

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

Assignment ID: PATI894582

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	SECURITY INTEREST

**CONVEYING PARTY DATA**

Name	Execution Date
Relativity Space, Inc.	03/12/2025

**RECEIVING PARTY DATA**

<b>Company Name:</b>	Space Lender, LLC
<b>Street Address:</b>	6450 Sunset Boulevard
<b>Internal Address:</b>	#1195
<b>City:</b>	Hollywood
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	90028

**PROPERTY NUMBERS Total: 49**

Property Type	Number
Application Number:	14965275
Application Number:	17929558
Application Number:	16862075
Application Number:	18363527
Application Number:	15619401
Application Number:	15604473
Application Number:	16234325
Application Number:	16696720
Application Number:	17378875
Application Number:	16933637
Application Number:	15636591
Application Number:	15941375
Application Number:	18085921
Application Number:	18485136
Application Number:	17850869
Application Number:	18176955
Application Number:	18631470
Application Number:	18791284
Application Number:	18821783

PATENT

Property Type	Number
Application Number:	29960550
Application Number:	29950556
Application Number:	29960561
Application Number:	18821751
Application Number:	18821814
Application Number:	18515033
Application Number:	18607251
Application Number:	18789574
Application Number:	18160786
Application Number:	18930919
Application Number:	29945196
Application Number:	19000452
Application Number:	18352992
Application Number:	18757330
Application Number:	18146292
Application Number:	18753762
Application Number:	18892157
Application Number:	18595196
Application Number:	18430464
Application Number:	18757320
Application Number:	18312437
Application Number:	63643831
Application Number:	63676846
Application Number:	63709223
Application Number:	18352995
Application Number:	18486101
Application Number:	17544408
Application Number:	18451688
Application Number:	18330987
Application Number:	18825885

**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.*

**Phone:** (214)965-7237

**Email:** docket@bakermckenzie.com,laurie.fielder@bakermckenzie.com

**Correspondent Name:** Laurie Fielder

**Address Line 1:** 1900 N. Pearl Street

**Address Line 2:** Suite 1500

**Address Line 4:** Dallas, TEXAS 75201

**ATTORNEY DOCKET NUMBER:** 23562

**NAME OF SUBMITTER:** Laurie Fielder

**SIGNATURE:** /Laurie Fielder/

**DATE SIGNED:** 03/21/2025

**Total Attachments: 12**

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## Patent Security Agreement

This **Patent Security Agreement**, dated as of March 12, 2025, by Relativity Space, Inc., a Delaware corporation (the “**Pledgor**”), in favor of Space Lender, LLC (together with its successors and assigns, the “**Initial Lender**” and, together with any other Lender under the Note (as defined below) from time to time, the “**Lenders**”)

### WITNESSETH:

WHEREAS, the Pledgor is party to that certain Security Agreement, dated as of March 4, 2025 (as amended, restated, amended and restated, supplemented or otherwise modified from time to time, the “**Security Agreement**”), in favor of the Initial Lender pursuant to which the Pledgor is required to execute and deliver this Patent Security Agreement;

NOW, THEREFORE, in consideration of the premises and to induce the Initial Lender and the other Lenders from time to time to make loans under the Note, the Pledgor hereby agrees with the Initial Lender as follows:

SECTION 1. **Defined Terms.** Unless otherwise defined herein, terms defined in the Security Agreement and used herein have the respective meanings given to them in the Security Agreement.

SECTION 2. **Grant of Security Interest in Patent Collateral.** As collateral security for the payment and performance in full of the Secured Obligations, the Pledgor hereby pledges and grants to the Initial Lender a lien on and security interest in all of its right, title and interest in, to and under the following property, wherever located, and whether now existing or hereafter arising or acquired from time to time (in each case, other than Excluded Assets) (collectively, “**Patent Collateral**”):

- (a) all Patents of the Pledgor, including those Patents listed on Schedule I attached hereto; and
- (b) all Proceeds of any and all of the foregoing.

SECTION 3. **Security Agreement.** The security interest granted pursuant to this Patent Security Agreement is granted in conjunction with the security interest granted to the Initial Lender pursuant to the Security Agreement and the Pledgor hereby acknowledges and affirms that the rights and remedies of the Initial Lender with respect to the security interest in the Patents made and granted hereby are more fully set forth in the Security Agreement, the terms and provisions of which are incorporated by reference herein as if fully set forth herein. In the event that any provision of this Patent Security Agreement is deemed to conflict with the Security Agreement, the provisions of the Security Agreement shall control unless the Initial Lender shall otherwise determine in its sole discretion.

SECTION 4. **Recordation.** The Pledgor authorizes the Commissioner for Patents and any other appropriate government official to record and register this Patent Security Agreement upon request by the Initial Lender.

SECTION 5. **Termination.** Upon the payment in full of the Secured Obligations (other than contingent indemnification obligations for which no claim has been asserted) and termination of the Security Agreement, at the request of the Pledgor in writing, at the Pledgor’s expense, the Initial Lender shall execute, acknowledge, and deliver to the Pledgor an instrument in writing in recordable form releasing

the collateral pledge, grant, assignment, lien and security interest in the Patents under this Patent Security Agreement.

SECTION 6. Counterparts. This Patent Security Agreement may be executed in any number of counterparts, all of which shall constitute one and the same instrument, and any party hereto may execute this Patent Security Agreement by signing and delivering one or more counterparts.

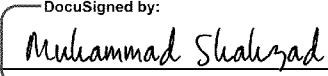
SECTION 7. Governing Law. This Patent Security Agreement shall be governed by and construed in accordance with the law of the State of New York, without regard to conflicts of law principles thereof.

SECTION 8. Collateral Document. This Patent Security Agreement is a Collateral Document under and as defined in the Note.

[signature pages follow]

IN WITNESS WHEREOF, the Pledgor has caused this Patent Security Agreement to be executed and delivered by its duly authorized officer as of the date first set forth above.

RELATIVITY SPACE, INC.

By:  \_\_\_\_\_  
Name: <sup>FABDD883D33B46A...</sup>Muhammad Shahzad  
Title: President & Chief Financial Officer

Accepted and Agreed:

SPACE LENDER, LLC,  
as the Initial Lender

By: Signed by:  
*Neil Markel*  
2CAFCEB2AF80E488...  
Name: Neil Markel  
Title: Authorized Signatory

**SCHEDULE I**  
to  
**PATENT SECURITY AGREEMENT**  
**PATENTS AND PATENT APPLICATIONS**

**Patents:**

<b>Title</b>	<b>Jurisdiction</b>	<b>Application No.</b>	<b>Filing Date</b>	<b>Patent No.</b>	<b>Issue Date</b>	<b>Status</b>	<b>Current Owner of Record</b>
Additive Manufacturing of Metallic Structures	United States	14/965,275	12/10/2015	10086467	10/2/2018	Issued	Relativity Space, Inc.
Aluminum Alloy Compositions, Articles Therefrom, and Methods of Producing Articles Therefrom	United States	17/929,558	9/2/2022	12031199	7/9/2024	Issued	Relativity Space, Inc.
Interactive Slicing Methods and Systems for Generating Toolpaths for Printing Three-Dimensional Objects	United States	16/862,075	4/29/2020	11718036	8/8/2023	Issued	Relativity Space, Inc.
Interactive Slicing Methods and Systems for Generating Toolpaths for Printing Three-Dimensional Objects	United States	18/363,527	8/1/2023	12059845	8/13/2024	Issued	Relativity Space, Inc.
Methods for Printing Three-Dimensional Objects	United States	15/619,401	6/9/2017	9956640	5/1/2018	Issued	Relativity Space, Inc.
REAL-TIME ADAPTIVE CONTROL OF ADDITIVE MANUFACTURING PROCESSES USING MACHINE LEARNING	United States	15/604,473	5/24/2017	10234848	3/19/2019	Issued	Relativity Space, Inc.
REAL-TIME ADAPTIVE CONTROL OF ADDITIVE MANUFACTURING	United States	16/234,325	12/27/2018	10539952	1/21/2020	Issued	Relativity Space, Inc.



Title	Jurisdiction	Application No.	Filing Date	Patent No.	Issue Date	Status	Current Owner of Record
PROCESSES USING MACHINE LEARNING							
REAL-TIME ADAPTIVE CONTROL OF ADDITIVE MANUFACTURING PROCESSES USING MACHINE LEARNING	United States	16/696,720	11/26/2019	10921782	2/16/2021	Issued	Relativity Space, Inc.
SYSTEMS AND METHODS FOR THREE-DIMENSIONAL PRINTING	United States	17/378,875	7/19/2021	12093018	9/17/2024	Issued	Relativity Space, Inc.
SYSTEMS AND METHODS FOR USING WIRE PRINTING PROCESS DATA TO PREDICT MATERIAL PROPERTIES AND PART QUALITY	United States	16/933,637	7/20/2020	11853033	12/26/2023	Issued	Relativity Space, Inc.
Systems for Printing Three-Dimensional Objects	United States	15/636,591	6/28/2017	10029406	7/24/2018	Issued	Relativity Space, Inc.
Systems for Printing Three-Dimensional Objects	United States	15/941,375	3/30/2018	10335889	7/2/2019	Issued	Relativity Space, Inc.
Systems for Printing Three-Dimensional Objects	United States	18/085,921	12/21/2022	11813690	11/14/2023	Issued	Relativity Space, Inc.
Systems for Printing Three-Dimensional Objects	United States	18/485,136	10/11/2023	12090565	9/17/2024	Issued	Relativity Space, Inc.
TWO-PART COUPLING	United States	17/850,869	6/27/2022	12018786	6/24/2024	Issued	Relativity Space, Inc.
VALVES AND VALVE ASSEMBLIES	United States	18/176,955	3/1/2023	12110976	10/8/2024	Issued	Relativity Space, Inc.

**Patent Applications:**

Title	Jurisdiction	Application No.	Filing Date	Patent No.	Issue Date	Status	Current Owner of Record
Chine-backed Flame Diverter for Rocket Systems	United States	18/631,470	4/10/2024			Published	Relativity Space, Inc.
FLUID FLUSHING SYSTEMS FOR FOREIGN OBJECT DEBRIS AMELIORATION, AND METHODS AND DEVICES RELATED THERETO	United States	18/791,284	7/31/2024			Pending	Relativity Space, Inc.
Using Different Additive Manufacturing Processes To Produce A Part	United States	18/821,783	8/30/2024			Pending	Relativity Space, Inc.
Mandrel Adapter Plate	United States	29/960,550	8/30/2024			Pending; Design	Relativity Space, Inc.
Mandrel	United States	29/950,556	8/30/2024			Pending; Design	Relativity Space, Inc.
Mandrel With Adapter Plate	United States	29/960,561	8/30/2024			Pending; Design	Relativity Space, Inc.
INSERTING A MANDREL INTO A PART WHILE 3D PRINTING TO CIRCULARIZE THE PART	United States	18/821,751	8/30/2024			Pending	Relativity Space, Inc.
Additive Manufacturing A Part Using Struts	United States	18/821,814	8/30/2024			Pending	Relativity Space, Inc.
Additively Manufactured Combustion Chambers, Manifold Structures and Hybrid Additive Processes Related Thereto	United States	18/515,033	11/20/2023			Published	Relativity Space, Inc.

Title	Jurisdiction	Application No.	Filing Date	Patent No.	Issue Date	Status	Current Owner of Record
Additive Manufacturing Using Multiple Metallic Materials	United States	18/607,251	3/15/2024			Published	Relativity Space, Inc.
Additive Manufacturing Using Multiple Metallic Materials	United States	18/789,574	7/30/2024			Published	Relativity Space, Inc.
Additively Manufactured Bellows	United States	18/160,786	1/27/2023			Published	Relativity Space, Inc.
Systems of Solenoid Cartridge Valves	United States	18/930,919	10/29/2024			Pending	Relativity Space, Inc.
Solenoid-Manifold Interface	United States	29/945,196	5/31/2024			Pending; Design	Relativity Space, Inc.
MANIFOLDS FOR USE WITH INSERTABLE OR INSTALLABLE VALVES	United States	19/000,452	12/23/2024			Pending	Relativity Space, Inc.
Systems for Horizontal Wire Arc Additive Manufacturing and Methods Thereof	United States	18/352,992	7/14/2023			Published	Relativity Space, Inc.
Systems for Printing Three-Dimensional Objects	United States	18/757,330	6/27/2024			Published	Relativity Space, Inc.
Methods and Apparatuses Related to Payload Launch Vehicles	United States	18/146,292	12/23/2022			Pending	Relativity Space, Inc.
Methods and Apparatuses Related to Payload Launch Vehicles	United States	18/753,762	6/25/2024			Published	Relativity Space, Inc.
Additive Manufacturing System using Inductive Heating	United States	18/892,157	9/20/2024			Pending	Relativity Space, Inc.
SYSTEMS AND METHODS FOR CRYOGENIC WELDING	United States	18/595,196	3/4/2024			Pending	Relativity Space, Inc.

Title	Jurisdiction	Application No.	Filing Date	Patent No.	Issue Date	Status	Current Owner of Record
Dual Plasma Wire Arc Additive Manufacturing with Multi-Wire Feed	United States	18/430,464	2/1/2024			Published	Relativity Space, Inc.
Plasma Arc Surface Smoothing	United States	18/757,320	6/27/2024			Published	Relativity Space, Inc.
Cold Working During Additive Manufacturing	United States	18/312,437	5/4/2023			Published	Relativity Space, Inc.
Weave Axis On Additive Manufacturing End Effector	United States	63/643,831	5/7/2024			Pending	Relativity Space, Inc.
Cryogenic nozzle for vertical printing	United States	63/676,846	7/29/2024			Pending	Relativity Space, Inc.
Dual plasma additive printing head	United States	63/709,223	10/18/2024			Pending	Relativity Space, Inc.
Modular Metal 3-D Printer Build Plate	United States	18/352,995	7/14/2023			Published	Relativity Space, Inc.
Systems for Localized Work Return Path and Methods Thereof	United States	18/486,101	10/12/2023			Published	Relativity Space, Inc.
SYSTEMS AND METHODS FOR INCREASING DEPOSITION RATES USING MULTIPLE FEED WIRES AND DEPOSITION	United States	17/544,408	12/7/2021			Published	Relativity Space, Inc.
Multiple Wire Additive Manufacturing	United States	18/451,688	8/17/2023			Published	Relativity Space, Inc.
Printing Heads and Associated Methods	United States	18/330,987	6/7/2023			Published	Relativity Space, Inc.

Title	Jurisdiction	Application No.	Filing Date	Patent No.	Issue Date	Status	Current Owner of Record
Wire Holding Open-Tipped Contact Tips for Wire Arc Additive Manufacturing	United States	18/825,885	9/5/2024			Pending	Relativity Space, Inc.
Interactive Slicing Methods and Systems for Generating Toolpaths for Printing Three-Dimensional Objects	United States	18/737,903	6/7/2024			Published	Relativity Space, Inc.
SYSTEMS AND METHODS FOR THREE-DIMENSIONAL PRINTING	United States	18/664,074	5/15/2024			Published	Relativity Space, Inc.
SYSTEMS AND METHODS FOR THREE-DIMENSIONAL PRINTING	United States	18/679,175	5/30/2024			Published	Relativity Space, Inc.
SYSTEMS AND METHODS FOR USING WIRE PRINTING PROCESS DATA TO PREDICT MATERIAL PROPERTIES AND PART QUALITY	United States	18/508,075	11/13/2023			Published	Relativity Space, Inc.
Predicting Process Control Parameters for Fabricating an Object Using Deposition	United States	18/502,964	11/6/2023			Published	Relativity Space, Inc.
CONTROL ARCHITECTURE FOR ADDITIVE MANUFACTURING ROBOTIC SYSTEMS	United States	18/791,302	7/31/2024			Pending	Relativity Space, Inc.
Multi-Diameter Wire Feeder	United States	17/098,564	11/16/2020			Published	Relativity Space, Inc.

Title	Jurisdiction	Application No.	Filing Date	Patent No.	Issue Date	Status	Current Owner of Record
Multi-Diameter Wire Feeder	United States	18/665,496	5/15/2024			Published	Relativity Space, Inc.
CLOSED-LOOP PRELOAD FOR WIRE FEEDING	United States	17/098,588	11/16/2020			Published	Relativity Space, Inc.
Wire Buffer for Wire Arc Additive Manufacturing	United States	29/875,655	5/8/2023			Pending, Design	Relativity Space, Inc.
Multewire Spiral Buffer	United States	18/658,714	5/8/2024			Published	Relativity Space, Inc.
Aluminum Alloy Compositions, Articles Therefrom, and Methods of Producing Articles Therefrom	United States	18/478,703	9/29/2023			Published	Relativity Space, Inc.
Aluminum Alloy Compositions, Articles Therefrom, and Methods of Producing Articles Therefrom	United States	18/437,077	2/8/2024			Pending	Relativity Space, Inc.
Additively Manufactured Representative Witness Coupon Techniques	United States	63/757,264	2/11/2025			Pending	Relativity Space, Inc.
Automated Defect Recognition and Determinations of Pore Cluster Compliance	United States	18/929,462	10/28/2024			Pending	Relativity Space, Inc.
Crucible Additive Demonstration Article Design	United States	29/988,213	1/30/2025			Pending, Design	Relativity Space, Inc.
DELIBERATE DEFECT INTRODUCTION IN ADDITIVE MANUFACTURING	United States	63/716,673	11/5/2024			Pending	Relativity Space, Inc.
Hydrant Additive Demonstration Article Design	United States	29/979,930	12/20/2024			Pending, Design	Relativity Space, Inc.

Title	Jurisdiction	Application No.	Filing Date	Patent No.	Issue Date	Status	Current Owner of Record
METHODS AND DEVICES FOR ALIGNMENT AND JOINING LARGE COMPONENTS	United States	63/717,726	11/7/2024			Pending	Relativity Space, Inc.
Systems and Methods for Additive Deposition Patterns	United States	63/757,266	2/11/2025			Pending	Relativity Space, Inc.
Systems and Methods for Automated Deposition Additive Manufacturing	United States	63/757,268	2/11/2025			Pending	Relativity Space, Inc.
Terran R passively deployed landing legs	United States	63/768,095	3/6/2025			Pending	Relativity Space, Inc.
Two stage rocket with pressurant COPVs submerged in heterogeneous	United States	63/768,142	3/6/2025			Pending	Relativity Space, Inc.

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RECORDED: 03/21/2025