

VT

PATENTES

IMPRESIÓN 3D

24



OBJETIVOS
DE DESARROLLO
SOSTENIBLE



Vigilancia
Tecnológica
4º trimestre 2025

NIPO: 220-24-018-3 220-24-018-3

En este Boletín de Vigilancia Tecnológica se recogen, de manera trimestral, los avances acontecidos en el campo de la tecnología de Impresión 3D que se materializa en forma de solicitudes de patente en todo el mundo.

Aunque en los años 80 comenzaron a desarrollarse los primeros equipos y materiales sobre la tecnología de impresión 3D también denominada fabricación aditiva, no fue hasta 1986 cuando aparece en el mercado la primera impresora 3D comercial, patentada por Charles W. Hull, premiado por la Oficina Europea de Patentes

como inventor del año en 2014 en la categoría de inventores no europeos.

Cuando trataba de buscar un sistema para mejorar el proceso de realización de prototipos de pequeñas piezas de plástico que utilizaba para probar nuevos diseños de productos, desarrolló una máquina de impresión 3D que conseguía realizar en pocos minutos procesos que por aquel entonces llevaban semanas.

Contenido



PROCESOS



MATERIALES



DISPOSITIVOS



PRODUCTOS



PROCESAMIENTO
DE DATOS



Desde entonces, la tecnología no ha parado de evolucionar, especialmente en los últimos años, alcanzándose a partir de 2017 un verdadero auge, cuando se incorpora la automatización utilizando software de inteligencia artificial que permite industrializar la fabricación aditiva y multiplicar la capacidad de los sistemas.

En los últimos años de evolución de la impresión 3D hemos visto pasar del desarrollo conjunto de nuevas tecnologías y materiales innovadores aplicados principalmente a la creación de prototipos y diseños personalizados, a la consecución de productos casi impensables hace tan solo una década. Gracias a esta increíble tecnología hemos visto imprimir, órganos, coches e incluso edificios.

Desde la Oficina Española de Patentes y Marcas, y en cumplimiento de su doble objetivo de proteger y fomentar la innovación tecnológica en nuestro país, así como de divulgar la información técnica que contienen las patentes a través de sus servicios de Información Tecnológica, se realiza este nuevo Boletín de Vigilancia Tecnológica, que se suma a los dieciséis *Boletines VT* que venimos publicando desde el año 2000 con periodicidad

trimestral. Nuestro objetivo es dar a conocer las nuevas solicitudes de patentes que se publican a nivel mundial relacionadas con la tecnología de impresión 3D.

En este Boletín, se incluye una selección de las solicitudes de patentes publicadas a nivel mundial durante el cuarto trimestre de 2025, distribuidas en cinco apartados: procesos, materiales, dispositivos, productos y procesamiento de datos.

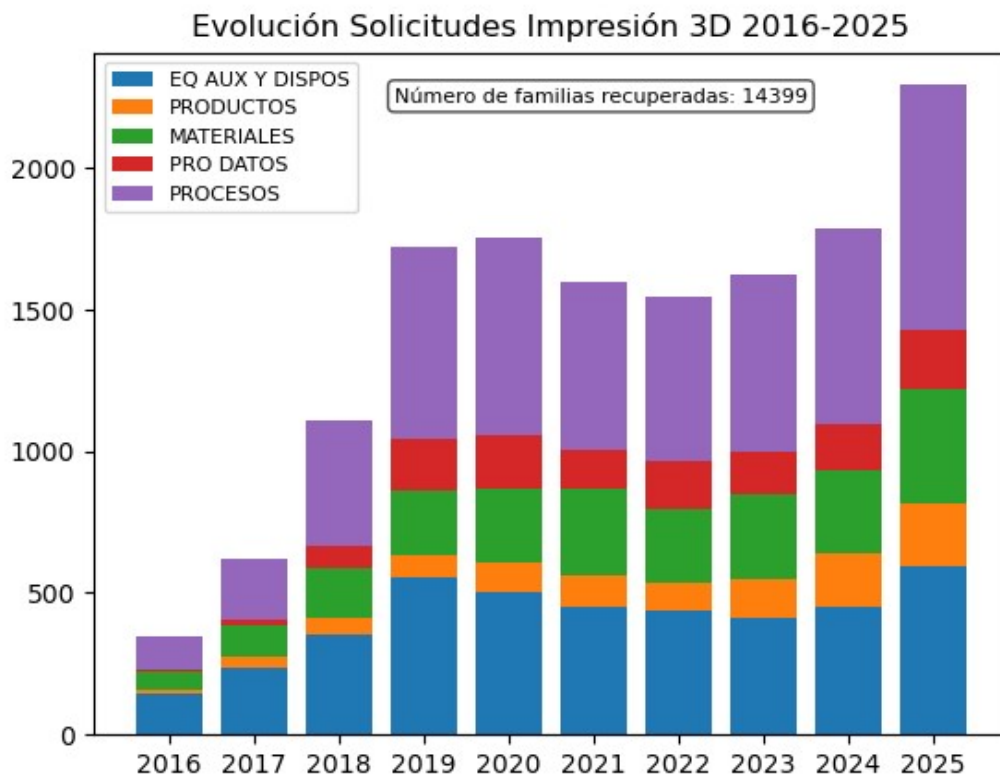
Para cada patente se incluye su número de publicación, con un enlace que permite la consulta del documento completo, el solicitante, el país de origen y su título.

Esperamos que la información aportada en este Boletín de Vigilancia Tecnológica, sirva para identificar tendencias tecnológicas y sus actores, así como para contribuir a la utilización del conocimiento contenido en los documentos de patente como punto de partida para emprender nuevas actividades de investigación y desarrollo. Para suscribirse a este Boletín basta con cumplimentar este *formulario de suscripción*.

ANÁLISIS ESTADÍSTICO

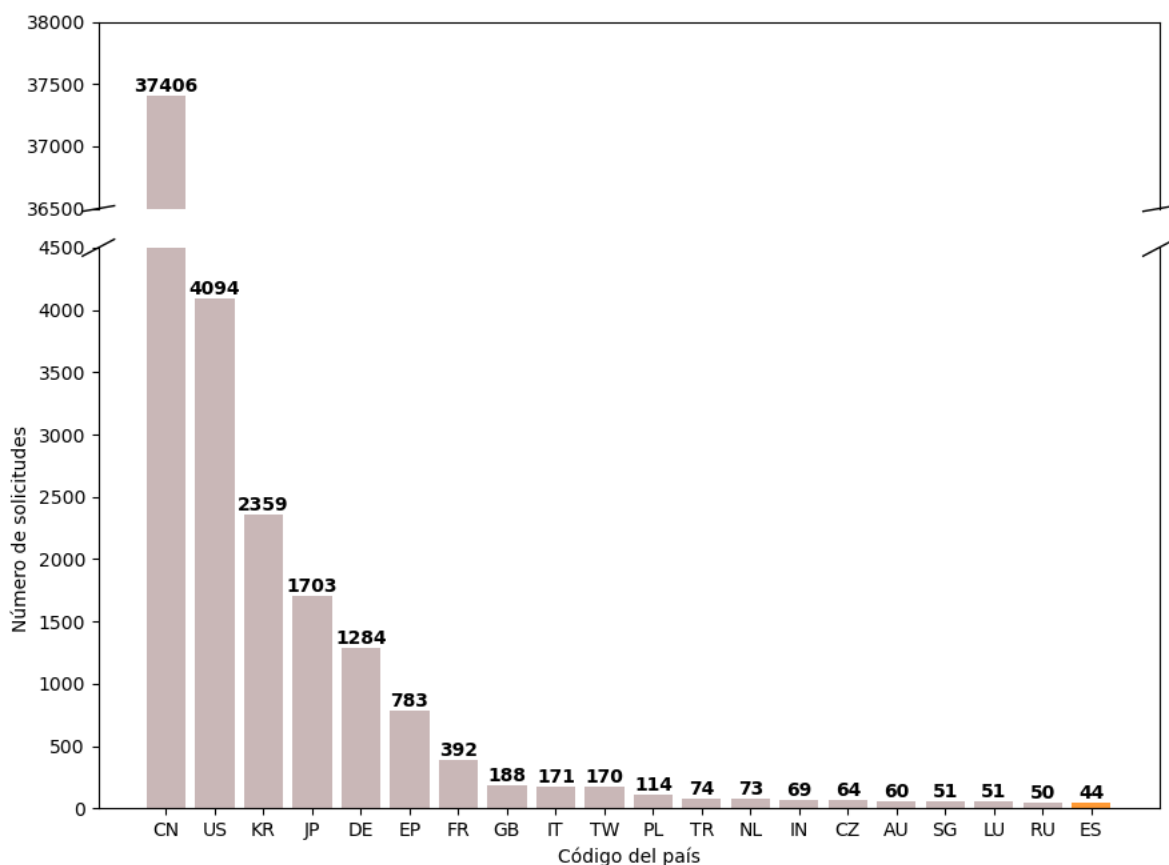
Se ha realizado un análisis estadístico de las solicitudes de patentes en el ámbito de la Impresión 3D. Para este estudio se ha empleado “Technology Intelligence Platform” (TIP), una herramienta de nueva generación de la Oficina Europea de Patentes (EPO) para el procesado, análisis y visualización de información de patentes. Dicha información ha sido obtenida de bases de datos a nivel mundial disponibles en el buscador “Ansera-based Search”, también desarrollado por la EPO.

En la Gráfica 1 se muestra el número total y la evolución anual del conjunto de solicitudes PCT, europeas y españolas en el periodo comprendido entre 2016 y 2025. Para cada año, los distintos colores reflejan además la distribución de las distintas tecnologías recogidas en las cinco secciones del boletín. Se observa como en 2025 se ha producido un aumento, tanto en el número total de solicitudes como en cada una de las cinco secciones.



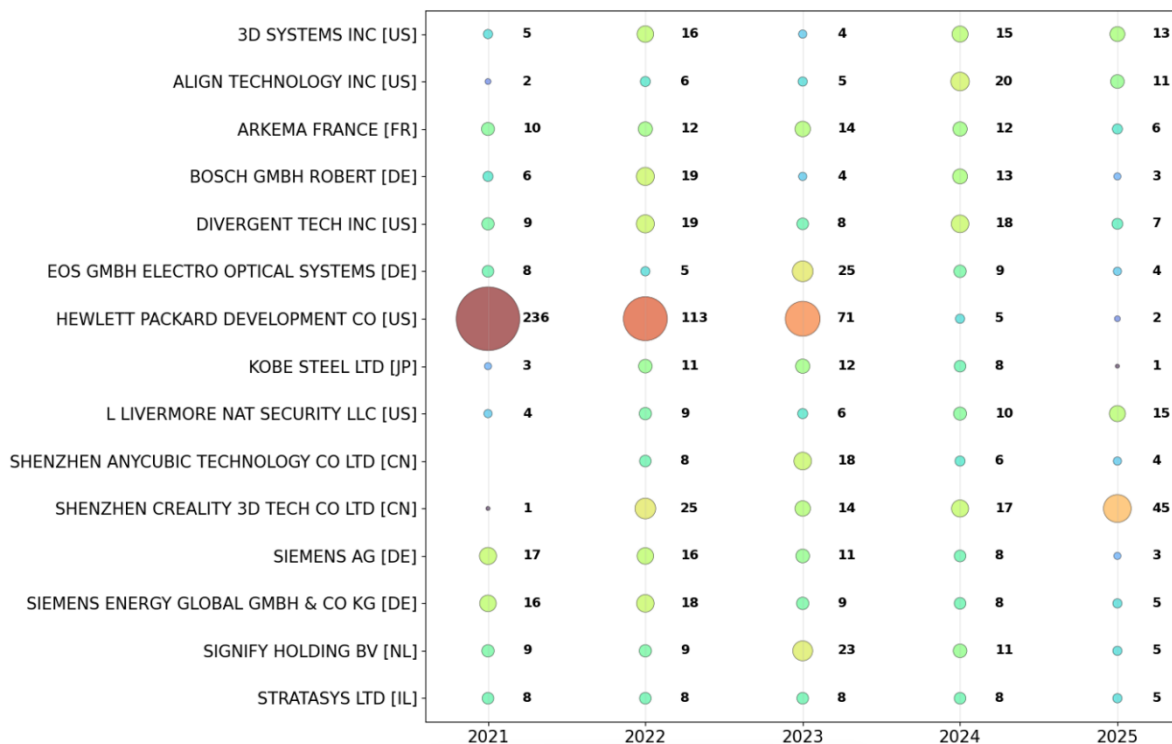
Gráfica 1. Solicitudes PCT+ europeas+ españolas publicadas por año desde 2016 hasta 2025

A nivel mundial, la Gráfica 2 muestra la distribución del número de familias por país de primer depósito para los veinte países, u oficina regional en el caso de la EPO, en los que se han realizado más publicaciones de solicitudes de patente para invenciones en el campo de la Impresión 3D en los últimos cinco años. De ellos, China es el que con enorme diferencia ha acumulado un mayor número de publicaciones, nueve veces más que su más inmediato seguidor, Estados Unidos. Destacan también Corea del Sur, Japón y Alemania. Las patentes europeas (EP) tanto tramitadas por la Oficina Europea de Patentes, como por las oficinas nacionales de países europeos ocupan posiciones más modestas. España aparece en el puesto número 20 con 44 patentes publicadas.



Gráfica 2: Documentos de patente agrupados por país de prioridad para el periodo 2021-2025

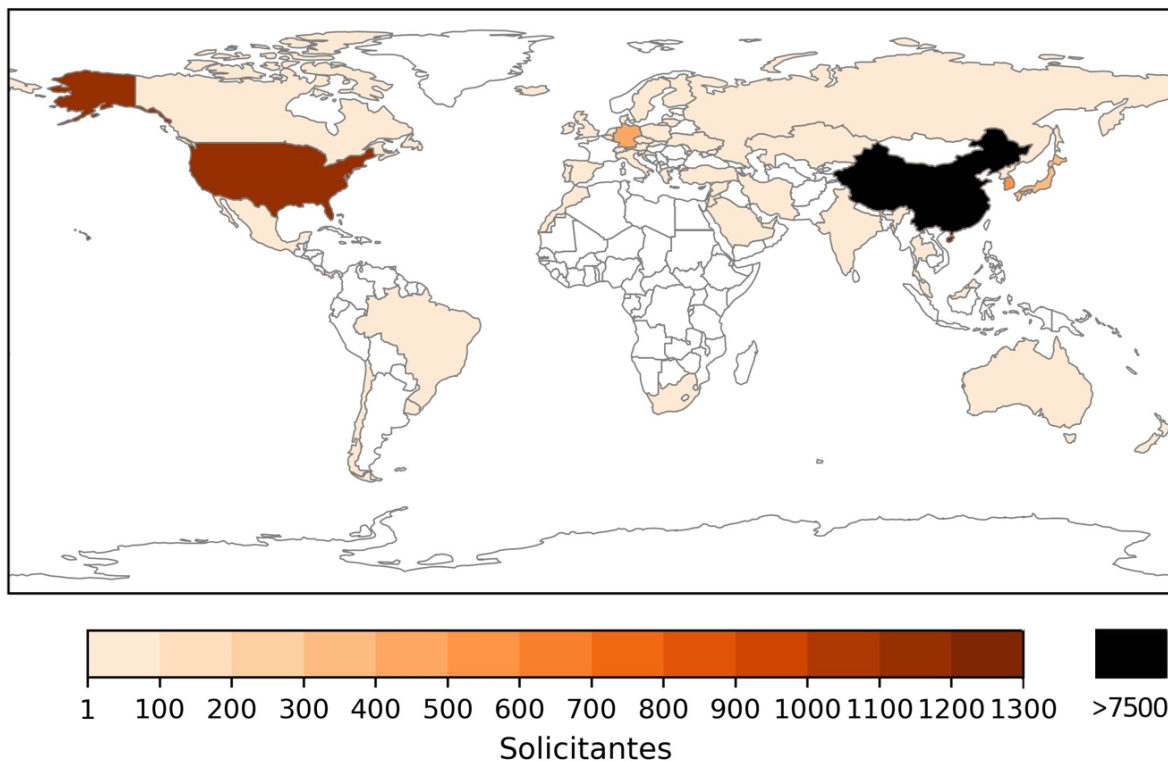
En cuanto a la internacionalización de invenciones en el ámbito de la impresión 3D, la Gráfica 3, muestra los 15 solicitantes a nivel mundial con mayor número de solicitudes PCT publicadas en el periodo 2021-2025. Todos ellos están constituidos por empresas, con predominio de compañías de nacionalidad estadounidense y alemana y, en menor medida, china. De entre ellas, destacó especialmente en el periodo 2021-2023 la compañía estadounidense Hewlett Packard, si bien en los últimos dos años se ha registrado un número sensiblemente menor de solicitudes PCT por parte de esta empresa.



Gráfica 3: Patentes solicitadas dentro del PCT por las 15 mayores entidades solicitantes entre 2021 y 2025

Por último, la Gráfica 4 muestra la distribución geográfica mundial de solicitantes de patentes en el terreno de la impresión 3D en 2025. La imagen evidencia el claro predominio de solicitantes chinos, seguidos por los de Estados Unidos y, más de lejos, por los de Alemania, Japón y Corea del Sur.

Nota: Para elaborar la gráfica se ha tenido en cuenta el país del solicitante. Cuando este dato no se encontraba disponible, se ha tomado como origen el país de depósito de la solicitud prioritaria.



Gráfica 4: Distribución geográfica de solicitantes en 2025.



Nº PUBLICACIÓN	SOLICITANTE Y PAÍS DE ORIGEN	CONTENIDO TÉCNICO
WO2025255611	UNIV SYDNEY [AU]	Additive manufacturing method and system
EP4647241	OSSBERGER GMBH CO KG [DE]	Building material container, a manufacturing method therefor, and a preparing method for building material using same
WO2025198671	UNIV ARIZONA [US]; WESSMAN ANDREW EZEKIEL [US]; SHAFAE MOHAMMED SAEED ABUELMAKARM [US]	Determining microstructures of additively manufactured metallic materials using in-situ process monitoring data
WO2025229123	SAFRAN ADDITIVE MFG CAMPUS [FR]	Method for additive manufacturing of a laminated ferromagnetic part
WO2025201868	TRUMPF LASER & SYSTEMTECHNIK SE [DE]	Method for calibrating a manufacturing device for the additive manufacturing of a three-dimensional object, and manufacturing device
WO2025200465	UNIV JIANGNAN [CN]	Method for manufacturing high-transmittance lithium disilicate glass ceramic by means of photocuring additive manufacturing
WO2025200466	UNIV JIANGNAN [CN]	Method for manufacturing lithium disilicate glass ceramic with gradient properties by using photocuring additive manufacturing
WO2025262693	STRATASYS INC [US]; REINHOLD COHN GROUP [IL]	Calibration methods and systems for additive manufacturing
WO2025230844	UNIV ROWAN [US]	Additively-constructed building elements for folding-based assembly of structures
WO2025198947	ARTBIO INC [US]	3D printed materials and methods
WO2025245737	JF POLYMERS SUZHOU CO LTD [CN]	Extrusion-type 3D printing filament, and preparation method therefor and use thereof
WO2025260034	SKYPHOS IND INC [US]	Additive manufacturing platform, resin, and improvements for microdevice fabrication
WO2025236022	TURN MOTION FLEXCO [AT]	3D-printed orthosis and method for producing same
WO2025235041	MIRUS LLC [US]	Use of metal powder to form 3D printed metal objects
WO2025229231	HYDRO EXTRUDED SOLUTIONS AS [NO]	Hybrid extrusion die and a method of repairing damaged extrusion die
WO2025241442	SHENZHEN CREALITY 3D TECH CO LTD [CN]	Method for resuming printing after power interruption, and 3D printing device
WO2026010629	HEWLETT PACKARD DEVELOPMENT CO [US]	Three-dimensional printing of balls with a predetermined energy return
WO2025233472	FRAUNHOFER GES FORSCHUNG [DE]	Printing ink for producing tissue, method for producing same, method for producing tissue, and tissue which can be produced using the method

Nº PUBLICACIÓN	SOLICITANTE Y PAÍS DE ORIGEN	CONTENIDO TÉCNICO
WO2025209595	UNIV JIANGSU [CN]	Stepless color-toning 3D printing technology-based preparation method for meat freshness indication label
WO2025245459	CZ BIOHUB SAN FRANCISCO LLC [US]; UNIV LELAND STANFORD JUNIOR [US]	3D printing of organoid slurries
WO2026006317	IMPOSSIBLE OBJECTS INC [US]	Web-based composite-based additive manufacturing (cbam) system and method, with controlled sheet registration
WO2025258036	FUJI CORP [JP]	Three-dimensional shaping device and three-dimensional shaping method
WO2025254567	"ARCMINERAL" SERVICE MINING COMPANY LLC [RU]	Method of manufacturing of anodes, cathodes of electrolytic capacitors, and blanks for them based on tantalum, niobium, niobium monoxide (niobium oxide ii) by using 3D printing technologies
WO2025214737	TRUMPF LASER & SYSTEMTECHNIK SE [DE]	Method and planning device for planning locally selective irradiation of a working region with an energy beam, method and manufacturing device for additively manufacturing a component from a powder material, computer program and storage medium
EP4631726	CANON PRODUCTION PRINTING HOLDING BV [NL]	Method for determining an ink distribution in a 3D object and a printer therefor
WO2025229020	SAINT GOBAIN WEBER FRANCE [FR]	Method for producing an object from mortar by 3D printing
WO2025250815	RAYTHEON CO [US]; UNIV MASSACHUSETTS LOWELL [US]	3D printed bridges for printed interconnects
WO2025245219	MARTINREA INT US INC [US]	Aluminum electric motor housing with integral passive cooling vapor chambers and process for forming utilizing 3D printing techniques
WO2026007259	SHANGHAI FUSION TECH CO LTD [CN]	Material breakage detection apparatus for printer filament and method
WO2025224193	ESSILOR INT [FR]	Additive manufacturing method for an optical article with improved surface quality
WO2025250016	ALU REHAB AS [NO]	Method of manufacturing a seat unit for a wheelchair, and a seat unit
WO2025257583	SAFRAN LANDING SYSTEMS [FR]	Method for manufacturing protective interface by additive manufacturing and mechanical assembly comprising such protection interface
WO2026006303	MAYO FOUND MEDICAL EDUCATION & RES [US]	Design and fabrication of patient-specific radiation therapy collimator holders
WO2025258736	HAN JOENGWOOK [KR]	Method for manufacturing artificial nipple prosthesis using 3D scanning and printing
WO2025264146	STATE BUDGET FUNDED HEALTH CARE INSTITUTION OF THE CITY OF MOSCOW RESEARCH AND PRACTICAL CLINICAL CE [RU]	Method for manufacturing a thyroid phantom
EP4650172	CSEM CT SUISSE DELECTRONIQUE MICROTECHNIQUE SA RECH DEVELOPPEMENT [CH]	Method for the manufacture of a mold for molding a metallic part by implementation of liga molding steps
WO2025223663	ZIPPRICH HOLGER [DE]	Method for establishing a connection between a number of inserted dental implants and a prosthetic body

Nº PUBLICACIÓN	SOLICITANTE Y PAÍS DE ORIGEN	CONTENIDO TÉCNICO
WO2025223689	ZIPPRICH HOLGER [DE]	Method for establishing a connection between a number of inserted dental implants and a prosthetic body and method for the production of a prosthetic body
WO2025224719	PRINT A HOUSE A S P LTD [IL]	A method and system for anchoring between elements of a structure

VOLVER A
CONTENIDO



Nº PUBLICACIÓN	SOLICITANTE Y PAÍS DE ORIGEN	CONTENIDO TÉCNICO
WO2025259797	TUFTS COLLEGE [US]	Composite silk foam and fiber materials, and methods of making and using the same
WO2025227560	XIAOGAN YISHENG NEW MAT CO LTD [CN]; SHENZHEN GUANGHUA WEIYE CO LTD [CN]	Antibacterial dental photocuring 3D printing resin composition, 3D printing article of manufacture, and use thereof
WO2025239317	DENKA COMPANY LTD [JP]	Silicon nitride powder, boron nitride powder, aluminum nitride powder, method for producing nitride powder, composition for three-dimensional molding, molded product, sintered compact, and method for producing molded product
WO2025221132	L N GUMILYOV EURASIAN NATIONAL UNIV NPJSC [KZ]	Two-phase fibre-concrete mix for 3D construction printing
WO2025225449	SHINETSU CHEMICAL CO [JP]	Uv-curable silicone composition for stereolithography, cured product thereof, and curing method
WO2025211401	DAICEL CORP [JP]	Cellulose fatty acid ester and thermoplastic resin composition containing cellulose fatty acid ester
WO2025215336	PRINTZYMES LTD [GB]	Improvements relating to three-dimensional printing
WO2025210613	EATON INTELLIGENT POWER LTD [IE]; INDIAN INST TECHNOLOGY BOMBAY [IN]	High strength aluminum alloy for additive manufacturing by laser powder bed fusion (lpdf)
WO2025264579	ALIGN TECHNOLOGY INC [US]	Compositions for additive manufacturing with activatable fillers
WO2025257596	APERAM [LU]	Alloy for the manufacture of parts by additive manufacturing
EP4650084	SSAB TECHNOLOGY AB [SE]	Steel powder for additive manufacturing processes
WO2025257141	INST POLYTECHNIQUE GRENOBLE [FR]; UNIV GRENOBLE ALPES [FR]; CENTRE NAT RECH SCIENT [FR]; FRANCAIS DU SANG ETS [FR]; UNIV MONTPELLIER [FR]; INST NAT SANTE RECH MED [FR]	Cellulose-based strip for microfluidic devices
WO2026009143	STRATASYS INC [US]	Curable formulations usable in forming transparent materials or objects featuring high mechanical strength
WO2025214648	SIEMENS ENERGY GLOBAL GMBH & CO KG [DE]	A low density nickel base gamma prime strengthened superalloy, a component and method
EP4667440	CERAM GMBH [DE]	A 3D print method for providing a sic ceramic preform using sic particles with a specific roundness
EP4640859	ROLLS ROYCE PLC [GB]	Titanium alloy and method of manufacture
EP4667189	AIRY AUTOMOTIVE APS [DK]	Methods and systems for processing a composite component

Nº PUBLICACIÓN	SOLICITANTE Y PAÍS DE ORIGEN	CONTENIDO TÉCNICO
EP4644092	3D SYSTEMS INC [US]	Compositions and methods for 3D printing for molding applications
WO2025262354	UNIV CATALUNYA POLITECNICA [ES]; UNIV ROVIRA I VIRGLI [ES]	Dual-cure formulation for 3D printing
WO2025232846	TANG XIAOWU SHIRLEY [CA]; CENTRE FOR EYE AND VISION RES LIMITED [CN]	Injectable and 3D extrusion printable hydrophilic silicone-based hydrogel for controlled drug release
WO2025264898	Z POLYMERS INC [US]	Additive manufacturing of in-situ thermotropic liquid crystal polymer fibers
WO2025253383	TECHNION RES & DEV FOUNDATION [IL]	Artificial coral reef module and method
WO2026000923	THE FIRST AFFILIATED HOSPITAL OF SHANTOU UNIV MEDICAL COLLEGE [CN]	Novel artificial bone based on promoting neurovascular regeneration and preparation method
WO2026006355	UNIV UTAH RES FOUND [US]	Soft multi-stable metamaterials
WO2025217123	SAMTEC INC [US]	Ionic liquids for multi-material printing
WO2026005005	UBE CORP [JP]	Silicon nitride powder for 3D fabrication, resin composition, precursor, silicon nitride-based sintered body, article, method for producing resin composition, and method for producing silicon nitride-based sintered body
WO2025255682	UNIV MCMASTER [CA]	Extracellular matrix-based hydrogel formulation, methods of making and uses thereof
WO2025264992	IASNIKOV ALEX [CA]; DEVONE CHRISTOPHER V [US]	System and method for making a metal object via slurry deposition
WO2025226507	ADDMAN INTERMEDIATE HOLDINGS LLC [US]	Improved h230 additive manufactured products and process therefor
WO2026005618	FOUNDRY LAB LTD [NZ]	Materials and methods for 3D printing and 3D-printed moulds
WO2025260204	ALLARTA LIFE SCIENCE INC [CA]	Crosslinked hydrogels with controlled permeability
WO2025225559	KURARAY CO [JP]	Hydraulic composition and cured product
WO2025260727	UNIV NANJING AERONAUTICS & ASTRONAUTICS [CN]	Additive manufacturing-based continuous fiber curing extrusion apparatus for ceramic composite material
WO2025219555	ALLOYED LTD [GB]	Method of preparing a powder, powder and process for additive manufacturing
EP4652981	KULZER GMBH [DE]	Radiation-curable composition for the production of dental components
WO2025249198	MITSUI CHEMICALS INC [JP]	Photocurable composition for stereolithography, three-dimensional article, and instrument used in oral cavity
WO2025235046	FIREHAWK AEROSPACE INC [US]	Additively manufactured solid propellant material for rocket engines
WO2025207169	PPG IND OHIO INC [US]	Additive manufacturing of transparent optical articles
WO2025215377	CONVATEC LTD [GB]	Vehicle for non-antimicrobial composition
WO2025219066	MERCK PATENT GMBH [DE]	Alginate microbeads, methods for their preparation, and bioink formulations containing the same.
EP4674826	POLYUSE CO LTD [JP]	Powder composition, mortar material for additive manufacturing, molded object, and method for manufacturing molded object
WO2025230026	DENTMEDI CO LTD [KR]	3D printer slurry composition using si3n4

Nº PUBLICACIÓN	SOLICITANTE Y PAÍS DE ORIGEN	CONTENIDO TÉCNICO
WO2025228468	VUT V BRNE [CZ]; TAEKNISETUR EHF [IS]; GENIS HF [IS]; UNIVERZITA KARLOVA LEKARSKA FAKULTA V PLZNI [CZ]	Polymer-phosphate-based composition for 3D printed implants
EP4653024	VUT V BRNE [CZ]; TAEKNISETUR EHF [IS]; GENIS HF [IS]; UNIVERZITA KARLOVA LEKARSKA FAKULTA V PLZNI [CZ]	Polymer-phosphate-based composition for 3D printed implants
EP4653178	ADIDAS AG [DE]	Multi-material liquid based 3D printing for full shoe manufacturing
WO2025233934	MAGNUS METAL LTD [IL]	Printable ceramic compositions for additive manufacturing of metal objects

VOLVER A
CONTENIDO

Dispositivos



Nº PUBLICACIÓN	SOLICITANTE Y PAÍS DE ORIGEN	CONTENIDO TÉCNICO
WO2025216619	PROTOFAB CO LTD [KR]	Top-down-type high-viscosity 3D printing device and 3D printing method thereof
WO2025218369	SHANGHAI HANBANG UNITED 3D TECH CO LTD [CN]	Long-format 3D printer and printing method
WO2025249348	AIZAWA CONCRETE CORP [JP]	Discharge position control system for flying 3D printer for construction
WO2025241988	UNIV TSINGHUA [CN]	Dual-device collaborative 3D printing method and system
WO2025218056	SHANGHAI HANBANG UNITED 3D TECH CO LTD [CN]	Long-breadth three-dimensional printer and printing method
WO2025243274	MARZBAN SHIRKHARKOLAEI EHSAN [NL]; CHERAEI SOLMAZ [NL]	Additive manufacturing system and method for multi-material, layer-wise deposition, in-situ uv curing, laser debinding, and laser-based melting, fusion, or sintering using multiple jetting heads
WO2025220604	DAIHEN CORP [JP]	Lamination molding system
WO2025220603	DAIHEN CORP [JP]	Lamination molding system
WO2025240265	KORPRINTERS LLC [US]	System and method for rapidly printing ice into a three-dimensional structure
WO2025214205	HUIZHOU CREALITY 3D TECH CO LTD [CN]	Cutting assembly for 3D printer, extrusion mechanism and 3D printer
WO2025220601	DAIHEN CORP [JP]	Additive manufacturing system
WO2025245350	VULCANFORMS INC [US]	Optics assembly
WO2025257487	MICHELIN & CIE [FR]	Device for additively manufacturing three-dimensional objects
WO2025238324	SAFRAN ADDITIVE MFG CAMPUS [FR]	Method for depowdering a part obtained by additive manufacturing, and device for implementing same
WO2025210268	AIRBUS DEFENCE & SPACE SAS [FR]	Manufacture of at least one portion of an object, corresponding assembly tool, method for controlling the tool, and resulting objects
WO2025224071	BOSCH GMBH ROBERT [DE]	Method and system for the additive manufacturing of a three-dimensional component
WO2025226590	VERUSTRUCT P B C [US]	Construction 3D printer for printing structures without utilizing a gantry
WO2025257485	MICHELIN & CIE [FR]	Device for the additive manufacture of a tyre tread
WO2025253329	UNIV AVEIRO [PT]	Method for advanced polymer 3D printing
WO2025257486	MICHELIN & CIE [FR]	Device for the additive manufacture of a tyre tread
WO2026005628	OMNI3D SPOLKA Z OGRANICZONA ODPOWIEDZIALNOSCIA [PL]	A 3D print continuous fibre impregnation system and a multi-axis 3D printing system

Nº PUBLICACIÓN	SOLICITANTE Y PAÍS DE ORIGEN	CONTENIDO TÉCNICO
WO2026005627	OMNI3D SPOLKA Z OGRANICZONA ODPOWIEDZIALNOSCIA [PL]	Multi-axis 3D printing system with curable resin mass filling and a 3D printing method with curable resin mass filling
WO2025213193	SAUDI ARABIAN OIL CO [SA]; ARAMCO SERVICES CO [US]	Multi-screw extruder for large format 3D printers
EP4667140	JEOL LTD [JP]	Three-dimensional powder bed fusion additive manufacturing apparatus and three-dimensional powder bed fusion additive manufacturing method
EP4635718	GEN ELECTRIC [US]	Build material escapement assembly and additive manufacturing systems including same
EP4670889	INST MAUPERTUIS [FR]	Method and device for additive manufacturing by depositing molten metal wire under concentrated energy with control of the supply speed of the metal wire
WO2025194540	NANJING DRUM TOWER HOSPITAL [CN]	Acoustic fluid-mediated deposition-type bioprinting apparatus for ultrahigh cell density functional organs, and printing method therefor
WO2025244693	US GOV SEC NAVY [US]	Devices and methods to fabricate continuous structures using additive manufacturing
WO2026003626	ULTRASONIUM INC [US]	Integrated acoustic and thermal modulation for optimized 3D metal fabrication
WO2025259801	TUFTS COLLEGE [US]	Deposition-based additive manufacturing (am) of whipped silk creams
EP4647243	UNIV NANJING AERONAUTICS & ASTRONAUTICS [CN]	Heated-bed deformation tolerance structure for large-sized continuous fiber high-temperature 3D printer
EP4659936	BULCKE TECHNICAL PRINTING BV [BE]	Printing platform
WO2025240751	UNIV JOHNS HOPKINS [US]	Adaptive 3D printing nozzle
WO2025244395	LUGOLABS CO LTD [KR]; KANG JIHUN [KR]; PARK JAYHYUN [KR]	Multi-output-head module for 3D printer
WO2025238634	PRECISE BIO 3D LTD [IL]	A multi-technology printing system
WO2025247072	HUIZHOU CREALITY 3D TECH CO LTD [CN]	Spray head device, multi-color extrusion system and 3D printing apparatus
WO2025221331	UNIV PITTSBURGH COMMONWEALTH SYS HIGHER EDUCATION [US]	Hybrid manufacturing system
EP4667188	CANON PRODUCTION PRINTING HOLDING BV [NL]	Printer for printing a 3D object and a method therefor
EP4624074	GEN ELECTRIC [US]	Additive manufacturing supports and methods for using same in additively manufacturing parts
EP4635652	GEN ELECTRIC [US]; CONCEPT LASER GMBH [DE]	Additive manufacturing system with optical modulator for additively manufacturing three-dimensional objects
ES3038537	HEALTH BIOLUX S L [ES]	Dispositivo de bioimpresion multimaterial
WO2025220510	KAWASAKI HEAVY IND LTD [JP]	Additive manufacturing method and additive manufacturing device
WO2025209903	SIGNIFY HOLDING BV [NL]	A 3D printer comprising a detaching mechanism

Nº PUBLICACIÓN	SOLICITANTE Y PAÍS DE ORIGEN	CONTENIDO TÉCNICO
EP4657322	SAFRAN [FR]	Method and device for additive manufacturing of a workpiece with photopolymerized ceramic
WO2025205945	MIMAKI ENG CO LTD [JP]	Manufacturing device, screw, operation method, and manufacturing method

VOLVER A
CONTENIDO

Productos



Nº PUBLICACIÓN	SOLICITANTE Y PAÍS DE ORIGEN	CONTENIDO TÉCNICO
WO2026005039	NAKAMURA KEN [JP] KOGA YOICHIRO [JP] AIZAWA HIROAKI [JP]	Manufacturing system for toroidal propeller for vessels, toroidal propeller for vessels, manufacturing method therefor, drawing creation method for toroidal propeller for vessels, server, and program
WO2026010233	GRAPHY INC [KR]	Dental prosthesis or teeth-straightening device continuous production process using 3D printer, and dental prosthesis or teeth-straightening device manufactured using continuous production process
WO2025228917	TECHNISCHE UNIV BERLIN KOERPERSCHAFT DES OEFFENTLICHEN RECHTS [DE]	Threaded sleeve with smooth inner surface for assembling with heat input in a component manufactured layer by layer by an additive manufacturing process
WO2025225674	MITSUBISHI MATERIALS CORP [JP]	Additively manufactured copper alloy object and method for producing additively manufactured copper alloy object
WO2025263050	TECH ON DEMAND LLC [JP]	Component for rocket engine, component for artificial celestial body, and component for survey vehicle
WO2025228301	XIAN BRIGHT LASER TECH CO LTD [CN]	Aluminum alloy material for additive manufacturing, preparation method for aluminum alloy material, and aluminum alloy part
WO2025263359	SANYO SPECIAL STEEL CO LTD [JP]	Additively manufactured body made of nickel-based alloy
WO2025226761	PEARL DIGITAL INC [US]	Method and apparatus for printing orthodontic brackets using ultra fine 3D printing resolution and variable layer thickness
WO2025223628	VESTAS AIRCOIL AS [DK]	Method of reinforcing an object obtained by additive manufacturing and a reinforced object
WO2025244578	UNIV NANYANG TECH [SG]	Multifunctional high-performance porous mycelium-based composites and production method thereof
WO2025250968	STAMM VEGH CORP [US]	Bioreactors and methods for producing the same
WO2026005103	HUMAN IN MOTION ROBOTICS ASIA INC [KR]	Unit structure for 3D printing and product manufactured using same
EP4636228	TGM KANIS TURBINEN GMBH [DE]	Additive manufacturing in metal underframes for plants
EP4643810	ORTHODONTIC RES AND DEVELOPMENT S L [ES]	Orthodontic appliances and methods of manufacturing
EP4659614	PUMA SE [DE]	Article of footwear having reinforcements
WO2025222183	LIGHTFORCE ORTHODONTICS INC [US]	Custom segmented indirect bond trays

Nº PUBLICACIÓN	SOLICITANTE Y PAÍS DE ORIGEN	CONTENIDO TÉCNICO
WO2025225675	MITSUBISHI MATERIALS CORP [JP]	Copper alloy deposition model and method for producing copper alloy deposition model
EP4670888	SHINHAN DIAMOND IND CO LTD [KR]	Segment for diamond tool and method of manufacturing the same
WO2025233933	MAGNUS METAL LTD [IL]	Ceramic compositions for additive manufacturing of metal objects
WO2025261651	STRAUMANN INST AG [CH]	Technique for manufacturing a customized smart dental device and customized smart dental device
WO2025261899	CASALE SA [CH]	Synthetic structured body, catalyst, and use of said catalyst
EP4640097	TAD BEAUTY INC [US]	Artificial eyelash segment system
EP4660507	ITP EXTERNALS S L [ES]	Gimbal joint for high-pressure fluid ducts
WO2026002712	MADRID SPACE EUROPE S L [ES]	Cooling structure
WO2025261916	AESULAP AG [DE]	Knee joint endoprosthesis and surgical kit for knee joint replacement
WO2025216094	TORAY PREC CO LTD [JP]	Gas-liquid two-phase heat exchange device and method for manufacturing same
WO2025223819	NUOVO PIGNONE TECNOLOGIE SRL [IT]	A suction strainer for a turbomachine
WO2025245195	WARBY PARKER INC [US]	Lens, assembly, and mounting same
WO2025217154	MAYO FOUND MEDICAL EDUCATION & RES [US]	System for custom implant design and instrumentation
WO2025255186	HARVARD COLLEGE [US]	Sustainable protein waste regeneration via entropy-driven denaturation
EP4632252	GOODRICH CORP [US]	Seal
WO2025219858	GD SPA [IT]	Electrochemical cell for the storage of electric energy
WO2025223664	ZIPPRICH HOLGER [DE]	Method for establishing a connection between an inserted dental implant and a crown and method for the production of a crown
WO2025233409	AESULAP AG [DE]	Method for manufacturing a hip implant, individualized hip implant
EP4635446	SWEDEN & MARTINA SPA [IT]	Dental aligners and related manufacturing method
WO2025257868	OSPEDALE PEDIATRICO BAMBINO GESU [IT]	Device for simulating endoscopic ultrasound techniques
EP4667139	PLANSEE SE [AT]	Tool for friction stir welding
WO2025212115	S&B TECHNICAL PRODUCTS INC [US]	Gripping elements produced with controlled hardness for sealing and restraint systems used in fluid pipelines
WO2025242665	CERAM GMBH [DE]	Carrier tool with a wear protection element
EP4650642	SUKITUSTUKKU OY [FI]	Pressurizing head and a pressurizing head connector
WO2025230586	UNIV MISSOURI [US]	Pisa printing soluble solids using stereolithography
WO2025233935	ISCAR LTD [IL]	Cutting tool abutment surface
EP4653689	GEN ELECTRIC [US]	Thrust chamber assembly

Nº PUBLICACIÓN	SOLICITANTE Y PAÍS DE ORIGEN	CONTENIDO TÉCNICO
WO2025209986	FERTIG MOTORS GMBH [DE]	Stator for an electric motor, and method for manufacturing a stator
WO2025247599	LUFTHANSA TECHNIK AG [DE]	Method for producing a hybrid large component for an aircraft, and hybrid large component
WO2025219315	UNIV STUTT GART KOERPERSCHAFT DES OEFFENTLICHEN RECHTS [DE]	Method for producing a component by means of an additive manufacturing method using an energy beam
WO2025202945	UNIV DO MINHO [PT] BELO INOX S A [PT]	Method for obtaining a hybrid cutlery piece and respective cutlery piece
WO2025242267	SCHAEFFLER TECHNOLOGIES AG [DE]	Method for producing an annular component, annular component produced by means of said method, and bearing

VOLVER A
CONTENIDO

Procesamiento de Datos



Nº PUBLICACIÓN	SOLICITANTE Y PAÍS DE ORIGEN	CONTENIDO TÉCNICO
WO2025242310	EUROPEAN SPACE AGENCY ESA [FR]	Simulating additive manufacturing
WO2025224952	FANUC CORP [JP]	Control device and computer-readable recording medium
WO2025242963	HELSINGIN YLIOPISTO [FI]	Method for additive manufacturing with machine-learning
WO2025214922	MERCK PATENT GMBH [DE]	Method for additive manufacturing of a 3D item by means of fused deposition modeling and additive manufacturing apparatus
WO2025228582	SIEMENS AG [DE]	Method for storing manufacturing data from a layer-based additive manufacturing method and computer program product
EP4663382	CREATE IT REAL AS [DK]	A method for detecting presence of a filament in an additive manufacturing system for fused deposition modelling
WO2025211989	LLC «NPC «ANTEY» [RU]	Device and system for 3D printing a product
WO2025250923	NOVINEER INC [US]	Planar and non-planar anisotropic toolpath generation for production of printed articles
EP4674546	DMG MORI CO LTD [JP]	Additive manufacturing apparatus
WO2025220508	KAWASAKI HEAVY IND LTD [JP]	Additive manufacturing method and additive manufacturing apparatus
WO2025230380	RESEARCH & BUSINESS FOUND SUNGKYUNKWAN UNIV [KR]	Apparatus and method for 3D printing defect detection
WO2026002796	MICHELIN & CIE [FR]	High-capacity additive manufacturing machine with improved precision
WO2025217613	JENTEK SENSORS INC [US]	Systems and methods for in-situ sensing and data analysis for industrial processes
EP4645148	GEN ELECTRIC [US]	Build line prediction systems and methods for additive manufactured parts
EP4659879	EULER EHF [IS]	Method and a system for analysing an additive manufacturing building process of a three-dimensional product
WO2025218289	UNIV NANJING AERONAUTICS & ASTRONAUTICS [CN]	Interlayer reinforcement method for continuous fiber additive manufacturing based on pressure-injected z-pin-like structure
EP4659880	EULER EHF [IS]	Method and a system for real-time monitoring of additive manufacturing (am) building process of a three-dimensional (3D) product generated by a 3D building device
WO2025233813	RUSSO DARIO [CH]	Masking and method for making the same
WO2025236727	SHENZHEN CREALITY 3D TECH CO LTD [CN]	Flow control method based on 3D printing device, 3D printing device, and storage medium

Nº PUBLICACIÓN	SOLICITANTE Y PAÍS DE ORIGEN	CONTENIDO TÉCNICO
EP4667191	FUND CENTRO DE TECNOLOGIAS DE INTERACCION VISUAL Y COMUNICACIONES VICOMTECH [ES]	A computer-implemented method for determining a path for semisolid extrusion-based 3-d printing
WO2025238034	FRIEDRICH ALEXANDER UNIV ERLANGEN NUERNBERG IN VERTRETUNG DES FREISTAATES BAYERN [DE]	Method for the in situ determination of a location-based beam profile during a layer-by-layer production of a component by means of a powder bed-based additive manufacturing process
WO2025218006	UNIV CHENGDU [CN]	Preparation method for tpms gradient structure of 3D-printed personalized implant root
EP4670874	TRUMPF ADDITIVE MFG ITALIA S R L [IT]	Method for measuring at least one system parameter in a manufacturing device, method for additively manufacturing objects from a powder material, computer program, control device and manufacturing device
WO2025218693	SHENZHEN TUOZHU TECH CO LTD [CN]	Material change handling method for 3D printer, and related device
EP4659935	GEN ELECTRIC [US]	Fluid management system and methods for additive manufacturing systems
WO2025236015	MOYER ILAN ELLISON [US]; JACOBS JENNIFER MARIE [US]	Craft-centric 3D printer and scanner
WO2025256223	GUANGZHOU HEYGEARS IMC INC [CN]	Light source control method and apparatus, three-dimensional printing device, and non-volatile storage medium
WO2025218120	GUANGZHOU HEYGEARS IMC INC [CN]	Three-dimensional printing method, device, and apparatus, storage medium, and electronic device
WO2025247139	SHENZHEN CREALITY 3D TECH CO LTD [CN]	Path planning method for multi-color printing, and 3D printer, device and storage medium
WO2026010627	TURBO 3D LLC [US]	Additive manufacturing system
EP4635653	TRUMPF ADDITIVE MFG ITALIA S R L [IT]	Method and planning device for planning a locally selective irradiation of a working area, computer program, method and manufacturing device for additively manufacturing an object from a powder material
WO2025209822	TRUMPF PATENTABTEILUNG [DE]	Method for manufacturing components layer by layer, manufacturing apparatus and computer program product
EP4635717	CHROMATIC 3D MAT INC [US]	System and method for printing three-dimensional objects comprising a thermoset material having a selected smoothness over multiple stacked layers
WO2025262262	UNIV DANMARKS TEKNISKE [DK]	Freeform manufacturing of three-dimensional objects
WO2026002760	TRUMPF LASER & SYSTEMTECHNIK SE [DE]	Method and planning device for planning a locally selective irradiation of a working region using a plurality of energy beams, method and manufacturing device for the additive manufacturing of a component from a pulverulent material, and computer program
WO2026008387	TRUMPF LASER & SYSTEMTECHNIK SE [DE]	Method for testing a manufacturing device, and control device and manufacturing device for additively manufacturing components from a powder material
WO2025220509	KAWASAKI HEAVY IND LTD [JP]	Method for manufacturing heat exchanger and heat exchanger

Nº PUBLICACIÓN	SOLICITANTE Y PAÍS DE ORIGEN	CONTENIDO TÉCNICO
WO2025209821	TRUMPF LASER & SYSTEMTECHNIK SE [DE]	Method for monitoring a powder material layer of a production device, and production device
EP4670873	GROB GMBH & CO KG [DE]	Method for generating a control dataset for droplet-based additive manufacturing, and method and device for additive manufacturing
WO2025225374	MAEZAWA KASEI KOGYO KK [JP]	Shaped article, shaped article design method, and shaped article production method

VOLVER A
CONTENIDO

