

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
DANIEL SHAPIRO	12/07/2017
MARK GOSSELIN	02/08/2019
MATTHEW SARNOFF	02/01/2019
RECEIVING PARTY DATA	
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State/Country:	WASHINGTON
Postal Code:	98134
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16717730
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NAME OF SUBMITTER:	LI (LILY) ZHANG
SIGNATURE:	/li zhang/
DATE SIGNED:	12/17/2019
Total Attachments: 6	
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ASSIGNMENT

WHEREAS, DANIEL SHAPIRO of Mercer Island, Washington (hereinafter referred to as Assignor), is the sole and exclusive owner, by assignment, of the Patent Applications listed in *Schedule A*; and

WHEREAS, Glowforge, Inc., a corporation organized under and pursuant to the laws of the United States having its principal place of business at 2200 First Avenue South, First Floor, Seattle Washington, 98134 (hereinafter referred to as Assignee), is desirous of acquiring the right, title and interest in, to and under said Patent Applications listed in *Schedule A* and the inventions covered thereby;

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, the said Assignor has sold, assigned, transferred and set over, and does hereby sell, assign, transfer and set over to the said Assignee, the entire right, title and interest for the United States of America and all other countries in and to said Patent Applications for all original, divisional, continuation, continuation-in-part, substitute or reissue applications and patents applied for or granted therefore in the United States of America and all other countries on the attached list of *Schedule A*, and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on *Schedule A* to said Assignee herein, as Assignee of the entire interest therein; and the undersigned for itself and its legal representatives, heirs and assigns does hereby agree and covenant without further remuneration, to execute and deliver all divisional, continuation, continuation-in-part, reissue and other applications for Letters Patent and all assignments thereof to said Assignee or its assigns, to communicate to said Assignee or its representatives all facts known to the undersigned respecting said inventions listed on *Schedule A* whenever requested, to testify in any interferences or other legal proceedings in which said application or patent may become involved, to sign all lawful papers, make all rightful oaths, and do generally everything necessary to aid Assignee, its successors, assigns and nominees to obtain patent protection for said invention listed on *Schedule A* in the United States of America and all other countries, the expenses incident to said application listed on *Schedule A* to be borne and paid by said Assignee.

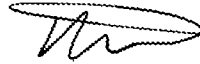
SCHEDULE A

Application Number	Filing Date	Inventor	Title	Ctry
62/426,424	November 25, 2016	Daniel Shapiro	LASER CUTTER HOUSING	US
PCT/US2017/063187	November 24, 2017	Daniel Shapiro	HOUSING FOR COMPUTER-NUMERICALLY-CONTROLLED MACHINE	WO
15/823,499	November 27, 2017	Daniel Shapiro	HOUSING FOR COMPUTER-NUMERICALLY-CONTROLLED MACHINE	US
62/426,425	November 25, 2016	Daniel Shapiro	LASER FABRICATION USING IMAGE TRACING	US
PCT/US2017/063188	November 24, 2017	Daniel Shapiro	FABRICATION WITH IMAGE TRACING	WO
15/823,502	November 27, 2017	Daniel Shapiro	FABRICATION WITH IMAGE TRACING	US
62/426,435	November 25, 2016	Daniel Shapiro	ENGRAVING IN A CNC MACHINE	US
PCT/US2017/063189	November 24, 2017	Daniel Shapiro	IMPROVED ENGRAVING IN A COMPUTER NUMERICALLY CONTROLLED MACHINE	WO
15/823,505	November 27, 2017	Daniel Shapiro	IMPROVED ENGRAVING IN A COMPUTER NUMERICALLY CONTROLLED MACHINE	US
62/426,432	November 25, 2016	Daniel Shapiro	MULTI-USER COMPUTER-NUMERICALLY-CONTROLLED MACHINE	US
PCT/US2017/063190	November 24, 2017	Daniel Shapiro	MULTI-USER COMPUTER-NUMERICALLY-CONTROLLED MACHINE	WO
15/823,509	November 27, 2017	Daniel Shapiro	MULTI-USER COMPUTER-NUMERICALLY-CONTROLLED MACHINE	US
62/426,437	November 25, 2016	Daniel Shapiro	CALIBRATION OF OPTICAL AND MECHANICAL SYSTEMS ON A CNC MACHINE	US
PCT/US2017/063191	November 24, 2017	Daniel Shapiro	CALIBRATION OF A COMPUTER-NUMERICALLY-CONTROLLED MACHINE	WO
15/823,511	November 27, 2017	Daniel Shapiro	CALIBRATION OF A COMPUTER-NUMERICALLY-CONTROLLED MACHINE	US
62/426,438	November 25, 2016	Daniel Shapiro	PRESET OPTICAL COMPONENTS IN A CNC MACHINE	US
PCT/US2017/063192	November 24, 2017	Daniel Shapiro	PRESET OPTICAL COMPONENTS IN A COMPUTER NUMERICALLY CONTROLLED MACHINE	WO
15/823,512	November 27, 2017	Daniel Shapiro	PRESET OPTICAL COMPONENTS IN A COMPUTER NUMERICALLY CONTROLLED MACHINE	US

Daniel Shapiro to Glowforge Inc.


62/426,427	November 25, 2016	Daniel Shapiro	CONTROLLED DECELERATION OF MOVING COMPONENTS IN A CNC MACHINE	US
PCT/US2017/063193	November 24, 2017	Daniel Shapiro	CONTROLLED DECELERATION OF MOVEABLE COMPONENTS IN A COMPUTER NUMERICALLY CONTROLLED MACHINE	WO
15/823,513	November 27, 2017	Daniel Shapiro	CONTROLLED DECELERATION OF MOVEABLE COMPONENTS IN A COMPUTER NUMERICALLY CONTROLLED MACHINE	US

Date: 12/07/2017



DANIEL SHAPIRO

Witnessed by:



12/07/2017

Signature

Date

Penelope E. Ackerman

Print Name

Witnessed by:

Signature

Date

Print Name

ASSIGNMENT

We, **Mark Gosselin and Matthew Sarnoff**, the undersigned, herein referred to as the ASSIGNOR, for good and valuable consideration, the receipt of which is hereby acknowledged, confirm that we have sold and assigned, and do hereby assign, sell and transfer to **Glowforge, Inc.**, with an office at **2200 First Avenue South, First Floor, Seattle Washington, 98134** and to its successors, assigns and legal representatives, collectively hereinafter referred to as the ASSIGNEE: (1) our entire right, title and interest for the United States and in all countries, in and to any and all inventions, discoveries and applications which are disclosed in the application for United States Letters Patent entitled:

CONTROLLED DECELERATION OF MOVEABLE COMPONENTS IN A COMPUTER NUMERICALLY CONTROLLED MACHINE

and electronically filed with the U.S. Patent and Trademark Office on **November 27, 2017**, and assigned Application No. **15/823,513**, including any subsequently filed utility applications, which claim priority to Application No. **62/426,427**, including any renewals, revivals, reissues, reexaminations, extensions, continuations and divisions thereof and any substitute applications therefor; (2) the full and complete right to file patent applications in the name of the ASSIGNEE, its designee, or in our names as the ASSIGNEE, or its designee's election, on the aforesaid inventions, discoveries and applications in all countries of the world; (3) the entire right, title and interest in and to any Letters Patent which may issue thereon in the United States or in any country, and any renewals, revivals, reissues, reexaminations and extensions thereof, and any patents of confirmation, registration and importation of the same; and (4) the entire right, title and interest in all Convention and Treaty Rights of all kinds thereon, including without limitation all rights of priority in any country of the world, in and to the above inventions, discoveries and applications.

We hereby authorize and request the competent authorities to grant and to issue any and all such Letters Patent in the United States and throughout the world to the ASSIGNEE of the entire right, title and interest therein, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

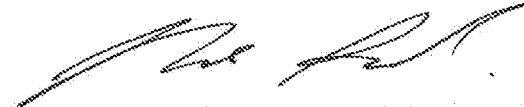
We agree, at any time, upon the request of the ASSIGNEE, to execute and to deliver to the ASSIGNEE any additional applications for patents for said inventions and discoveries, or any part or parts thereof, and any applications for patents of confirmation, registration and importation based on any Letters Patent issuing on said inventions, discoveries, or applications and divisions, continuations, renewals, revivals, reissues, reexaminations and extensions thereof.

We further agree at any time to execute and to deliver upon request of the ASSIGNEE such additional documents, if any, as are necessary or desirable to secure patent protection on said inventions, discoveries and applications throughout all countries of the world, and otherwise to do the necessary to give full effect to and to perfect the rights of the ASSIGNEE under this Assignment, including the execution, delivery and procurement of any and all further documents evidencing this assignment, transfer and sale as may be necessary or desirable.

We hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

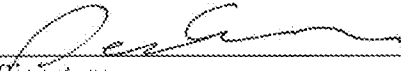
We further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

Date: 2/8/19



Mark Gosselin

Witnessed by:



Signature
Penelope Ackerman

Print Name

2/8/19

Date


Witnessed by:

Signature

Print Name

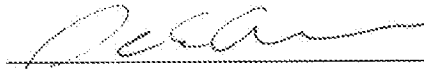
Date

Date: 2/1/19



Matthew Sarnoff

Witnessed by:



Signature

2/1/19

Date

Penelope Ackerman

Print Name

Witnessed by:

Signature

Date

Print Name