

TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

ETAS ID: TM775076

SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	SECURITY INTEREST		
CONVEYING PARTY DATA			
Name	Formerly	Execution Date	Entity Type
Divergent Technologies, Inc.		06/29/2022	Corporation: DELAWARE
RECEIVING PARTY DATA			
Name:	Western Alliance Bank		
Street Address:	One East Washington Street, Suite 1400		
City:	Phoenix		
State/Country:	ARIZONA		
Postal Code:	85004		
Entity Type:	Corporation: ARIZONA		
PROPERTY NUMBERS Total: 31			
Property Type	Number	Word Mark	
Serial Number:	97196783	PRINTSULATED	
Serial Number:	90340252	DPAAS	
Serial Number:	90330083	V-CELL	
Serial Number:	90330078	PLANET-SAVING MANUFACTURING	
Serial Number:	90330075	DIVERGENT COMPUTATIONAL MANUFACTURING	
Serial Number:	90330069	DIVERGENT ADAPTIVE PRODUCTION SYSTEM	
Serial Number:	90330067	DAPS	
Serial Number:	90330065	3DEV	
Serial Number:	90303859	PLANET-SAVING MANUFACTURING	
Serial Number:	90251396	RECAPTURING THE SOUL OF AMERICAN MANUFAC	
Serial Number:	90483081	FACTORY-LESS CAR COMPANY	
Serial Number:	90513010		
Serial Number:	90790563	BRAKENODE	
Serial Number:	90709500	MOTORNODE	
Serial Number:	90454834	VIRTUAL RAIL ROAD	
Serial Number:	90555466	PERMANENT MANUFACTURING FOOTPRINTS	
Serial Number:	90513004	DESIGN. PRINT. ASSEMBLE. DRIVE.	
Serial Number:	90389855	SWARM	
Serial Number:	88228891	DAPS	

OP \$790.00 97196783

Property Type	Number	Word Mark
Serial Number:	88200028	V-CELL
Serial Number:	88228876	DIVERGENT ADAPTIVE PRODUCTION SYSTEM
Serial Number:	88821783	DIVMAT
Serial Number:	88731941	DIVERGENT
Serial Number:	88806151	NODE
Serial Number:	88796701	DIVERGENT COMPUTATIONAL MANUFACTURING
Serial Number:	88200822	3DEV
Registration Number:	6315891	
Registration Number:	6124844	WILDFLOWER INNOVATION
Registration Number:	5984619	DIVERGENT3D
Registration Number:	5997299	DIVERGENT
Registration Number:	5581045	DIVERGENT MICROFACTORIES

CORRESPONDENCE DATA

Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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ATTORNEY DOCKET NUMBER:	1862790 TM
NAME OF SUBMITTER:	Yvette Stohler
SIGNATURE:	/Yvette Stohler/
DATE SIGNED:	12/19/2022

Total Attachments: 11
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INTELLECTUAL PROPERTY SECURITY AGREEMENT

This INTELLECTUAL PROPERTY SECURITY AGREEMENT, dated as of June 29, 2022, (the "Agreement") between WESTERN ALLIANCE BANK, an Arizona corporation ("Lender") and DIVERGENT TECHNOLOGIES, INC., Delaware corporation, ("Grantor") is made with reference to the Loan and Security Agreement, dated as of June 29, 2022 (as amended from time to time, the "*Loan Agreement*"), between Bank and Grantor. Terms defined in the Loan Agreement have the same meaning when used in this Agreement.

For good and valuable consideration, receipt of which is hereby acknowledged, Grantor hereby covenants and agrees as follows:

To secure the Obligations under the Loan Agreement, Grantor grants to Bank a security interest in all right, title, and interest of Grantor in any of the following, whether now existing or hereafter acquired or created in any and all of the following property to the extent constituting Collateral (collectively, the "*Intellectual Property Collateral*"):

(a) copyright rights, copyright applications, copyright registrations and like protections in each work or authorship and derivative work thereof, whether published or unpublished and whether or not the same also constitutes a trade secret, now or hereafter existing, created, acquired or held (collectively, the "*Copyrights*"), including the Copyrights described in **Exhibit A**;

(b) trademark and servicemark rights, whether registered or not, applications to register and registrations of the same and like protections, and the entire goodwill of the business of Borrower connected with and symbolized by such trademarks (collectively, the "*Trademarks*"), including the Trademarks described in **Exhibit B**;

(c) patents, patent applications and like protections including without limitation improvements, divisions, continuations, renewals, reissues, extensions and continuations-in-part of the same (collectively, the "*Patents*"), including the Patents described in **Exhibit C**;

(d) mask work or similar rights available for the protection of semiconductor chips or other products (collectively, the "*Mask Works*");

(e) trade secrets, and any and all intellectual property rights in computer software and computer software products;

(f) design rights;

(g) claims for damages by way of past, present and future infringement of any of the rights included above, with the right, but not the obligation, to sue for and collect such damages for said use or infringement of the intellectual property rights identified above;

(h) licenses or other rights to use any of the Copyrights, Patents, Trademarks, or Mask Works, and all license fees and royalties arising from such use to the extent permitted by such license or rights;

(i) amendments, renewals and extensions of any of the Copyrights, Trademarks, Patents, or Mask Works; and

(j) proceeds and products of the foregoing, including without limitation all payments under insurance or any indemnity or warranty payable in respect of any of the foregoing.

The rights and remedies of Bank with respect to the security interests granted hereunder are in addition to those set forth in the Loan Agreement, and those which are now or hereafter available to Bank as a matter of law or equity. Each right, power and remedy of Bank provided for herein or in the Loan Agreement, or now or hereafter existing at law or in equity shall be cumulative and concurrent and shall be in addition to every right, power or remedy provided for herein, and the exercise by Bank of any one or more of such rights, powers or remedies does not preclude the simultaneous or later exercise by Bank of any other rights, powers or remedies.

IN WITNESS WHEREOF, the parties have executed this Agreement as of the date first written above.

GRANTOR:

DIVERGENT TECHNOLOGIES, INC., Delaware corporation

DocuSigned by:
By: Kevin Czinger
0FECF64208334A1...

Name: Kevin Czinger

Title: Chief Executive Officer

Address for Notices:

Attn: Chief Financial Officer
19601 Hamilton Ave.
Torrance, CA 90502
Fax: _____

LENDER:

WESTERN ALLIANCE BANK,
an Arizona corporation

DocuSigned by:
By: Jeffrey Brown
2D8EB4A50F8B496...

Name: Jeffrey Brown

Title: Senior Director

Address for Notices:



Attn: Mike Lederman
55 Almaden Blvd. Ste. 100
San Jose, CA 95113
Tel: (408) 423-8500
Fax: (408) 423-8520

EXHIBIT A
COPYRIGHTS

Please Check if No Copyrights Exist

<u>Type Of Work:</u>	<u>Title:</u>	<u>International Standard Serial Number (ISSN):</u>	<u>Registration Number:</u>	<u>Filing Date:</u>	<u>Preregistered?</u>

**Exhibit B
TRADEMARKS**

Mark/Title	US Serial No.	US Reg. No.	App/Reg Date
PRINTSULATED	97196783		12/20/2021
DPAAS	90340252		11/24/2020
V-CELL	90330083		11/19/2020
PLANET-SAVING MANUFACTURING	90330078		11/19/2020
DIVERGENT COMPUTATIONAL MANUFACTURING	90330075		11/19/2020
DIVERGENT ADAPTIVE PRODUCTION SYSTEM	90330069		11/19/2020
DAPS	90330067		11/19/2020
3DEV	90330065		11/19/2020
PLANET-SAVING MANUFACTURING	90303859		11/6/2020
RECAPTURING THE SOUL OF AMERICAN FACTORY-LESS CAR COMPANY	90251396		10/13/2020
	90483081		1/22/2021
	90513010		2/5/2021
BRAKENODE	90790563		6/23/2021
MOTORNODE	90709500		5/13/2021
VIRTUAL RAIL ROAD	90454834		1/8/2021
PERMANENT MANUFACTURING FOOTPRINTS	90555466		3/2/2021
DESIGN. PRINT. ASSEMBLE. DRIVE.	90513004		2/5/2021
SWARM	90389855		12/17/2020
DAPS	88228891		12/13/2018
V-CELL	88200028		11/19/2018
DIVERGENT ADAPTIVE PRODUCTION SYSTEM	88228876		12/13/2018
DIVMAT	88821783		3/5/2020
DIVERGENT	88731941		12/18/2019
NODE	88806151		2/21/2020
DIVERGENT COMPUTATIONAL MANUFACTURING	88796701		2/13/2020
3DEV	88200822		11/20/2018
	87519384	6315891	4/6/2021
WILDFLOWER INNOVATION	87129744	6124844	8/11/2020
DIVERGENT3D	86891044	5984619	2/11/2020
DIVERGENT	86797539	5997299	2/25/2020
DIVERGENT MICROFACTORIES	86383915	5581045	10/9/2018

**Exhibit C
PATENTS**

Title	Patent #	Patent Date	Application #	Application Date
Modular formed nodes for vehicle chassis and their methods of use	9884663	2/6/2018		
Systems and methods for fabricating joint members	9975179	5/22/2018		
Systems and methods for arc and node design and manufacture	10173255	1/8/2019		
Modular plunger for a hydrocarbon wellbore	10215004	2/26/2019		
Systems and methods for additive manufacturing of transport structures	10303159	5/28/2019		
Methods and apparatus for additively manufactured identification features	10357959	7/23/2019		
Systems and methods for joining node and tube structures	10605285	3/31/2020		
Metrology apparatus to facilitate capture of metrology data	10663110	5/26/2020		
Solar extended range electric vehicle with panel deployment and emitter tracking	10668816	6/2/2020		
Nodes with integrated adhesive ports and channels for construction of complex structures	10668965	6/2/2020		
Flexible tooling system and method for manufacturing of composite structures	10682821	6/16/2020		
Additively manufacturing structures for increased spray forming resolution or increased fatigue life	10691104	6/23/2020		
Apparatus and methods for joining panels	10703419	7/7/2020		
Methods and apparatus for additively manufactured exoskeleton-based transport structures	10751800	8/25/2020		
Apparatus and methods for additive manufacturing with variable extruder profiles	10751934	8/25/2020		
Methods for producing panels using 3D-printed tooling shells	10759090	9/1/2020		
3-D-printed components including fasteners and methods for producing same	10781846	9/22/2020		
Composite material inlay in additively manufactured structures	10814564	10/27/2020		
Hybrid composite structures with integrated 3-D printed elements	10836120	11/17/2020		
Systems and methods for implementing node to node connections in mechanized assemblies	10895315	1/19/2021		
Scatter reduction in additive manufacturing	10898968	1/26/2021		
Node with co-printed interconnect and methods for producing same	10919230	2/16/2021		
Suspension systems using hydraulic dampers	10926599	2/23/2021		
Methods and apparatus for additively manufactured endoskeleton-based transport structures	10940609	3/9/2021		
Stress-based method for optimization of joint members within a complex structure	10960468	3/30/2021		
Methods and apparatuses for universal interface between parts in transport structures	10960611	3/30/2021		
Systems and methods for vehicle subassembly and fabrication	10960929	3/30/2021		
Automated wrapping of components in transport structures	10994876	5/4/2021		
Methods for additively manufactured identification features	11001047	5/11/2021		
Apparatus and methods for sealing powder holes in additively manufactured parts	11020800	6/1/2021		
Apparatus and methods for additively manufacturing microtube heat exchangers	11022375	6/1/2021		

**Exhibit C
PATENTS**

Title	Patent #	Patent Date	Application #	Application Date
Quick-change end effector	11035511	6/15/2021		
Apparatus and methods for additively manufactured structures with augmented energy absorption properties	11072371	7/27/2021		
Methods and apparatus for forming node to panel joints	11085473	8/10/2021		
Apparatus and methods for connecting nodes to tubes in transport structures	11110514	9/7/2021		
Interconnected deflectable panel and node	11123973	9/21/2021		
3D-printed tooling and methods for producing same	11155005	10/26/2021		
Systems and methods for joining node and tube structures	11174884	11/16/2021		
Systems and methods for arc and node design and manufacture	11192168	12/7/2021		
Wishbone style control arm assemblies and methods for producing same	11203240	12/21/2021		
Systems and methods for joining nodes and other structures	11214317	1/4/2022		
Variable beam geometry laser-based powder bed fusion	11224943	1/18/2022		
3D-printed tooling shells	11247367	2/15/2022		
Manufacturing cell based vehicle manufacturing system and method	11254381	2/22/2022		
Methods and apparatus for manufacturing optimized panels and other composite structures	11260582	3/1/2022		
Single shear joint for node-to-node connections	11267236	3/8/2022		
Spray forming structural joints	11269311	3/8/2022		
Cold-spray nozzle	11292056	4/5/2022		
Apparatus and methods for optimization of powder removal features in additively manufactured components	11292058	4/5/2022		
Apparatus and methods for connecting tubes in transport structures	11306751	4/19/2022		
Robotic assembly of transport structures using on-site additive manufacturing	11358337	6/14/2022		
Multi-circuit single port design in additively manufactured node	11389816	7/19/2022		
Systems and methods for co-printed or concurrently assembled hinge structures	11408216	8/9/2022		
Methods and apparatuses for sealing mechanisms for realizing adhesive connections with additively manufactured components	11413686	8/16/2022		
Systems and methods for co-casting of additively manufactured interface nodes	11420262	8/23/2022		
Exhaust headers with integrated heat shielding and thermal syphoning	11421577	8/23/2022		
Buffer block apparatuses and supporting apparatuses	11433557	9/6/2022		
Apparatus for injecting fluids in node based connections	11441586	9/13/2022		
Systems and methods for high accuracy fixtureless assembly	11449021	9/20/2022		
Custom formed panels for transport structures and methods for assembling same	11479015	10/25/2022		
Selective end effector modular attachment device	11504912	11/22/2022		
Mobile phone	D795828	8/29/2017		

**Exhibit C
PATENTS**

Title	Patent #	Patent Date	Application #	Application Date
Vehicle	D880358	4/7/2020		
Vehicle and/or replica	D911222	2/23/2021		
Vehicle	D780635	2017-03-07		
NODE WITH CO-PRINTED LOCATING FEATURES AND METHODS FOR PRODUCING SAME			15/613,036	6/2/2017
APPARATUS AND METHODS FOR CONNECTING NODES TO TUBES IN TRANSPORT STRUCTURES			15/841,857	12/14/2017
SYSTEMS AND METHODS FOR CO-PRINTED OR CONCURRENTLY ASSEMBLED HINGE STRUCTURES			15/926,847	3/20/2018
CUSTOM ADDITIVELY MANUFACTURED CORE STRUCTURES			15/985,525	5/21/2018
SYSTEMS AND METHODS FOR FLOATING PIN JOINT DESIGN			17/520,543	11/5/2021
METHODS FOR PRODUCING PANELS USING 3D-PRINTED TOOLING SHELLS			15/430,395	2/10/2017
METHODS AND APPARATUS FOR ADDITIVELY MANUFACTURED EXOSKELETON-BASED TRANSPORT STRUCTURES			15/659,601	7/25/2017
METHODS AND APPARATUSES FOR UNIVERSAL INTERFACE BETWEEN PARTS IN TRANSPORT STRUCTURES			15/697,396	9/6/2017
SPRAY FORMING STRUCTURAL JOINTS			16/046,462	7/26/2018
3D-PRINTED TOOLING SHELLS			16/884,808	5/27/2020
INFRARED RADIATION SENSING AND BEAM CONTROL IN ELECTRON BEAM ADDITIVE MANUFACTURING			16/751,821	1/24/2020
METHODS AND APPARATUSES FOR UNIVERSAL INTERFACE BETWEEN PARTS IN TRANSPORT STRUCTURES			17/190,153	3/2/2021
CUSTOM FORMED PANELS FOR TRANSPORT STRUCTURES AND METHODS FOR ASSEMBLING SAME			16/792,048	2/14/2020
RADIATION-ENABLED RETENTION FEATURES FOR FIXTURELESS ASSEMBLY OF NODE-BASED STRUCTURES			16/940,754	7/28/2020
ROBOTIC GRIPPER APPARATUS			17/664,346	5/20/2022
APPARATUS AND METHODS FOR JOINING PANELS			15/600,400	5/19/2017
SYSTEMS AND METHODS FOR JOINING NODE AND TUBE STRUCTURES			15/671,894	8/8/2017
SINGLE SHEAR JOINT FOR NODE-TO-NODE CONNECTIONS			15/924,133	3/16/2018
SYSTEMS AND METHODS FOR INJECTING FLUIDS IN NODE BASED CONNECTIONS			15/990,522	5/25/2018
COLD-SPRAY NOZZLE			16/029,418	7/6/2018
SYSTEMS AND METHODS FOR JOINING NODE AND TUBE STRUCTURES			16/662,666	10/24/2019
SYSTEM AND METHOD FOR POSITIONING ONE OR MORE ROBOTIC APPARATUSES			16/222,981	12/17/2018
SINGLE SHEAR JOINT FOR NODE-TO-NODE CONNECTIONS			17/665,445	2/4/2022
APPARATUSES AND METHODS OF ATTACHING AN ADDITIVELY MANUFACTURED STRUCTURE TO A PROFILE			17/553,453	12/16/2021
AUTOMATED WRAPPING OF COMPONENTS IN TRANSPORT STRUCTURES			16/011,583	6/18/2018
APPARATUS AND METHODS FOR ADDITIVE MANUFACTURING WITH VARIABLE EXTRUDER PROFILES			15/886,761	2/1/2018
VARIABLE BEAM GEOMETRY LASER-BASED POWDER BED FUSION			15/914,874	3/7/2018
ADDITIVELY MANUFACTURING STRUCTURES FOR INCREASED SPRAY FORMING RESOLUTION OR INCREASED FATIGUE LIFE			15/981,775	5/16/2018

**Exhibit C
PATENTS**

Title	Patent #	Patent Date	Application #	Application Date
ADDITIVELY MANUFACTURED STRUCTURES FOR VEHICLE DOORS			16/431,621	6/4/2019
SELECTIVE END EFFECTOR MODULAR ATTACHMENT DEVICE			16/688,365	11/19/2019
APPARATUS AND METHODS FOR ADDITIVE MANUFACTURING WITH VARIABLE EXTRUDER PROFILES			16/840,129	4/3/2020
WISHBONE STYLE CONTROL ARM ASSEMBLIES AND METHODS FOR PRODUCING SAME			16/389,890	4/19/2019
EXHAUST HEADERS WITH INTEGRATED HEAT SHIELDING AND THERMAL SYPHONING			17/184,428	2/24/2021
VARIABLE BEAM GEOMETRY LASER-BASED POWDER BED FUSION			17/547,064	12/9/2021
ULTRASONIC ADDITIVE MANUFACTURING OF BOX-LIKE PARTS			17/520,565	11/5/2021
AUTONOMOUS ITEM DELIVERY			17/561,472	12/23/2021
SUPPORT STRUCTURES IN ADDITIVE MANUFACTURING			15/582,409	4/28/2017
APPARATUS AND METHODS FOR REMOVABLE SUPPORT STRUCTURES IN ADDITIVE MANUFACTURING			15/725,136	10/4/2017
MANUFACTURING CELL BASED VEHICLE MANUFACTURING SYSTEM AND METHOD			15/925,672	3/19/2018
FLEXIBLE TOOLING SYSTEM AND METHOD FOR MANUFACTURING OF COMPOSITE STRUCTURES			15/968,510	5/1/2018
MULTI-CIRCUIT SINGLE PORT DESIGN IN ADDITIVELY MANUFACTURED NODE			15/975,679	5/9/2018
APPARATUS AND METHODS FOR ADDITIVELY MANUFACTURED STRUCTURES WITH AUGMENTED ENERGY ABSORPTION PROPERTIES			16/153,238	10/5/2018
SITU THERMAL TREATMENT FOR PBF SYSTEMS			16/721,797	12/19/2019
3-D PRINTED CHASSIS STRUCTURE WITH SELF-SUPPORTING RIBS			16/740,254	1/10/2020
APPARATUS AND METHODS FOR ADDITIVELY MANUFACTURED STRUCTURES WITH AUGMENTED ENERGY ABSORPTION PROPERTIES			17/374,702	7/13/2021
3-D PRINTED METROLOGY FEATURE GEOMETRY AND DETECTION			17/505,596	10/19/2021
3-D PRINTING USING SPRAY FORMING			15/446,932	3/1/2017
METHODS AND APPARATUS FOR ADDITIVELY MANUFACTURED IDENTIFICATION FEATURES			15/677,734	8/15/2017
SOLAR EXTENDED RANGE ELECTRIC VEHICLE WITH PANEL DEPLOYMENT AND EMITTER TRACKING			15/730,685	10/11/2017
METHODS AND APPARATUS FOR FORMING NODE TO PANEL JOINTS			15/853,301	12/22/2017
METHODS FOR ADDITIVELY MANUFACTURED IDENTIFICATION FEATURES			16/449,216	6/21/2019
APPARATUS AND METHODS FOR ADDITIVELY MANUFACTURING ADHESIVE INLET AND OUTLET PORTS			15/959,036	4/20/2018
FIXTURELESS ROBOTIC ASSEMBLY			16/950,802	11/17/2020
ULTRAVIOLET RADIATION SENSING AND BEAM CONTROL IN ELECTRON BEAM ADDITIVE MANUFACTURING			16/752,378	1/24/2020
METHODS AND APPARATUS FOR FORMING NODE TO PANEL JOINTS			17/378,390	7/16/2021
ADAPTIVE PRODUCTION SYSTEM			17/342,926	6/9/2021
THREE DIMENSIONAL PRINTER WITH CONFIGURABLE BUILD PLATE FOR RAPID POWDER REMOVAL			17/520,582	11/5/2021
VARIABLE BEAM GEOMETRY ENERGY BEAM-BASED POWDER BED FUSION			17/697,829	3/17/2022
ROBOTIC ASSEMBLY OF TRANSPORT STRUCTURES USING ON-SITE ADDITIVE MANUFACTURING			15/604,037	5/24/2017

**Exhibit C
PATENTS**

Title	Patent #	Patent Date	Application #	Application Date
METHODS AND APPARATUS FOR ADDITIVELY MANUFACTURED ENDOSKELETON-BASED TRANSPORT STRUCTURES			15/659,607	7/25/2017
END EFFECTOR FEATURES FOR ADDITIVELY MANUFACTURED COMPONENTS			15/925,640	3/19/2018
APPARATUS AND METHODS FOR SEALING POWDER HOLES IN ADDITIVELY MANUFACTURED PARTS			15/968,708	5/1/2018
METHODS AND APPARATUS FOR ADDITIVELY MANUFACTURED ENDOSKELETON-BASED TRANSPORT STRUCTURES			17/171,867	2/9/2021
METHODS AND APPARATUS FOR SEALING MECHANISMS FOR REALIZING ADHESIVE CONNECTIONS WITH ADDITIVELY MANUFACTURED COMPONENTS			16/812,116	3/6/2020
ROBOTIC ASSEMBLY CELL			16/926,584	7/10/2020
ENERGY UNIT CELLS FOR PRIMARY VEHICLE STRUCTURE			17/578,367	1/18/2022
ROBOTIC ASSEMBLY OF TRANSPORT STRUCTURES USING ON-SITE ADDITIVE MANUFACTURING			17/744,381	5/13/2022
MATERIAL HANDLING IN ADDITIVE MANUFACTURING			15/607,055	5/26/2017
SYSTEMS AND METHODS FOR IMPLEMENTING NODE TO NODE CONNECTIONS IN MECHANIZED ASSEMBLIES			15/644,719	7/7/2017
SYSTEMS AND METHODS FOR IMPLEMENTING NODE TO NODE CONNECTIONS IN MECHANIZED ASSEMBLIES			17/118,402	12/10/2020
THREE-DIMENSIONAL PRINTER AND METHODS FOR ASSEMBLING PARTS VIA INTEGRATION OF ADDITIVE AND CONVENTIONAL MANUFACTURING OPERATIONS			16/792,124	2/14/2020
IMPACT ENERGY ABSORBER WITH INTEGRATED ENGINE EXHAUST NOISE MUFFLER			17/178,048	2/17/2021
MECHANICAL PART RETENTION FEATURES FOR ADDITIVELY MANUFACTURED STRUCTURES			16/999,494	8/21/2020
METHODS AND APPARATUS FOR BALL MILLING TO PRODUCE POWDER FOR ADDITIVE MANUFACTURING			17/481,239	9/21/2021
IN SITU MULTI-PHASE SENSING FOR 3D PRINTING			17/478,525	9/17/2021
REAL TIME QUALITY ASSURANCE FOR ADDITIVE MANUFACTURING			17/478,596	9/17/2021
MOBILE ASSEMBLY CELL LAYOUT			17/487,952	9/28/2021
ISOCYANURATE RESIN COMPOSITIONS			17/527,101	11/15/2021
INTEGRATED UPRIGHT AND DRIVE ELEMENTS			17/543,681	12/6/2021
MULTI-COMPONENT STRUCTURE OPTIMIZATION FOR COMBINING 3-D PRINTED AND COMMERCIALY AVAILABLE PARTS			17/522,690	11/9/2021
ALUMINUM ALLOYS AND STRUCTURES			17/556,961	12/20/2021
MODULAR PLUNGER FOR A HYDROCARBON WELLBORE			15/235,426	8/12/2016
SCATTER REDUCTION IN ADDITIVE MANUFACTURING			15/582,493	4/28/2017
MULTI-MATERIALS AND PRINT PARAMETERS FOR ADDITIVE MANUFACTURING			15/582,485	4/28/2017
APPARATUS AND METHODS FOR CONNECTING TUBES IN TRANSPORT STRUCTURES			15/692,729	8/31/2017
APPARATUS AND METHODS FOR OPTIMIZATION OF POWDER REMOVAL FEATURES IN ADDITIVELY MANUFACTURED COMPONENTS			15/702,543	9/12/2017
QUICK-CHANGE END EFFECTOR			16/000,137	6/5/2018
METROLOGY APPARATUS TO FACILITATE CAPTURE OF METROLOGY DATA			16/222,953	12/17/2018
POWDER BED FUSION RE-COATERS WITH HEAT SOURCE FOR THERMAL MANAGEMENT			16/692,918	11/22/2019
SCATTER REDUCTION IN ADDITIVE MANUFACTURING			17/125,796	12/17/2020

**Exhibit C
PATENTS**

Title	Patent #	Patent Date	Application #	Application Date
MULTI-MATERIAL POWDER BED FUSION 3-D PRINTER			16/792,113	2/14/2020
APPARATUS AND METHODS FOR OPTIMIZATION OF POWDER REMOVAL FEATURES IN ADDITIVELY MANUFACTURED COMPONENTS			17/681,142	2/25/2022
BUS BARS FOR PRINTED STRUCTURAL ELECTRIC BATTERY MODULES			17/578,357	1/18/2022
ROTATIONAL ADDITIVE MANUFACTURING SYSTEMS AND METHODS			17/690,984	3/9/2022
ROTATIONAL ADDITIVE MANUFACTURING SYSTEMS AND METHODS			17/690,959	3/9/2022
ROTATIONAL ADDITIVE MANUFACTURING SYSTEMS AND METHODS			17/690,901	3/9/2022
MOBILE PARTS TABLE			17/731,092	4/27/2022
SYSTEMS AND METHODS FOR ARC AND NODE DESIGN AND MANUFACTURE			15/619,326	6/9/2017
ADDITIVE MANUFACTURING CONTROL SYSTEMS			15/582,457	4/28/2017
APPARATUS AND METHODS FOR ADDITIVELY MANUFACTURING MICROTUBE HEAT EXCHANGERS			15/643,405	7/6/2017
SYSTEMS AND METHODS FOR ARC AND NODE DESIGN AND MANUFACTURE			16/162,307	10/16/2018
COMPOSITE MATERIAL INLAY IN ADDITIVELY MANUFACTURED STRUCTURES			15/730,675	10/11/2017
STRUCTURES AND METHODS FOR HIGH VOLUME PRODUCTION OF COMPLEX STRUCTURES USING INTERFACE NODES			15/809,913	11/10/2017
SUSPENSION SYSTEMS USING HYDRAULIC DAMPERS			15/829,845	12/1/2017
ASSEMBLING STRUCTURES COMPRISING 3D PRINTED COMPONENTS AND STANDARDIZED COMPONENTS UTILIZING ADHESIVE CIRCUITS			15/855,800	12/27/2017
ADDITIVE MANUFACTURING-ENABLED PLATFORM FOR MODULAR CONSTRUCTION OF VEHICLES USING DEFINITION NODES			16/439,615	6/12/2019
HYBRID COMPOSITE STRUCTURES WITH INTEGRATED 3-D PRINTED ELEMENTS			16/114,035	8/27/2018
METHODS AND APPARATUS FOR MANUFACTURING OPTIMIZED PANELS AND OTHER COMPOSITE STRUCTURES			16/162,301	10/16/2018
3-D PRINTER WITH MANIFOLDS FOR GAS EXCHANGE			16/678,625	11/8/2019
COMPOSITE MATERIAL INLAY IN ADDITIVELY MANUFACTURED STRUCTURES			17/027,580	9/21/2020
THERMAL ELEMENTS FOR DISASSEMBLY OF NODE-BASED ADHESIVELY BONDED STRUCTURES			17/556,516	12/20/2021
ALUMINUM ALLOYS AND STRUCTURES			17/556,973	12/20/2021
METHODS AND APPARATUS FOR MANUFACTURING OPTIMIZED PANELS AND OTHER COMPOSITE STRUCTURES			17/583,109	1/24/2022
STRESS-BASED METHOD FOR OPTIMIZATION OF JOINT MEMBERS WITHIN A COMPLEX STRUCTURE			15/809,528	11/10/2017
3D-PRINTED TOOLING AND METHODS FOR PRODUCING SAME			15/430,385	2/10/2017
NODE WITH CO-PRINTED INTERCONNECT AND METHODS FOR PRODUCING SAME			15/619,379	6/9/2017
APPARATUS AND METHODS FOR CONNECTING NODES TO PANELS IN TRANSPORT STRUCTURES			15/687,409	8/25/2017
SYSTEMS AND METHODS FOR CO-CASTING OF ADDITIVELY MANUFACTURED INTERFACE NODES			15/885,350	1/31/2018
ALUMINUM ALLOY COMPOSITIONS			16/526,679	7/30/2019
ALUMINUM ALLOYS			16/526,691	7/30/2019
NODE WITH CO-PRINTED INTERCONNECT AND METHODS FOR PRODUCING SAME			17/150,226	1/15/2021

**Exhibit C
PATENTS**

Title	Patent #	Patent Date	Application #	Application Date
ASSEMBLY SEQUENCE GENERATION			17/467,945	9/7/2021
DIRECT INJECT JOINT ARCHITECTURE ENABLED BY QUICK CURE ADHESIVE			17/548,180	12/10/2021
VIRTUAL RAILROAD			17/574,513	1/12/2022
STRUCTURE AS A SENSOR			17/723,253	4/18/2022
REMOVAL OF SUPPORTS, AND OTHER MATERIALS FROM SURFACE, AND WITHIN HOLLOW 3D PRINTED PARTS			17/728,476	4/25/2022
ROBOT CALIBRATION			17/728,288	4/25/2022
MECHANISM FOR CURING ADHESIVE IN A ROBOTIC ASSEMBLY CELL			17/747,597	5/18/2022
SYSTEMS AND METHODS FOR ADDITIVE MANUFACTURING OF TRANSPORT STRUCTURES			15/604,624	5/24/2017
POWDER-BED FUSION BEAM SCANNING			15/582,470	4/28/2017
INTERCONNECTED DEFLECTABLE PANEL AND NODE AND METHODS FOR PRODUCING SAME			15/616,620	6/7/2017
3-D-PRINTED COMPONENTS INCLUDING FASTENERS AND METHODS FOR PRODUCING SAME			15/627,103	6/19/2017
SYSTEMS AND METHODS FOR JOINING NODES AND OTHER STRUCTURES			15/961,767	4/24/2018
SURROGATE SUPPORTS IN ADDITIVE MANUFACTURING			16/568,188	9/11/2019
SYSTEMS AND METHODS FOR ADHESIVE-BASED PART RETENTION FEATURES IN ADDITIVELY MANUFACTURED STRUCTURES			16/184,801	11/8/2018
SYSTEMS AND METHODS FOR HIGH ACCURACY FIXTURELESS ASSEMBLY			16/222,926	12/17/2018
3-D PRINTER WITH GAS EXCHANGE MECHANISM FOR REMOVING CONTAMINANTS DURING RE-COATING			16/774,982	1/28/2020
OMNI-POSITIONAL ADHESION DEVICE			16/800,940	2/25/2020
ULTRASONIC DEHUMIDIFICATION IN POWDER BED FUSION ADDITIVE MANUFACTURING			16/803,799	2/27/2020
INTERCONNECTED DEFLECTABLE PANEL AND NODE AND METHODS FOR PRODUCING SAME			17/408,324	8/20/2021
SYSTEMS AND METHODS FOR JOINING NODES AND OTHER STRUCTURES			17/536,722	11/29/2021
HYBRID PROCESSING OF FREEFORM DEPOSITION MATERIAL BY PROGRESSIVE FORGING			17/548,095	12/10/2021
SYSTEMS AND METHODS FOR JOINING NODES AND OTHER STRUCTURES			17/540,151	12/1/2021
3-D PRINTABLE ALLOYS			17/239,486	4/23/2021
APPARATUS FOR MULTI-SCALE DIRECTED ENERGY DEPOSITION WITH INTEGRAL NON- ABRASIVE REDUCTION OF WAVINESS			17/665,980	2/7/2022
NODES WITH INTEGRATED ADHESIVE PORTS AND CHANNELS FOR CONSTRUCTION OF COMPLEX STRUCTURES			15/716,217	9/26/2017
BUFFER BLOCK APPARATUSES AND SUPPORTING APPARATUSES			16/553,017	8/27/2019
SYSTEMS AND METHODS FOR FABRICATING JOINT MEMBERS			14/788,154	6/30/2015
SYSTEMS AND METHODS FOR VEHICLE SUBASSEMBLY AND FABRICATION			15/253,826	8/31/2016
SYSTEMS AND METHODS FOR VEHICLE SUBASSEMBLY AND FABRICATION			17/176,457	2/16/2021
MODULAR FORMED NODES FOR VEHICLE CHASSIS AND THEIR METHODS OF USE			14/713,272	5/15/2015