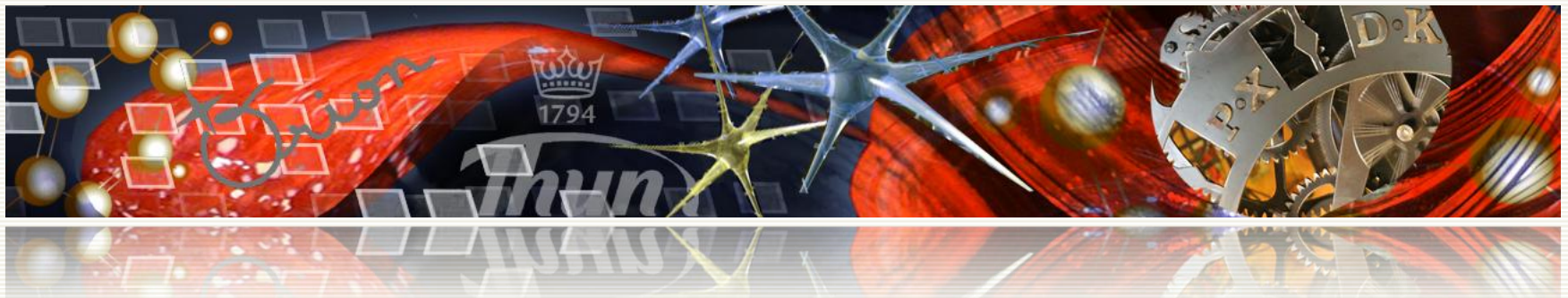




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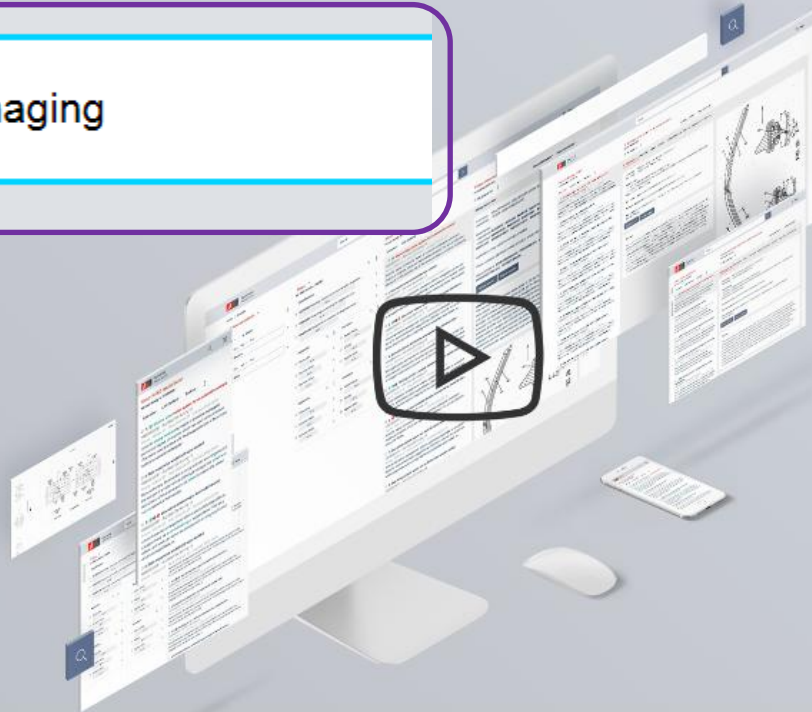


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- 1. **MAGNETIC PARTICLE IMAGING**
 US2018017640A1 • GOODWILL PATRICK W [US]
Earliest priority: 2016-07-12 • Earliest publication: 2018-01-18
 A **Magnetic Particle Imaging (MPI)** system with a magnet configured to generate a **magnetic field** having a field free line, the system including at least one shim magnet configured to modify the **magnetic field** in a manner
- 2. **Steel pipe magnetic powder flow detection imaging detection...**
 CN107764894A • BAOSHAN IRON & STEEL
Earliest priority: 2016-08-22 • Earliest publication: 2018-03-06
 The invention relates to a steel pipe **magnetic powder flow detection imaging detection system** and a steel pipe **magnetic powder flow detection imaging detection method**. The steel pipe **magnetic powder flow detection**
- 3. **COIL DEVICE FOR MAGNETIC PARTICLE IMAGING AND...**
 JP2017086778A • MITSUBISHI ELECTRIC CORP
Earliest priority: 2015-11-17 • Earliest publication: 2017-05-25
 PROBLEM TO BE SOLVED: To provide a coil device for **magnetic particle imaging** which, without extremely enlarging the device, scans a zero **magnetic field region** in a subject in a direction perpendicular to a coil axis
- 4. **Particle Populations and Assays Having Varying Amounts o...**
 US2014021437A1 • BERNARD BRUCE JUNG



Query language: All ▾

AND ▾

+ Field

AND ▾ + Field x

Title ▾ All ▾ → Group

x

Title or abstract ▾ All ▾ → Group

x

OR ▾ + Field x

Publication number ▾ Any ▾ → Group

x

Application number ▾ Any ▾ → Group

x

Priority number ▾ Any ▾ → Group

x

Query language: All ▾

Publication date ▾ = ▾ → Group

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- IPC details
- CPC main groups
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- Applicants
- Inventors

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- 1. **MAGNETIC PARTICLE IMAGING**
US2018017640A1 • GOODWILL PATRICK W [US]
Earliest priority: 2016-07-12 • Earliest publication: 2018-01-18
A **Magnetic Particle Imaging** (MPI) system with a magnet configured to generate a **magnetic** field having a field free line, the system including at least one shim magnet configured to modify the **magnetic** field in a manne...
- 2. **Steel pipe magnetic powder flaw detection imaging detecti...**
CN107764894A • BAOSHAN IRON & STEEL
Earliest priority: 2016-08-22 • Earliest publication: 2018-03-06
The invention relates to a steel pipe **magnetic** powder flaw detection **imaging** detection system and a steel pipe **magnetic** powder flaw detection **imaging** detection method. The steel pipe **magnetic** powder flaw detection...
- 3. **COIL DEVICE FOR MAGNETIC PARTICLE IMAGING AN...**
JP2017086778A • MITSUBISHI ELECTRIC CORP
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- 4. **Particle Populations and Assays Having Varying Amounts...**
US2011204874A1 • BERNARD BRUCE ILSI

Family Publication

IPC main groups

Countries (publication)

- US (85566)
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IPC details

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- A61K39/395 (1715)
- A61P43/00 (1635)
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- G01N33/53 (1250)

Applicants

- AMGEN RES MUNICH GMBH (29)
- AGENSYS INC (27)
- AMGEN RES (MUNICH) GMBH (26)
- PFIZER (25)
- UNIV CALIFORNIA (25)
- ATYR PHARMA INC (22)
- GHAYUR TARIQ (22)
- GOLDENBERG DAVID M (22)

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Languages (publication)

Publication date (publication)

Priority date

IPC main groups

IPC details

CPC main groups

CPC details

Applicants

Inventors

- 1. **Cancer cell targeting using nanoparticles**
EP2436376A1 • BIND BIOSCIENCES INC [US]
Earliest priority: 2007-03-30 • Earliest publication: 2008-10-09
The present invention generally relates to polymers and macromolecules, in particular, to polymers useful in particles such as nanoparticles. One aspect of the invention is directed to a method of developing
- 2. **Therapeutic nanoparticles comprising a therapeutic agent...**
AU2017218767A1 • PFIZER
Earliest priority: 2016-02-10 • Earliest publication: 2017-08-17
The present disclosure generally relates to nanoparticles comprising an antibody, such as an anti-PD-1 antibody. Other aspects include methods of making and using such nanoparticles. In an embodiment, the
- 3. **Anti-CXCR4 antibodies and antibody-drug conjugates**
AU2014298040A1 • PFIZER
Earliest priority: 2013-08-02 • Earliest publication: 2015-02-05
The present invention provides antibodies and related molecules that bind to chemokine receptor 4 (CXCR4). The invention further provides



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Filters: Countries (publication): EP OR AU X Publication date (publication): 2007-01-01 — 2018-12-31 X IPC details: A61K39/395 X Applicants: PFIZER X

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- 1. Cancer cell targeting using nanoparticles EP2436376A1 • BIND BIOSCIENCES INC [US] Earliest priority: 2007-03-30 • Earliest publication: 2008-10-09 The present invention generally relates to polymers and macromolecules, in particular, to polymers useful in particles such as nanoparticles. One aspect of the invention is directed to a method of developing nanoparticles...
- 2. Therapeutic nanoparticles comprising a therapeutic agent a... AU2017218767A1 • PFIZER Earliest priority: 2016-02-10 • Earliest publication: 2017-08-17 The present disclosure generally relates to nanoparticles comprising an antibody, such as an anti-PD-1 antibody. Other aspects include methods of making and using such nanoparticles. In an embodiment, the nanoparticle...
- 3. Anti-CXCR4 antibodies and antibody-drug conjugates AU2014298040A1 • PFIZER Earliest priority: 2013-08-02 • Earliest publication: 2015-02-05 The present invention provides antibodies and related molecules that bind to chemokine receptor 4 (CXCR4). The invention further provides antibody-drug conjugates comprising such antibodies, antibody encoding...
- 4. PD-1 / PD-L1 inhibitors for the treatment of cancer AU2016222928A1 • MERCK PATENT GMBH

EP2436376A1 Cancer cell targeting using nanoparticles

Bibliographic data

Register

Inventors: ALI MIR MUKKARAM [US], ZALE STEPHEN E [US] Applicants: BIND BIOSCIENCES INC [US]

Classification: IPC: A61K31/337; A61K9/14; A61K9/48; A61K9/51; A61P35/00; B82B1/00

CPC: default: A61K31/136; A61K31/197; A61K31/337; A61K31/704; A61K47/542; A61K47/6935; A61K47/6937; A61K9/5153; A61K9/5192; B82Y5/00; G07C275/16; G07C275/24

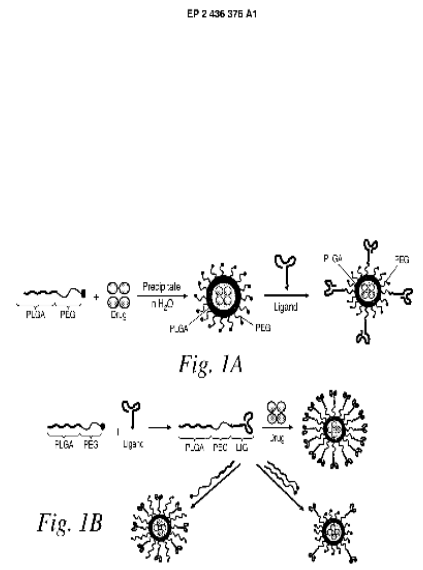
Application number: EP11186037A Global Dossier

Priority numbers: US2007007927 20070330

Publication date: 2012-01-04

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- 1.METHOD AND APPARATUS FOR IMPLEMENTING A SERVICE FL...**
WO2016188701A1 • NOKIA SOLUTIONS & NETWORKS OY [FI]
Earliest priority: 2015-05-26 • Earliest publication: 2016-12-01
that the network node supports interworking between a first radio-access **technology** and a second radio- access **technology**. The method
- 2.METHOD AND APPARATUS FOR IMPLEMENTING INTER-RADIO-...**
WO2016118117A1 • CHANDRAMOULI DEVAKI [US]
Earliest priority: 2015-01-20 • Earliest publication: 2016-07-28
..... -access-**technology** for a service. The method may also include entering a coverage area of the at least one preferred radio-access-**technology**. The method may also include detecting that the service corresponding to the at least one preferred radio-access-
- 3.RADIO FRAME TRANSMISSION METHOD, BASE STATION AND U...**
WO2017101046A1 • HUAWEI TECH CO LTD [CN]
Earliest priority: 2015-12-16 • Earliest publication: 2017-06-22
Disclosed is a radio frame transmission method, comprising: sending, to a user equipment, a fifth generation (5G) downlink subframe, which bears first data, of the 5G radio access **technology** (RAT); and receiving an LTE uplink subframe of long term evolution... of the
- 4.BASE STATION, DATA TRANSMISSION METHOD AND APPARATUS**
WO2017219205A1 • BEIJING XIAOMI MOBILE SOFTWARE CO LTD [CN]
Earliest priority: 2016-06-20 • Earliest publication: 2016-11-16
..... mobile communication. The base station is deployed in a radio access network constructed according to a first mobile communication **technology**... the first mobile communication **technology** standard, and the user plane entity sends the user plane data

Query language: All ▾

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Title ▾ Any ▾ → Group

5G x

All text fields or names ▾ Any ▾ → Group

technology x

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- 1. 5G network communication device**
CN108173562A • SHENYANG INST ENGINEERING
Earliest priority: 2017-12-19 • Earliest publication: 2018-06-15
..... dense and ultra-dense networking **technology** block; wherein the lower ring body and an upper ring body are both semi... of the keys for communication nodes to achieve two-way communication, and is also the key **technology** for high throughput and low latency
- 2. 5G Network System**
KR20170052446A • ELECTRONICS & TELECOMMUNICATIONS RES I...
Earliest priority: 2015-11-03 • Earliest publication: 2017-05-12
The present invention relates to a 5G network system capable of effectively providing a communication service through a high-level architecture that integrates a 4G wireless network, a wired network, a cloud and a service evolved in various fields.
- 3. 5G network architecture based on edge calculates and microtomy**
CN207234831U • TIANYUAN RUIXIN COMMUNICATION TECH CO LTD
Earliest priority: 2017-09-18 • Earliest publication: 2018-04-13
The utility model relates to a 5G network architecture based on edge calculates and microtomy, includes data transmission framework and control mechanism, the data transmission framework calculates the layer including edge access layer, local stratum
- 4. 5G tunable antenna**
CN107887711A • XUNCHUANG TIANJIN ELECTRONIC CO LTD
Earliest priority: 2017-09-20 • Earliest publication: 2018-04-06
invention adopted, the connection of a mobile terminal and a base station is realized through the multi-antenna **technology**; a
- 5. 5G/LTE DUAL CONNECTIVITY**



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AND

Title Any

5G x

All text fields or names Any

technology x

OR x

All text fields or names Any

multiple input multiple output x

All text fields or names Any

MIMO x

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- 1. CHANNEL STATE INFORMATION FRAMEWORK DESIGN FOR 5G...
US2018091272A1 • AT & T IP | LP [US]
Earliest priority: 2016-09-29 • Earliest publication: 2018-03-29
A user equipment can be configured to decompose a multiple input multiple output (MIMO) channel into multiple domains, measure the
- 2. Large-scale antenna system based on 5G network
CN106374983A • SICHUAN TIANYI COMHEART TELECOM CO LTD
Earliest priority: 2016-08-26 • Earliest publication: 2017-02-01
The invention discloses a large-scale antenna system based on a 5G network. The large-scale antenna system comprises multiple communication transceiving channels, multiple directional couplers, a calibration network, a fiber communication network, multiple micro
- 3. 5G network communication device
CN108173562A • SHENYANG INST ENGINEERING
Earliest priority: 2017-12-19 • Earliest publication: 2018-06-15
..... dense and ultra-dense networking technology block; wherein the lower ring body and an upper ring body are both semi... of the keys for communication nodes to achieve two-way communication, and is also the key technology for high throughput and low latency
- 4. Copper-Assisted Fifth Generation (5G) Wireless Access to Indoor
US2016294441A1 • FUTUREWEI TECHNOLOGIES INC [US]
Earliest priority: 2015-03-30 • Earliest publication: 2016-10-06
A network element including a relay station disposed outside a structure, wherein the relay station is configured to convert a radio frequency signal received from a base station into baseband signals and to frame the baseband signals into data packets, and a
- 5. Multiple dimension modulation in 5G systems



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1. CHANNEL STATE INFORMATION FRAMEWORK DESIGN FOR 5G...
 US2018091272A1 • AT & T IP LLP [US]
 Earliest priority: 2016-09-29 • Earliest publication: 2018-03-29
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3. 5G network communication device
 CN108173562A • SHENYANG INST ENGINEERING
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 US2016294441A1 • FUTUREWEI TECHNOLOGIES INC [US]
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 A network element including a relay station disposed outside a structure, wherein the relay station is configured to convert a radio frequency signal received from a base station into baseband signals and to frame the baseband signals into data packets, and a

5. Multiple dimension modulation in 5G systems

☆ US2018091272A1 CHANNEL STATE INFORMATION FRAMEWORK DESIGN FOR 5G MULTIPLE INPUT MULTIPLE OUTPUT TRANSMISSIONS

Also published as Patent Translate

Bibliographic data Description Claims Drawings Original document Citations Legal status Patent family

Inventors: GHOSH ARUNABHA [US], WANG XIAOYI [US]
Applicants: AT & T IP LLP [US]

Classification:
IPC: H04B7/0417; H04B7/06; H04L5/00

CPC: default: H04B7/0417; H04B7/0645; H04B7/0626; H04L5/0048

Application number: US201615376377A Global Dossier

Priority numbers: US201662401858 20160929

Publication date: 2018-03-29

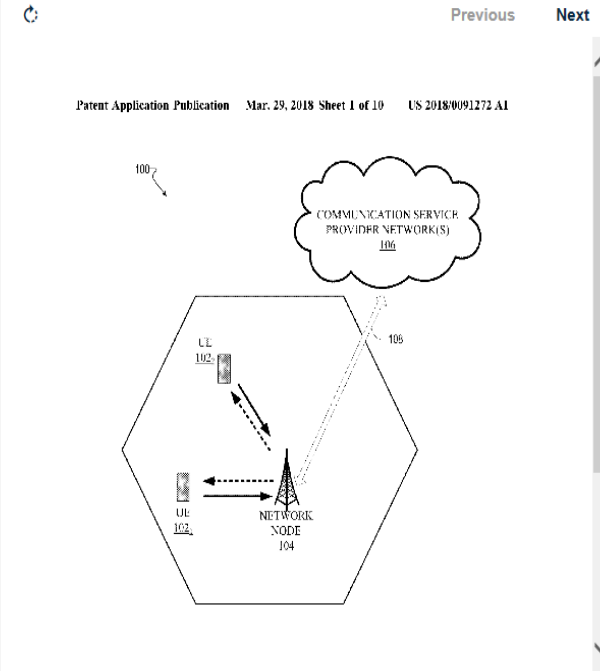
Filing date: 2016-12-12

Priority date: 2016-09-29

Published as: US2018091272A1; WO2018063894A1

Abstract:

A user equipment can be configured to decompose a multiple input multiple output (MIMO) channel into multiple domains, measure the channel state






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Classification symbol	Title and description	
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<input type="checkbox"/> H04	ELECTRIC COMMUNICATION TECHNIQUE	<input type="button" value="🔍"/>
<input type="checkbox"/> H04B	TRANSMISSION (transmission systems for measured values, control or similar signals G08C ; coding, decoding, code conversion, in general H03M ; broadcast communication H04H ; multiplex systems H04J ; secret communication H04K ; transmission of digital information H04L)	<input type="button" value="S"/> <input type="button" value="D"/> <input type="button" value="🔍"/> <input type="button" value="▲"/>
▲ <input type="checkbox"/> H04B 7/00	Radio transmission systems, i.e. using radiation field (H04B 10/00 , H04B 15/00 take precedence)	<input type="button" value="D"/>
<input type="checkbox"/> H04B 7/02	• Diversity systems; Multi-antenna system, i.e. transmission or reception using multiple antennas (RAKE receivers H04B 1/7115)	<input type="button" value="D"/> <input type="button" value="▲"/>
<input type="checkbox"/> H04B 7/04	•• using two or more spaced independent antennas	<input type="button" value="D"/>
<input checked="" type="checkbox"/> H04B 7/0413	••• MIMO systems	<input type="button" value="D"/> <input type="button" value="▲"/>
<input checked="" type="checkbox"/> H04B 7/0417	•••• Feedback systems	<input type="button" value="D"/>
<input checked="" type="checkbox"/> H04B 7/0421	••••• {utilizing implicit feedback, e.g. steered pilot signals}	<input type="button" value="D"/>

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- 1. BEAMFORMING COMMON CHANNELS IN 5G NEW RADIO WO2017136732A1 • DOCOMO INNOVATIONS INC [US]
2. DISTRIBUTED FD-MIMO: CELLULAR EVOLUTION FOR 5G... WO2018169357A1 • SAMSUNG ELECTRONICS CO LTD [KR]
3. LOW COMPLEXITY MU-MIMO PAIRING AND SCHEDULI... EP3379884A1 • MITSUBISHI ELECTRIC CORP [JP]
4. SECURED HYBRID CODED MODULATION FOR 5G - AN... US2018269972A1 • NEC LAB AMERICA INC [US]



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Title or abstract Any Group

printer*

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OR + Field x

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3D

x

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three dimensional

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1. THREE-DIMENSIONAL PRINTER

WO2018194652A1 • HEWLETT PACKARD DEVELOPMENT C...
Earliest priority: 2017-04-21 • Earliest publication: 2018-10-25

A three-dimensional (3D) printer includes a selective solidification module to selectively solidify portions of successive layers of a build material on a build platform. The 3D printer also includes a cartridge receiver to hold a

2. 3D (three -dimensional) printer

CN206598539U • JIANGXI INSTITUTE OF FASHION TECH
Earliest priority: 2017-01-23 • Earliest publication: 2017-10-31

The utility model relates to a printer technical field, concretely relates to 3D (three -dimensional) printer, include: the 3D (three... that 3D product that the 3D (three -dimensional) printer body was printed out exposes outside or in

3. 3D (three -dimensional) printer

CN205075343U • GUANGZHOU CHUANGJIA BUILDING MOD...
Earliest priority: 2015-08-19 • Earliest publication: 2016-03-09

The utility model discloses a 3D (three -dimensional) printer, include that 3D beats printer head, still include hollow rack, be... (three -dimensional) printer to can realize the remote control to 3D (three -dimensional) printer,

4. 3D (three -dimensional) printer

CN206484904U • BEIJING DIJIA MEDICAL EQUIPMENT CO L...
Earliest priority: 2017-02-23 • Earliest publication: 2017-09-12



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1. THREE-DIMENSIONAL PRINTER

WO2018194652A1 • HEWLETT PACKARD DEVELOPMENT C...

Earliest priority: 2017-04-21 • Earliest publication: 2018-10-25

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CN206598539U • JIANGXI INSTITUTE OF FASHION TECH

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3. 3D (three -dimensional) printer

CN206484904U • BEIJING DIJIA MEDICAL EQUIPMENT CO L...

Earliest priority: 2017-02-23 • Earliest publication: 2017-09-12

The embodiment of the utility model provides a 3D (three -dimensional) printer, include: printer main part and agitating unit, agitating unit install in in the printer main part, just agitating unit's agitator stretches into holding in

4. THREE-DIMENSIONAL (3D) PRINTER MODULES

WO2018194624A1 • HEWLETT PACKARD DEVELOPMENT C...

Earliest priority: 2017-04-20 • Earliest publication: 2018-10-25



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The present invention relates to a **three dimensional printer** for melting and discharging a raw filament to form a **three-dimensional shape** and, more specifically, to a **three dimensional printer**, comprising: a driving unit havin

78. **3D (three -dimensional) printer**

CN207657188U • SHENZHEN BKL TECH CO LTD

Earliest priority: 2017-09-14 • Earliest publication: 2018-07-27

The utility model relates to a **3D (three -dimensional) printer**, the base, be fixed in the vertical drive device of

79. **THREE DIMENSIONAL PRINTER APPARATUS**

WO2018132157A2 • ESSENTIUM MAT LLC [US]

Earliest priority: 2016-11-03 • Earliest publication: 2018-07-19

A **three-dimensional** printing apparatus for manufacturing a **three-dimensional** object includes a controller comprising a signal generator and a **three-dimensional printer**. The **three-dimensional printer** includes a print

80. **3D (three -dimensional) printer**

CN206690550U • ZHEJIANG FURUI 3D TECH CO LTD

Earliest priority: 2017-04-25 • Earliest publication: 2017-12-01

The utility model discloses a **3D (three -dimensional) printer**, including X axle subassembly, two Y axle subassemblies, two Z axle



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Applicants

↑ ↓	↑ ↓	↑ ↓
<input checked="" type="checkbox"/>	HEWLETT PACKARD DEVELOPMENT CO	(38)
<input checked="" type="checkbox"/>	HEWLETT-PACKARD DEV COMPANY L P	(33)
<input checked="" type="checkbox"/>	XEROX CORP	(30)
<input type="checkbox"/>	KINPO ELECT INC	(26)
<input type="checkbox"/>	XYZPRINTING INC	(26)
<input type="checkbox"/>	BOSCH GMBH ROBERT	(14)
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- 1. **THREE-DIMENSIONAL PRINTER**
WO2018194652A1 • HEWLETT PACKARD DEVELOPMENT CO [US]
Earliest priority: 2017-04-21 • Earliest publication: 2018-10-25
A **three-dimensional (3D) printer** includes a selective solidification module to selectively solidify portions of successive layers of a build material on a build platform. The **3D printer** also includes a cartridge receiver to hold a removable material cartridge that accepts material from the **3D printer** and makes material available to the **3D printer** for printing of the **3D**
- 2. **THREE-DIMENSIONAL (3D) PRINTER MODULES**
WO2018194624A1 • HEWLETT PACKARD DEVELOPMENT CO [US]
Earliest priority: 2017-04-20 • Earliest publication: 2018-10-25
In some examples, a service module of a **three-dimensional (3D) printer** can include a housing, a web to clean a print head of the **3D printer**, where the web is housed by the housing, and where the service module is removably attached to the **3D printer**, and a shield to shield the web. ...
- 3. **THREE-DIMENSIONAL PRINTING AND THREE-DIMENSIONAL PRINTERS**
WO2018005439A1 • VELO3D INC [US]
Earliest priority: 2016-06-29 • Earliest publication: 2018-01-03
The present disclosure provides **three-dimensional (3D)** printing processes, apparatuses, software, and systems for the production of at least one desired **3D** object. The **3D printer** system (e.g., comprising a processing chamber, build module, or an unpacking station) described herein may retain a desired (e.g., inert) atmosphere around the material bed and/or
- 4. **THREE-DIMENSIONAL (3D) PRINTING**
WO2017188967A1 • HEWLETT-PACKARD DEV COMPANY L P [US]
Earliest priority: 2016-04-29 • Earliest publication: 2017-11-02
In an example implementation, a method of operating a **three-dimensional (3D)** printing system includes forming a fused **3D** object in the printing tray of a **3D printer** and vibrating the tray to separate unfused material from the fused **3D** object. ...
- 5. **GAS FLOW IN THREE-DIMENSIONAL PRINTING**
WO2018128695A2 • VELO3D INC [US]
Earliest priority: 2016-11-07 • Earliest publication: 2018-05-10
The present disclosure provides **three-dimensional (3D)** printing processes, apparatuses, software, and systems for controlling and/or treating gas borne debris in an atmosphere of a **3D printer**.
- 6. **PREHEAT THREE-DIMENSIONAL (3D) PRINTER BUILD MATERIAL**
WO2018194623A1 • HEWLETT PACKARD DEVELOPMENT CO [US]
Earliest priority: 2017-04-20 • Earliest publication: 2018-10-25
In some examples, preheat **three-dimensional (3D) printer** build material can include a heating plate of a **3D printer** to... the **3D printer**, and a heater-spreader carriage of the **3D printer** to preheat the build material from above the ...



ta any "printer*" AND (ta any "3D" OR ta all "three dimensional") AND pd >= "2017"



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☆ WO2018194652A1 THREE-DIMENSIONAL PRINTER

Bibliographic data

Description

Claims

Drawings

Original document

Citations

Legal status

Patent family

1. THREE-DIMENSIONAL PRINTER
 WO2018194652A1 • HEWLETT PACKARD DEVELOPMENT C...
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 A three-dimensional (3D) printer includes a selective solidification module to selectively solidify portions of successive layers of a build material on a build platform. The 3D printer also includes a cartridge receiver to hold a

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 In some examples, a service module of a three-dimensional (3D) printer can include a housing, a web to clean a print head of the 3D printer, where the web is housed by the housing, and where the service module is removably

3. THREE-DIMENSIONAL (3D) PRINTING
 WO2017188967A1 • HEWLETT-PACKARD DEV COMPANY L...
Earliest priority: 2016-04-29 • Earliest publication: 2017-11-02
 In an example implementation, a method of operating a three-dimensional (3D) printing system includes forming a fused 3D object in the printing tray

Register ↗

Inventors: ENGLISH KRIS M [US], OTIS DAVID [US], ROMAN JUSTIN M [US], SCHALK WESLEY R [US], SWIER KEVIN E [US]
Applicants: HEWLETT PACKARD DEVELOPMENT CO [US]

Classification:
 IPC: **B29C64/153; B29C64/321; B33Y40/00**
 CPC: default: **B29C64/153; B29C64/321; B33Y40/00**

Application number: US2017028829W **Global Dossier** ↗

Priority numbers: US2017028829 20170421

Publication date: 2018-10-25
Filing date: 2017-04-21

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WO 2018/194652

PCF/L/2017/028829

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In an example implementation, a method of operating a three-dimensional (3D) printing system includes forming a fused 3D object in the printing tray of a 3D printer and vibrating the tray to separate unfused material from the

4. PREHEAT THREE-DIMENSIONAL (3D) PRINTER BUILD... WO2018194623A1 • HEWLETT PACKARD DEVELOPMENT C... Earliest priority: 2017-04-20 • Earliest publication: 2018-10-25

WO2018194652A1 THREE-DIMENSIONAL PRINTER

Patent Translate

Bibliographic data Description Claims Drawings Original document Citations Legal status Patent family

[0001] THREE-DIMENSIONAL PRINTER [0002] BACKGROUND [0003] [0001] Three-dimensional (3D) printing may produce a 3D object. In particular, a 3D printer may add successive layers of material under computer control to produce the 3D object. [0004] DESCRIPTION OF THE DRAWINGS [0005] [0002] Certain examples are described in the following detailed description and in reference to the drawings, in which: [0006] [0003] Fig. 1 is a block diagram of a 3D printer in accordance with examples of the present techniques; [0007] [0004] Fig. 2 is a block diagram of a 3D printer in accordance with examples of the present techniques; [0008] [0005] Fig. 3 is a block diagram of a 3D printer in accordance with examples of the present techniques;

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WO2018194652A1 THREE-DIMENSIONAL PRINTER

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Bibliographic data Description Claims Drawings Original document Citations Legal status Patent family

Original claims Claims tree

1. CLAIMS

What is claimed is:

1. A three-dimensional (3D) printer comprising: a selective solidification module to selectively solidify portions of successive layers of a build material on a build platform; and a cartridge receiver to hold a removable material cartridge to accept material into the removable material cartridge from the 3D printer and to make available material from the removable material cartridge for the 3D printer to print the 3D object.

The 3D printer of claim 1, comprising a removable build unit comprising a build enclosure and the build platform, wherein the removable material cartridge comprises an enclosure to contain the material, wherein the cartridge receiver comprises a cavity, receptacle, slot, or sleeve, or any

Previous Next WO 2018/194652 PCT/US2017/02829 1/7 3D Printer 102 Selective Solidification Module 104 Receiver 106



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1. THREE-DIMENSIONAL PRINTER WO2018194652A1 • HEWLETT PACKARD DEVELOPMENT C... Earliest priority: 2017-04-21 • Earliest publication: 2018-10-25

A three-dimensional (3D) printer includes a selective solidification module to selectively solidify portions of successive layers of a build material on a build platform. The 3D printer also includes a cartridge receiver to hold a

2. THREE-DIMENSIONAL (3D) PRINTER MODULES WO2018194624A1 • HEWLETT PACKARD DEVELOPMENT C... Earliest priority: 2017-04-20 • Earliest publication: 2018-10-25

In some examples, a service module of a three-dimensional (3D) printer can include a housing, a web to clean a print head of the 3D printer, where the web is housed by the housing, and where the service module is removably

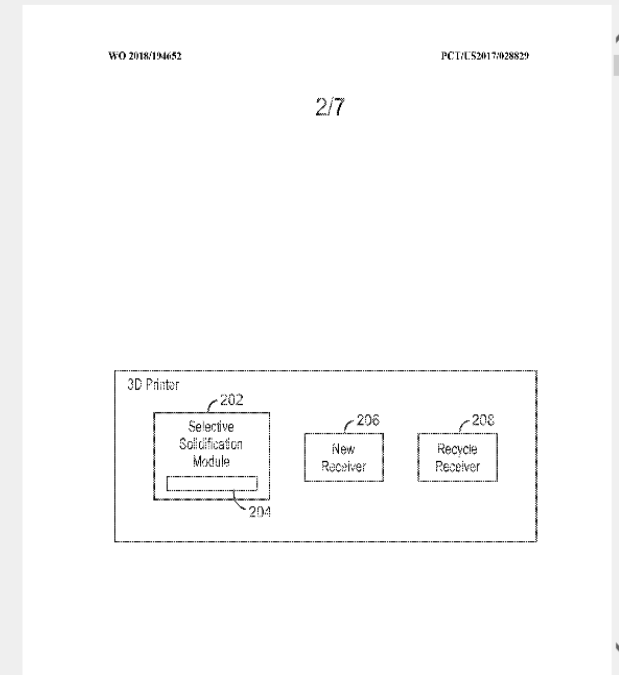
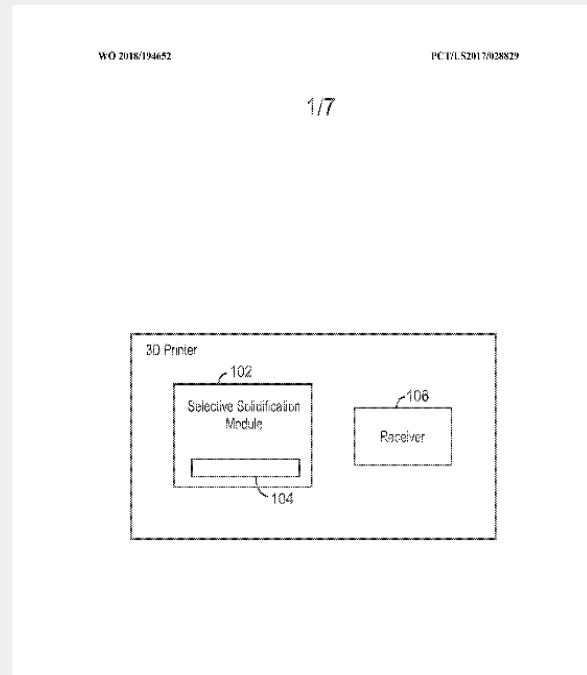
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Bibliographic data Description Claims Drawings Original document Citations Legal status Patent family





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(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 25 October 2018 (25.10.2018)

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(10) International Publication Number WO 2018/194652 A1

(51) International Patent Classification: B29C 64/153 (2017.01) B33Y 40/00 (2015.01) B29C 64/321 (2017.01)

(74) Agent: LEMMON, Marcus B. et al.; IIP Inc., 3390 East Harmony Road, Mail Stop 35, Fort Collins, Colorado 80528 (US).

(21) International Application Number: PCT/US2017/028829

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DI, DK, DM, DO,

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INTERNATIONAL SEARCH REPORT
International application No. PCT/US 2017/028829
A. CLASSIFICATION OF SUBJECT MATTER B29C 64/153 (2017.01) B29C 64/321 (2017.01) B33Y 40/00 (2015.01)
According to International Patent Classification (IPC) or to both national classification and IPC
B. FIELDS SEARCHED
Minimum documentation searched (classification system followed by classification symbols) B05D 3/06, B22F 3/105, 3/16, 8/00, B29C 64/153, 64/321, B33Y 40/00, B41J 2/18
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68. SYSTEM AND METHOD FOR DECREASING TIME FOR... EP3364641A1 • XEROX CORP [US] Earliest priority: 2017-02-16 • Earliest publication: 2018-08-16 A three-dimensional object printer has a controller that operates pluralities of ejectors ejecting drops of different materials having different

☆ EP3364641A1 SYSTEM AND METHOD FOR DECREASING TIME FOR PRINTING LAYERS IN THREE-DIMENSIONAL OBJECTS AND FOR ENHANCING COLOR FIDELITY AT THE SURFACE OF THREE-DIMENSIONAL OBJECTS

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Cited documents < EP3364641A1 < Citing documents

Publication ^	Priority date ^	Publication date ^	Applicants ^	Title ^	IPC ^
XP055366828				ALAN BRUNTON ET AL: "Pushing the Limits of 3D Color Printing", ACM TRANSACTIONS ON GRAPHICS (TOG), vol. 35, no. 1, 1 December 2015 (2015-12-01), US, pages 1 - 13, XP055366828, ISSN: 0730-0301, DOI: 10.1145/2832905	
US10065376B2	2014-05-22	2017-05-18	MIMAKI	THREE-DIMENSIONAL	B29C67/00,



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EP AK	W: Other	DESIGNATED CONTRACTING STATES:	AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR	2018-08-22		
EP AV	W: Other	REQUEST FOR VALIDATION OF	MA MD TN	2018-08-22		



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69. MATERIAL FEEDER FOR ENGINEERING POLYMER EJ... JP2017105176A • XEROX CORP Earliest priority: 2015-12-08 • Earliest publication: 2017-06-08

☆ EP3364641A1 SYSTEM AND METHOD FOR DECREASING TIME FOR PRINTING LAYERS IN THREE-DIMENSIONAL OBJECTS AND FOR ENHANCING COLOR FIDELITY AT THE SURFACE OF THREE-DIMENSIONAL OBJECTS

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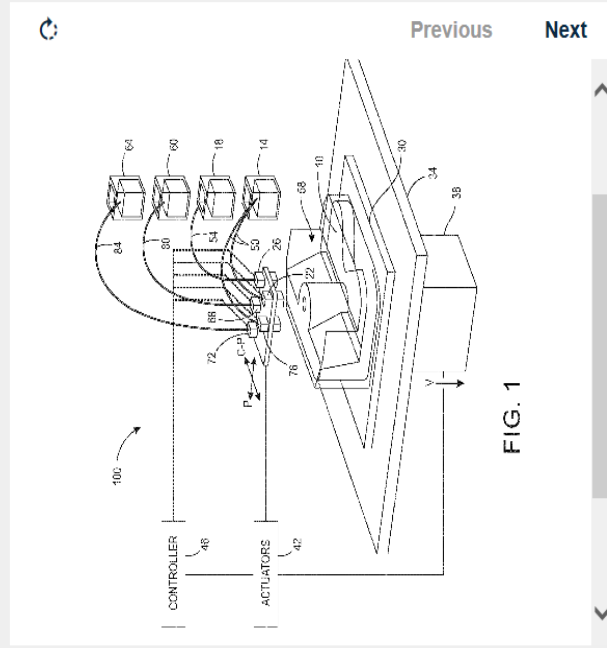
Inventors: MANTELL DAVID A [US], SCHWEID STUART A [US] Applicants: XEROX CORP [US]

Classification: IPC: B29C64/393; B33Y50/02; H04N1/60 CPC: default: B29C64/393; B33Y50/02; H04N1/60; B29C64/112; B29C64/386; B33Y10/00; B33Y30/00; B29K2105/0058; B29K2995/002

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Priority numbers: US201715434689 20170216

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Applicant(s) For all designated states
Xerox Corporation
Mailstop: XRX2-020
100 Clinton Avenue South
Rochester, NY 14644 / US

[2018/34]

Inventor(s) 01 / MANTELL, David A.
275 Yarmouth Road
Rochester, NY New York 14610 / US

02 / SCHWEID, Stuart A.
20 Knobb Hill Drive
Pittsford, NY New York 14534 / US

↗ [\[2018/34\]](#)

Representative(s) Gill Jennings & Every LLP
The Broadgate Tower
20 Primrose Street

Děkuji Vám za pozornost.



Úřad průmyslového vlastnictví

Antonína Čermáka 2a,
160 68 Praha 6-Bubeneč

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