

# VT

## PATENTES

# IMPRESIÓN 3D

21



Vigilancia  
Tecnológica  
1º trimestre 2025

NIPO: 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 apareció 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 este inventor trataba de buscar un sistema para mejorar el proceso de realización de prototipos de pequeñas piezas de plástico que utilizaba para testar 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 primer 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*.

# Procesos



Nº PUBLICACIÓN	SOLICITANTE Y PAÍS DE ORIGEN	CONTENIDO TÉCNICO
EP4517118	SIEMENS GAMESA RENEWABLE ENERGY AS [DK]	Method of producing a sliding surface of a sliding bearing by additive manufacturing
WO2025045617	EOS GMBH ELECTRO OPTICAL SYSTEMS [DE]	Method and device for generating control data for an additive manufacturing device
WO2025040511	SIGNIFY HOLDING BV [NL]	A 3D printed structure comprising a 3D printed item and a 3D printed support structure
WO2025019614	UNIV WASHINGTON [US]	Additive manufacturing gradient printing method and product
EP4512550	JEOL LTD [JP]	Build data generating device, three-dimensional powder bed fusion additive manufacturing system, and three-dimensional powder bed fusion additive manufacturing method
WO2025054411	UNIV COLORADO REGENTS [US]; UNIV PENNSYLVANIA [US]	Additive manufacturing of tough gels and elastomers and applications thereof
EP4512551	JEOL LTD [JP]	Build data generating device, three-dimensional powder bed fusion additivemanufacturing system, and three-dimensional powder bed fusion additive manufacturing method
WO2025019232	BAE SYS INF & ELECT SYS INTEG [US]	Additively manufactured probe fed patch antenna
WO2025056194	CEMEX INNOVATION HOLDING AG [CH]	Ready-mix construction material 3D printing method
EP4509248	PROTERIAL LTD [JP]	Crack evaluation method of additively manufactured object and crack evaluation device
WO2025034634	SMILE IN ONE LLC [US]	Protocol for vat polymerization 3D printing of multi-material prosthetics
WO2025036958	ALVIER MECHATRONICS AB [SE]; ALVIER MECHATRONICS GMBH [DE]	Rotor assembly
WO2025029878	GENERATIONAL SYSTEMS LLC [US]	Rigid electrical power transmission system for linear movement
EP4523816	LINDE GMBH [DE]	Method for debinding in binder jetting additive manufacturing
WO2025031537	CELLBRICKS GMBH [DE]	Method for producing an ink for 3D printing using a polypeptide based on human collagen with a reduced hydroxyproline content
EP4512937	HAMILTON SUNDSTRAND CORP [US]	Metal plating retention on additively manufacture plastic parts for an aircraft
WO2025022049	SAFRAN [FR]; DEEP CONCEPT [FR]	Method for producing at least one electrical connection within a power electronics module and power electronics module
WO2025032050	GRINDOSONIC BV [BE]	Method and system for obtaining the elongation at break of 3D printed objects
EP4506086	ROSEMOUNT AEROSPACE INC [US]	Dual-material components and methods of making therefor
EP4501955	CELLBRICKS GMBH [DE]	Polypeptide for 3D printing ink

Nº PUBLICACIÓN	SOLICITANTE Y PAÍS DE ORIGEN	CONTENIDO TÉCNICO
WO2025049410	CALIFORNIA INST OF TECHN [US]	3D-printed epidermal wearable microfluidic electronic skin for machine learning-powered multimodal health surveillance
EP4497520	GE PREC HEALTHCARE LLC [US]	System and method for three-dimensional printing of collimator
EP4497531	TURBO POWERTECH CO LTD [KR]	Method for repairing tooth of labyrinth seal using additive manufacturing
WO2025031614	TIGRA GMBH [DE]	Tool component and method for producing a tool component
EP4520503	ROHR INC [US]	Thermoplastic composite components and method for forming same
WO2025060503	SHANGHAI HANBANG UNITED 3D TECH CO LTD [CN]	Method for manufacturing gradient-structured metal part on the basis of additive manufacturing technology
WO2025026778	KURTZ GMBH & CO KG [DE]	Apparatus for additively manufacturing components
WO2025061209	MOXIN HUZHOU TECH CO LTD [CN]	Multiple material switching mechanism and multiple material switching method for 3D printer, and 3D printer
WO2025059643	UNIV FLORIDA [US]	Method and system for inclined layer horizontal additive construction
WO2025009972	ADDOPTICS B V [NL]	Method of manufacturing a copy mould for an optical element
WO2025058569	NAT UNIV SINGAPORE [SG]	Calcium phosphate scaffold and methods thereof
WO2025008046	COBOD INT A/S [DK]	Caisson and method of constructing a caisson
EP4523811	RTX CORP [US]	Additive manufacturing fugitive multi-system material for ceramic core manufacture
WO2025040266	UNIV UTRECHT HOLDING BV [NL]; UMC UTRECHT HOLDING BV [NL]; PRINSES MAXIMA CENTRUM VOOR KINDERONCOLOGIE B V [NL]	Hybrid supramolecular biomaterial for bioprinting and cell culture
WO2025014636	FMC TECH INC [US]	Methods of producing a pressure containing structure from recycled composite parts and pressure containing pipe
WO2025019949A	CARLETON UNIV [CA]	Organic electrolyte-gated field effect transistor biosensor
WO2025049706	UNIV NEBRASKA [US]	Bioprintable hydrogel and bioink
WO2025061470	GKN AEROSPACE SWEDEN AB [SE]	Turbine engine casing fabrication and heat treatment
WO2025052207	TECRES SPA [IT]	Devices to be implanted into the human body and method for their realization
WO2025018889	UNIV DELFT TECH [NL]	A multi-functional microfluidic device and methods of providing and using such device
WO2025057062	TECH INNOVATION INSTITUTE – SOLE PROPRIETORSHIP LLC [AE]	High strength aluminium alloys containing silicon and copper for use in additive manufacturing and method of using the same
EP4516428	FRAUNHOFER GES FORSCHUNG [DE]	Method for producing an implant and implant
WO2025027348	ATOMIK AM LTD [GB]	Apparatus and method
WO2025045436	CERATIZIT AUSTRIA GMBH [AT]	Method for producing a main body composite
WO2025042335	UNIV NANYANG TECH [SG]	Bouligand structure and method of forming the same

Nº PUBLICACIÓN	SOLICITANTE Y PAÍS DE ORIGEN	CONTENIDO TÉCNICO
<a href="#">WO2025070718</a>	POLYUSE CO LTD [JP]	Program, method for producing three-dimensional fabricated object, and three-dimensional fabricated object
<a href="#">WO2025023465</a>	T & R BIOFAB CO LTD [KR]	Artificial skin model comprising dermal papillae and rete ridges and method for manufacturing same
<a href="#">EP4495381</a>	RTX CORP [US]	Process of creating a hollow vane assembly, hollow vane assembly and process for improving the stress capability between a cover and an open body for a hollow vane assembly
<a href="#">WO2025061777</a>	TATA STEEL NEDERLAND TECH BV [NL]; UNIV AMSTERDAM [NL]	Metamaterials for shock absorption applications and methods for producing said metamaterials
<a href="#">WO2025043034</a>	BLAESI ARON H [US]	Method for the manufacture of gastroretentive dosage forms
<a href="#">EP4497521</a>	HAMILTON SUNDSTRAND CORP [US]	Metal plated additively manufactured plastic acm seal plates with internal thermally adaptive structure
<a href="#">WO2025038194</a>	PENN STATE RES FOUND [US]	Frangible and degradable apparatus for seed protection and seedling growth
<a href="#">EP4497567</a>	KOERBER TECH S P A [IT]	Extruding and/or mixing screw, method for making the same, extruder and/or mixer apparatus comprising said screw, and plant
<a href="#">WO2025054475</a>	UNIV LELAND STANFORD JUNIOR [US]	Unpowered/passive directional-routing metastructure
<a href="#">WO2025031915</a>	MIMPLUS TECH GMBH & CO KG [DE]	Process for producing a raw magnet

VOLVER A  
CONTENIDO

# Materiales



Nº PUBLICACIÓN	SOLICITANTE Y PAÍS DE ORIGEN	CONTENIDO TÉCNICO
WO2025024532	UNIV PITTSBURGH COMMONWEALTH SYS HIGHER EDUCATION [US]	Additively manufactured passive components for high frequency applications
WO2025010464	UNIV SWINBURNE TECHNOLOGY [AU]	A carbide-complex concentrated alloy composite powder and method of forming thereof
WO2025064719	BEEHIVE IND LLC [US]	Healing of polycrystalline layers
WO2025029854	MATERION CORP [US]	Methods for producing a densified article
WO2025058564	UNIV NANYANG TECH [SG]	3D printable thermal management composite for flexible wireless communication electronic devices
EP4516433	NORSK TITANIUM AS [NO]	Titanium-base alloy compositions
WO2025011987	BASF SE [DE]	Radiation-curable liquid composition comprising phosphorus flame retardant and 3D-printed object formed from the same
WO2025013690	MITSUI MINING & SMELTING CO LTD [JP]	Metal powder, method for producing metal powder, and method for producing laminated molded article using metal powder
WO2025045943	NORSK TITANIUM AS [NO]	Titanium-base alloy compositions
WO2025008825	STRATASYS LTD [IL]	Additive manufacturing of dental prostheses
WO2025058565	UNIV NANYANG TECH [SG]	Flexible and printable composite ink for thermal management of soft electronics
WO2025033483	POLYPLASTICS CO [JP]	Powder material for 3D printer, three-dimensional modeled article, and method for producing three-dimensional modeled article
WO2025041082	INKBIT LLC [US]	Materials and methods for transmetallation-activated ring-opening metathesis polymerization (romp)
EP4497574	RTX CORP [US]	3-D lattice reinforced composite with strain limiter
WO2025038337	CARBON INC [US]	Dual cure resins having polyether and polyamide subunits and additive manufacturing methods using the same
WO2025028426	SANYO SPECIAL STEEL CO LTD [JP]	Laminated molded article made of feco-based alloy
WO2025029196	UNIV NANYANG TECH [SG]	Hydrogel ink and methods for direct 3D printing of hydrogel structures
WO2025038830	UNIV CARNEGIE MELLON [US]	Modification of aqueous phase density in fresh support baths to control rate of gelation
EP4530003	FUJIMI INC [JP]	Powder material for additive manufacturing and method for manufacturing additive-manufactured product using powder material
WO2025027517	IGM RESINS ITALIA SRL [IT]	10,11 -dihydro-5h-dibenzo[b,f]azepine derivatives as photoinitiators in photopolymerisation for use in photocurable compositions
WO2025052375	RAFAEL ADVANCED DEFENSE SYSTEMS LTD [IL]	Improved mirror design and manufacturing process for optomechanical systems

Nº PUBLICACIÓN	SOLICITANTE Y PAÍS DE ORIGEN	CONTENIDO TÉCNICO
WO2025060826	CHANGZHOU BONE RENEWAL MEDICAL TECH LLC [CN]	3D printing filament, artificial bone prosthesis, and preparation method therefor
WO2025019505	BEEHIVE IND LLC [US]	Additive manufacturing of core-shell structures
WO2025044655	SHENZHEN WOODY VAPES TECH CO LTD [CN]	Selective laser sintering porous conductive ceramic 3D printing consumable and preparation method
WO2025020426	MINGCHE BIOTECHNOLOGY CO LTD [CN]	3D printing material and magnetic control micro/nano robot
EP4495147	LUMMUS NOVOLEN TECHNOLOGY GMBH [DE]	Propylene polymers for three-dimensional printing
EP4512846	EMS CHEMIE AG [CH]	Flame resistant materials for powder bed fusion technologies and using such materials in a layer-by-layer process
WO2025027016	COMMISSARIAT ENERGIE ATOMIQUE [FR]	Method for producing a metal part comprising a luminescent optical marking
EP4530070	GENERAL ELECTRIC TECHNOLOGY GMBH [CH]	Alloy compositions and articles formed of such compositions
EP4506143	PETELA CO LTD [KR]	3D printing filament for medical imaging human equivalent bones with radiopaque that is most similar to human bones
WO2025007536	WUZHEN LABORATORY [CN]; TONGXIANG TSINGFENG TECH CO LTD [CN]	Lead-free piezoelectric ceramic slurry for DLP photocuring 3D printing and preparation method therefor
WO2025010479	UNIV TASMANIA [AU]	Conductive polymers and polymer-derived ceramics
WO2025058091	GRAPHY INC [KR]	Photocurable oligomer for 3D printing and shape memory polymer composition for 3D printing, comprising same
WO2025008687	UNIV DEGLI STUDI PADOVA [IT]; UNIV DEGLI STUDI DI TORINO [IT]	Method for the preparation of monoliths of zeolite lta
WO2025021803	BASF SE [DE]	Aromatic polyester containing powders for powder bed fusion printing process and printed articles thereof
EP4509006	ADIDAS AG [DE]	Liquid polymer application to sporting goods products
EP4495081	SAINT GOBAIN WEBER FRANCE [FR]; UNIV BRETAGNE SUD [FR]	Mortar for additive manufacturing
WO2025043346	UNIV LAVAL [CA]	Method of producing a radiopaque object, and radiopaque structure therefore
WO2025012070	AIR LIQUIDE [FR]	Method for texturising proteins which are alternatives to animal proteins
WO2025055166	SHENZHEN INST OF ADV TECH CAS [CN]	4D printed polyurethane-based hydrogel material, preparation method therefor and use thereof
EP4494876	SAINT GOBAIN WEBER FRANCE [FR]; UNIV BRETAGNE SUD [FR]	Mortar for additive manufacturing
WO2025071497	AGENCY SCIENCE TECH & RES [SG]; PROTERRIAL LTD [JP]	Aluminum-based composition, aluminum alloy powder, aluminum alloy additive manufactured product, method of forming aluminum alloy powder, and method of additive manufactured product
WO2025038404	ADDITIVE TECH LLC DBA ADDITEC [US]	Bridging internal channels in 3D-printed objects
EP4520529	HAMILTON SUNDSTRAND CORP [US]	Metal plated plastic acm part with internal thermally adaptive structure
EP4495346	STROHECKER GUIDO ROMANUS [AT]; BAUMIT BETEILIGUNGEN GMBH [AT]	Method for erecting a structure and structure

Nº PUBLICACIÓN	SOLICITANTE Y PAÍS DE ORIGEN	CONTENIDO TÉCNICO
WO2025009506	KURARAY CO [JP]	Molded body, film, masking material, water-soluble transfer coating material for forming coating material layer having uneven structure, support material for molding, and method for using molded body
WO2025023228	SANYO SPECIAL STEEL CO LTD [JP]	Hot work tool steel powder for molding and molded body using same
EP4491300	GEN ELECTRIC [US]	System and method for atomized powder processing and a processed powder
WO2025070373	PROTERIAL LTD [JP]	Maraging steel powder for additive fabrication, maraging steel additively fabricated article, and method for manufacturing same
WO2025057961	SANYO SPECIAL STEEL CO LTD [JP]	Fe-based alloy powder for molding and molded article
WO2025040987	LEGOR GROUP S P A [IT]	Use of a silver alloy for the realization of precious objects by means of a processes based on sinterization, as well as the precious object obtained therewith
WO2025064696	APPLIED MATERIALS INC [US]	Alloy composition for corrosion resistance
WO2025071551	SOLVAY SPECIALTY POLYMER USA LLC [US]	Polyamide based on 4,4'-diaminodicyclohexylmethane and 4,4'-methylene-bis-cyclohexylamine
WO2025021914	ZEISS CARL MEDITEC AG [DE]	Method and assembly for producing an ophthalmological device
WO2025070282	DENKA COMPANY LTD [JP]	Mortar composition for three-dimensional modeling
WO2025008027	ASK CHEMICALS GMBH [DE]	Building material mixtures containing one or more alkaline-earth metal compounds and method for the production of molds and cores
WO2025063300	PROTERIAL LTD [JP]	Fe-based alloy, alloy member, and method for producing alloy member
WO2025027349	ATOMIK AM LTD [GB]	Apparatus and method
WO2025037167	3M INNOVATIVE PROPERTIES COMPANY [US]	Method of applying primer for self-assembled layers and articles
WO2025062286	LA PATISSERIE NUMERIQUE [FR]	Method for manufacturing a food material in the fractionated state and associated material
WO2025059205	UNIV VIRGINIA PATENT FOUNDATION [US]	Double-network hydrogel particles, methods of making double-network hydrogel particles, and methods of making objects
WO2025062934	TOKUYAMA DENTAL CORP [JP]	Three-dimensional stereolithographic curable composition, method for producing same, and method for producing three-dimensional stereolithographic article
WO2025072276	L LIVERMORE NAT SECURITY LLC [US]	Systems and methods for using direct ink writing to make a 3D electromagnet
WO2025042300	POLBIONICA SPOLKA Z OGRANICZONA ODPOWIEDZIALNOSCIA [PL]	Process for preparation methacrylated decm
WO2025070401	MITSUI CHEMICALS INC [JP]	Pellet for three-dimensional modeling
WO2025014382	POLBIONICA SPOLKA Z OGRANICZONA ODPOWIEDZIALNOSCIA [PL]; FUND BADAN I ROZWOJU NAUKI [PL]	Recombinant proteins, recombinant dna sequences, vectors, eukaryotic and prokaryotic expression systems and their use

Nº PUBLICACIÓN	SOLICITANTE Y PAÍS DE ORIGEN	CONTENIDO TÉCNICO
WO2025070369	UNIV OSAKA [JP]; NAGASE CHEMTEX CORP [JP]	Method for manufacturing three-dimensional-shaped article and ink set for production of three-dimensional-shaped article
WO2025068681	GLOBUS METAL POWDERS LTD [GB]	Alloy

VOLVER A  
CONTENIDO

# Dispositivos



Nº PUBLICACIÓN	SOLICITANTE Y PAÍS DE ORIGEN	CONTENIDO TÉCNICO
WO2025014536	GE INFRASTRUCTURE TECH LLC [US]; GENERAL ELECTRIC TECHNOLOGY GMBH [CH]	Systems and methods for compliance mapping of a local feature for additive manufacturing applications
EP4497573	QUANTICA GMBH [DE]	Printhead
WO2025057054	LANDA LABS 2012 LTD [IL]	Method and apparatus for 3D printing
WO2025065947	GUANGDONG FENGHUAZHUOLI TECH CO LTD [CN]; GUANGDONG GAMCI 3D TECH CO LTD [CN]	Modular 3D printing method and device
WO2025044626	SHENZHEN TUOZHU TECH CO LTD [CN]	Extrusion compensation method for extrusion wheel, 3D printer, and electronic device
WO2025032577	MAGNUS METAL LTD [IL]	Device for induction heating
WO2025014834	ARC VENTURES LLC [US]	Mechanism to control the density gradient in three-dimensionally printed material
WO2025054699	EDINGER RALF [CA]	Extendable building chamber and additive manufacturing system with extendable building chamber
WO2025066439	SHENZHEN CREALITY 3D TECH CO LTD [CN]	Automatic calibration method for 3D printing device, and related device
WO2025044532	SHENZHEN TUOZHU TECH CO LTD [CN]	Synchronous belt tensioning apparatus for 3D printer, 3D printer, and 3D printing system
EP4509291	BIGUS KAZIMIERZ [US]	Assembly and method for making an object
WO2025063410	BAEK MYONG HYUN [KR]	3D printer comprising individually controllable storage boxes
WO2025020361	GUANGZHOU HEYGEARS IMC INC [CN]	Method and apparatus for processing projection regions of light source mechanisms, and non-volatile storage medium
WO2025020256	FOSHAN QIANGUAN TECH CO LTD [CN]; YUANLIWEI SHENZHEN TECH CO LTD [CN]; RESEARCH INSTITUTE OF SUN YAT SEN UNIV FOSHAN CITY [CN]	Thermal curing type ceramic-metal composite 3D printer
WO2025006257	VULCANFORMS INC [US]	Contourless melt pool control
WO2025032576	MAGNUS METAL LTD [IL]	Device for induction heating
WO2025057835	DENSO CORP [JP]	Method for manufacturing resin product and device for manufacturing resin product
WO2025059492	UNIV MICHIGAN REGENTS [US]	Dynamic printing bed for automated additive manufacturing for forming freeform panels
WO2025004506	EBARA CORP [JP]	Shaping nozzle
WO2025037496	POLYUSE CO LTD [JP]	Construction-use 3D printer and method of manufacturing molded article
WO2025022813	SHASHIN KAGAKU CO LTD [JP]	Stereolithography device and method for producing 3D printed object
WO2025015997	SHANGHAI UNION TECH CO LTD [CN]	Automatic support method and apparatus suitable for tire model, terminal, and medium

Nº PUBLICACIÓN	SOLICITANTE Y PAÍS DE ORIGEN	CONTENIDO TÉCNICO
WO2025033466	ASAHI CHEMICAL IND [JP]	3D-printer molded object and method for producing same
WO2025004997	MITSUBISHI ELECTRIC CORP [JP]	Metal deposition modeling apparatus
WO2025021411	QUANTICA GMBH [DE]	Printhead
WO2025036657	BOSCH GMBH ROBERT [DE]	Printing device for a 3D printer
WO2025042608	3D SYSTEMS INC [US]	Three-dimensional printing system with build area that is larger than a build plane
WO2025062287	LA PATISSERIE NUMERIQUE [FR]	Device for 3D printing of food
WO2025045832	MAGREESOURCE [FR]; CENTRE NAT RECH SCIENT [FR]; INST POLYTECHNIQUE GRENOBLE [FR]	System for the additive manufacture of an anisotropic bonded magnet and associated manufacturing methods
WO2025038532	3D SYSTEMS INC [US]	Three dimensional printing system with vertically translating build plane
WO2025059103	STRATASYS INC [US]	Thermal retention management of heated build chamber in 3D printer
WO2025061685	UNIV DANMARKS TEKNISKE [DK]	Method and system for 3D printing
WO2025051831	BELLASENO GMBH [DE]	Method for monitoring a manufacturing process of a 3D printer comprising a magnetically levitated print bed
WO2025016944	FRIEDRICH ALEXANDER UNIV ERLANGEN NUERNBERG KOERPERSCHAFT DES OEFFENTLICHEN RECHTS [DE]; JULIUS MAXIMILIANS UNIV WUERZBURG KOERPERSCHAFT DES OEFFENTLICHEN RECHTS [DE]	3D printer
WO2025026708	BOSCH GMBH ROBERT [DE]	Nozzle device for a print head for a 3D printer and method for operating a print head having a nozzle device
WO2025040625	AMS OSRAM INT GMBH [DE]	Photo-polymerization system and method for producing a three-dimensional object
EP4523886	FOUNDATION FOR RESEARCH AND TECH HELLAS [GR]	3D printing device combining digital light projection and two-photon polymerization
EP4512600	SHENZHEN TUOZHU TECH CO LTD [CN]	Rotary shaft of three-dimensional printing filament spool holder, three-dimensional printing filament spool holder, three-dimensional printer, and three-dimensional printing method
EP4512549	RTX CORP [US]	Powder bed fusion build plate thermal history indicator
EP4497571	3D SYNERGIE [FR]	Modular machine for additive manufacturing, subtraction or transformation of material
WO2025049142	NLIGHT INC [US]	Scanner calibration for additive manufacturing
WO2025033599	METAMORP LTD [KR]	Simulation method
WO2025012074	L UNIV TA MALTA [MT]	Extruder system for 3D printing
WO2025040610	AMS OSRAM INT GMBH [DE]	Photo-polymerization system, illumination device and method for producing a three-dimensional object
WO2025062258	ROSSINI S P A [IT]	Sleeve for mounting on rotating shaft of commercial printing machinery
WO2025051531	PROVOST FELLOWS FOUND SCHOLARS & OTHER MEMBERS BOARD COLLEGE HOLY & UND [IE]	Additive manufacturing using composite sheets made of metal powder and polymer
EP4523888	UNIV FRIEDRICH ALEXANDER ER [DE]; UNIV DUISBURG ESSEN [DE]	Method and device for additive manufacturing of a component

Nº PUBLICACIÓN	SOLICITANTE Y PAÍS DE ORIGEN	CONTENIDO TÉCNICO
EP4520462	PROVOST FELLOWS FOUND SCHOLARS & OTHER MEMBERS BOARD COLLEGE HOLY & UND [IE]	Additive manufacturing using composite sheets made of metal powder and polymer
EP4494825	PERI SE [DE]	Device for additive manufacturing of structures or components of structures
EP4494849	GE AVIO SRL [IT]	Directed energy deposition compliant fixtures and build table assemblies including the same

VOLVER A  
CONTENIDO

# Productos



Nº PUBLICACIÓN	SOLICITANTE Y PAÍS DE ORIGEN	CONTENIDO TÉCNICO
WO2025059551	UNIV MICHIGAN REGENTS [US]	Additively manufactured structures for supporting plant growth in bio-diverse green construction
WO2025038839	UNIV CARNEGIE MELLON [US]	Stabilization of high-density cell bioinks
EP4521429	BIOSENSE WEBSTER ISRAEL LTD [IL]	Electric components including coils and methods to fabricate the same by 3D printing
WO2025064807	MELD MFG CORPORATION [US]	Titanium alloy parts produced using solid state additive manufacturing
WO2025056125	ZALEWA TEC GBR VERTRETUNGSBERECHTIGTE GES PIOTR KRAMARCZYK STEFAN MEUTZNER CHRISTOPH SALEWSKI 09603 [DE]	Artificial sandstone moulding produced by additive manufacturing, and the production thereof
WO2025056887	SILVERSTONE PERFORMANCE TECH LIMITED [GB]	Panel for a vehicle body
WO2025015295	HOLLIDAY FRED [US]	Level instrument float device and process for manufacturing a level instrument float device
EP4523812	GENERAL ELECTRIC TECHNOLOGY GMBH [CH]	Method for integrated fixturing of direct print molds for cast components
WO2025023347	ACE MEDICORP CO LTD [KR]	Patient-bone-customized cervical vertebra fixing plate using 3D printing technology
WO2025012459	VITTORIA SPA OFF [IT]	A reinforced bicycle tyre
WO2025023348	ENS CORP [KR]	Three-dimensionally-printed self-expanding intramedullary fixation implant
WO2025052453	COUNCIL SCIENT IND RES [IN]	Acrylated PVAC-G-PLLA polymer, a process for the preparation and composition for 3D printing thereof
WO2025008379	BELLASENO GMBH [DE]	Three-dimensional implant with hydrophilic surface
WO2025008779	AKESO S R L [IT]	Advanced medication containing chitosan and azelaic acid microspheres
EP4530371	ACONDICIONAMIENTO TARRASENSE [ES]	A plating method for a polymeric substrate without using palladium
WO2025048778	HEWLETT PACKARD DEVELOPMENT CO [US]	Flexible structures
WO2025053148	PROTERIAL LTD [JP]	Ni-based alloy powder for additive manufacturing and method for manufacturing ni-based alloy molding
EP4497570	HAMILTON SUNDSTRAND CORP [US]	Metal plated additively manufactured plastic ACM shrouds with internal thermally adaptive structure
EP4506085	RTX CORP [US]	Additive processing-enabled threaded inserts
WO2025057140	SWISS MEDICAL INSTR AG [CH]	Inner tube for a surgical cutting instrument and method of producing same

Nº PUBLICACIÓN	SOLICITANTE Y PAÍS DE ORIGEN	CONTENIDO TÉCNICO
WO2025058359	GRAPHY INC [KR]	Photocurable composition for 3D printer, comprising zwitterions, and transparent dental aligner comprising same
WO2025038862	OVERTURE RESURFACING INC DBA OVERTURE ORTHOPAEDICS [US]	Systems of targeted/focal knee joint resurfacing
EP4491849	RTX CORP [US]	Localized rework using directed energy deposition
WO2025032751	YAMAZAKI MAZAK CORP [JP]	Chuck claw, method for producing chuck claw, method for processing workpiece, method for repairing chuck claw, hybrid machine tool, and program
EP4501455	UNIV KARLOVA [CZ]	A method for casting a channel component for use in microfluidic devices and an open mold for casting a channel component
WO2025017218	CSEM CT SUISSE DELECTRONIQUE MICROTECHNIQUE SA RECH DEVELOPPEMENT [CH]	Dental device with integrated fluidic reservoir and method for manufacturing said dental device
WO2025023200	THK CO LTD [JP]; SANYO SPECIAL STEEL CO LTD [JP]	Shaped article made of ni-based alloy
WO2025055893	TRIASTEK INC [CN]	Pharmaceutical dosage forms and preparation methods thereof
EP4497569	HAMILTON SUNDSTRAND CORP [US]	Metal plated additively manufactured plastic ACM housings with internal thermally adaptive structure
WO2025062098	SAFRAN [FR]	Method for producing a hollow blade
WO2025049629	L LIVERMORE NAT SECURITY LLC [US]	Chemical conversion of polyurethanes under mild conditions
WO2025056156	VITAWARE LTD [GB]	A method of manufacturing an orthodontic aligner and a system for manufacturing an orthodontic aligner
WO2025029791	KIMBERLY CLARK CO [US]	Tissue products and methods for manufacturing the same
WO2025016558	NUOVO PIGNONE TECNOLOGIE SRL [IT]	A heat exchanger module, and a heat exchanger comprising said module
WO2025070667	MITSUI CHEMICALS INC [JP]	Formwork, concrete production method, and concrete
WO2025057020	SOLVENTUM INTELLECTUAL PROPERTIES COMPANY [US]	Photopolymerizable compositions including urea/acrylamide functional component, articles and methods
EP4506150	HAMILTON SUNDSTRAND CORP [US]	Metal plated additively manufactured plastic ACM rotors with internal thermally adaptive structure
WO2025027496	SOLVENTUM INTELLECTUAL PROPERTIES COMPANY [US]	Dental restoration molds including unitary mold body
WO2025068080	STORZ KARL SE & CO KG [DE]	Guide assembly, device having a guide assembly, and method for producing a guide assembly
EP4497987	STAUBLI SA ETS [FR]	Connecting element and method for manufacturing such a connecting element
WO2025068342	HEROSUPPORT SA [CH]	Body supporting device for supporting a body part during a medical treatment
WO2025053401	OSSTEM IMPLANT CO LTD [KR]	Transparent orthodontic device

Nº PUBLICACIÓN	SOLICITANTE Y PAÍS DE ORIGEN	CONTENIDO TÉCNICO
<b>WO2025009596</b>	MITSUI CHEMICALS INC [JP]	Photocurable composition, three-dimensional shaped object, casting mold, method for producing cured object, and method for producing dental prosthesis

VOLVER A  
CONTENIDO

# Procesamiento de Datos



Nº PUBLICACIÓN	SOLICITANTE Y PAÍS DE ORIGEN	CONTENIDO TÉCNICO
WO2024263544	VULCANFORMS INC [US]	Build plan generation for additive manufacturing systems
WO2025040290	VALMET OY [SE]	Method, system and program for producing a refiner segment out of a worn refiner segment, and a rebuilt refiner segment
WO2025031948	EOS GMBH ELECTRO OPTICAL SYSTEMS [DE]	Method for generating control data for additively manufacturing a component
WO2025012448	BIGREP GMBH [DE]	Material verification method for a 3D-printer
WO2025016451	SHENZHEN CREALITY 3D TECH CO LTD [CN]	3D printer
WO2025016754	AUFBEREITUNGSTECHNOLOGIE NOLL GMBH [DE]	Method for producing classifier wheels, rotors and stators, and machine and bearing housings, also with cooling or heating ducts for wind classifiers and comminution devices, in particular classifier mills and impact mills, for fractionating, micronizing, grinding and homogenizing different products, even clumpable and sticky products
EP4501499	ARCAM AB [SE]	Generation and execution of melting paths in additive manufacturing
WO2025008826	STRATASYS LTD [IL]	Method and system for correcting color artifacts in additive manufacturing
EP4491376	SIEMENS AG [DE]	Method and apparatus for additive manufacturing
EP4502855	GEN ELECTRIC [US]	Systems and methods for optimizing metamaterial lattices to reduce distortions and stress
EP4520463	JEOL LTD [JP]	Build data generating device, three-dimensional powder bed fusion additive manufacturing system, and cumulative energy density distribution display method
WO2025016166	SHENZHEN CREALITY 3D TECH CO LTD [CN]	Automatic calibration device for 3D printer, and 3D printer
EP4512553	BOEING CO [US]	Systems and methods for assessing the ability to remove powder from an additively manufacturable article
WO2025030305	SUZHOU HELIO ADDITIVE INFORMATION TECH CO LTD [CN]	Temperature prediction method and system for 3D printing
WO2025026569	HARTING INT INNOVATION AG [CH]	Secured manufacturing as a service with the help of digital twin for modular and contract manufacturing scenario
EP4497575	MARKFORGED INC [US]	Side supports for tall parts
WO2025015998	SHANGHAI UNION TECH CO LTD [CN]	Slice feature compensation method and system for 3D printing model, terminal, medium, and 3d printing method and apparatus
WO2025018436	LAYOUT INC [KR]	3D printer control method and system thereof

Nº PUBLICACIÓN	SOLICITANTE Y PAÍS DE ORIGEN	CONTENIDO TÉCNICO
EP4523885	SIKA TECH AG [CH]	Generating machine control data for customizing 3D printed elements
WO2025024372	MATTHEWS INT CORP [US]	System and method for vectorized additive manufacturing
WO2025015942	SHANGHAI LUNKUO TECH CO LTD [CN]	3D printing method, terminal device, readable storage medium and computer program product
EP4512554	JEOL LTD [JP]	Information processing apparatus and three-dimensional powder bed fusion additive manufacturing apparatus
WO2025068576	TRACK3D GMBH [DE]	Method for ascertaining mechanical characteristics of additively manufactured components
WO2025071610	SIEMENS IND SOFTWARE INC [US]	Method and system for predicting heating in additive manufacturing
WO2025015999	SHANGHAI UNION TECH CO LTD [CN]	Upper and lower end slice feature deviation compensation method, system and terminal for model, medium, and printing method and apparatus
WO2025071554	SIEMENS IND SOFTWARE INC [US]	Stepover-based toolpath generation through partitioned slice regions
WO2025001033	ENOVATE3D HANGZHOU TECH DEVELOPMENT CO LTD [CN]	Combined middle frame for display module, and manufacturing method therefor



VOLVER A  
CONTENIDO