

VT

PATENTES

IMPRESIÓN 3D

22



Vigilancia
Tecnológica
2º 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 segundo 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
WO2025106053	EGE UENIVERSITESI IDARI VE MALI ISLERDAIRE BSK [TR]; IZMIR KATIP CELEBI UENIVERSITESI [TR]	A filament for additive manufacturing and production method
WO2025111198	DIVERGENT TECH INC [US]	Electropolishing process for complex am objects
WO2025090560	RAPID LIQUID PRINT CO [US]	Improved silicone prosthetic liners and methods of producing same
WO2025107698	INST METAL RESEARCH CAS [CN]	Method for preparing titanium alloy by additive manufacturing
WO2025079687	KOBE STEEL LTD [JP]	Method and program for building up three-dimensional article
WO2025104121	UNIV GRENOBLE ALPES [FR]; INST POLYTECHNIQUE GRENOBLE [FR]; CENTRE NAT RECH SCIENT [FR]	Integration of a magnetic signature into a ferromagnetic object manufactured by additive manufacturing
WO2025103994	BIEN AIR HOLDING SA [CH]	3D printing of a unitary piece in a metal material
WO2025119654	MICHELIN & CIE [FR]	Optimised airless tyre carcass produced by additive manufacturing using a material reinforced with long fibres
WO2025119653	MICHELIN & CIE [FR]	Airless tyre carcass produced by additive manufacturing using a material reinforced with long fibres
EP4567260	PRATT & WHITNEY CANADA [CA]	Design of a rear-cone exhaust duct for additive manufacturing
EP4566460	REVO FOODS GMBH [AT]	Extruder device with at least two screws and a common compartment
EP4552749	PAPACKS SALES GMBH [DE]	Method and system for coating products
EP4563115	IVOCLAR VIVADENT AG [LI]	Fixation of dye solutions in multi-color ink jet 3D ceramic printing
EP4534222	GENERAL ELECTRIC TECHNOLOGY GMBH [CH]	Cavity plug for additive part removal from build plate
EP4566746	3D COMPONENTS AS [NO]	A method and system for determining and monitoring automated additive manufacturing process parameters
ES3013314	FUNDACIO INST D'INVESTIGACIO SANITARIA PERE VIRGILI IISPV [ES]	Procedimiento de fabricación de moldes para la obtención de bloques de parafina para TMA
WO2025106909	QUADRATIC 3D INC [US]	Methods and systems for forming a three-dimensional object and methods for generating a scaled digital model for printing a three-dimensional object
WO2025068688	OSSTEC LTD [GB]	Tibial component
WO2025082667	ALD VACUUM TECHN GMBH [DE]	Method for making ingots, in particular for use in a viga system or an eiga system
WO2025071893	THERMWOOD CORP [US]	Methods and systems for support structures in cut parts

Nº PUBLICACIÓN	SOLICITANTE Y PAÍS DE ORIGEN	CONTENIDO TÉCNICO
WO2025137128	ALIGN TECHNOLOGY INC [US]	Stain resistant compositions and methods for preparing the same
WO2025106367	CARBON INC [US]	Additively manufactured lattices having modified strut cross-sections
WO2025065863	SHENZHEN HANYANG TECH CO LTD [CN]	Composite material, snow throwing barrel and preparation method, snow clearing machine
WO2025091749	BMF NANO MATERIAL TECH CO LTD [CN]	Printing method of photocuring 3D printing device, device and storage medium
WO2025115333	NAT INST MATERIALS SCIENCE [JP]	Automatic evaluation device and automatic evaluation method for alloy composition search
WO2025091796	BJ APPLIANCE HEALTH SCIENCE & TECH CO LTD [CN]	Method and apparatus for generating digital orthodontic appliance model, and method for manufacturing orthodontic appliance
WO2025090537	LUXCREO INC [US]	Systems and methods for fabricating orthodontic retainers
WO2025076765	SUZHOU AMPRO LTD [CN]	3D printing method, printed product and printing apparatus
EP4563118	IVOCLAR VIVADENT AG [LI]	Pre-inked slip for multi-color ink jet 3D ceramic printing
WO2025101630	THE GOVERNMENT OF THE UNITED STATES OF AMERICA AS REPRESENTED BY THE SECRETARY OF THE NAVY [US]	Additively manufactured vascular networks
EP4563116	IVOCLAR VIVADENT AG [LI]	Selective adjustment of hardness and translucency in multi-color ceramic inkjet 3D printing
EP4563117	IVOCLAR VIVADENT AG [LI]	Selective staining by staining solutions in 3D printing
EP4549056	RICOH CO LTD [JP]	Method of manufacturing bonded body, bonded body, and heat sink
EP4574311	SECO TOOLS AB [SE]	Method of additive manufacturing
EP4535934	UNIV FREIBURG ALBERT LUDWIGS [DE]; HAHN SCHICKARD GES FUER ANGEWANDTE FORSCHUNG E V [DE]	Method and device for additive manufacturing of electronic circuits
EP4545213	GENERAL ELECTRIC TECHNOLOGY GMBH [CH]	Metal coupon with porous region for component and component with same
EP4545208	GENERAL ELECTRIC TECHNOLOGY GMBH [CH]	Porous metal coupon with braze material infiltration barrier for repairing component, component with same and related method
EP4545207	GENERAL ELECTRIC TECHNOLOGY GMBH [CH]	Metal coupon with porous stress-relief section, component with same and related method
EP4545209	GENERAL ELECTRIC TECHNOLOGY GMBH [CH]	Metal coupon with porous regions and slanted side wall(s) for turbomachine component
EP4545214	GENERAL ELECTRIC TECHNOLOGY GMBH [CH]	Porous metal coupon with thermal transfer structure for component and related component
EP4545217	GENERAL ELECTRIC TECHNOLOGY GMBH [CH]	Metal porous coupon with anchor for component and component with same
EP4545215	GENERAL ELECTRIC TECHNOLOGY GMBH [CH]	Metal porous region for component printed on replacement region or base region of component
EP4545212	GENERAL ELECTRIC TECHNOLOGY GMBH [CH]	Porous metal coupon with sealed cavity for repairing component, component with same and related method

Nº PUBLICACIÓN	SOLICITANTE Y PAÍS DE ORIGEN	CONTENIDO TÉCNICO
EP4545211	GENERAL ELECTRIC TECHNOLOGY GMBH [CH]	Porous metal coupon with conduit for repairing component, component with same and related method
EP4545216	GENERAL ELECTRIC TECHNOLOGY GMBH [CH]	Method of using metal coupon with porous region for component
EP4545218	GENERAL ELECTRIC TECHNOLOGY GMBH [CH]	Porous metal coupon with low porosity region for repairing component, component with same and related method
EP4578582	L M N S R L [IT]	Method of additive manufacturing metal articles by means of superimposed layers and respective equipment
EP4578594	SULZER TURBO SERVICES HOUSTON INC [US]	Method for using a fixing arrangement with a base element, device for executing such method, fixture, and method of manufacturing such fixture

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Materiales



Nº PUBLICACIÓN	SOLICITANTE Y PAÍS DE ORIGEN	CONTENIDO TÉCNICO
WO2025088893	DAI ICHI CERAM CO LTD [JP]	Composition for filament for 3D printers, filament for 3D printers, sintered body, and method for producing sintered body
WO2025095164	GRAPHY INC [KR]	Post-curing method for 3D printout using photo-curable composition and transparent orthodontic appliance manufactured thereby
WO2025089388	CANON KK [JP]	Molded body and curable composition
WO2025126597	JFE STEEL CORP [JP]	Ferritic stainless steel powder, ferritic stainless steel member, and method for producing ferritic stainless steel member
WO2025111571	UNIV JEFFERSON [US]	Methods and apparatus for realistic 3D printed phantoms
WO2025107923	AVIMETAL AM TECH CO LTD [CN]	Erbium-containing aluminum alloy for additive manufacturing, and preparation method therefor and use thereof
WO2025090976	ATHENEUM OPTICAL SCIENCES LLC [US]	Precision control of placement of items in an ophthalmic device
WO2025119122	AECC BEIJING INST AERONAUTICAL MAT [CN]	Method for preparing submicron nb5si3 particle-reinforced nb-based refractory high-entropy alloy by laser/electron beam in-situ reaction
WO2025133522	C TEC CONSTELLIUM TECH CENTER [FR]	Method for manufacturing an aluminum alloy part
WO2025085343	BOEING CO [US]	Titanium-based alloy compositions, additively manufactured components that include the compositions, additive manufacturing systems that utilize the compositions, and methods of additively manufacturing additively manufactured components
WO2025128475	ALLNEX USA INC [US]	Radiation curable composition
WO2025080184	QUESTEK EUROPE AB [SE]	A tantalum-based alloy
WO2025104118	4D PIONEERS [FR]	Flame-retardant composition based on bio-based polycarbonate copolymer, for use in 3D printing
WO2025103732	HUNTSMAN INT LLC [US]	Thermoplastic polyurethane powder blend for additive manufacturing
WO2025082761	UNIV LIEGE [BE]	Polyoxazolidone derivatives and their use in medical devices
EP4534274	COMMISSARIAT ENERGIE ATOMIQUE [FR]; CENTRE NAT RECH SCIENT [FR]; ECOLE POLYTECH [FR]	A magnetic device configured to be installed on additive manufacturing apparatuses, enabling magnetically-assisted 3D printing of composite elements
EP4549150	CUBICURE GMBH [AT]; ALIGN TECHNOLOGY INC [US]	Resin composition for three-dimensional printing
WO2025134042	TSHWANE UNIV OF TECHNOLOGY [ZA]; CSIR [ZA]	Tial alloy produced by direct energy deposition

Nº PUBLICACIÓN	SOLICITANTE Y PAÍS DE ORIGEN	CONTENIDO TÉCNICO
EP4566819	XOLO GMBH [DE]	Naphthopyran photoswitchable photoinitiators for locally polymerizing a starting material by dual color photopolymerization
EP4570775	CENTRE REG INNOV TRANSF TECHN MAT TRAIT [FR]	Polymer binder and ceramic powder and polymer binder formulation for making ceramic parts by 3D printing process
EP4574426	SIKA TECH AG [CH]	A polymer material for use in a 3D printing process
EP4553104	AKADEMIA GORNICZO HUTNICZA IM STANISLAWA STASZICA W KRAKOWIE [PL]	Method for preparing homogeneous collagen suspension, use of homogeneous collagen suspension, method for preparing collagen-based hydrogel materials, method for preparing collagen film and/or layer and/or substrate for culture, method for preparing collagen print-outs, and methods for preparing porous collagen shapes
EP4549520	ARKEMA FRANCE [FR]	Flame retardant curable compositions
WO2025085293	UNIV DUKE [US]	Solvent free resorbable resin for 3D printing
WO2025080163	OBSHCHESTVO S OGRANICHENNOJ OTVETSTVENNOSTYU INSTITUT LEGKIKH MATERIALOV I TEKH [RU]	Material based on intermetallics of aluminium for additive technologies
WO2025099720	UNIV RAMOT [IL]	A shrinking and setting bioink
WO2025079029	TECH INNOVATION INSTITUTE – SOLE PROPRIETORSHIP LLC [AE]	High strength aluminium alloys containing silicon, copper, and boron for use in additive manufacturing
EP4549054	KRONES AG [DE]	Additive manufacturing of a component in the food industry
WO2025083411	ATOMIK AM LTD [GB]	Manufacturing method for making a part by means of ink-jetting and part obtained thereby
WO2025125465	GEORGS MARIENHUETTE HOLDING GMBH [DE]	Method for producing special steels and semifinished products and moulded parts based thereon
WO2025088201	MILTENYI BIOTEC BV & CO KG [DE]	Methods to improve 3D printing using two-color polymerization
WO2025111433	UNIV WAKE FOREST HEALTH SCIENCES [US]	Contrast markers for use in medical procedures
EP4541485	SIEMENS AG [DE]	System for producing of fine spherical metallic powder with electric arc melting a consumable electrode

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Dispositivos



Nº PUBLICACIÓN	SOLICITANTE Y PAÍS DE ORIGEN	CONTENIDO TÉCNICO
ES3021107	M TORRES DISENOS IND S A U [ES]	Proceso y sistema de reinicio de fabricación de piezas de fabricación aditiva
WO2025092751	GUANGZHOU HEYGEARS IMC INC [CN]	System and method for three-dimensional printing
WO2025090026	FERROCRTALIC D O O [SI]	Device and process for depowdering pre-sintered articles fabricated by selective binderjetting method
WO2025095800	CREATEC SP Z O O [PL]	A mixer for the preparation of ceramic mixtures for 3D printing and the method of their preparation
WO2025080996	NEOX PUBLIC BENEFIT LLC [US]	Additive manufacturing system and method
WO2025112419	SHANGHAI HANBANG UNITED 3D TECH CO LTD [CN]	Light beam attenuation unit and device, and 3D printer optical path element detection device
WO2025130197	PRISMLAB CHINA LTD [CN] PRISMLAB INFORMATION TECH LTD [CN]	Three-dimensional printing plate-changing transporting apparatus and plate-changing system
WO2025109677	NIPPON TELEGRAPH & TELEPHONE [JP]	Three-dimensional printer, three-dimensional printing method, and program
WO2025113577	ZHENGZHOU CHAOKUO ELECTRONIC TECH CO LTD [CN]	Melting assembly, melting assembly and heating structure for melting 3D printing consumable, and 3D printer
WO2025118769	SHENZHEN TUOZHU TECH CO LTD [CN]	3D printing platform and 3D printer
WO2025096176	L LIVERMORE NAT SECURITY LLC [US]	Systems and methods for electrical resistance diagnostic for conductivity monitoring in laser powder bed fusion
WO2025111573	QUADRATIC 3D INC [US]	Cartridge for 3D printing in a volume and methods and systems including same
WO2025107762	SHENZHEN CREALITY 3D TECH CO LTD [CN]	Photocuring 3D printing platform and printing method
WO2025107214	UNIV TSINGHUA [CN]	3D printing method for forming directional filament structures in situ
WO2025079055	MARZBAN SHIRKHARKOLAEI EHSAN [NL]; HODAEI AMIN [NL]	Solar energy-based 3D printing platform for the construction of extraterrestrial habitats
WO2025134863	SCREEN HOLDINGS CO LTD [JP]	Optical device and three-dimensional shaping device
WO2025088651	UNIV BOLOGNA ALMA MATER STUDIORUM [IT]	Three-dimensional printer and corresponding printing method
WO2025080394	3D SYSTEMS INC [US]	Apparatus and method for accurately leveling a build plate
WO2025087474	FRAUNHOFER GES FORSCHUNG [DE]	Method for removing supporting structures from an additively manufactured component, and machining unit for removing supporting structures
WO2025085332	3D SYSTEMS INC [US]	Three-dimensional printing system with resin vessel positioning system

Nº PUBLICACIÓN	SOLICITANTE Y PAÍS DE ORIGEN	CONTENIDO TÉCNICO
WO2025106285	3D SYSTEMS INC [US]	Phase change ink printing system utilizing a composite waveform
WO2025096920	UT BATTTELLE LLC [US]; LINCOLN GLOBAL INC [US]	Multi-agent motion control
WO2025118011	UNIV WIEN TECH [AT]	Method for producing a test specimen
EP4552822	VITO NV [BE]	A system and method for extrusion printing
WO2025132988	LAKE3D HOLDING B V [NL]	Method of printing a layer of a 3D object from a first material and a second material
EP4545275	SONOVA AG [CH]	Cartridge and method for producing an earpiece
EP4559679	INSOLUTION GROUP B V [NL]	A three-dimensional printing device
EP4545276	SIKA TECH AG [CH]	Nozzle for a device for layered construction of a component, device comprising such a nozzle and method for producing a component
WO2025111583	DIVERGENT TECH INC [US]	Waste metal powder passivation
WO2025096801	ADDITIVE TECH LLC [US]	Method and system for incorporating a melted metal drop ejecting device in a hybrid additive manufacturing system
WO2025090960	GENERATIONAL SYSTEMS LLC [US]	High-temperature low-friction extrusion system for metal additive manufacturing
WO2025082988	CENTRE NAT RECH SCIENT [FR]; UNIV DE LORRAINE [FR]; UNIV DE TECHNOLOGIE DE BELFORT MONTBELIARD [FR]; UNIV BOURGOGNE [FR]	Device for holding individual elementary components
WO2025099680	AE INTELLECTUAL PROPERTY LTD [CY]	3D printer with the ability to print composite plastics and plastic metal and plastic ceramics compounds
WO2025087506	UNIQUUM GMBH [AT]	3D building material printer
WO2025069318	FUJI CORP [JP]	Printing device and printing system
EP4563114	RIST ROLAND [DE]	Intraoral composite printer

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Productos



Nº PUBLICACIÓN	SOLICITANTE Y PAÍS DE ORIGEN	CONTENIDO TÉCNICO
WO2025125531	UNIV DE LORRAINE [FR]; CENTRE NAT RECH SCIENT [FR]	Heat sink device and method for producing a heat sink device
WO2025089835	ALDAVER INC [KR]	Hydrogel composition for 3D printing and method for fabricating artificial blood vessel using same
WO2025090798	LOCKHEED CORP [US]	Additively manufactured solar panel assemblies
WO2025095385	SAMSUNG LIFE PUBLIC WELFARE FOUNDATION [KR]	Porous three-dimensional meniscus scaffold and biodegradable medical device comprising same
WO2025093736	CAPEDEL HOLDING AS [NO]	Magnesium based cleaning device
EP4574317	SANDVIK COROMANT AB [SE]	A turning tool for metal cutting
EP4563927	UNIV EINDHOVEN TECH [NL]	Heat pipe
WO2025099062	ECOLE POLYTECHNIQUE FED LAUSANNE EPFL [CH]	Fluid engaging device with a vortex mitigating component
WO2025088275	SAFRAN AIRCRAFT ENGINES [FR]	Rolling bearing for an aircraft turbine engine
EP4567884	ULSAN NAT INST SCIENCE & TECH UNIST [KR]	Substrate for electrical substrate for electrical connection between electronic components and electronic device
WO2025117572	ALIGN TECHNOLOGY INC [US]	Laser markable resin compositions for orthodontic appliances
WO2025085589	CENTRE FIREARMS CO INC [US]	Suppression device for firearm
WO2025079760	BAOBAB HEALTHCARE INC [KR]	Artificial blood vessel anastomotic composition, artificial blood vessel using same, method for manufacturing artificial blood vessel, and anastomotic method
WO2025122630	MCCREIGHT BOBBY [US]	3D printed bolt receiver with side anchor surfaces
EP4531249	SIEMENS AG [DE]	Cover element for an end shield of an electric motor, and electric motor
EP4549049	ARKEMA FRANCE [FR]	Uv curable hybrid resins with improved green strength
WO2025085145	META PLATFORMS INC [US]	3D printing to form an optical lens with integrated electronics
WO2025131151	SCHAEFFLER TECHNOLOGIES AG [DE]	Seal assembly, method for producing same, and component of an electrochemical cell
WO2025119956	NORIMAT [FR]	Method for preparing a mould intended for sintering of preforms produced by 3D printing
WO2025095304	NEXWAVE INC [KR]	Wireless communication system filter
WO2025105628	UIF UNIV INDUSTRY FOUNDATION YONSEI UNIV [KR]	Method for manufacturing connector for sensing and stimulating multiple intracerebral neural signal through formation of liquid metal wiring on surface of living body

Nº PUBLICACIÓN	SOLICITANTE Y PAÍS DE ORIGEN	CONTENIDO TÉCNICO
WO2025095516	SEOUL NAT UNIV HOSPITAL [KR]	Method for optimizing percutaneous pulmonary artery valve insertion by using patient-specific model and in vitro simulation circulation through 3D printing
WO2025095041	FUKUDA METAL FOIL & POWDER CO LTD [JP]	Metal powder for additive manufacturing, and additively manufactured object
WO2025115978	MITSUBISHI CHEM CORP [JP]	Battery pack, method for manufacturing battery pack, and method for manufacturing recycled molded article
EP4538550	BOELLHOFF VERBINDUNGSTECHNIK GMBH [DE]	Component produced by additive manufacturing, component composite with the component, method for producing the component and connection method for producing the component composite
EP4552846	HAMILTON SUNDSTRAND CORP [US]	Lanced offset heat exchange fin pack design
WO2025098567	VDM METALS INT GMBH [DE]; SIEMENS ENERGY GLOBAL GMBH & CO KG [DE]	Method for manufacturing a metal component
WO2025097054	ALIGN TECHNOLOGY INC [US]	Devices and methods for positioning dental auxiliaries on teeth
WO2025109263	SAFRAN [FR]	Method for manufacturing a turbomachine component comprising a cellular structure
WO2025090084	PERIDOT PRINT LLC [US]	Coolant flow layer exchange-based heat management
WO2025120283	CIRCLE ANATOSCOPE INTUITIVE DESIGN [FR]	Method for manufacturing a removable partial dental prosthesis, and removable partial dental prosthesis
EP4563350	H2X ECOSYSTEMS [FR]; CENTRE NAT RECH SCIENT [FR]; UNIV RENNES [FR]; ECOLE NAT SUPERIEURE DE CHIMIE DE RENNES [FR]; INSTITUT NAT DES SCIENCES APPLIQUEES DE RENNES [FR]	Electrolyser with nickel alloy 3D printed electrode
EP4570501	GOODRICH LIGHTING SYSTEMS INC [US]	Systems and methods for integration of electronic circuit systems into an aircraft structure
EP4545210	GENERAL ELECTRIC TECHNOLOGY GMBH [CH]	Braze repair using metal coupon with porous region
EP4545303	HAMILTON SUNDSTRAND CORP [US]	Heat exchanger with internal cross flow fins
EP4542148	SIEMENS AG [DE]	Component with thermal insulation area
EP4545301	HAMILTON SUNDSTRAND CORP [US]	Heat exchanger and header construction
EP4566479	SCIALPI DESIGN S R L [IT]	Method for making a jewellery item
EP4549151	HAMILTON SUNDSTRAND CORP [US]	Heat exchanger with stiffening tube connectors
EP4541591	HEIDELBERGER DRUCKMASCH AG [DE]	Gripper for sheet-like printing material
EP4556229	GENERAL ELECTRIC DEUTSCHLAND HOLDING GMBH [DE]	Electric machine coil configuration and electric machines having the same

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Procesamiento de Datos



Nº PUBLICACIÓN	SOLICITANTE Y PAÍS DE ORIGEN	CONTENIDO TÉCNICO
WO2025105958	ULTIMAKER BV [NL]	Additive manufacturing device using in-line print bed level measurement
EP4545219	ROLLS ROYCE PLC [GB]	Method of operating a laser additive manufacturing machine
EP4545278	RTX CORP [US]	Method for additively manufactured process-equivalent test specimens
WO2025082688	SIEMENS ENERGY GLOBAL GMBH & CO KG [DE]	Method of optimizing a powder-bed-based additive manufacturing process and related system
WO2025115539	mitsubishi heavy ind ltd [JP]	Three-dimensional additive manufacturing evaluation system and three-dimensional additive manufacturing evaluation method
EP4549058	GEN ELECTRIC [US]	Multi-modality build-to-build and fleet-level variability analytics and adjustment of additive machine, process health, and build quality
WO2025117338	L LIVERMORE NAT SECURITY LLC [US]	Spatio-temporal monitoring of photopolymerization progression and related mechanisms
WO2025095382	SAMYOUNG MACHINERY CO LTD [KR]	Large-area 3D printing quality diagnosis apparatus, diagnosis method, and 3D printer employing same
WO2025133004	LAKE3D HOLDING B V [NL]	A method of 3D printing
WO2025128008	SLOVENSKA TECHNICKA UNIVERZITA V BRATISLAVE [SK]	Multifunctional technological effector of robot for hybrid additive manufacturing
EP4574313	SIEMENS AG [DE]	Method to operate an additive manufacturing system, additive manufacturing system, control device, computer program and storage medium
WO2025090709	PENN STATE RES FOUND [US]	Ultrasonic integrated nozzle for in-process quality monitoring of 3D printing processes and related processes and apparatuses
WO2025122507	ALIGN TECHNOLOGY INC [US]	Additively manufactured objects with accessible supports and associated methods
WO2025077104	BMF NANO MATERIAL TECH CO LTD [CN]	Printing method for photo-curing 3D printing device, device, and storage medium
WO2025128840	CRAITOR INC [US]	3D portable document file for a system for manufacturing a component
WO2025118722	SHENZHEN CREALITY 3D TECH CO LTD [CN]	Strain sensor, print head, and 3D printer
WO2025108265	SHENZHEN CREALITY 3D TECH CO LTD [CN]	Extrusion device and 3D printer
WO2025125863	ASADI MOHYEDIN [IR]; REZVANI AZAR [IR]; REZVANI KHATEREH [IR]; HAJISEYEDMOUSA SEYEDEHPARTO [IR]	Integrated system 3D printing services equipped with artificial intelligence

Nº PUBLICACIÓN	SOLICITANTE Y PAÍS DE ORIGEN	CONTENIDO TÉCNICO
EP4545220	RTX CORP [US]	Location-specific probabilistic approach for prediction of defect formation in additive manufacturing
WO2025128092	PERIDOT PRINT LLC [US]	Virtually calibrating a 3D printer
WO2025112669	SHENZHEN CREALITY 3D TECH CO LTD [CN]	Method for resuming printing from power failure, 3D printer, and computer-readable storage medium
WO2025123776	SHANGHAI MECHANIZED CONSTR GROUP CO LTD [CN]	3D printing forming method for large-area special-shaped formwork
WO2025103037	SHENZHEN TUOZHU TECH CO LTD [CN]	3D printer, method for measuring inherent frequency, and electronic device
EP4545224	GEN ELECTRIC [US]	In-situ monitoring of additively manufactured object using an eddy current array probe
EP4549132	XEROX CORP [US]	Techniques to process three-dimensional object files while maintaining privacy
WO2025107804	SHENZHEN CREALITY 3D TECH CO LTD [CN]	Model printing method based on 3D printing device, electronic device, and storage medium
WO2025123514	SHENZHEN CHENGDAQI TECH CO LTD [CN]	Consumable switching control method and apparatus, consumable loading system, and 3D printer
WO2025077526	PRISMLAB CHINA LTD [CN]	Robotic arm for 3D printing, robotic arm control method, and readable storage medium
WO2025139220	SHENZHEN ANKER SMART TECH CO LTD [CN]	3D component printing method, and 3D component and 3D printer
WO2025138152	SHANGHAITECH UNIV [CN]	Micro-nanoscale additive manufacturing method and patterning method
WO2025143303	GRAPHY INC [KR]	Apparatus for removing residual resin from 3D-printed matter
WO2025085778	APRECIA PHARMACEUTICALS LLC [US]	System and method for additive manufacturing using process analytical technology
WO2025133018	LAKE3D HOLDING B V [NL]	Material jetting
WO2025113051	GUANGDONG JINGYUN INTELLIGENT TECH CO LTD [CN]	Internally-pressurized cavity structure of sports gear, and manufacturing method therefor
WO2025089987	ZRAYCHENKO MIKHAIL MIKHAILOVICH [RU]; ZRAYCHENKO MIKHAIL VIKTOROVICH [RU]	Device for monitoring and controlling a polymer composite material melt
WO2025075647	PERIDOT PRINT LLC [US]	Predicting quality of sintered parts by means of a machine learning model
WO2025139072	PRISMLAB CHINA LTD [CN]	Sorting system for three-dimensional printing
WO2025124865	PANTEC SCHWEIZ AG RUGGELL ZWEIGNIEDERLASSUNG ERLÉN [CH]	Printing press
WO2025139071	PRISMLAB CHINA LTD [CN]	3D printing secondary curing furnace and control method therefor, and electronic device
WO2025081014	UNIV COLORADO REGENTS [US]	Digital multiphase composites and methods for manufacturing the same
WO2025095191	PENSEES INC [KR]	Nozzle calibration system and nozzle calibration method

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EP4549057	ECOLE NAT SUPERIEURE DES MINES DE PARIS [FR]; ASSOCIATION POUR LA RECH ET LE DEVELOPPEMENT DES METHODES ET PROCESSUS INDUSTRIELS ARMINES [FR]; JPB SYSTEME [FR]	Indirect additive manufacturing plant and method
WO2025072924	UNIV CARNEGIE MELLON [US]	System and method for manufacturing
EP4566797	EOS GMBH ELECTRO OPTICAL SYSTEMS [DE]	Method and control device for controlling a radiation in a production method for additive manufacturing of objects
WO2025139603	GUANGZHOU HEYGEARS IMC INC [CN]	Method for manufacturing target object, determination apparatus, computer-readable storage medium, and electronic device
EP4537959	COMMISSARIAT ENERGIE ATOMIQUE [FR]	Device for detecting a defect during the additive manufacturing of a part
WO2025110219	EXTRABOLD INC [JP]	Machine tool device
EP4552829	HANS WEBER MASCHF GMBH [DE]	Method for controlling and/or regulating the operation of a production device for extrusion-based production of a three-dimensional component
WO2025077781	HANKAIS I INTELLIGENT TECH CO LTD GUIZHOU [CN]	Method and apparatus for planning non-planar printing path, and storage medium and device
EP4538022	DEUTSCH ZENTR LUFT & RAUMFAHRT [DE]	Method for creating a local, dynamic and/or global output characteristic and device and installation for same



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