

Diego Gonzalez

1) Family number: 66647769 (US2017274595A)

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Title: METHOD AND APPARATUS FOR AUTOMATED COMPOSITE-BASED ADDITIVE MANUFACTURING

Abstract: An apparatus and method for the automated manufacturing of three-dimensional (3D) composite-based objects is disclosed. The apparatus comprises a material feeder, a printer, a powder system, a transfer system, and optionally a fuser. The method comprises inserting a stack of substrate sheets into a material feeder, transferring a sheet of the stack from the material feeder to a printer, depositing fluid on the single sheet while the sheet rests on a printer platen, transferring the sheet from the printer to a powder system, depositing powder onto the single sheet such that the powder adheres to the areas of the sheet onto which the printer has deposited fluid, removing any powder that did not adhere to the sheet, optionally melting the powder on the substrate, and repeating the steps for as many additional sheets as required for making a specified 3D object.

Classifications:

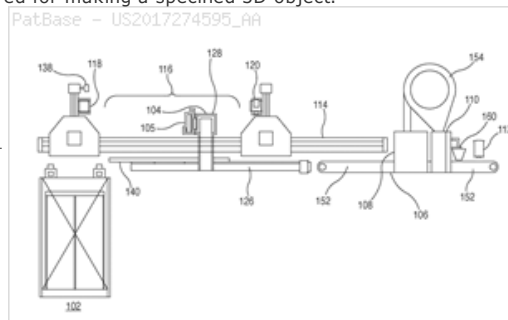
International (IPC 8-9): B05C19/00 B29B15/10 B29C31/08 B29C64/147 B29C64/165 B29C64/20 B29C64/205 B29C64/209 B29C64/223 B29C64/232 B29C64/236 B29C64/314 B29C64/321 B29C64/35 B29C64/386 B29C64/393 B29C64/40 B29C67/00 B29C70/28 B29C70/54 B33Y10/00 B33Y30/00 B33Y40/00 B33Y50/02 (Advanced/Invention)

CPC: B29C67/0092 B29C67/0088 B29C67/0081 B29C64/232 B29C64/321 B29C64/393 B29B15/105 B29C64/147 B29C70/28 B33Y30/00 B29C64/165 B29C64/40 B33Y10/00 B33Y50/02 B29C64/386 B33Y40/00 B29C64/314 B29C64/35 B29C70/54 B29C31/085

US: 1/1 427/9

JP F-Term: 4F213/4F213/AC03 4F213/AC04 4F213/AD16 4F213/AJ11 4F213/AR07 4F213/WA25 4F213/WA53 4F213/WA63 4F213/WB01 4F213/WL02 4F213/WL15 4F213/WL27 4F213/WL29 4F213/WL32 4F213/WL53 4F213/WL67 4F213/WL74 4F213/WL85 4F213/WL87 4F213/WL95

JP F-Index: B29C64/147 B29C64/20 B29C64/205 B29C64/209 B29C64/223 B29C64/232 B29C64/236 B33Y10/00 B33Y30/00



Family:

Publication number	Publication date	Application number	Application date
CN109476147 A	20190315	CN201780022914	20170213
EP3414094 A1	20181219	EP20170750965	20170213
EP3414094 A4	20200115	EP20170750965	20170213
JP2019505416 T2	20190228	JP20180542738T	20170213
KR20190019899 A	20190227	KR20187026331	20170213
US2017274595 AA	20170928	US20170611320	20170601
US2018345648 AA	20181206	US20180059275	20180809
US2019366701 AA	20191205	US20190544906	20190820
US10046552 BB	20180814	US20170611320	20170601
US10384437 BB	20190820	US20180059275	20180809
WO17139766 A1	20170817	WO2017US17672	20170213
WO17139766 A4	20171012	WO2017US17672	20170213

Priority:

US20160294997P 20160212 WO2017US17672 20170213 US20170611320 20170601
US20180059275 20180809 US20190544906 20190820

Probable Assignee: IMPOSSIBLE OBJECTS INC

Assignee(s): (std): IMPOSSIBLE OBJECTS INC ; IMPOSSIBLE OBJECTS LLC

Inventor(s): (std): BALYDON JOHN ; BALYDON JOHN ; GORE EUGENE ; SWARTZ ROBERT ; SU EVANGELINE ; WAGNER CHRIS ; CRIST BUCKLEY ; TARZIAN NICHOLAS

Agent(s): HERTIN U PARTNER RECHTS U PATENTANWALTE PARTG MBB; GREENSPOON ROBERT; FLACHSBART AND GREENSPOON LLC; GREENSPOON ROBERT P; DRISH JOSEPH ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KH KM KN KP KR KW KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

2) Family number: 64060746 (US2018028898A)

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Title: METHODS OF MEASURING AND GRINDING AN ICE BLADE, AND APPARATUSES USING SAME

Abstract: An automated apparatus for grinding an ice blade on an ice skate comprises a processor, an input device in communication with said processor, a skate holder, a non-contact measuring device in communication with said processor, and a grinding device in communication with said processor. The input device permits a user to select an ice blade grinding option. The skate holder releasably holds at least one said ice skate to said apparatus. The non-contact measuring device is configured to measure a three-dimensional (3D) shape of said ice blade. The grinding device is configured to perform a grinding action on said

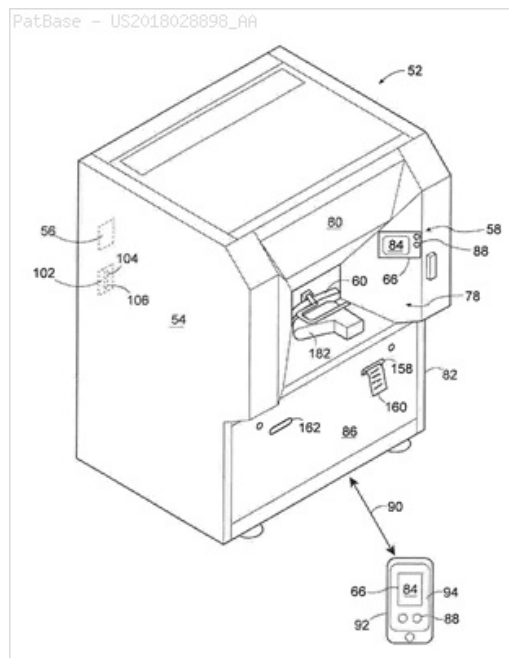
ice blade in said holder based on said selected ice blade grinding option to change said 3D shape of said ice blade to a desired 3D shape.

Classifications:

International (IPC 8-9): A63B69/00 A63C1/32 A63C3/10 B23Q17/20 B23Q17/24 B24B3/00 B24B3/36 B24B49/02 B24B49/12 B24B9/04 G01B11/24 G01B11/245 G01B11/25 G01B21/20 G01B3/18 G01B3/28 (Advanced/Invention)

CPC: A63C3/10 B23Q11/0046 B23Q17/0909 B23Q17/2471 B24B3/003 B24B9/04 B24B49/02 B24B49/12 G01B11/2518 A63C1/32 B23Q17/20 G01B21/20 B24B3/36 G01B11/24

US: 1/1 451/5



Family:

Publication number	Publication date	Application number	Application date
CA2930079 AA	20171112	CA20162930079	20160512
CA2978141 AA	20170825	CA20162978141	20160518
CA2978141 C	20181023	CA20162978141	20160518
CA3023938 AA	20181109	CA20163023938	20161115
CN107848091 A	20180327	CN201680041082	20160518
EP3297790 A1	20180328	EP20160795577	20160518
EP3297790 A4	20190227	EP20160795577	20160518
RU2017142545 A	20190619	RU20170142545	20160518
RU2017142545 A3	20191112	RU20170142545	20160518
RU2710494 C2	20191226	RU20170142545	20160518
US2018028898 AA	20180201	US20170782372	20171012
US2019176292 AA	20190613	US20160301039	20161115
WO16183663 A1	20161124	WO2016CA00147	20160518
WO17193196 A1	20171116	WO2016CA00282	20161115

Priority:

US20150163557P 20150519 CA20162930079 20160512 RU20170142545 20160518
WO2016CA00147 20160518 WO2016CA00282 20161115

Probable Assignee: SKATESCRIBE CORP

Assignee(s): (std): SKATESCRIBE CORP

Assignee(s): MARTIN STEVE ; REID TANYA JESSICA ; MARTIN STEVEN ; SKEJTSKRAJB KORPOREJSHEN ; CHAN NATHAN ; DI PIETRO EMIDIO ; GONZALEZ JAIME A ; DIPIETRO EMIDIO ; DIPIETRO TONY ; DI PIETRO TONY

Inventor(s): (std): CHAN NATAN ; CHAN NATHAN ; DI PIETRO TONY ; DI PIETRO EMIDIO ; DI PETRO EMIDIO ; DI PETRO TONI ; MARTIN STEVE ; GONZALEZ JAIME A ; DIPIETRO EMIDIO ; DIPIETRO TONY ; DL PIETRO EMIDIO ; GONZALEZ JAMIE A ; GONZALEZ JAIME ; GONSALES DZHEJMI A ; REID TANYA JESSICA ; MARTIN STEVEN ; REID TANYA ; MARTIN STIV

Agent(s): PIASETZKI NENNIGER KVAS LLP; BEATTIE ALEX THOMAS STEWART; ARS PATENT MV KHMARA; KELLER DAN

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KW KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

3) Family number: 70079645 (WO19193369A2)

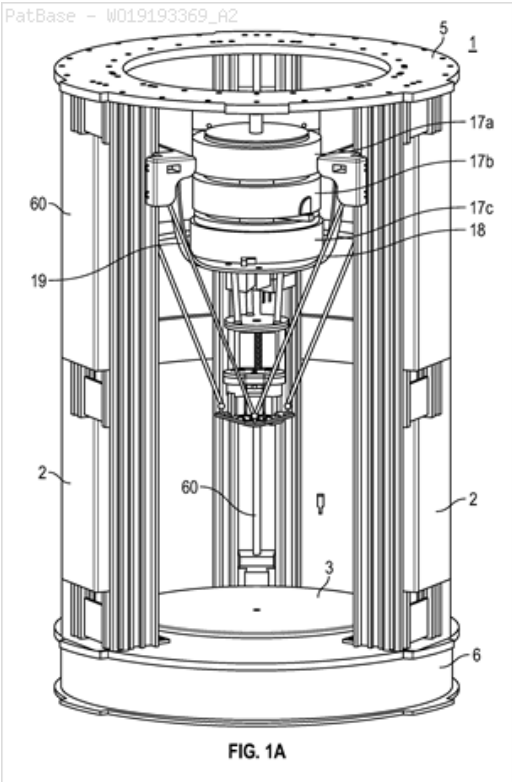
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Title: 3D PRINTER

Abstract: A 3D printer is described, which comprises a housing providing a printing chamber, a liquid print head, movably mounted within the housing, for dispensing a liquid, a print bed at the base of the printing chamber for receiving an object to be fully or partially filled by the liquid print head, and one or more apertures for drawing air from the object using a vacuum pump. In this way, the filling of an object with printed liquid can be achieved more effectively than relying on gravity alone, and a reduction in the number of air bubbles can be achieved.

Classifications:

International (IPC 8-9): B29C64/118 B29C64/20 B29C64/364 B33Y30/00 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
GB201805738 A0	20180523	GB20180005738	20180405
WO19193369 A2	20191010	WO2019GB51017	20190405
WO19193369 A3	20191205	WO2019GB51017	20190405

Priority:

GB20180005738 20180405

Probable Assignee: RD HOLDINGS LTD

Assignee(s): (std): RD HOLDINGS LTD

Inventor(s): (std): RAYNES GUY

Agent(s): SPINNAKER IP LTD

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

4) Family number: 69574038 (US2020046902A) © PatBase

Title: SAFETY-ENHANCED NEEDLE-FREE INJECTOR

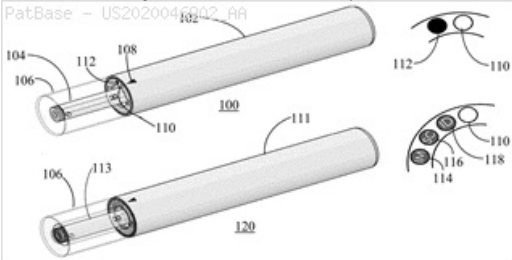
Abstract: A method for needle-free injection and a needle-free injector device are provided. The method includes automatically injecting an injectable into a surface in contact with the needle-free injector in response to a skin compression parameter of an end of the needle-free injector. A needle-free injector device (102) includes predefined structures formed on it to inject an injectable through a non-porous material. The predefined structures engage an airlock mechanism such that an airlock in the non-porous material and operably coupled to the airlock mechanism can only be opened and closed to enable needle-free injection through the non-porous material without disrupting an integrity of the non-porous material by the needle-free injector device. Other functions, embodiments and methods for using and programming the needle-free injector device are also provided.

Classifications:

International (IPC 8-9): A61M5/20 A61M5/24

A61M5/30 (Advanced/Invention)

CPC: A61M5/30 A61M5/2053 A61M2205/3331 A61M2005/2013 A61M5/24



Family:

Publication number	Publication date	Application number	Application date
AU2017352017 AA	20190523	AU20170352017	20171031

CN110167615 A	20190823	CN201780081041	20171031
EP3532134 A1	20190904	EP20170798015	20171031
IN201917021154 A	20190830	IN201917021154	20190528
SG10201609111W A1	20180530	SG20161009111	20161031
SG11201903826V A1	20190530	SG20191103826	20171031
US2020046902 AA	20200213	US20170346374	20171031
WO18080402 A1	20180503	WO2017SG50546	20171031
WO18080402 A9	20180823	WO2017SG50546	20171031

Priority:

SG20161009111 20161031 WO2017SG50546 20171031

Probable Assignee: MIRACLE MAN PTE LTD

Assignee(s): (std): MIRACLE MAN PTE LTD

Assignee(s): MIRACLE MANAGEMENT PTE LTD

Inventor(s): (std): CHUANG PING DERG ; CHUANG DAVID SAMUEL LEON ; KOTCHAPONG RATTAPOOM ; MOERL SASCHA ; MORL SASCHA

Agent(s): SPRUSON AND FERGUSON; BLAESI STEFANIE LISA; SPRUSON AND FERGUSON ASIA PTE LTD

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

5) Family number: 61741384 (US2016052208A)

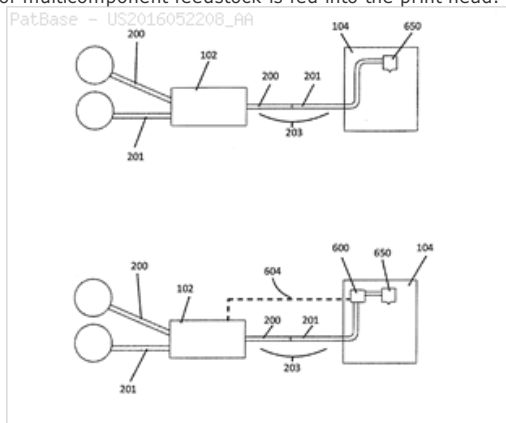
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Title: SERIES ENABLED MULTI-MATERIAL EXTRUSION TECHNOLOGY

Abstract: A method and apparatus are provided for producing a multicomponent feedstock being delivered through a print head of a 3D printer. Multiple component lengths are produced from separate feedstocks and are aligned to form the multicomponent feedstock which is fed into the print head for extrusion. The method includes providing at least two sources of feedstock of different material, feeding a distal end of a first feedstock along a feed path, cutting the first feedstock at a pre-determined length to provide a length of first feedstock having a proximal end. The method includes feeding a distal end of a second feedstock along the feed path and aligning the distal end of the second feedstock with the proximal end of the length of the first feedstock. The second feedstock is cut at a pre-determined length to provide a length of the second feedstock serially aligned with the length of first feedstock, to form a length of multicomponent feedstock. The length of multicomponent feedstock is fed into the print head.

Classifications:

International (IPC 8-9): B29C B29C64/118 B29C64/20 B29C64/314 B29C64/321 B29C64/336 B29C64/343 B29C64/35 B29C64/386 B29C67/00 B33Y10/00 B33Y30/00 B33Y40/00 B33Y50/02 B41J2/01 B41J29/38 B65H69/06 (Advanced/Invention); B29C (Subclass/Invention)
CPC: B29C64/118 B29C64/336 B65H57/12 B65H57/14 B29C64/209 B33Y30/00 B33Y40/00
US: 264/148 264/172.11 264/40.1 425/166



Family:

Publication number	Publication date	Application number	Application date
CA2996031 AA	20180216	CA20152996031	20150820
CN107206672 A	20170926	CN201580057221	20150820
EP3194148 A1	20170726	EP20150833974	20150820
EP3194148 A4	20180404	EP20150833974	20150820
IL250632 A0	20170430	IL20150250632	20150820
US2016052208 AA	20160225	US20150831396	20150820
WO16026045 A1	20160225	WO2015CA50792	20150820

Priority:

US20140040045P 20140821 US20150147393P 20150414 US20150831396 20150820
WO2015CA50792 20150820

Probable Assignee: MOSAIC MFG LTD

Assignee(s): (std): MOSAIC MFG LTD

Assignee(s): VOGT DEREK ALAN ; DEBORA MITCHELL OLIVER ; LLOYD DANIEL

Inventor(s): (std): DEBORA MITCHELL OLIVER ; LLOYD DANIEL ; VOGT DEREK ALAN

Agent(s): BHOLE IP LAW; MARKS AND CLERK; HOFFMANN EITLE; BHOLE ANIL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: 3-D PRINTER

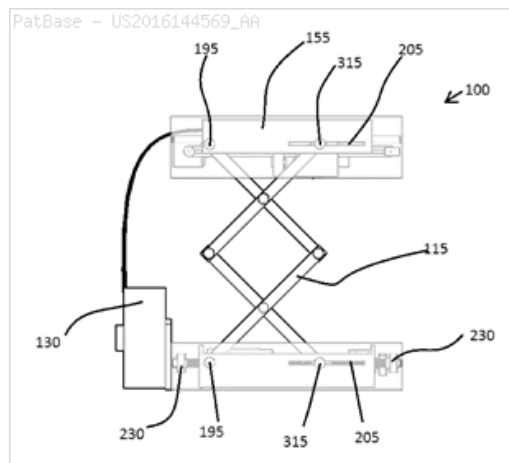
Abstract: A three-dimensional (3D) printing device has at least one collapsible vertical or horizontal axis using a scissor lift mechanism. One of the horizontal axis's can be made operable via a track or path where the entire machine moves along that path via movable wheels or gears. Sensors may monitor the height, orientation, position, and relative distance of the axes, machine, or extruders. Compensating mechanisms such as counterweights, propellers, or gyroscopes may be used to maintain balance, levelness, and control of the system. As a result, the size and weight of the 3D printer is reduced and made easier to transport while maintaining quality build functionality.

Classifications:

International (IPC 8-9): B29C64/20 B29C67/00 (Advanced/Invention); B29C64/209 B29C64/227 B29C64/232 B29C64/236 B33Y30/00 B33Y40/00 (Advanced/Non-invention)

CPC: B29C64/209 B29C64/227 B29C64/232 B29C64/236 B33Y30/00 B29C67/20 B29C64/20 B33Y40/00

US: 1/1 425/150

**Family:**

Publication number	Publication date	Application number	Application date
US2016144569 AA	20160526	US20140550482	20141121
US9925722 BB	20180327	US20140550482	20141121

Priority:

US20140550482 20141121

Probable Assignee:

MARTIN MATTHEW H

Assignee(s): (std):

MARTIN MATTHEW H

Inventor(s): (std):

MARTIN MATTHEW H

Agent(s):

FULWIDER PATTON LLP

Title: 3D-PRINT SYSTEM WITH INTEGRATED CNC ROBOT AND AUTOMATIC SELF-CLEANING MECHANISM

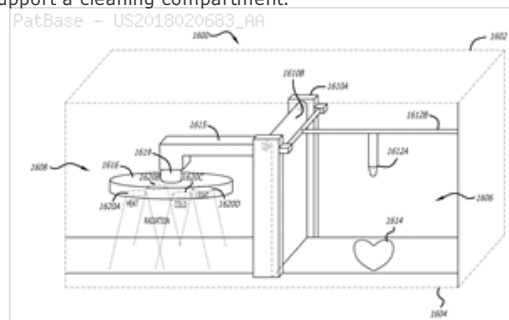
Abstract: The print system includes a 3D-printer system having a housing, a CNC robot having food silos for storing toppings, an electronic device may be coupled to the 3D-printer system and the CNC robot and receive input via a user interface. The print system also includes a cart that may include a plurality of wheels to facilitate movement of the print system. The cart is also configured to support the 3D-printer system, the CNC robot and the electronic device. The interior of the cart may also house an air compressor as well as a water and food residue receptacle that receives water and food residue resulting from an auto-cleaning process of the print system, which is discussed below in detail. The cart may (i) house a coupling to a clean water source and as containers for storing cleaning solution, and (ii) be configured to support a cleaning compartment.

Classifications:

International (IPC 8-9): A21D13/41 A21D13/47 A21D8/02 A23L1/00 A23L33/00 A23L33/10 A23P1/08 A23P20/20 A23P30/20 B29C64/245 B29C64/25 B29C64/35 B33Y10/00 B33Y30/00 B33Y40/00 B33Y50/00 B33Y50/02 B33Y70/00 B33Y80/00 (Advanced/Invention); A23P20/25 (Advanced/Non-invention)

CPC: A21D13/41 B33Y10/00 B33Y50/00 A23P20/20 A23P20/25 B33Y30/00 B33Y50/02 A21D13/47 B29C64/245 B29C64/25 B29C64/35 B33Y40/00 B33Y70/00 B33Y80/00 A23L33/10 A23L33/30 A23L33/40 A21D8/02 A23P30/20

US: 1/1 426/231 426/516 428/195.1



US10349663 BB	20190716	US20170587306	20170504
WO18017947 A1	20180125	WO2017US43270	20170721

Priority:

US20160364862P 20160721 US20170587306 20170504 US20170655865 20170720
US20190247363 20190114

Probable Assignee: BEEHEX INC

Assignee(s): (std): BEEHEX INC ; BEEHEX LLC ; CONTRACTOR ANJAN ; FELTNER BENJAMIN ; KANUGA CHINTAN

Inventor(s): (std): FELTNER BENJAMIN ; CONTRACTOR ANJAN ; KANUGA CHINTAN

Agent(s): RUTAN AND TUCKER LLP; JAMES KYLE ST

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

8) Family number: 72255132 (ES1220959U)

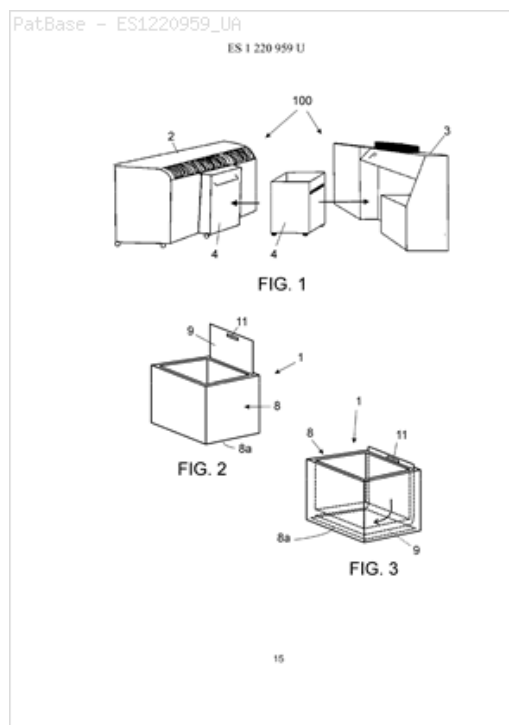
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Title: DISPOSITIVO DE EXTRACCION Y REFRIGERACION EN BLOQUE DE IMPRESIONES 3D PARA FUSION EN SUSTRATO DE POLVO Extraction DEVICE AND COOLING BLOCK 3D PRINTS FOR FUSION IN POWDER Substrate (Machine translation)

Abstract: Source: ES1220959U [ES] 1. Dispositivo de extraccion y refrigeracion en bloque de impresiones 3D para fusion en sustrato de polvo que, aplicable para ser utilizado con una maquina (100) impresora 3D de las que comprenden un modulo de impresion (2), un modulo de procesamiento (3), y uno o mas carros de impresion (4) provistos de ruedas (14) y plataforma (5) con mecanismo de elevacion (6) de la misma, aptos para acoplarse al modulo de impresion (2), donde se efectua la impresion 3D de las piezas a realizar, conformando un bloque (7) de impresion que contiene dichas piezas y polvo, y al modulo de procesamiento (3), esta caracterizado por comprender: - al menos, un modulo refrigerador consistente en una caja (8) isotermitica, de base inferior (8a) abierta y dimensionada para ajustarse sobre el bloque (7) de impresion, una vez formado y elevado sobre la plataforma (5) del carro de impresion (4), y dotada con una compuerta (9) que abre y cierra su base inferior (8a) de modo que, en posicion cerrada, sirve de base para contener dicho bloque (7) dentro de la caja (8); y - una mesa (12) transportadora, con ruedas (14) y cuyo tablero (13) queda colocado a una altura semejante a la altura del carro de impresion (4), para facilitar el traslado de la caja (8) isotermitica, una vez que queda colocado el bloque (7) de impresion en su interior, desde dicho carro de impresion (4) a la superficie de la misma. **Machine translation:** 1. Extraction device and cooling block 3D prints for fusion in powder, applicable to be used substrate with a 3D printer machine (100) comprising a printing module (2), a processing module (3), and one or more printing carriages (4) provided with wheels (14) and platform (5) with the lifting mechanism (6) of the same, suitable to be coupled to the printing module (2), where the 3D printing of the parts to be performed, forming a block (7) containing said parts and dust, and the processing module (3), is characterized by comprising: - at least one cooler module consisting of a box (8) isothermal lower base (8a) open and dimensioned to fit over the block (7) printing, once formed and high on the platform (5) of the carriage (4), and provided with a gate (9) that opens and closes its lower base (8a) so that, in closed position, is the basis for containing said block (7) within the housing (8); and- a table (12), with wheels (14) and whose Board (13) is placed at a similar height to the height of the carriage (4), to facilitate the transfer of the isothermal box (8), once the block (7) is placed in its interior, from said carriage (4) to the surface of the same.

Classifications:

International (IPC 8-9): B33Y40/00 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
ES1220959 UA	20181127	ES20180031462U	20180927

Priority:

ES20180031462U 20180927

Probable Assignee: BINOMI PRODUCCIONS S L
Assignee(s): (std) BINOMI PRODUCCIONS S L
Assignee(s): BINOMI PRODUCCIONS SL
Inventor(s): (std) PLANELLA PARES LLUIS

9) Family number: 76340237 (CN110385853A)

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Title: 3D (THREE-DIMENSIONAL) PRINTER AND RESET SYSTEM THEREOF

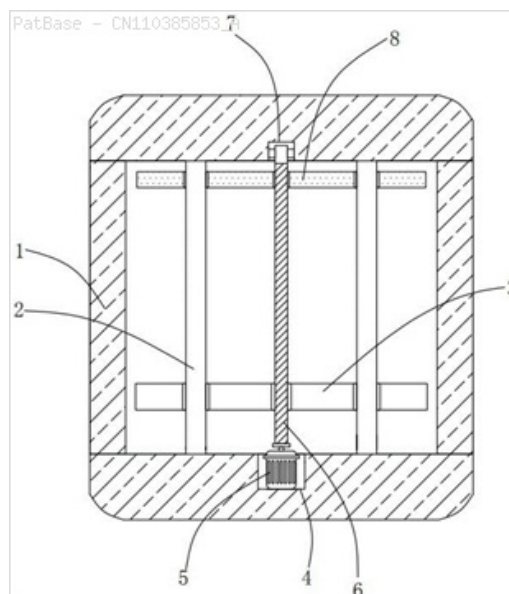
Abstract: The invention discloses a 3D (three-dimensional) printer and a reset system thereof. The 3D printer comprises a housing, wherein two optical shafts are symmetrically and fixedly installed in the housing, the same printing table is installed on the two optical shafts in a sliding mode, a placing groove is formed in the bottom of the housing, a first motor is fixedly installed in the placing groove, a threaded rod is fixedly installed on an output shaft of the first motor, a rotation groove is formed in the inner wall of the top of the housing, the inner wall of the rotation groove is connected with the threaded rod in a rotating mode, an installing plate is fixedly installed in the housing, the threaded rod runs through the installing plate and is connected with the installing plate in a rotating mode, an installing hole is formed in the installing plate, two first synchronizing wheels are symmetrically and fixedly installed in the installing hole, and a fixing plate is installed in the installing hole in a sliding mode. The 3D printer has the advantages of being simple in structure, low in manufacture cost and low in use threshold of users, solving the problems that after printing of an existing 3D printer is interrupted, a model can only be scrapped, and then huge waste of materials is caused, and reducing production cost.

Classifications:

International (IPC 8-9): B29C64/118 B29C64/227 B29C64/393

B33Y30/00 B33Y50/02 (Advanced/Invention)

CPC: B29C64/118 B29C64/227 B29C64/393 B33Y30/00 B33Y50/02



Family:

Publication number	Publication date	Application number	Application date
CN110385853 A	20191029	CN201910664983	20190723

Priority:

CN201910664983 20190723

Probable Assignee: UNIV FOSHAN
Assignee(s): (std) FOSHAN UNIV ; UNIV FOSHAN
Inventor(s): (std) CHEN XUANWEI

10) Family number: 77792202 (CN210113091U)

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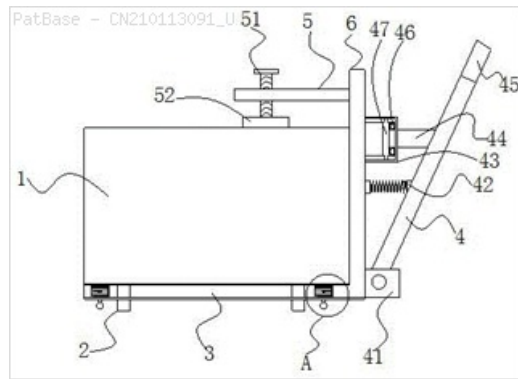
Title: The full color 3D printer (Machine translation)

Abstract: Source: CN210113091U **Machine translation:** The utility model relates to the field of printer technology, and discloses a full color 3d printer, including the printer body, legs, base, rod, roof and side panels, the bottom of the body of the printer and the top base, bottom left side of the side plate movably connected with the bottom of the rod is fixedly connected to said rod comprises a connecting seat, elastic rope, the outer cylinder, inner cylinder, handles, elastic ball and slide, said base includes a retractable device, the retractable device includes an outer housing, a spring, a support plate, cam, the collecting plate, the elastic block, connecting column and wheel. The full color 3d printer, by setting the spring, the support plate, cam, the collecting plate, the elastic block, connecting column and wheel, by setting the spring and the support plate, so as to achieve the purpose of shock absorption, rotation of the cam, so that the collecting plate down, thereby connecting the column down, and thus make the wheels fall, when the wheel reaches the ground, the support from the printer body to move up, so as to achieve the purpose of easy to move.

Classifications:

International (IPC 8-9): B29C64/30 B33Y40/00

F16F15/04 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN210113091 U	20200225	CN201920017814U	20190107

Priority:

CN201920017814U 20190107

Probable Assignee:

WANG YU YEE

Assignee(s):

WANG YU YEE

11) Family number: 73265597 (WO19034186A1)

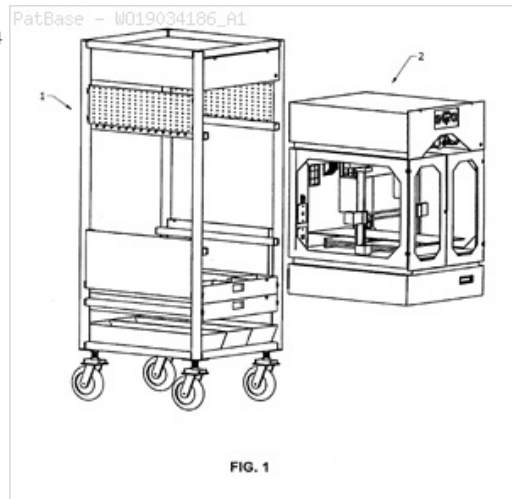
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Title: INTEGRAL WORK STATOIN FOR THE OPERATION, REPAIR, MONITORING, STORAGE, MOVEMENT AND DISPLAY OF OPEN 3D PRINTERS, AND ELEMENTS AND MATERIALS OF SAME

Abstract: The present invention relates to a work station for a 3D printer, which allows open printers to be operated, repaired, monitored, stored, moved and displayed, as well as to the elements and materials of same. According to the invention, the structure or station is portable and allows the printer to be handled such that the printer is ready to be operated inside same in a simple and convenient manner, while dispensing with the need for constant calibration since the enclosure protects the printer at all times and prevents any sudden movements. In addition, the structure is equipped with: technology that can minimise sudden movements, internet access for remote control purposes, lighting, drawers for storing tools, thereby forming a complete station that is provided with everything required for operation and maintenance.

Classifications:

International (IPC 8-9): B29C64/245 B29C64/25 B29C64/30 B29C64/364 B29C64/386 B29C64/393 B29C67/00 (Advanced/Invention); B33Y30/00 B33Y40/00 (Advanced/Non-invention)
CPC: B29C64/245 B29C64/25 B29C64/30 B29C64/364 B29C64/386 B29C64/393 B29C67/00 B33Y30/00 B33Y40/00



Family:

Publication number	Publication date	Application number	Application date
CO20170008402 A1	20190219	CO20170008402	20170817
WO19034186 A1	20190221	WO2018CO00020	20180816

Priority:

CO20170008402 20170817

Probable Assignee:

Assignee(s): (std): CORPORACION UNIV DE LA COSTA CUC

Assignee(s): CORPORACION UNIVERSIDAD DE LA COSTA CUC ; CORPORACION UNIVERSIDAS DE LA COSTA CUC

Inventor(s): (std): SANCHEZ COMAS ANDRES GABRIEL

Agent(s): MARQUEZ ACOSTA ANDRES

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: HIGH SPEED QUIET MECHANICAL PRINTER - HAS SEVERAL SELECTABLE DISC ELEMENTS MOUNTED ON A CYLINDRICAL SUPPORT

Abstract: The recording paper passes between the printing discs and rotating pressure rollers which in each case are concentrically connected on a shaft with planetary wheels of a planetary transmission. The rollers are driven via a sun wheel by an intermediary shaft so that following successive adjustment of the printing discs, the discs are roll-contacted by a pressure roller. The printing discs and pressure rollers can be transported stepwise in the line direction along the recording paper. The pressure rollers are arranged in a carriage which can move on guide rails in the line direction.

Classifications:

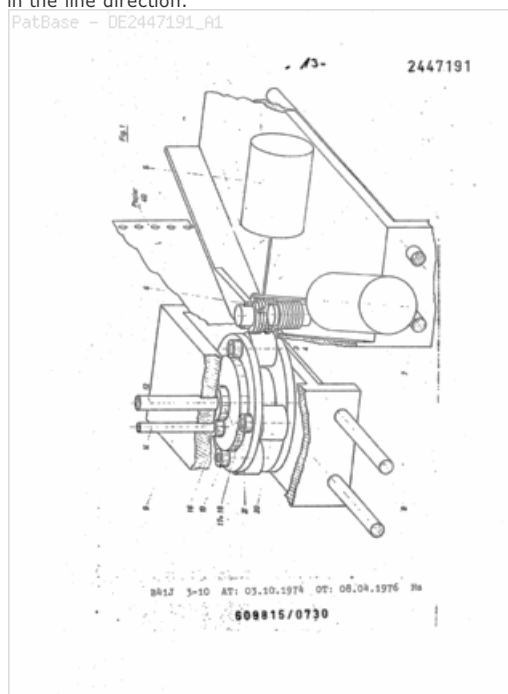
International (IPC 8-9): B41J1/34 B41J2/25 (Advanced/Invention);

B41J1/00 B41J2/25 (Core/Invention)

International (IPC 1-7): B41J3/10

CPC: B41J1/34 B41J2/25

European: B41J1/34 B41J2/25



Family:

Publication number	Publication date	Application number	Application date
DE2447191 A1	19760408	DE19742447191	19741003

Priority:

DE19742447191 19741003

Probable Assignee: NCR CO

Assignee(s): (std): NCR CO

Assignee(s): NCR CORP

Inventor(s): (std): GIESSNER FRANK DIPL ING ; KRECIOCH THEODORE H

Inventor(s): H KRECIOCH THEODORE

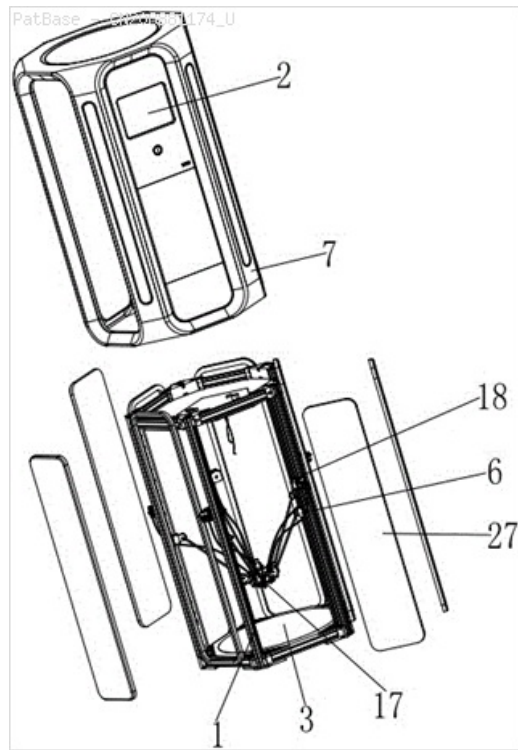
Title: FIVE-COLOR 3D PRINTER

Abstract: A five-color 3D printer comprises a rack and a touch screen arranged on the rack, and a hot bed is arranged at the bottom in the rack. The inner wall of the rack is provided with five slide rails which are uniformly distributed in the circumferential direction; A sliding seat matched with the sliding rail is arranged on the sliding rail; The sliding seat is connected with a position adjusting block; Wherein a housing is covered outside the rack; The bottom of the housing and the bottom of the rack are enclosed to form a mounting cavity; Five position adjusting motors which are uniformly distributed in the circumferential direction are fixed in the mounting cavity, and the positions of the position adjusting motors correspond to the positions of the sliding rails; A motor shaft of the position adjusting motor is connected with a driving wheel; Five driven wheels corresponding to the driving wheels in position are arranged at the upper part of the rack; And the driving wheel is connected with the driven wheel through a conveying belt. The five-color 3D printer disclosed by the utility model can be used for directly preparing material wires with colors required by printing in a printing process, and waste of the material wires can be avoided.

Classifications:

International (IPC 8-9): B29C64/118 B29C64/227 B29C64/336

B33Y30/00 B33Y40/00 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN208881174 U	20190521	CN201821664885U	20181015

Priority:

CN201821664885U 20181015

Probable Assignee: ZHEJIANG RES INST UNIV TAIZHOU

Assignee(s): (std): RESEARCH INST OF ZHEJIANG UNIV TAIZHOU ; ZHEJIANG RES INST UNIV TAIZHOU

Inventor(s): (std): HU XIANGSONG ; ZHOU YONGJIAN

14) Family number: 77106395 (CN209869399U)

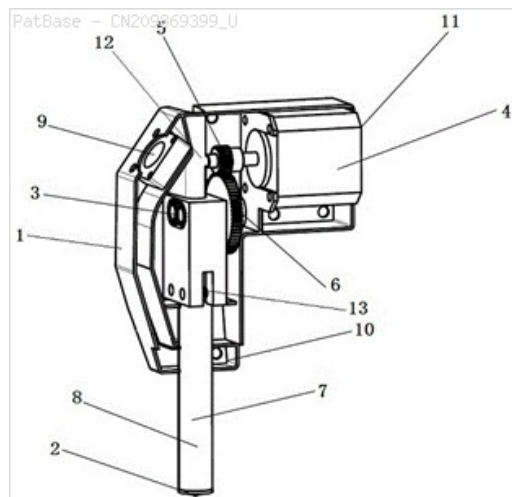
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Title: A 3D printer print head (Machine translation)

Abstract: Source: CN209869399U **Machine translation:** The utility model is to provide a 3D printer print head, comprising a housing, said housing provided with a lower end of the print head, the print head is provided on the upper end of the wheel, the consumables extruded housing rear end provided with a DC motor, the DC motor shaft is provided with a power gear, supplies extrusion of a wheel via a reduction gear and a gear, power gear and the gear reducer, through the DC motor to drive the wheels turn, the printing supplies extrusion nozzle is provided with a temperature sensor, a temperature sensor for detecting the temperature of the print head, the print head is also provided with a heating element, the heating element is heated by the print nozzles. The consumables consumables by extrusion of a wheel by print heads, improve the uniformity of the extruded extrusion, and by the temperature sensor and the heating element for controlling the temperature of the printing nozzle out, improve the quality of the 3D Printed Products.

Classifications:

International (IPC 8-9): B29C64/106 B29C64/20 B29C64/209 B33Y30/00 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN209869399 U	20191231	CN201920363766U	20190321

Priority:

CN201920363766U 20190321

Probable Assignee: WUHU CONNAUGHT LEI AUTOMATION TECHNOLOGY CO LTD

Assignee(s): WUHU CONNAUGHT LEI AUTOMATION TECHNOLOGY CO LTD

15) Family number: 64161240 (CN206106377U)

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Title: A DEVICE THAT IS USED FOR QUICK LOCATION CYLINDER BODY OF 3D PRINTER

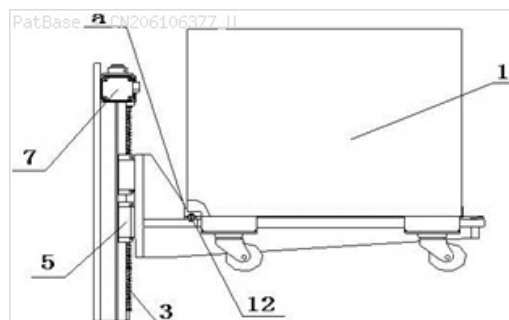
Abstract: The utility model discloses a device that is used for quick location cylinder body of 3D printer, it includes the riser, installs screw mechanism on the riser and installing perpendicularly the last gyro wheel mechanism of screw mechanism, screw mechanism includes lead screw, guide rail group, installs slider in lead screw and the guide rail group, install lead screw bottom bolster bearing housing and installing lift structure on the lead screw top, bearing frame and lift structure all solid dress are in on the riser, gyro wheel mechanism includes layer board, a plurality of gyro wheel and two at least adjusting keys, the layer board perpendicular fixed mounting be in on the slider, a plurality of gyro wheels evenly install in on the edge of layer board, the mutual symmetry of adjusting key is installed on the free end of layer board. The utility model has the advantages of quick location, the high just labour saving and time saving of structural stability.

Classifications:

International (IPC 8-9): B29C64/20 B29C67/00

B33Y30/00 (Advanced/Invention)

CPC: B33Y30/00



Family:

Publication number	Publication date	Application number	Application date
CN106166842 A	20161130	CN201610855345	20160928
CN106166842 B	20180807	CN201610855345	20160928
CN206106377 U	20170419	CN201621084900U	20160928

Priority:

CN201610855345 20160928 CN201621084900U 20160928

Probable Assignee: Z RAPID TECH CO LTD

Assignee(s): (std): Z RAPID TECH CO LTD

Assignee(s): Z RAPID TECHNOLOGIES CO ; WU JIANGZHONG RUI ELECTRIC CO LTD

Inventor(s): (std): ZHOU HONGZHI ; LIANG YINSHENG

16) Family number: 71406538 (US2018281303A)

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Title: SYSTEMS AND METHODS FOR ON-ORBIT FABRICATION OF STRUCTURES BY 3D PRINTING

Abstract: Spacecraft including a spacecraft bus. An additive manufacturing system of the spacecraft bus including at least one extruder for delivering feedstock to print an object outside of the spacecraft bus. A sensor for determining a pose of the spacecraft bus relative to an astronomical body. At least one processor in communication with the additive manufacturing system and the sensor, controls an operation of the additive manufacturing system as a function of the pose of the spacecraft bus, to manufacture the object outside of the spacecraft bus.

Classifications:

International (IPC 8-9): B22F3/105 B29C64/118 B29C64/20 B29C64/386 B29C67/00 B29L31/30 B33Y10/00 B33Y30/00 B33Y40/00 B33Y50/00

B33Y50/02 B64G1/10 B64G99/00 (Advanced/Invention);

B29L31/30 B33Y30/00 (Advanced/Non-invention)

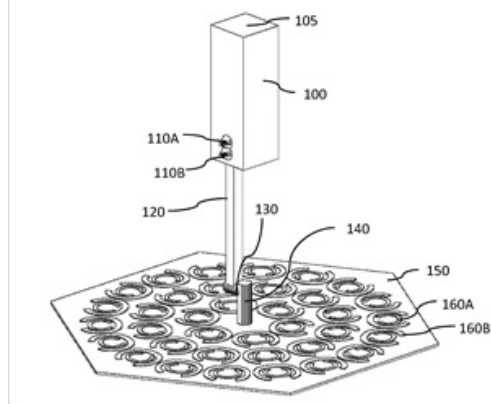
CPC: B22F2003/1056 C22C1/0416 B22F3/1055 B29C64/118 B29C64/20

B29L2031/3097 B33Y30/00 B64G1/10 B64G1/244 B64G1/26 B64G1/283

B64G1/285 B64G1/32 B64G1/36 B64G1/401 B64G1/405 B64G1/66

B64G9/00 B29C64/106 B29C64/386 B33Y40/00 B33Y50/02

US: 1/1 425/62

**Family:**

Publication number	Publication date	Application number	Application date
CN110536789 A	20191203	CN201780088985	20171018
EP3600841 A1	20200205	EP20170805289	20171018
JP2019535560 T2	20191212	JP20190527273T	20171018
US2018281303 AA	20181004	US20170474456	20170330
WO18179547 A1	20181004	WO2017JP38417	20171018

Priority:

US20170474456 20170330 WO2017JP38417 20171018

Probable Assignee: MITSUBISHI ELECTRIC RES LABORATORIES INC

Assignee(s): (std): MITSUBISHI ELECTRIC CORP ; MITSUBISHI ELECTRIC RES LABORATORIES INC

Assignee(s): MITSUBISHI ELECTRIC RESEARCH LABORATORIES INC

Inventor(s): (std): WANG BINGNAN ; WEISS AVISHAI ; YERAZUNIS WILLIAM

Agent(s): PFENNING MEINIG AND PARTNER MBB; SOGA MICHIHARU ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW