>
<td>Nº DE PUBLICACIÓN</td>
<td>SOLICITANTE</td>
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<tr>
<td>WO2023140136</td>
<td>(MITQ) MITSUBISHI ELECTRIC CORP</td>
<td>Method for molding fiber-reinforced resin impeller such as propeller fans, involves measuring rise timing for each temperature waveform sampled by temperature sensor, and comparing and monitoring rising timing of each of temperature sensors</td>
</tr>
<tr>
<td>JP2023103007</td>
<td>(YOKO) YOKOHAMA RUBBER CO LTD</td>
<td>Method for manufacturing bent resin tube, involves setting bent inside portion of previously selected bent portion of cavity to low temperature state compared with bent outside portion, when assist material is injected into cavity</td>
</tr>
<tr>
<td>JP2023100470</td>
<td>(NIKL) JAPAN STEEL WORKS LTD</td>
<td>Injection molding machine system fuses primary molded articles to each other, to form molded article, when pair of primary molded articles are pressed together by pressing unit</td>
</tr>
<tr>
<td>WO2023130192</td>
<td>(FOST-N) FOSTAG FORMENBAU AG</td>
<td>Method for producing product E.G. container, involves injecting plastic melt into encircling cavity to produce encircled plastic body portion, and injecting another melt into another encircling cavity to form circumferential cavity</td>
</tr>
<tr>
<td>WO2023128509</td>
<td>(KIMH-I) KIM H J</td>
<td>Injection pressure open/close control type hot runner valve device for injection molding machine, has return springs whose upper and lower ends are engaged by chamber and valve piston to apply downward elastic force to valve piston</td>
</tr>
<tr>
<td>WO2023121583</td>
<td>(FRMA-N) FR MAKINA &amp; MUEHENDISLIK AS</td>
<td>Pet preform production system for use in production of bottles of beverages, has nozzle comprising slot at part that enters inner surface of cavity in shape of inner surface of pet preform to provide plastering of molten material to cavity</td>
</tr>
</tbody>
</table>

**Extrusión**

<table>
<thead>
<tr>
<th>Nº DE PUBLICACIÓN</th>
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<tbody>
<tr>
<td>WO2023174899</td>
<td>(NEST) SOC PROD NESTLE SA (EMPA-N) EMPA</td>
<td>Manufacture of biodegradable compound for packaging items, involves providing extruder comprising heater, rotating screw, and feeding units, feeding unit with polyhydroxyalcanoate polymer, maleic anhydride, cellulosic fibers being hardwood cellulose fibers having preset length and density</td>
</tr>
<tr>
<td>Nº DE PUBLICACIÓN</td>
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<tr>
<td>WO2023170662</td>
<td>(REFO-N) REFOAMED SP ZOO</td>
<td>Device for producing thermoplastic fiber mattress layer of mattress, has cooling tank that is provided with molding rollers and infeed rollers, and infeed-receiving belt which is configured for connecting cooling tank with post-heating furnace and behind which infeed-receiving unit is situated</td>
</tr>
<tr>
<td>EP4227064</td>
<td>(FEDD-N) FEDDEM GMBH &amp; CO KG</td>
<td>Extruder for processing powdered bulk material, has fuse layer which is located at predetermined safety distance from outer diameter of auger and filter element that is formed from interconnected layers of sintered metal wire screens and is removed from housing section with aid of support frame</td>
</tr>
<tr>
<td>JP2023117582</td>
<td>(NIKL) JAPAN STEEL WORKS LTD</td>
<td>Extrusion apparatus used for kneading and extruding resin raw material such as composite material used in injection molding machine, has flow passages that are respectively formed between screw and partitioning section, and cylinder and partitioning section</td>
</tr>
<tr>
<td>DE10202102820</td>
<td>(GNEU-N) GNEUSS GMBH</td>
<td>Filtering device for polyvinyl chloride (PVC) plastic melt of twin-screw extruder, has outlet channel that is formed partially in outlet melt pocket in outlet block and tapers in direction of flow from funnel section facing screen wheel rotatably mounted in housing</td>
</tr>
<tr>
<td>EP4223476</td>
<td>(STLI) STARLINGER &amp; CO GMBH</td>
<td>Device for recycling flakes from crushed and washed post-consumer plastic waste, for use in food packaging, has odor removal unit whose process gas inlet is connected to ozone source or ozone generating device, so that deodorizing unit is supplied with process gas enriched with ozone</td>
</tr>
<tr>
<td>ES2945335</td>
<td>(FOCK-N) FOcke MELER GLUING SOLUTIONS SA</td>
<td>Feed hopper for granulated product for adhesive melting equipment, has air outlet nozzles comprising bend to direct pulsation of air at angle with respect to perpendicular of wall of hopper</td>
</tr>
<tr>
<td>DE102022200817</td>
<td>(CONW) CONTINENTAL REIFEN DEUT GMBH (CONW) CONTINENTAL TIRES GERMANY GMBH</td>
<td>Device for controlling extrusion system with extrusion head for shaping extrudate, has control unit that is designed to control system with changed process parameters, in particular to produce second warm extrudates</td>
</tr>
<tr>
<td>DE102022104059</td>
<td>(BBMB-N) BBM MASCHBAU &amp; VERTRIEBS GMBH (BBM-M-N) BBM MECHANICAL ENG &amp; SALES GMBH</td>
<td>Coextrusion tool for producing multilayer, coextruded, tubular preforms from thermoplastic material, has distributor ring channel extended on either side of heart distributor element such that distributor ring channel slopes down to lower apex in relation to diameter plane</td>
</tr>
</tbody>
</table>
Nº DE PUBLICACIÓN | SOLICITANTE | CONTENIDO
--- | --- | ---
US2023203728 | (CECC-N) FRAT CECCATO MILANO SRL | Plant for making spunbond type polymeric filament, has extrusion head including main channel for allowing passage of polymeric fluid via extrusion head, distributor including distribution conduit in fluid passage connection with main channel, spinneret including holes, and distribution tank

DE102021133419 | (MAAG-N) MAAG GERMANY GMBH | Method for processing polyethylene terephthalate polymers into pellets, involves separating pellets from process water within second or less and post-treating downstream of dryer in two-stage post-treatment process and pellets are first treated in first post-treatment chamber for nucleus formation

Otros Procesos

Nº DE PUBLICACIÓN | SOLICITANTE | CONTENIDO
--- | --- | ---
EP4219125 | (GEIS-N) GEISS AG | Single-station thermoforming arrangement for producing molded portion from starting material, has UV irradiation unit that is arranged at front or rear or to side with respect to UV radiation exit area as viewed in travel direction

US2023241857 | (HOEF) HOEFLIGER VERPACKUNGSMASCH GMBH HARRO | Film transportation plate for transporting film web through processing stations of film packaging machine, has retainer including retaining magnet to attract clamping jaw against clamping surface and actuating extension for lifting jaw

EP4029990 | (PULP-N) PULPAC AB | Forming cellulose products in forming mold system from air-formed cellulose blank structure, comprises E.G. compressing portion of residual section to first degree of compression higher than that of product sections

US2023211542 | (MOND-N) MONDINI SPA G | Apparatus for making container for containing E.G. fresh and perishable food products E.G. meats, in food sector, has feeding device positioned at feeding station to insert sheet into housing of conveying element placed at another feeding station

JP2023097829 | (KYKO) KYORAKU CO LTD | Method for manufacturing panel, involves forming panel by adhering skin material to adhesive, and applying first adhesive to face material by roll coater
<table>
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<tr>
<th>Nº DE PUBLICACIÓN</th>
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<tbody>
<tr>
<td>EP4242907</td>
<td>(SEIT-N) SEITZ AG EUGEN</td>
<td>Solenoid valve such as main valve for blow molding device for blow molding processes used for forming hollow portions, has radio frequency identification tag for recognizing solenoid valve and antenna for unidirectional or bidirectional communication with radio frequency identification tag</td>
</tr>
<tr>
<td>DE102022103564</td>
<td>(SALZ) KHS GMBH (SALZ) KHS LTD</td>
<td>Device for producing containers from performs, has processing stations which comprise stretching rods, bypass unit that is designed as bypass wheel, and multiple handling devices which are arranged circumferentially distributed on bypass wheel</td>
</tr>
<tr>
<td>DE102022103317</td>
<td>(KROE) KRONES AG</td>
<td>Device for producing plastic container E.G. beverage container, has gripping devices which are arranged so as to be pivoted relative to carriers, such that gripping device with plastic container held by gripping device is pivoted through predetermined pivoting angle</td>
</tr>
<tr>
<td>WO2023137167</td>
<td>(KOSK-N) KOSKA FAMILY LTD</td>
<td>Rotary blow-fill-seal manufacturing system for fabricating E.G. vial, has controller that causes positioning system to move mold halves toward filling mandrel during portion of molding cycle</td>
</tr>
<tr>
<td>FR3132046</td>
<td>(MFTE-N) MFTECH</td>
<td>Filament winding machine for winding fibrous sheet comprises at least one continuous fiber on body, machine comprises winding means comprising winding head associated with fiber storage means and final guide member comprises movement system</td>
</tr>
<tr>
<td>CN116444929</td>
<td>(SNPC) CHINA PETROLEUM &amp; CHEM CORP (SNPC) SINOPEC BEIJING RES INST CHEM IND (UYQI) UNIV TSINGHUA</td>
<td>Biaxially stretched polypropylene dielectric film used in polypropylene capacitance film and electrical film, comprises modified polypropylene graft by alkenyl functional monomer comprising structural unit derived from polypropylene</td>
</tr>
<tr>
<td>WO2023120642</td>
<td>(KURS) KURARAY CO LTD</td>
<td>Multilayer film used for forming vapor-deposited multilayer film, comprises structure in which outermost layer comprising ethylene-vinyl alcohol copolymer modified with epoxy compound and alkali metal ions, layer comprising adhesive resin, and layer comprising polyethylene resin, are laminated</td>
</tr>
</tbody>
</table>
En el siguiente gráfico se muestra la distribución de las 545 familias de documentos de patente recuperadas en este trimestre en el apartado de Materiales con propiedades avanzadas o mejoradas. En este trimestre, el volumen de documentos de patente a cargas y pigmentos sobresale seguido por autorreparadores y nanocompuestos.

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

### Cargas y Pigmentos

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<tbody>
<tr>
<td>WO2023171352</td>
<td>(SHIE) SHINETSU CHEM CO LTD</td>
<td>Thermally-conductive addition-curable silicone composition used for forming cured product E.G. sheet, comprises organopolysiloxane, organohydrogenpolysiloxane containing silicon-bonded hydrogen atoms, thermally-conductive filler, complex of metal and 8-quinolinol, and platinum group metal catalyst</td>
</tr>
<tr>
<td>WO2023171353</td>
<td>(SHIE) SHINETSU CHEM CO LTD</td>
<td>Two-component thermally-conductive addition-curable silicone composition used for forming cured product, comprises liquids having organopolysiloxane having alkenyl group bonded to silicon atoms in one molecule, thermally-conductive filler, platinum group metal catalyst and organohydrogenpolysiloxane</td>
</tr>
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<td>Nº DE PUBLICACIÓN</td>
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<tr>
<td>WO2023153485</td>
<td>(ASAG) AGC INC</td>
<td>Composition used for forming polymer layer E.G. film on surface of metal substrate layer in manufacture of laminate, comprises tetrafluoroethylene-based polymer including carbonyl-containing group, and having preset melting temperature, and has transition metal content measured by ashing method</td>
</tr>
<tr>
<td>EP4227449</td>
<td>(SABI) SHPP GLOBAL TECHNOLOGIES BV</td>
<td>Fiber composition useful in textiles, comprises polymer base resin, and reinforcing filler</td>
</tr>
<tr>
<td>WO2023145612</td>
<td>(JAPG) ZEON CORP</td>
<td>Carbon nanotube dispersion used in slurry for negative electrode for non-aqueous secondary battery, preferably lithium-ion secondary batteries, comprises carbon nanotubes, water-soluble polymer having acid functional group, and water</td>
</tr>
<tr>
<td>JP2023114867</td>
<td>(ARIA) ARISAWA MFG CO LTD</td>
<td>Fluororesin composition used in fluororesin film, laminated film, and metal laminate, comprises fluororesin, liquid crystal polymer resin, polyimide resin, and inorganic filler</td>
</tr>
<tr>
<td>FR3131919</td>
<td>(COMP) SAINT GOBAIN WEBER FRANCE</td>
<td>Composition for liquid waterproofing system comprises aqueous dispersion comprising water, resin particles based on poly(vinyl acetal), plasticizer, emulsifier, fillers and pigments</td>
</tr>
<tr>
<td>WO2023140118</td>
<td>(POPL) POLYPLASTICS KK</td>
<td>Resin composition used as molded product on side of laser light transmission, comprises polyalkylene terephthalate resin, polycarbonate resin, carbodiimide compound, inorganic filler, and inorganic phosphorus compound</td>
</tr>
<tr>
<td>JP2023103974</td>
<td>(SUMO) SUMITOMO CHEM CO LTD</td>
<td>Resin composition used for forming film for display device and solid-state image pickup element, comprises resin comprising repeating unit having optionally substituted carbazole ring, inorganic particles and solvent</td>
</tr>
<tr>
<td>WO2023127675</td>
<td>(SHIE) SHINETSU CHEM CO LTD</td>
<td>Room temperature curing resin composition used as E.G. adhesive, comprises organic polymer having polymer main chain other than organopolysiloxane whose molecular chain end is blocked with hydrolyzable silyl group and/or a hydroxysilyl group, and hydrolyzable organosilane compound</td>
</tr>
<tr>
<td>WO2023127204</td>
<td>(SEKI) SEKISUI CHEM CO LTD</td>
<td>Polynvinyl acetal resin composition used in inorganic fine particle-dispersing vehicle composition and inorganic fine particle-dispersed slurry composition for laminated ceramic capacitor, comprises polynvinyl acetal resin and cationic surfactant</td>
</tr>
<tr>
<td>WO2023112857</td>
<td>(PPOL) PRIME POLYMER CO LTD</td>
<td>Polypropylene-based resin composition used for forming molded article, contains propylene-based polymer and propylene homopolymer having preset melt flow rate, random copolymer of ethylene and alpha-olefin having preset density, melt flow rate and melting point peak, and inorganic filler</td>
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<tbody>
<tr>
<td>WO2023112364</td>
<td>(BRID) BRIDGESTONE CORP</td>
<td>Rubber composition used in tread rubber, comprises rubber component comprising isoprene-based rubber having specific glass transition temperature, reinforcing filler and resin component which is partially hydrogenated, and has specific composition parameters</td>
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**Autorreparador**

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<thead>
<tr>
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<tbody>
<tr>
<td>CA3186439</td>
<td>(ILLT) ILLINOIS TOOL WORKS INC</td>
<td>Exterior component panel used for E.G. vehicle, comprises substrate having shape of panel, clear topcoat on substrate, and cured composition of polysilazane or polysiloxane with interspersed disulfide moieties derived from disulfide monomer</td>
</tr>
<tr>
<td>WO2023110823</td>
<td>(UMIC) UMICORE</td>
<td>Negative electrode for battery, comprises metal substrate and protective layer comprising copolymer obtained by reaction between monomers containing dione structural unit, fluoropolymer additive and lithium salt</td>
</tr>
<tr>
<td>WO2023164289</td>
<td>(UCWR) UNIV CASE WESTERN RESERVE</td>
<td>Construct used for biomedical application, comprises biocompatible and cytocompatible polymer-based shape-morphing hydrogel configured to undergo multiple, reversible, controllable and/or different shape transformations, and is cytocompatible and, upon degradation, produces non-toxic products</td>
</tr>
<tr>
<td>US2023257596</td>
<td>(FEYN-N) FEYNLAB INC</td>
<td>Protective film used as spray-applied protective film product for protecting painted automobile panel, has first layer disposed adjacent to painted surface, where first layer comprises flexible polymer, and outer layer disposed opposite painted surface, where outer layer comprises topcoat material</td>
</tr>
<tr>
<td>ES1301212</td>
<td>(RODR-I) MAZZEI RODRIGUEZ L R (ALIA-I) PAUL ALIAGA M</td>
<td>Dental prosthesis for cattle, has main portion that is obtained by three dimensional printer with three dimensional resins biocompatible liquids or by milling biocompatible resin castings which are sintered or milled in chrome-cobalt metal or titanium, from three dimensional image of animal teeth</td>
</tr>
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<tr>
<td>WO2023163241</td>
<td>(GRAP-N) GRAPHY INC</td>
<td>Photocurable composition used for transparent orthodontic device, comprises photocurable oligomer, reactive monomer, photoinitiator, and nanoclay which enhances mechanical properties of output printed by three-dimensional printing due to interaction of reactive monomers and electrical attraction</td>
</tr>
<tr>
<td>WO2023162899</td>
<td>(JAPG) ZEON CORP</td>
<td>Production composite resin particles used in antistatic composition, involves pulverizing composite resin material containing coiled carbon nanotubes and fluororesin by rotating rotor blades having preset ratio of blade moving distance with respect to coiled carbon nanotubes content</td>
</tr>
<tr>
<td>WO2023133539</td>
<td>(UCWR) UNIV CASE WESTERN RESERVE (UYHO-N) UNIV HOSPITALS CLEVELAND MEDICAL CENT</td>
<td>Making many E.G. lipid, and protein shelled nanobubbles used in ultrasound targeted drug delivery to treat E.G. tumor involves reversibly transferring E.G. lipid, and protein dispersion by microporous membrane between first and second depot</td>
</tr>
<tr>
<td>PL439342</td>
<td>(LODZ) POLITEHNICA LODZKA (UYLO-N) UNIV LODZKI</td>
<td>Composite material used to produce mechanical stress sensors comprises elastomeric substrate, conductive layer containing silver nanowires, and protective substance</td>
</tr>
<tr>
<td>WO2023135451</td>
<td>(UYJA-N) UNIV JANA EVANGELISTY PURKYNE PRIRODOVED</td>
<td>Testing micro-and nanocoatings on aluminum and iron materials for molding finished products, E.G. shoe sole, by placing semi-finished product containing rubber, plasticizers, vulcanizing agents, reinforcing materials, and chemicals</td>
</tr>
<tr>
<td>NRO DE PUBLICACIÓN</td>
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<tr>
<td>WO2023120644</td>
<td>(ASAG) AGC INC</td>
<td>Fluororesin composition used in E.G. wire coating materials, piping linings, and semiconductor manufacturing equipment members, comprises fluororesin and additive that imparts flame retardancy to fluororesin, where additive is carbon-containing inorganic substance</td>
</tr>
<tr>
<td>ES1300611</td>
<td>(VERG-I) VIZCAINO VERGES V J</td>
<td>Fireproof cover useful for electric scooters, comprises body made of fireproof material of such length that when it is placed around the base of electric scooter it wraps base and front and rear wheels</td>
</tr>
<tr>
<td>ES1300540</td>
<td>(LOBI-N) LOBITO IC SL</td>
<td>Fireproof bag with configuration that houses folded scooter inside used to transport scooters, comprises three layers i.e. aluminum fabric fire retardant, cushioning material, and fire-retardant and water-repellent fiberglass silicone</td>
</tr>
<tr>
<td>US2023204887</td>
<td>(STLG) STERLITE TECHNOLOGIES LTD</td>
<td>Strength member for use in for optical fiber cables, comprises polymer matrix reinforced with one or more yarns, where polymer matrix is blend of resin and inorganic filler</td>
</tr>
<tr>
<td>WO2023104224</td>
<td>(UTVL) UNIV LIBERCI TECHNICKA (UTVL) UNIV TECHNICKA V LIBERCI</td>
<td>Antimicrobial hydrophobizing liquid used to treat/protect surface of smooth non-absorbent materials comprises methyl silicone resin dissolved in xylene in proportion of silicone resin in solution having nanoparticles and/or microparticles</td>
</tr>
<tr>
<td>FR3131321</td>
<td>(AQOR) ARKEMA FRANCE</td>
<td>Polymer powder for manufacturing article by 3D printing through sintering, comprises semi-crystalline thermoplastic polymer, antioxidant, and metal oxide, metal hydroxide, and hydrotalcite derived from alkaline earth metals and poor metals</td>
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PUBLICACIÓN DEL INFORME ‘LA OEPM EN CIFRAS 2022’

Para poder saber hacia dónde vamos, es necesario saber de dónde venimos. Con este espíritu e inquietud, publicamos nuestro informe anual “La OEPM en cifras”.

En este informe se encuentran los datos y cifras sobre patentes, modelos de utilidad, marcas, nombres comerciales, diseños e Informes Tecnológicos de Patentes (ITP), relativos al año 2022, que hemos obtenido a través de las Bases de Datos de la OEPM, de la Oficina Europea de Patentes (OEP), la Organización Mundial de la Propiedad Intelectual (OMPI) y la Oficina de Propiedad Intelectual de la Unión Europea (EUIPO).

CONFERENCIA DE ALTO NIVEL DE PROPIEDAD INDUSTRIAL

En el marco de la Presidencia española del Consejo de la Unión Europea, la Oficina Española de Patentes y Marcas, O.A. (OEPM) organizó en Madrid una Conferencia de Alto Nivel sobre Propiedad Industrial (PI), los días 11 y 12 de septiembre.

El evento congregó a numerosos expertos de Oficinas Nacionales de Propiedad Industrial, representantes de la Organización Mundial de la Propiedad Intelectual (OMPI), la Oficina de Propiedad Intelectual de la Unión Europea (EUIPO), la Oficina Europea de Patentes (EPO) y otras organizaciones nacionales e internacionales relacionadas con la materia, con el fin de dialogar sobre las futuras Directivas de Patentes, Indicaciones Geográficas y Diseños.

En la tarde del 11 de septiembre la Directora de la OEPM recibió a los asistentes en el Museo del Traje, dependiente del Ministerio de Cultura y Deporte, dando un discurso de bienvenida.

La segunda jornada, en la Real Fábrica de Tapices, fue inaugurada por el Subsecretario de Industria, Comercio y Turismo. Tras la ceremonia de apertura, comenzó una mesa redonda sobre el valor de la PI
como activo intangible en Europa, con especial referencia a las patentes como motor de innovación. Fue moderada por la Directora de la OEPM, que destacó el rol de la PI como pieza clave en la “soberanía o autonomía tecnológica”.

Los participantes en la mesa, altos representantes de OMPI, EPO, y EUIPO, dialogaron sobre los retos de la monetización y acceso a financiación de los intangibles, y la función de la PI como soporte de la innovación y desarrollo tecnológico de los países.

El segundo panel, a propuesta de la Comisión Europea (CE), versó sobre uno de los expedientes actualmente en debate dentro del Grupo de Trabajo de PI del Consejo de la Unión Europea: la propuesta de Reglamento sobre Patentes Esenciales para las Normas (SEPs). Esta propuesta es una de las tres iniciativas del llamado “paquete de patentes”, lanzado por la CE en abril de 2023, cuya intención sería favorecer un marco jurídico común e impulsar la innovación, la inversión y la competitividad en el mercado único.

El debate se centró en la función de control por parte de las oficinas nacionales de PI, sobre la esencialidad para mejorar la transparencia y aumentar la confianza, así como el establecimiento de un Centro de Competencia para gestionar el proceso.

Finalizada la sesión matinal, el Ministro de Industria, Comercio y Turismo acudió a la Conferencia y destacó la relevancia de la Presidencia española para sembrar las bases de un nuevo espacio de desarrollo económico, donde la PI juega un papel fundamental para las empresas españolas y su internacionalización.

La siguiente mesa redonda, moderada por la Directora del Departamento de Signos Distintivos de la OEPM trató sobre la propuesta de Reglamento del Parlamento Europeo y del Consejo relativo a la protección de las indicaciones geográficas de los productos artesanales e industriales. Tiene como objeto complementar el sistema de protección de las indicaciones geográficas de la UE, que ya existía para los productos agrícolas y alimenticios, vinos y bebidas espirituosas, y permitir el cumplimiento efectivo de las obligaciones derivadas de la adhesión de la UE al Acta de Ginebra del Arreglo de Lisboa.

En la última mesa, moderada por la Directora del Departamento de Patentes e Información Tecnológica de la OEPM, se habló sobre la Directiva Comunitaria de Diseños y su Reglamento. Se analizó la situación actual de los diseños industriales, sus principales dificultades y las posibles herramientas de apoyo. Entre ellas el nuevo borrador del Reglamento sobre Ecodiseño, los programas de cooperación, y la participación de pymes y emprendedores en el sistema de registro y protección de los diseños mediante PI.

LA PRESIDENCIA DE ESPAÑA DEL CONSEJO DE LA UNIÓN EUROPEA Y LA PROPIEDAD INDUSTRIAL

La presidencia rotatoria de España del Consejo de la UE, se inició el 1 de julio de 2023 y cubrirá todo el segundo semestre de 2023. Este periodo ha coincidido con una actividad muy intensa en temas de Propiedad Industrial (PI). Actualmente están muy avanzados, ya que se habían iniciado mucho antes, dos expedientes legislativos de la Comisión Europea, uno relativo a las Indicaciones Geográficas de Productos Industriales y Artesanales y el otro relativo a los Diseños Comunitarios.

Lo que ha sido una novedad ha sido el lanzamiento del llamado «paquete de patentes», presentado por la Comisión Europea en abril de 2023. Son un conjunto de propuestas de nuevas normas armonizadas de patentes, cuya intención sería favorecer un marco jurídico común e impulsar la innovación, la inversión y la competitividad en el mercado único. El paquete se compone de tres iniciativas:

- Reglamento sobre patentes esenciales para estándares o normas (Standard Essential Patents– SEPs),
Revisión de la legislación sobre Certificados Complementarios de Protección de medicamentos y productos fitosanitarios (CCP)

Reglamento para la concesión de licencias obligatorias de patentes en situaciones de crisis (LLOO)

Este paquete de patentes ha coincidido plenamente con la Presidencia española del Consejo de la UE, lo que está implicando la presidencia y vicepresidencia de la delegación española del Grupo de Trabajo de propiedad intelectual, donde se debaten estos asuntos y algunos más, como por ejemplo la coordinación de la posición de la UE en los debates que se llevan a cabo en la Organización Mundial de la Propiedad Intelectual (OMPI).

El orden de prioridades durante nuestra presidencia, será el siguiente:

- Paquete de diseños.
- Indicaciones Geográficas de Productos Industriales y Artesanales. Objetivo aprobación definitiva durante la Presidencia.
- Patentes esenciales para las normas.
- Certificados Complementarios de Protección. De las modalidades propuestas, avanzar en los centralizados.

Leer noticia completa

ESPAÑA SE ENCUENTRA ENTRE LOS 30 PAÍSES CON MAYOR RENDIMIENTO DE INNOVACIÓN SEGÚN EL ÍNDICE MUNDIAL DE INNOVACIÓN 2023

El pasado 27 de septiembre de 2023 se presentó el Índice Mundial de Innovación 2023 (GII). Este informe analiza el rendimiento de la innovación de 132 economías y estudia las tendencias de la innovación a nivel mundial utilizando 80 indicadores. En esta edición, las conclusiones del informe se han enmarcado en un ámbito de incertidumbre provocado por los tipos de interés, los conflictos geopolíticos y la lenta recuperación económica tras la pandemia COVID-19.

El GII lo elabora la Organización Mundial de la Propiedad Intelectual (OMPI) en colaboración con el Instituto Portulans y sus socios corporativos. Se trata de una clasificación de las capacidades de innovación y los resultados de las economías mundiales.

Como novedad, esta edición del Índice de 2023 incluye un nuevo indicador relacionado con las empresas unicornio. Se considera empresas unicornio a aquellas empresas emergentes privadas valoradas en más de 1 000 millones de dólares estadounidenses.

El ranking de innovación lo lidera, un año más, Suiza, seguido de Suecia, país que en esta edición desbanca a Estados Unidos, que pasa a ocupar la tercera posición. Singapur entra dentro del top 5 al subir dos puestos respecto al año anterior posicionándose en quinto lugar del ranking.

En lo que se refiere a España, el GII 2023 la sitúa en el puesto 29, conservando la misma posición que el índice anterior, y con unos resultados acordes con su nivel de desarrollo y de ingresos. En relación a Europa, España se sitúa en el puesto 18 entre las 39 economías de Europa.

El índice analiza las inversiones en innovación, y concluye que, en el 2022, el valor de inversión de capital riesgo ha disminuido, tras niveles extraordinariamente altos en 2021, y el crecimiento de solicitudes internacionales de patentes según el PCT se ha detenido.
Respecto a los sectores industriales, las tecnologías de la información, la salud, la movilidad y la energía siguen logrando grandes avances tecnológicos, lo que crea nuevas oportunidades para el desarrollo internacional.

Conclusiones Generales del GII:

– Tras la pandemia COVID-19 las perspectivas mundiales sobre innovación están cambiando. Además, a esta circunstancia de recuperación, hay que añadir la situación de incertidumbre geopolítica. En consecuencia, algunos de los cambios en la clasificación del Índice del año 2023 muestran tendencias a corto plazo. Entre dichas tendencias, destaca el cambio entre los primeros 20 países más innovadores del 2023, donde los países nórdicos se sitúan en los puestos de mayor solidez.

– Se observa una continuidad en la tendencia del año anterior sobre el aumento de economías de renta media y baja que se pueden beneficiar de una mejora más sistemática y gradual de la configuración de su ecosistema de innovación.

Más información:

Índice Mundial de Innovación 2023 (inglés)
Resumen del Índice Mundial de Innovación (español)
Posición de España en el Índice Mundial de Innovación 2023 (inglés)