SECTOR METAL-MECÁNICO

VT 104 vigilancia tecnológica

4º trimestre 2025

NIPO: 220-24-024-3

Desde el primer trimestre de 2021, la Oficina Española de Patentes y Marcas (OEPM) viene colaborando con el Centro Tecnológico Industrial de Castilla-La Mancha (ITECAM) para la realización de los Boletines de Vigilancia Tecnológica en el sector metal-mecánico, en el marco del Convenio firmado entre ambas entidades en junio de 2020 con el objeto de facilitar, impulsar y estimular el conocimiento y la utilización de los derechos de Propiedad Industrial dentro de la asociación.

Itecam, Centro Tecnológico Industrial de Castilla-La Mancha, está constituido como asociación empresarial sin ánimo de lucro, con el objetivo de fomentar la innovación e impulsar la competitividad en las industrias del sector metalmecánico, si bien en los últimos años su actividad se ha orientado también a otras industrias manufactureras, tales como la industria agroalimentaria o las relacionadas con la construcción. Desarrolla una I+D+i aplicada, trabajando en la generación de nuevos productos y servicios, la mejora de los procesos, implantación de tecnologías, la transferencia del conocimiento y la transformación digital.

Según datos estadísticos del INE, en el año 2018 había en España 59.659 empresas en el sector del metal, dando trabajo a 836.139 personas y generando un negocio de 215.347 millones de euros, lo que supone casi la tercera parte del total del sector industrial.

La Oficina Española de Patentes y Marcas tiene entre sus objetivos la protección y fomento de la actividad de creación e innovación tecnológica en nuestro país, así como la transmisión de la información sobre propiedad industrial de que dispone para orientar la actividad investigadora, a través de sus servicios de información tecnológica, uno de ellos estos Boletines.

Este boletín, de forma similar a los demás Boletines que viene realizando la OEPM para distintos sectores tecnológicos, recoge con periodicidad trimestral, una selección de las solicitudes de patente publicadas en Estados Unidos, Japón, Corea, Alemania, España, Italia, Noruega, Turquía, Singapur, India, China (aquellas a nombre de: Huawei, Universidad de Tsinghua, Universidad de Shenzhen), así como solicitudes internacionales PCT y de la Oficina Europea de Patentes (EP). También, incluye noticias sobre actividades relevantes de la OEPM.

Las solicitudes de patente incluidas en el Boletín se clasifican en los siguientes apartados: Fundición, Mecanizado, Conformado por deformación, Fabricación aditiva, Pulvimetalurgia, Tecnologías de unión, Tratamientos superficiales. Se puede acceder a las solicitudes de patente para cada grupo, pulsando sobre los apartados que aparecen en el recuadro a continuación. Para cada documento de patente un enlace permite consultar el texto completo del mismo. Si se desea recibir este Boletín periódicamente basta con cumplimentar el correspondiente *formulario de suscripción*

Contenido

Fundición

Nº DE PUBLICACIÓN	SOLICITANTE	PAÍS DEL SOLICITANTE	TÍTULO
KR20250147074	KOREA INST IND TECH	KR	Non-heat treatable aluminum alloy for die casting
US2025326029	TOYOTA MOTOR CO LTD	JP	Die-casting machine
EP4640339	NEMAK SAB DE CV	MX	Low pressure casting method, low pressure casting machine and use of low pressure casting machine
EP4653110	IDRA S R L	IT	Ejection unit for die-casting moulds
US2025376744	GM GLOBAL TECH OPERATIONS LLC	US	Corrosion-resistant aluminum alloy
WO2025262651	COLOSIO S R L	IT	Apparatus and method for forging
WO2025217994	SUZHOU MINGZHI TECHNOLOGY CO	CN	Electromagnetic stirring low-pressure casting pouring system and equipment
WO2025236566	CHINA AUTOMOTIVE TECH & RES CT	CN	Die casting cavity for studying die casting material properties, and die casting material property research method
WO2025246233	KUNMING METALLURGICAL RES INSTITUTE CO LTD	CN	Skeleton type inert lead-based rare-earth anode plate and preparation method therefor
US2025381595	CITIC DICASTAL CO LTD	CN	Low-Pressure Mold and Production Process for Aluminum Alloy Integrated Brake Calipers
US2025312841	CITIC DICASTAL CO LTD	CN	Flexible adaptive high-precision mold
WO2025256208	CHERY AUTOMOBILE CO LTD	CN	Heat-treatment-free aluminum alloy material, and preparation method therefor and use thereof
WO2025219763	POLITECHNIKA WARSZAWSKA	PL	Drop forging method of magnesium wheel forgings from a preform cast into metal moulds and a magnesium wheel forging shaped in this way
WO2025219766	POLITECHNIKA WARSZAWSKA	PL	The method of producing on a hydraulic press the forging of the AZ31 magnesium alloy wheel for light vehicles and the forging of the wheel produced according to the method
WO2025219765	POLITECHNIKA WARSZAWSKA	PL	Method of plastic shaping on a hydraulic press of a AZ91 magnesium alloy wheel by forging, in particular from a forging preform cast into metal moulds, and a wheel shaped according to the method
WO2025204810	TAIYO NIPPON SANSO CORP	JP	Method for supplying cover gas and magnesium melting device
WO2025201738	WIELAND WERKE AG	DE	Cooling device and die-casting piston having a cooling device

Nº DE PUBLICACIÓN	SOLICITANTE	PAÍS DEL SOLICITANTE	TÍTULO
EP4628232	OSKAR KETTERER DRUCKGIESSEREI GMBH	DE	Melting pot for hot chamber die casting and method therefor
WO2025211440	SHIBAURA MACHINE CO LTD	JP	Molding system
KR20250152184	FINE M TEC CO LTD	KR	Inner plate die casting mold and end plate manufactured using the same
WO2025227143	MAGNA INT INC BEALS RANDY S ZELINA OWEN M NIU XIAOPING	CA	Ultrasonic spray system for high pressure die casting assembly
US2025332635	TOYOTA MOTOR CO LTD	JP	Casting apparatus
KR20250155957	PHARK JOUNG WOO	KR	Die-casting mold exhaust device equipped with a valve device that causes less damage to the vent passage
US2025345846	HAN QINGYOU	US	Casting process for making an erosion and wear resistant shot chamber for die casting applications
US2025367726	TOYOTA MOTOR CO LTD	JP	Die casting machine
US2025367724	GM GLOBAL TECH OPERATIONS LLC	US	Spreaders for die casting and methods of making the same
WO2025249688	KOREA INST IND TECH	KR	Insert pipe for casting

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Mecanizado

Nº DE PUBLICACIÓN	SOLICITANTE	PAÍS DEL SOLICITANTE	TÍTULO
WO2025261869	BYSTRONIC LASER AG	CH	Device for the automated loading and/or unloading of workpieces for a laser processing machine
EP4663333	UNITED MACHINING MILL SA	CH	Laser machining method and laser machine tool for machining a texture or a cavity on a workpiece
WO2025248389	ADIGE SPA	IT	Method for laser cutting of metal parts
US2025353085	UNIV KENTUCKY RES FOUND	US	High speed multi-axis machine tool
DE102024112504	(TRUM) TRUMPF WERKZEUGMASCHINEN SE CO KG	DE	Method for optimizing throughput of laser cutting system involves E.G. Cutting good parts, clearing good parts of cut sheet metal, introducing additional dividing cuts, and clearing good parts of next sheet metal panel in clearing station
WO2025219516	(BYST) BYSTRONIC LASER AG	CH	Protection device for laser cutting head of flatbed laser cutting machines used for cutting metallic plate, has detecting device for detecting whether one of electrodes has collided with object by measuring electrical property of electrode device
WO2025209835	(BYST) BYSTRONIC LASER AG	CH	Flatbed laser cutting machine for use in cutting sheet metal workpieces, has vibrometer equipped to emit vibrometer probing radiation onto workpiece, and to measure vibration of workpiece in contactless manner, and cutting machine equipped for laser cutting head to emit vibrometer probing radiation
US2025367775	IND TECH RES INST	TW	Five-axis spatial precision measurement fixture
EP4672347	SAMSUNG SDI CO LTD	KR	Electrode manufacturing apparatus
KR20250174188	HANS SONGWOO KOREA CO., LTD	KR	Double-sided grid for mounting a laser cutter
WO2025257019	POWERCO SE	DE	Method and device for cutting an electrode strip
US2025367766	SAMSUNG SDI CO LTD	KR	Method and device for dispersing conductive material using laser ablation in solution

Nº DE PUBLICACIÓN	SOLICITANTE	PAÍS DEL SOLICITANTE	TÍTULO
WO2025248513	(ISAE) ISRAEL AEROSPACE IND LTD	IL	Method for coating dielectric wafer with patterned metal layer for manufacturing microelectromechanical system (MEMS) element, involves performing laser ablation on metal layer on surface of wafer having areas with different heights
US2025353105	II VI DELAWARE INC	US	Beam shaping for cutting
WO2025233298	SAINT GOBAIN SEKURIT FRANCE	FR	Method and system for severing an internal shape from a flat glass sheet
US2025345880	MAGNA INT INC	CA	Method of tracking a blank edge for laser cutting
DE102024112131	(TRUM) TRUMPF LASER SE	DE	Performing laser processing of workpiece, involves moving partial beams along processing segments of processing path, where processing segments are arranged adjacent to each other and/or overlapping each other
DE102024111675	(TRUM) TRUMPF WERKZEUGMASCHINEN SE CO KG	DE	Laser cutting of component involves directing laser beam onto component surface at predetermined inclination in or against feed direction, where component is cut along cutting contour in feed direction by inclined laser beam
KR20250154888	YEO JEONG DONG	KR	Cleaning device for display panel laser cutting process
US2025333615	CANON KK	JP	Method for producing ink jet-recorded matters and apparatus for producing ink jet-recorded matters
JP2025164384	(NISS) NISSAN TANAKA CORP	JP	Laser cutting device for laser cutting workpiece, has control unit that calculates amount of positional deviation of optical axis of laser with respect to tip opening based on outline of laser and outline of tip opening
CN120828607	(SWAE) COMADUR SA	CH	Method for engraving and texturing item with enamel decoration, for example plique-a-jour enamel decoration, used for watch bezels, involves performing laser ablation process using femtosecond or picosecond laser on surface of enamel or within enamel to produce structure
EP4631665	(SEIS) SEI S P A	IT	Working support for laser cutting and/or marking operation on sheet material, comprises honeycomb structure with cells which is arranged spaced from vacuum chamber, and intermediate depression chamber which is defined between honeycomb structure and vacuum chamber

Nº DE PUBLICACIÓN	SOLICITANTE	PAÍS DEL SOLICITANTE	TÍTULO
EP4631709	(SEIS) SEI S P A	IT	Apparatus for creasing and cutting sheets of material for packaging or display, or carton structures, comprises creasing module provided downstream of optical station for carrying out creasing on sheet, where creasing module is provided with creasing controller receiving parameters
CN120772653	(PKUH, UYPK) PKU HKUST SHENZHEN HONGKONG INST UNIV PEKING SHENZHEN GRADUATE SCHOOL	CN	Double-gas cooperative auxiliary laser drilling and cutting processing device comprises flange plate detachably connected to a laser processing head and outer gas storage component for introducing compressed air
KR20250144656	KOREA ATOMIC ENERGY RES	KR	Underwater laser cutting monitoring device and underwater laser cutting monitoring method
US2025313726	(NOSO) NOSO LLC	US	Manufacturing adhesive patch involves providing fabric, laminating sheet of adhesive, cutting score on backing, score allowing backing to be cleanly pulled from sheet of adhesive, and cutting shape through fabric
DE102024108722	(TRUM) TRUMPF WERKZEUGMASCHINEN SE CO KG	DE	Production of acceptable components of different sizes, involves cutting several small acceptable components adjacent to one another in at least one plate area, with shape and size selected from point of view of optimal plate utilization for cutting all components
US2025360579	MANAFLEX LLC	US	System for and method of manufacturing a workpiece using multiple types of lasers and power levels
WO2025200441	(EVNE) EVE POWER CO LTD	CN	Pole piece cutting device for use in battery pole piece thermal compounding device, has conveying belt comprising upper surface and lower surface, and first and second upper driving rollers close to laser cutter
CN118768758	(BEIJ) BEIJING ZHONGKANG ADDITIVE TECH CO LTD	CN	Method for non-splashing laser cold cutting comprises E.G. Determining parameter directly affected by non-splashing cold cutting effect, screening cutting parameter group data interval range, performing laser cutting process test and obtaining optimized non-splashing technical parameter group data
WO2025236791	SHENZHEN DEMAN ELECTRONICS CO LTD	CN	Transparent thin-film antenna, and manufacturing method therefor

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Conformado por Deformación

Nº DE PUBLICACIÓN	SOLICITANTE	PAÍS DEL SOLICITANTE	TÍTULO
EP4670865	(MGIN) MAGNA INT INC	CA	Forming device for hot stamping steel component E.G. Steel door panel, for vehicle, has upper fill slide and lower fill slide for forming component, where lower fill slide is retracted from upper fill slide after forming component such that component is removed from forming device with backdraft
KR20250165504	LEE WON SEOK		Manufacturing method of oilless spherical plane bearing using deep drawing
WO2025211180	(YAWA) NIPPON STEEL CORP	JP	Method for manufacturing structural component E.G. Rear module of vehicle I.E. Automobile, involves performing process of injecting fluid into gap from protrusions, and using fluid to expand material in hollow space formed by molding surface and second mold among molds, in molding process
WO2025246276	JIANGXI HOTSTAMPING TECH AUTOMOTIVE PARTS TECH CO LTD ANHUI HOTSTAMPING TECH AUTOMOTIVE PARTS TECH CO LTD ZHEJIANG HOTSTAMPING TECH AUTOMOTIVE PARTS TECH CO LTD	CN CN CN	Soaking-type stamping method and apparatus for hot-formed steel
KR20250176800	HWASHIN CO. LTD	KR	Leveler equipped with coil center alignment sensor
KR20250173067	(HYSL)	KR	Hot stamping component, comprises E.G. Base steel plate, and plating layer disposed on base steel plate and including interdiffusion layer, where interdiffusion layer includes first interdiffusion layer having first hardness
US2025369654	NEXTRACKER LLC	US	Hydroformed cylindrical piles
DE102024001617	FACHHOCHSCHULE SUEDWESTFALEN KOERPERSCHAFT DES OEFFENTLICHEN RECHTS	DE	Method for producing a connection between joining partners, in particular sheets, made of preferably different materials and corresponding connection
US2025353064	SKF AB	US	Health assessment method for stamping machine and stamping machine
KR20250160753	DONGSHINMOTECH CO LTD	KR	Hot stamping front filler
DE102024113292	AUDI AG	DE	Method for electrically conductive connection of two terminals of two battery cells via a cell connector and battery cell arrangement

Nº DE PUBLICACIÓN	SOLICITANTE	PAÍS DEL SOLICITANTE	TÍTULO
KR20250155864	SEAH FSI CO LTD	KR	Pipe expansion system using air pressure and a method therefor
DE102024112164	(MUHR) MUHR & BENDER KG	DE	Method for manufacturing heat exchanger for transferring thermal energy from first fluid stream to second fluid stream, involves forming channel between overlapping plates outside coupling surfaces by forming internal high-pressure
US2025332627	(ADDM) ADDMAN INTERMEDIATE HOLDINGS LLC	US	Method for elongating hollow object, involves additive manufacturing a hollow object from high temperature refractory alloy, and depositing excess alloy material on exterior of object to create preform with opening
KR20250154866	POLYTECH CO LTD	KR	A scrap chip removal method of progressive stamping process
WO2025222110	(HUBB) HUBBELL INC	US	Roller swage attachment for being secured to roller swage apparatus for swaging portion of cylinder of material to form lug body, has swage rollers extending from spindle facing surface of swage body and rotated relative to swage body
CN120834293	(SMSU) SAMSUNG SDI CO LTD	KR	Apparatus for manufacturing secondary battery, comprises tab pusher that is configured to apply force to tab in second direction different from first direction such that tab is provided with shape in which one side of bent tab and other side of bent tab are formed parallel
CN120815876	(HYMR, KIAK) HYUNDAI MOTOR CO LTD KIA CORP	KR KR	Method for expanding tube of prismatic tubular material during E.G. Bursting process, involves performing hydroforming by injecting pressure medium into hollow of tubular material at predetermined pressure or higher
DE202024101811	(SAET) SAETA GMBH & CO KG	DE	Device for deep-drawing cup-shaped workpieces E.G. Aluminum or tinplate, in set of deep drawing processes to form cans E.G. Canned goods, has ejection device designed to lift workpieces upwards from drawing core after completion of deep-drawing operation
WO2025213624	(NDCT) CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	CN	Liquid cooling plate manufacturing device, has heat exchange plate provided with contact side for being adhered with liquid cooling plate and open side away from contact side, and welding head for welding side of plate away from structure

Nº DE PUBLICACIÓN	SOLICITANTE	PAÍS DEL SOLICITANTE	TÍTULO
CN222113352	(YONG) YONGKANG CHUANGKE MACHINERY CO LTD	CN	Spinning machine for processing cooker thick edge, has transition ring surface provided between first and second extruding convex positions, where outer diameter of first convex position is greater than second position

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Fabricación Aditiva

Nº DE PUBLICACIÓN	SOLICITANTE	PAÍS DEL SOLICITANTE	TÍTULO
WO2025260084	UNIV TEXAS	US	Method of controlling surface quality of additive manufactured structures
KR20250164366	KP AERO IND CO LTD	KR	Lw-ded laser wire direct energy deposition process modeling system
EP4635447	TRUMPF ADDITIVE MFG ITALIA S R L	IT	Method and apparatus for producing a mesostructural element and method for dental restoration in an oral cavity
WO2025260082	UNIV TEXAS	US	Additive manufacture of metal coil or strip for cold rolling
KR20250171005	CHUNGBUK NATIONAL UNIVERSITY INDUSTRY-ACADEMIC COOPERATION FOUNDATION	KR	3D Heat sink manufacturing system using wire-arc additive manufacturing process
KR20250169800	DONG-A UNIVERSITY INDUSTRY-ACADEMIC COOPERATION FOUNDATION	KR	Method of controlling microstructure of nickel-based superalloy direct energy deposition structure
WO2025221331	UNIV PITTSBURGH COMMONWEALTH SYS HIGHER EDUCATION	US	Hybrid manufacturing system
WO2025222015	UNIV MICHIGAN REGENTS	US	An intelligent scan sequence optimization technique based on thermomechanical models and objectives
WO2025216690	UDDEHOLMS AB	SE	A hot forming tool and a method of forming said tool
KR20250145226	KOREA INST MACH & MATERIALS	KR	Focus control system for printing head of direct energy deposition and focus control method using the same

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Pulvimetalurgia

Nº DE PUBLICACIÓN	SOLICITANTE	PAÍS DEL SOLICITANTE	TÍTULO
KR20250132735	DAEGU NEW MAT CO LTD	KR	Method for forming cemented carbide for sand crusher rotor injection cone blades and cemented carbide formed using this composition method
WO2025149135	MTU AERO ENGINES AG	DE	Method for producing a capsule for hot isostatic pressing
WO2025179138	MATERION CORP	US	Method for densifying articles
WO2025160539	GEOROC INT INC CHUNG SIMON STEWART MARTIN MORICCA SALVATORE	US AU AU AU	Bulk powder prediction for increased efficacy of canister filling in a hot isostatic press system
WO2025158433	TECHNION RES & DEV FOUNDATION	IL	Method for reducing porosity of solid metallic materials or repairing microcracks in said material using hot isostatic pressing
US2025229328	MIBA SINTER AUSTRIA GMBH	AT	Method for producing a cooling device
US2025290176	UNIV HENAN SCIENCE & TECH	CN	Process for preparing molybdenum alloy by ultra-high-temperature rolling
WO2025189542	UNIV HENAN SCIENCE & TECH	CN	Preparation process of high-density tungsten-copper alloy

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Tecnologías de Unión

Nº DE PUBLICACIÓN	SOLICITANTE	PAÍS DEL SOLICITANTE	TÍTULO
EP4667139	PLANSEE SE	AT	Tool for friction stir welding
KR20250174264	HYUNDAI MOTOR CO., LTD.; KIA CORPORATION	KR	Friction stir welding apparatus with anti-deformation jig
WO2025242506	TRUMPF LASER & SYSTEMTECHNIK SE	DE	Welding mask for a laser welding device for creating a welded join, laser welding device for creating a welded join, and method for creating a welded join
US2025345878	GM GLOBAL TECH OPERATIONS LLC	US	Resistance spot welding with laser welding for dissimilar metal spot-weld joints
WO2025225773	KEPCO NUCLEAR FUEL CO LTD	KR	Laser welding apparatus for support grid
WO2025219453	AUTOTECH ENG SL	ES	Method for laser welding
US2025375839	AIBIZ CO LTD	KR	Method, apparatus, and program for anomaly detection based on ultrasonic welding data
WO2025213699	HWI NICHST WELDING & ENG INNOVATION CENTER QINGDAO CO LTD	CN	Hybrid laser arc welding system and method suitable for complex welding structure
US2025387854	ILLINOIS TOOL WORKS INC	US	Systems and methods for laser beam size control of a laser welder
WO2025252615	HERRMANN ULTRASCHALLTECHNIK GMBH & CO KG	DE	Ultrasonic welding device with a side slide
WO2025252303	SCHUNK SONOSYSTEMS GMBH	DE	Method for electrically connecting a metal element to a multi-layer composite printed circuit board by means of ultrasonic welding
KR20250173991	JIANGSU UNIVERSITY OF SCIENCE AND TECHNOLOGY	KR	Friction stir welding stirring head and method of manufacture
WO2025249020	JFE STEEL CORP	JP	Tig welding method
WO2025246697	WUXI LEAD INTELLIGENT EQUIPMENT CO LTD	CN	Welding system, laser welding method, electronic device, and storage medium
US2025372688	SAMSUNG SDI CO LTD	KR	Laser welding apparatus for seconary battery
WO2025247666	HYDAC TECHNOLOGY GMBH	DE	Method
US2025374490	AMULAIRE THERMAL TECH INC	TW	Automotive liquid-cooling cooler structure
DE102024114837	CUNOVA GMBH	DE	Method for producing a heat sink
US2025353097	ILLINOIS TOOL WORKS	US	Tig torch tracking attachments for welding technique monitoring systems
US2025345886	GROB GMBH & CO KG	DE	Splash-guard device and laser welding apparatus equipped therewith

Nº DE PUBLICACIÓN	SOLICITANTE	PAÍS DEL SOLICITANTE	TÍTULO
US2025345881	PRIME PLANET ENERGY & SOLUTIONS INC	JP	Jig for laser welding and method of manufacturing battery
KR20250159823	LG ENERGY SOLUTION LTD	KR	Ultrasonic welder inspection device and method of inspecting ultrasonic welder using the same
WO2025228471	GRENZEBACH MASCHB GMBH	DE	Device and method for improving quality and reducing costs during friction stir welding of drawn, pressed and cast parts with production-related corner radii or demolding chamfers
WO2025225821	LG ENERGY SOLUTION LTD	KR	Head structure for ultrasonic welding
WO2025219812	GD SPA	IT	Operating unit for the laser welding of components in an article manufacturing machine
WO2025216258	ADWELDS CORP	JP	Ultrasonic welding device
WO2025211735	DN SOLUTIONS CO LTD	KR	Machine tools for friction stir welding
WO2025209942	UNIV AIX MARSEILLE CENTRE NAT RECH SCIENT	FR FR	Laser welding method
WO2025208778	CONTEMPORARY AMPEREX TECHNOLOGY CO LTD	CN	Welding horn, ultrasonic welding device, battery cell, battery, and electric device
WO2025212034	NAIEN WU	SG	Robot assisted auto laser welding machine
WO2025209834	TRUMPF LASER & SYSTEMTECHNIK SE	DE	Method and device for laser welding
WO2025207017	NAIEN WU	SG	An apparatus for laser welding two free running tubes and method of using the same
WO2025236804	SHANGHAI HIGHLY ELECTRICAL APPLIANCES CO LTD	CN	Laser welding method and compressor
WO2025239476	KEPCO NUCLEAR FUEL CO LTD	KR	Ai-based automatic correction system for laser welding positions on spacer grid
US2025375838	AIBIZ CO LTD	KR	Method, apparatus, and program for anomaly detection based on laser welding data
WO2025236421	FOMED IND INC	CN	Ultrasonic welding jig structure for nonwoven fabric
WO2025232201	SHOUGANG GROUP CO LTD	CN	Laser welding wire for press hardening steel having aluminum-containing coating and welding method using same
WO2025261181	SHANGHAI INST OPTICS & FINE MECH CAS	CN	Solder, and laser welded joint and manufacturing method therefor
WO2025261182	SHANGHAI INST OPTICS & FINE MECH CAS	CN	Solder, and laser welded joint and manufacturing method therefor
WO2025218710	HARBIN WELDING INST CO LTD	CN	10-KW class deep penetration laser welding method and auxiliary material, and auxiliary material preparation method
WO2025227613	UNIV SOUTH CHINA TECH	CN	Local dry underwater laser welding multi-shielding gas filler wire drainage device

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Tratamientos Superficiales

Nº DE PUBLICACIÓN	SOLICITANTE	PAÍS DEL SOLICITANTE	TÍTULO
EP4667613	THYSSENKRUPP STEEL EUROPE AG	DE	Method for hot-dip coating a flat steel product and hot-dip coating installation
US2025368567	OWENS BROCKWAY GLASS CONTAINER	US	Metallizing system and method for metallizing a workpiece
WO2025246606	ADVANCED MICRO FABRICATION EQUIPMENT INC CHINA	CN	Magnetron sputtering device and vacuum cavity
US2025347003	SOUTHWEST RES INST	US	Duplex nanocomposite coating formed in a single physical vapor deposition device
WO2025227171	BOEHLERIT GMBH & CO.KG.	AT	Coated cutting insert with a coating layer comprising aluminium oxide and titanium carbonitride
WO2025202285	FUNDACION TECNALIA RES & INNOVATION	ES	Method of preparation of solid multi-layer lubricant coatings
EP4624622	WALTER AG	DE	Cutting tool with tialn-layer
EP4624621	TATA STEEL IJMUIDEN BV	NL	A hot dip coating device with stabilizing means and a method of coating using a hot dip coating device
US2025389006	GM GLOBAL TECH OPERATIONS LLC	US	Thickness control manifold for molten lithium dip coating
US2025382692	SEOUL NAT UNIV R&DB FOUNDATION	KR	Ultra-thin lithium foil manufacturing apparatus using molten metal droplet spraying
US2025369094	AESCULAP AG IHI IONBOND AG	DE CH	Process for coating an implant and an implant having a ceramic multi-layer coating
WO2025244640	APPLIED MATERIALS INC	US	Magnetron sputter cathode, method of operating a magnetron sputter cathode, sputter deposition source, deposition apparatus, and method of operating a sputter deposition source
US2025361189	RTX CORP	US	Method and device for plasma spraying of powders
US2025353865	EREZTECH LLC	US	Amine adducts of group 2 metallocene precursors for depositon of group 2 metal films
WO2025240611	PERSIMMON TECH CORPORATION	US	Three-dimensional-flux electric motor and method for making thereof

Nº DE PUBLICACIÓN	SOLICITANTE	PAÍS DEL SOLICITANTE	TÍTULO
WO2025235773	UNIV HOUSTON SYSTEM	US	Methods and systems for enhancing superconductor manufacturing
US2025346993	WISCONSIN ALUMNI RES FOUND	US	Metal-organic chemical vapor deposition of semi-insulating iron-doped group iii-nitride films
WO2025228867	AIXTRON SE	DE	CVD reactor and method of use thereof and device
DE102024112534	AIXTRON SE	DE	Method and apparatus for cleaning a CVD reactor
US2025341418	UCHICAGO ARGONNE LLC UNIV OF ILLINOIS AT URBANA CHAMPAIGN	US US	Creation of Optically Stable Quantum Emitters
KR20250157742	KV MAT CO LTD TOP WIN TECH CO LTD	KR KR	Coating Material for Thermal Spray and Manufacturing Method of Plasma Resistant Coating Layer
WO2025226001	TES CO LTD	KR	Chemical vapor deposition apparatus
US2025334505	SK INNOVATION CO LTD	KR	Method for evaluating corrosion resistance of thermal spray coating
US2025333838	TOKYO ELECTRON LTD	JP	Film forming method and film forming apparatus
WO2025217658	BOEHLERIT GMBH & CO KG	AT	Coated cutting insert
WO2025219479	MERCK PATENT GMBH	DE	Metal compounds for ald applications
WO2025215091	FRAUNHOFER GES FORSCHUNG	DE	Method for performing pulsed electric arc discharges under vacuum conditions
WO2025214528	VUT V BRNE	CZ	Effusion device for localised deposition for use in a vacuum chamber
WO2025216597	KOREA RES INST CHEMICAL TECH	KR	Organotin compound, method for preparing same, and method for forming thin film using same
KR20250147638	TES CO LTD	KR	Chemical vapor deposition apparatus
US2025313954	VEECO INSTR INC	US	Gas injectors for mocvd/cvd systems
WO2025211722	TES CO LTD	KR	Chemical vapor deposition apparatus
US2025313991	LPE S PA	IT	Method and system for obtaining high-quality cubic silicon carbide
US2025314007	SEFAR AG	CH	Method of producing a fabric having hydro- and oleophobic characteristics
US2025313931	RTX CORP	US	Encapsulated particles for maintaining particle chemistry during plasma spray applications
US2025313479	RTX CORP	US	Production of silicon carbide particles
WO2025209629	SAXONQ GMBH	DE	Method for producing one or more NV centres in diamond
US2025304500	RTX CORP	US	Turbine engine abradable systems
US2025305138	APPLIED MATERIALS INC NAT UNIV SINGAPORE	US SG	Cyclic alkyl amino carbene (CAAC) deposition by transmetallation

Nº DE PUBLICACIÓN	SOLICITANTE	PAÍS DEL SOLICITANTE	TÍTULO
US2025308910	KOKUSAI ELECTRIC CORP	JP	Substrate processing method, method of manufacturing semiconductor device, substrate processing apparatus and non-transitory computer-readable recording medium
EP4653575	GUANGDONG HUASHENG NANO TECH CO LTD	CN	Method for preparing coating by cathode integrated high power impulse magnetron sputtering (hipims), device, and aluminum titanium nitride (ALTIN) coating
WO2025227656	XIAN THERMAL POWER RES INST CO	CN	Spraying fixture for combustion liner of combustion chamber of gas turbine
US2025305114	ARRAYED MAT CHINA CO LTD	CN	Magnetron Sputtering Apparatus and Control Method for Timely Detecting Target Shorting by Monitoring Electrical Resistance Between PVD Target Cathode and Electrical Ground in Real Time
WO2025209352	Q CARBON MAT CO LTD	CN	High-entropy alloy powder, coating layer for brake disc and method for preparing coating layer

VOLVER A CONTENIDO

NOTICIAS

NUEVO ESTATUTO DE LA OEPM

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

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

Más información:

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

ESPAÑA LIDERA EL CRECIMIENTO DE LA INNOVACIÓN PÚBLICA EN TODA EUROPA

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

España es el país que lidera el crecimiento de patentes solicitadas por entidades del sector público en toda Europa, con un espectacular incremento del 365% en las últimas dos décadas. Nuestro país pasó de 57 solicitudes en el año 2001 a un total de 265 en 2020. Estos datos sitúan a España como el quinto país europeo con mayor número de patentes solicitadas por Organismos Públicos de Investigación, con un total de 2994 solicitudes en ese intervalo de tiempo. Tan solo Francia, Alemania, Países Bajos y Bélgica ofrecen una cifra superior.

Más información:

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

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

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

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

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

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

Rama Informática: 4 plazas

Rama Jurídica: 4 plazas

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

Más información:

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

Búsqueda de convocatorias

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

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

Durante la estancia los examinadores debatieron casos comunes de patentes en cinco campos técnicos: máquinas dinamoeléctricas y control, ingeniería de calefacción, refrigeración y aire acondicionado, dispositivos médicos, ingeniería genética e ingeniería celular. Además, los participantes intercambiaron información sobre métodos de búsqueda de antecedentes y la aplicación de directrices de examen. También se debatieron iniciativas orientadas al usuario y aplicaciones que utilizan la inteligencia artificial.

Más información:

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

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

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

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

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

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

https://www.oepm.es/es/indicaciones-geográficas/