

# VT

## PATENTES

# IMPRESIÓN 3D

23



OBJETIVOS  
DE DESARROLLO  
SOSTENIBLE



Vigilancia  
Tecnológica  
3<sup>er</sup> 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 materializan 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 tercer 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
WO2025162718	GEBR BECKER GMBH [DE]	Method for passivating a filter condensate, and reactor device for passivating the filter condensate
WO2025194540	NANJING DRUM TOWER HOSPITAL [CN]	Acoustic fluid-mediated deposition-type bioprinting apparatus for ultrahigh cell density functional organs, and printing method therefor
WO2025201868	TRUMPF LASER UND 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
WO2025151104	TUSAS TURK HAVACILIK VE UZAY SANAYII ANONIM SIRKETI [TR]; GAZI UNI MUHASEBE VEKESIN HESAP MUDURLUGU [TR]	An additive manufacturing system
EP4613468	BOEING CO [US]	Methods and systems for reinforcing additively manufactured structures
EP4606503	GEN ELECTRIC [US]	Automated de-powdering of additive manufacturing build
WO2025151617	UNIV LELAND STANFORD JUNIOR [US]; UNIV CALIFORNIA [US]	Methods for fabrication of dual network polymers formed from polymeric precursors and in situ polymerization and systems for same
WO2025189502	INST METAL RESEARCH CAS [CN]	Method for preparing double-wall cooling ceramic core by additive-equal material cooperation
WO2025200194	UNIV YANSHAN [CN]	Light-curing and milling combined machining apparatus and method for complex specially-shaped ceramic parts
WO2025155025	OSSTEM IMPLANT CO LTD [KR]	Method and device for manufacturing transparent orthodontic device, and recording medium
WO2025166024	PROTEUS SPACE INC [US]	Spacecraft structure with integrated thermal management and automated design
WO2025153383	SIGNIFY HOLDING BV [NL]	A method of manufacturing a matrix assembly of interconnected lenses
WO2025153786	SAFRAN AIRCRAFT ENGINES [FR]	Method for manufacturing a metal reinforcement for a turbomachine blade

Nº PUBLICACIÓN	SOLICITANTE Y PAÍS DE ORIGEN	CONTENIDO TÉCNICO
WO2025202945	UNIV DO MINHO [PT]; BELO INOX S A [PT]	Method for obtaining a hybrid cutlery piece and respective cutlery piece
WO2025168499	BASELL POLIOLEFINE ITALIA SRL [IT]	Translucent polypropylene-based material for additive manufacturing
WO2025163046	PAPACKS SALES GMBH [DE]	3D printed tooling for pulp molding process
EP4596156	GENERAL ELECTRIC TECHNOLOGY GMBH [CH]	Method of providing braze reservoir in metal component or coupon therefor
EP4603255	CHROMATIC 3D MAT INC [US]	System, method, kit and formulations for printing elastic three-dimensional objects comprising thermoset polyurethane materials having a high resistance to loss of elasticity
WO2025161583	UNIV JIANGNAN [CN]	Method for manufacturing transparent alumina bracket on basis of high-solid-content and high-viscosity ceramic paste
WO2025207549	WEST VIRGINIA UNIV BOARD OF GOVERNORS ON BEHALF OF WEST VIRGINIA UNIV [US]	Methods to fabricate membranes using additive manufacturing
WO2025156047	UNIV MCMASTER [CA]	Protein eutectogel, methods of making and uses thereof
WO2025160373	UNIV RICE WILLIAM M [US]	Apparatuses and methods for the three-dimensional imaging of an object
WO2025194222	MELBOURNE INST TECH [AU]	Strut structure
WO2025198947	ARTBIO INC [US]	3D printed materials and methods
WO2025179532	UNIV SOUTHERN SCI & TECH [CN]; SHENZHEN INST OF ADV TECH CAS [CN]	Vascularized bone organoid and construction method therefor
WO2025166070	UNIV ARIZONA [US]; LIANG RONGGUANG [US]; YE PIAORAN [US]; HONG ZHIHAN [US]; LOY DOUGLAS [US]	Solvent-free silsesquioxane for three-dimensional printing glass optics
WO2025166025	PROTEUS SPACE INC [US]	Methods and systems for automated spacecraft design
WO2025202052	FRAUNHOFER GES FORSCHUNG [DE]	Component having a mineralised polymer structure and method for the production thereof
WO2025193231	GE INFRASTRUCTURE TECHNOLOGY LLC [US]	Monolithic interconnect, method of making same, and electrochemical cell including same
EP4624074	GEN ELECTRIC [US]	Additive manufacturing supports and methods for using same in additively manufacturing parts
EP4592009	GEN ELECTRIC [US]	Automated de-powdering of additive manufacturing build

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# Materiales



Nº PUBLICACIÓN	SOLICITANTE Y PAÍS DE ORIGEN	CONTENIDO TÉCNICO
WO2025150253	NIPPON CHUZO K K [JP]	Iron-based alloy excellent in mechanical characteristics and method for producing same
WO2025170066	PROTERIAL LTD [JP]	Hot work tool steel powder for deposition modeling and hot work tool steel deposition model
WO2025163990	TOMOEGAWA CORP [JP]	Resin powder for 3D printer, method for producing article, and article
WO2025197876	DENKA COMPANY LTD [JP]	Resin composition for 3D printer filament, 3D printer filament, and deposition model
WO2025173552	SANYO SPECIAL STEEL CO LTD [JP]	Fe-based alloy powder for laminate shaping having excellent shaping crack resistance and high thermal conductivity, and laminate shaped body using same
WO2025204930	MITSUI MINING & SMELTING CO LTD [JP]	Copper alloy powder and method for manufacturing laminate shaped article using said copper alloy powder
WO2025170067	PROTERIAL LTD [JP]	Hot work tool steel powder for additive manufacturing and additive-manufactured hot work tool steel article
WO2025197624	PROTERIAL LTD [JP]	Hot work tool steel powder for additive manufacturing and hot work tool steel additive manufacturing product
WO2025197625	PROTERIAL LTD [JP]	Hot work tool steel powder for additive manufacturing and additively manufactured hot work tool steel article
WO2025207093	PERIDOT PRINT LLC [US]	Three-dimensional printing fusing agent
WO2025190983	SANDVIK MACHINING SOLUTIONS AB [SE]	Fe-based powder
WO2025183556	UNIV EINDHOVEN TECH [NL]	A method for additive manufacturing comprising at least one thermochemical component
WO2025204924	YAMAISHI METAL CO LTD [JP]	Aluminum-containing particles
WO2025204923	YAMAISHI METAL CO LTD [JP]	Aluminum-containing particles
EP4613891	SSAB TECHNOLOGY AB [SE]	Steel powder for use in additive manufacturing processes
WO2025147626	ALIGN TECHNOLOGY INC [US]	3D printing compositions for stain resistant and more transparent dental materials from polyolefin derived polyols
WO2025153844	ARCELORMITTAL [LU]	Method for estimating the flow rate in an atomizer

Nº PUBLICACIÓN	SOLICITANTE Y PAÍS DE ORIGEN	CONTENIDO TÉCNICO
WO2025168448	TARKETT GDL SA [LU]	Plastisol ink composition
ES3032016	UNIV MADRID POLITECNICA [ES]	Procedimiento de fabricacion de una estructura de polimero reforzada con fibras metalicas, estructura fabricada mediante dicho procedimiento y metodo de monitorizacion del estado estructural de dicha estructura
ES3035046	UNIV VIGO [ES]	Metodo para la obtencion de vidrios metalicos mediante laser
WO2025155335	UNIV TEXAS [US]	Photocurable composition for multi-material 3D printing
WO2025207789	BIOMATTERS LLC [US]	Living mycelium composite material for liquid deposition modeling (ldm) and paste-extrusion based additive manufacturing (pebam) with extrusion-based 3D printing and robotic additive manufacturing process
WO2025165300	AGENCY SCIENCE TECH & RES [SG]	A bioactive poly(lactic-co-glycolic acid) (plga) material comprising protrusions, related printed structure and related methods thereof
WO2025207178	FIREHAWK AEROSPACE INC [US]	Additively manufactured hybrid rocket engine fuel grains containing solid propellant material
WO2025151356	UNIV NORTHWESTERN [US]	Iron-tungsten redox system and applications of same
WO2025155859	TUFTS COLLEGE [US]	Dual crosslinked silk-based materials for in situ deposition or printing
WO2025164130	TOKUYAMA DENTAL CORP [JP]	Curable composition for three-dimensional stereolithography, method for producing same, method for producing three-dimensional stereolithographic product, and method for producing dental restoration article
WO2025207514	RIBOSCIENCE LLC [US]	Bicyclic heteroaryl sulfanediimine derivatives as ectonucleotide pyrophosphatase phosphodiesterase 1 inhibitors
WO2025170614	NANO DIMENSION TECH LTD [IL]	Compositions eliminating onset of translational mobility in cured polymers
WO2025206723	LG INNOTEK CO LTD [KR]	Electrode structure for electrical stimulation
WO2025160576	QUADRATIC 3D INC [US]	Photohardenable compositions and methods for use in volumetric three-dimensional printing
WO2025157125	UNIV CENTRAL SOUTH [CN]	Cu-cr-nb-re alloy
WO2025146082	UNIV CENTRAL SOUTH [CN]	Nickel-based superalloy with low cracking sensitivity for additive manufacturing
WO2025183032	PROTERIAL LTD [JP]	Forming metal powder
WO2025150576	ASAHI CHEMICAL IND [JP]	Resin composition
WO2025164539	TORAY INDUSTRIES [JP]	Method for producing powder composition, powder composition, method for producing three-dimensional shaped object, and three-dimensional shaped object
EP4624076	UNIV LIEGE [BE]	Graphite-based steel alloy

Nº PUBLICACIÓN	SOLICITANTE Y PAÍS DE ORIGEN	CONTENIDO TÉCNICO
<a href="#">WO2025193112</a>	POLBIONICA S A [PL]; FUND BADAN I ROZWOJU NAUKI [PL]	Three-dimensional printing composition comprising methacrylated chitosan
<a href="#">WO2025155855</a>	3D SYSTEMS INC [US]	Systems, methods, and compositions for additive manufacturing
<a href="#">WO2025191175</a>	CARBOGANIC [BE]	Additive manufacturing with pyrolyzed lignocellulosic filler and foaming agent
<a href="#">WO2025153845</a>	ARCELORMITTAL [LU]	Method for estimating the flow rate in an atomizer
<a href="#">WO2025202573</a>	SAFRAN AIRCRAFT ENGINES [FR]; SAFRAN ADDITIVE MFG CAMPUS [FR]	Powder for manufacturing a part by selective laser melting
<a href="#">WO2025149671</a>	LUXEMBOURG INST SCIENCE & TECH LIST [LU]	Improved powder formulations of high melting point thermoplastic aliphatic polyketones for selective laser sintering
<a href="#">WO2025202353</a>	CENTRE NAT RECH SCIENT [FR]; UNIV DE LORRAINE [FR]; ECOLE NAT SUPERIEURE DARTS ET METIERS [FR]	High entropy alloys and their use for additive manufacturing

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# Dispositivos



Nº PUBLICACIÓN	SOLICITANTE Y PAÍS DE ORIGEN	CONTENIDO TÉCNICO
WO2025194541	NANJING DRUM TOWER HOSPITAL [CN]	Oblique-incident-body-wave-assisted ultra-high-cell-density multicellular tissue lifting bioprinting device and printing method therefor
WO2025194786	HUIZHOU CREALITY 3D TECH CO LTD [CN]	Print head module and 3D printing apparatus
WO2025165971	STRATASYS INC [US]	A system for printing reduced volumes of test resin in an additive manufacturing process
WO2025148702	XIAMEN HANIN CO LTD [CN]	Powder stirring and conveying mechanism, and additive manufacturing device
WO2025173328	MITSUBISHI HEAVY IND LTD [JP]	Welding condition setting device, welding condition setting method, and program
WO2025191863	FUJI CORP [JP]	Printing device, information processing device, printing system, production method, and information processing method
WO2025195984	SIGNIFY HOLDING BV [NL]	A 3D printer comprising a cooling arrangement
WO2025188395	PPG IND OHIO INC [US]	Thermal reactive extrusion
WO2025166994	SHENZHEN CREALITY 3D TECH CO LTD [CN]	Filament storage device, filament storage box, and 3D printer
WO2025196416	E3D ONLINE LTD [GB]	Liquefier assembly
WO2025168765	CENTRE NAT RECH SCIENT [FR]; UNIV LILLE [FR]	Multimaterial device for additive synthesis via multiphoton polymerisation
EP4606558	HYPERION ROBOTICS OY [FI]	Additive manufacturing method, three-dimensional object obtained therefrom, and additive manufacturing system
EP4620599	GEN ELECTRIC [US]	Automated de-powdering of additive manufacturing build
EP4606559	HYPERION ROBOTICS OY [FI]	Additive manufacturing method, three-dimensional object obtained therefrom, and additive manufacturing system
WO2025167223	SHENZHEN CREALITY 3D TECH CO LTD [CN]	Consumable switching device and 3D printer
WO2025177631	MITSUBISHI HEAVY IND LTD [JP]	Molding condition setting device, additive manufacturing system, molding condition setting method, and program
WO2025173096	STARTECHNO COMPANY LTD [JP]	Three-dimensional fabrication device and roller rotation mechanism
WO2025163317	STRATASYS POWDER PRODUCTION LTD [GB]	Post-processing apparatus and method

Nº PUBLICACIÓN	SOLICITANTE Y PAÍS DE ORIGEN	CONTENIDO TÉCNICO
EP4624698	VASEY LAUREN BARNETT [CH]; ELMIGER TOBIAS [CH]; HUTTER MARCO [CH]; CHADHA KUNALJIT SINGH [CH]; LEUNG POK YIN [HK]; GRAMAZIO FABIO MATTEO [CH]; KOHLER MATTHIAS DANIEL [CH]	Material deposition device
WO2025195986	COSMYX [FR]	Industrial machine for controlling a plurality of tools
WO2025166971	SHENZHEN CREALITY 3D TECH CO LTD [CN]	Transmission switching structure, feeding structure, returning structure, feeding and returning structure, and filament box
WO2025153124	SUNELCO S R O [CZ]	Device for 3D printing from construction materials
WO2025195853	GLATT GES MIT BESCHRAENKTER HAFTUNG [DE]	Apparatus for producing tablets
EP4591965	STOERK UMWELTTECHNIK GMBH [DE]	Air filter for 3D printer housing
WO2025168626	EXENTIS KNOWLEDGE GMBH [CH]	Apparatus for producing three-dimensional screen-printed workpieces
WO2025165179	MADDE INC [KR]	Spring-mounted dispensing roller
WO2025166955	SHENZHEN CREALITY 3D TECH CO LTD [CN]	Feeding and returning device and 3D printer
WO2025196034	ARBURG GMBH CO KG [DE]; ARBURGADDITIVE GMBH CO KG [DE]	Discharge nozzle
WO2025203621	NIKON CORP [JP]	Additive processing device, powder supply method, and powder supply device
EP4603213	AIR PROD & CHEM [US]	Method and apparatus for direct energy deposition of metal
WO2025202920	MILANO POLITECNICO [IT]	Hopper system
WO2025151390	CARBON INC [US]	Apparatus and methods for off platform spinning in additive manufacturing
WO2025176499	DOLIAM INVEST [FR]	Printing nozzle for a printer

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# Productos



Nº PUBLICACIÓN	SOLICITANTE Y PAÍS DE ORIGEN	CONTENIDO TÉCNICO
WO2025163117	NUOVO PIGNONE TECNOLOGIE SRL [IT]	A nickel-based additive manufactured product
EP4581975	ADIDAS AG [DE]	Additively manufactured footwear
WO2025172109	RICHEMONT INT SA [CH]	Setting support and set timepiece or jewellery item
WO2025186813	CLARO 3D NANO PRINTING SOLUTIONS LTD [IL]	Method and system for 3D printing of optical elements
EP4603780	ALFA LAVAL CORP AB [SE]	Method of producing a reinforced heat transfer plate using additive manufacturing
EP4628652	STONEREEFS AS [DK]	Additive manufacturing of structures for underwater sheet piles
EP4599730	ZELLERFELD R&D GMBH [DE]	Method of 3D printing a shoe part and resulting shoe part
WO2025157745	CYTIVA SWEDEN AB [SE]	Methods of producing and determining propensity for bacterial adhesion to parts for bioprocessing systems
EP4588594	GENERAL ELECTRIC TECHNOLOGY GMBH [CH]	Metal coupon with braze reservoir for component
EP4589122	PRATT & WHITNEY CANADA [CA]	Method of producing a gas turbine engine bearing housing
WO2025169924	UBE CORP [JP]	Resin composition
EP4588610	THERMWOOD CORP [US]	Method of constructing a metal mold
WO2025169923	UBE CORP [JP]	Resin composition
EP4614012	AVTECHTYEE INC [US]	Three piece composite fitting
EP4613461	DEMCON BOND 3D B V [NL]	Three dimensional (3D) printing system and method, also printed object.
WO2025162831	FRAUNHOFER GES FORSCHUNG [DE]	Material composite and fastening system
EP4585420	HAMILTON SUNDSTRAND SPACE SYS [US]	Integral additively manufactured fluid removal geometry
EP4624158	HAMILTON SUNDSTRAND CORP [US]	Heat exchanger core layer pin
EP4599762	RELANCE SAS [FR]	Method of manufacturing a customized saddle cushion
WO2025202283	COREMEDTECH APS [DK]	Dental model and associated dental implant analog
WO2025160474	UNIV CARNEGIE MELLON [US]	3D bioprinted hydrogel microfluidic systems and perfusion bioreactors for engineering vascularized tissue constructs
EP4592538	GD SPA [IT]	Fixing system

Nº PUBLICACIÓN	SOLICITANTE Y PAÍS DE ORIGEN	CONTENIDO TÉCNICO
EP4586793	HAMILTON SUNDSTRAND CORP [US]	Thermoelectric vortex tubes
WO2025176849	UNIV WAGENINGEN [NL]	Shaped object and adhesive composition for underwater use
WO2025202519	UNIV COLLEGE CORK NATIONAL UNIV OF IRELAND CORK [IE]	A 3-D porous scaffold
WO2025199586	UNIV CURTIN [AU]	A thruster
WO2025202565	SAFRAN HELICOPTER ENGINES [FR]	Manifold for at least one liquid for an aircraft turbine engine
WO2025164319	DAINIPPON INK & CHEMICALS [JP]	Curable resin composition for photofabrication, cured object, and three-dimensional fabricated object
WO2025172075	INSTITUT NATIONAL DE RECH EN INFORMATIQUE ET EN AUTOMATIQUE [FR]	Object encoding information by permuting electric potentials
EP4602972	ORTHOPEDIE KESTELYN [BE]	Fully automatic ai-based manufacturing of an insole
WO2025170729	CHROMALLOY GAS TURBINE LLC [US]	Masking system
EP4596834	RTX CORP [US]	Airfoil-mounted acoustic resonator array for gas turbine engine component
WO2025160056	GE INFRASTRUCTURE TECHNOLOGY LLC [US]; GENERAL ELECTRIC TECHNOLOGY GMBH [CH]	Aerodynamic turbomachine component with cooling features and method of making
WO2025191493	ZAAMIGO AG [CH]	Device for estimating the three-dimensional structure of teeth
WO2025168186	KK WIND SOLUTIONS AS [DK]	Focused temperature regulation unit
WO2025189131	TRIO LABS INC [US]	Objects, and method and apparatus for making and using the same
WO2025174829	NANOCHON INC [US]	Surgical tools for implanting a tissue scaffold
WO2025194052	RTX CORP [US]	Multi-alloy airfoil produced via additive manufacturing
WO2025166362	UNIV ROWAN [US]	Additively-constructed cellular building elements and structures
EP4613801	LANXESS DEUTSCHLAND GMBH [DE]	3D printed products
EP4613800	LANXESS DEUTSCHLAND GMBH [DE]	3D printed products
WO2025160626	REEF DESIGN LAB INT PTY LTD [AU]	Modular artificial reef structure
EP4610376	SANDVIK COROMANT AB [SE]	Method of making a cemented carbide body by 3D printing
EP4624537	LANXESS DEUTSCHLAND GMBH [DE]	3D printed products

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# Procesamiento de Datos



Nº PUBLICACIÓN	SOLICITANTE Y PAÍS DE ORIGEN	CONTENIDO TÉCNICO
EP4600769	BOEING CO [US]	Methods and systems for in-process monitoring of additive manufacturing
WO2025191072	UNIV LEUVEN KATH [BE]	Print head assembly for extrusion-based additive manufacturing
WO2025163262	SAFRAN ADDITIVE MFG CAMPUS [FR]; SAFRAN [FR]	Correcting a strategy for producing parts manufactured by additive manufacturing, by studying toolpaths
WO2025175058	OPT IND INC [US]	Additively manufactured false eyelashes
WO2025176501	CYCLOIDE [FR]	Method for additive manufacturing by double infill
EP4610027	UNIV LIEGE [BE]	Method for controlling a 3D printing system and 3D printing system
WO2025147627	ALIGN TECHNOLOGY INC [US]	Predicting manufacturing outcomes for additively manufactured objects
EP4620655	TNO [NL]	Method for improving adhesion of 3D-printed microstructures
WO2025154607	mitsubishi heavy ind ltd [JP]	Measurement device and additive manufacturing device
WO2025149986	LCP MEDICAL TECH LLC [US]	High-performance, low signal loss, high-density, multi-layer, double-sided 3D printed circuit structure deposition and fabrication platform
WO2025182148	mitsubishi heavy ind ltd [JP]	Measurement device and additive manufacturing device
WO2025198991	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
WO2025184143	FREEFORM FUTURE CORP [US]	Deformation correction for additive manufacturing
WO2025156706	SHENZHEN CREALITY 3D TECH CO LTD [CN]	Inductance-based leveling apparatus and leveling method for 3D printer
WO2025182343	THE POKEMON COMPANY [JP]	Method for manufacturing eye member, method for manufacturing three-dimensional object, eye member, and three-dimensional object
WO2025194698	UNIV JIANGNAN [CN]	Multi-material large-size volumetric 3D printing system and printing method
WO2025165468	L LIVERMORE NAT SECURITY LLC [US]	Systems and methods for real-time phase-based imaging for additive manufacturing
WO2025153109	SHENZHEN TUOZHU TECH CO LTD [CN]	Method and apparatus for generating 3D printing file, and computer-readable storage medium

Nº PUBLICACIÓN	SOLICITANTE Y PAÍS DE ORIGEN	CONTENIDO TÉCNICO
WO2025155634	NLIGHT INC [US]	Scanner calibration for additive manufacturing in a three dimensional printer incorporating zoom optics
WO2025157679	FRAUNHOFER GES FORSCHUNG [DE]	Assembly and method for bath-based 3D printing
WO2025205944	MIMAKI ENG CO LTD [JP]	Housing unit, housing, and additive manufacturing device
WO2025167017	SHENZHEN CREALITY 3D TECH CO LTD [CN]	Filament storage device and 3D printing system
WO2025167224	SHENZHEN CREALITY 3D TECH CO LTD [CN]	Hub, consumable storage device and 3D printer
WO2025175779	SHENZHEN CREALITY 3D TECH CO LTD [CN]	Multicolor printing slicing method, electronic device, and storage medium
EP4582242	SIEMENS AG [DE]	Method for generating training data for a machine learning model for driving a three-dimensional printer
EP4610028	MICROSOFT TECHNOLOGY LICENSING LLC [US]	Adjusting manufacturing parameters using artificial intelligence
WO2025198528	NAT UNIV SINGAPORE [SG]; SINGAPORE HEALTH SERV PTE LTD [SG]	A system and method for manufacturing a user-specific implant
WO2025194859	SUZHOU TIANHONG LASER CO LTD [CN]	System and method for variable-focus spot with constant power density, and 3D printing method using same
WO2025150127	FUJI CORP [JP]	Three-dimensional manufacturing device and method for controlling three-dimensional manufacturing device
EP4582243	SIEMENS AG [DE]	Method for determining filament jam for a three-dimensional printing device by means of a sensor device, computer program product, computer-readable storage medium, sensor device and three-dimensional printing device
WO2025184145	FREEFORM FUTURE CORP [US]	Laser alignment in 3D printing system
WO2025168000	GUANGZHOU HEYGEARS IMC INC [CN]	Three-dimensional object printing method and apparatus, storage medium, and electronic device
WO2025192281	MITSUBISHI HEAVY IND LTD [JP]	Method for monitoring forming process
WO2025175938	GUANGZHOU HEYGEARS IMC INC [CN]	Method and system for processing three-dimensional model
EP4582241	SIEMENS AG [DE]	Method for operating a three-dimensional printing device by means of an electronic computing device, computer program product, computer-readable storage medium and electronic computing device
EP4606570	CANON PRODUCTION PRINTING HOLDING BV [NL]	Method for determining a colour gamut of a printer
WO2025167284	GUANGZHOU HEYGEARS IMC INC [CN]	Three-dimensional model printing method and apparatus, and electronic device and readable storage medium

Nº PUBLICACIÓN	SOLICITANTE Y PAÍS DE ORIGEN	CONTENIDO TÉCNICO
WO2025168630	EXENTIS KNOWLEDGE GMBH [CH]	Apparatus for producing three-dimensional screen-printed workpieces
WO2025168628	EXENTIS KNOWLEDGE GMBH [CH]	Apparatus for producing three-dimensional screen-printed workpieces
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WO2025155540	3D SYSTEMS INC [US]	Flow rate control in extrusion deposition process
EP4585329	SIEMENS AG [DE]	Method for compressing at least one work file for producing a product for an additive manufacturing device, computer program product, computer-readable storage medium and electronic computing device
WO2025180475	GUANGDONG HANBANG 3D TECH CO LTD [CN]	Additive and subtractive composite manufacturing method, apparatus, and assembly, and computer storage medium
EP4620654	COGIT COMPOSITES [FR]	3D printing device including an in situ radiative treatment around the delivery head of heat-activatable material
EP4600020	EXENTIS KNOWLEDGE GMBH [CH]	Device for producing three-dimensional screen printing workpieces
WO2025152858	HANKAIS I INTELLIGENT TECH CO LTD GUIZHOU [CN]	Printing path planning method and apparatus for object model, storage medium, and device
WO2025202045	NIKON SLM SOLUTIONS AG [DE]	Scanning path determination in the powder bed fusion process and powder bed fusion apparatus



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