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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE: NEW ASSIGNMENT NATURE OF CONVEYANCE: ASSIGNMENT

EPAS ID: PAT5445970

CONVEYING PARTY DATA

Name	Execution Date
ADAM GREGORY STEVENS	03/17/2016
JIEYUAN WU	02/03/2016
CHAD ROBERT ARCHER	11/27/2018

RECEIVING PARTY DATA

Name:	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Street Address:	77 MASSACHUSETTS AVENUE
City:	CAMBRIDGE
State/Country:	MASSACHUSETTS
Postal Code:	02139

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14953287

CORRESPONDENCE DATA

Fax Number: (617)310-9000

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: (617)439-2000 Email: docket@nutter.com

NUTTER MCCLENNEN & FISH LLP Correspondent Name:

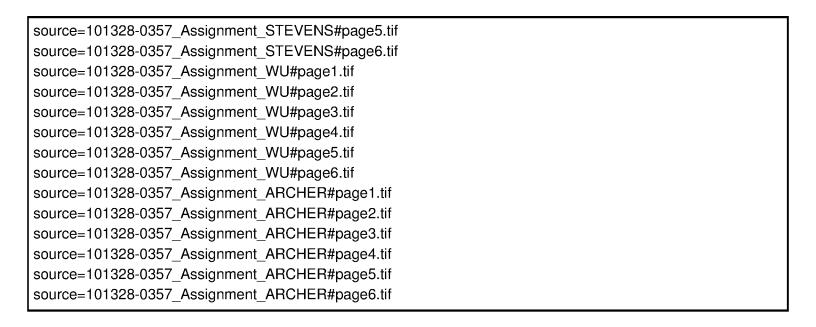
Address Line 1: SEAPORT WEST, 155 SEAPORT BOULEVARD

Address Line 4: BOSTON, MASSACHUSETTS 02210-2604

ATTORNEY DOCKET NUMBER:	101328-357 (MIT17535)
NAME OF SUBMITTER:	RORY P. PHEIFFER
SIGNATURE:	/Rory P. Pheiffer/
DATE SIGNED:	03/28/2019

Total Attachments: 18

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ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT, made by Adam Gregory Stevens; Jieyuan Wu; and Chad Robert Archer (hereinafter referred to as Assignors), residing at 5001 Oakridge Drive, Midland, Michigan 48640; 42-102 Yong Jing Wan, Kang, Zhour Road, Suzhou Industrial Park, PEOPLE'S REPUBLIC OF CHINA 215021; and 2585 E. Hurley Road, Midland, Michigan 48642, respectively;

WHEREAS, Assignors have invented certain new and useful improvements in SYSTEMS, DEVICES, AND METHODS FOR PRINTING ON THREE-DIMENSIONAL OBJECTS, set forth in a Patent application for Letters Patent of the United States, already filed on November 27, 2015 as U.S. Application No. 14/953,287; and

WHEREAS, MASSACHUSETTS INSTITUTE OF TECHNOLOGY, a College organized under and pursuant to the laws of Massachusetts, having its principal place of business at 77 Massachusetts Avenue, Cambridge, Massachusetts 02139 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefore and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the

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same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignors hereby request the Commissioner for Patents and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

AND Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply

with the rules of the United States Patent and Trademark Office for recordation of this document:

NUTTER MCCLENNEN & FISH LLP

All practitioners at Customer Number 21125

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

		Adam Gregor	ry Stevens
Date:	12/6	·	
On this day o	f Maxi,	್ರಿ) ್ರೈ before me, the undersign	ed notary public,
personally appeared	Adam Gregory St	evens (name of document s	igner), proved to
		ation, which were	
		e preceding or attached documen	
Acknowledged to me	that (he)(she) signed in	voluntarily for its stated purpos	e.
(as partner for		, a partnership)	
(as	SOF	, a corporation)	
(as attorney in fact-fo	A	, the principal)	
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	and a supplementaries of the supplementaries		

REEL: 048728 FRAME: 0145

		Jieyuan Wu
Date:		
On this day of		before me, the undersigned notary public,
personally appeared	Jieyuan Wu	(name of document signer), proved to
me through satisfactory of	vidence of identification	
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		Chad Robert Archer
Date:		
On this day of		before me, the undersigned notary public,
personally appeared	Chad Robert Archer	(name of document signer), proved to
me through satisfactory e	vidence of identification,	which were
to be the person whose m	ame is signed on the prece	ding or attached document, and
Acknowledged to me that	t (he)(she) signed it volun	tarily for its stated purpose.
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(as attorney in fact for		, the principal)
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ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT, made by Adam Gregory Stevens; Jieyuan Wu; and Chad Robert Archer (hereinafter referred to as Assignors), residing at 5001 Oakridge Drive, Midland, Michigan 48640; 57 Campriano Drive, Warwick CV34 4NZ, United Kingdom; and 2585 E. Hurley Road, Midland, Michigan 48642, respectively;

WHEREAS. Assignors have invented certain new and useful improvements in SYSTEMS, DEVICES, AND METHODS FOR PRINTING ON THREE-DIMENSIONAL OBJECTS, set forth in a Patent application for Letters Patent of the United States, already filed on November 27, 2015 as U.S. Application No. 14/983,287; and

WHEREAS, MASSACHUSETTS INSTITUTE OF TECHNOLOGY, a College organized under and pursuant to the laws of Massachusetts, having its principal place of business at 77 Massachusetts Avenue, Cambridge, Massachusetts 02139 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged. Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefore and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

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AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest to and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

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AND Assignors hereby request the Commissioner for Patents and Trademarks to issue said Letters Patent of the United States to Assignce, as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

AND Assigners hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document:

NUTTER MCCLENNEN & FISH LLP

101006-0864

PATENT

All practitioners at Customer Number 21125

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

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			Adam Gregory Stevens
Date:	ganithna nggalannggalililigikaligati	operated and popular size of the contraction of the	i Audi
On this	day of		, before me, the undersigned notary public
personally a	ppcared	Adam Gregory 3	, before me, the undensigned optany public. Stevens (name of document signer), proved to floation, which were
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to be the per	cson whose na	ame is signed on t	the preceding or attached document, and
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to be the per	cson whose na	ame is signed on t	the preceding or attached document, and
o be the per Acknowled;	rson whose na ged to me tha	ame is signed on t t (he)(she) signed	the preceding or attached document, and Lit voluntarily for its stated purpose.
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Date: 03-		
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personally appeared	Jieyuan Wu	(name of document signer), proved to
me through satisfact	ory evidence of identifica	ation, which were
to be the person who	se name is signed on the	preceding or attached document, and
Acknowledged to m	e that (he)(she) signed it	voluntarily for its stated purpose.
(as partner for	inin	a partnership)
(85	for	, a corporation) , the principal) , (a)(the)
(as attorney in fact.8	SÝ	, the principal)
£35		(a) (b)

(official signature and seal of notary)

MOHAMMED SHABIR NOTARY PUBLIC 614 Stratford Road Sparkhill

Birmingham B11 4AP

		·*	Chad Robert Archer	*****
Date:				
On this	day of	w.	before me, the undersigned notary public	
personally	appeared	Chad Robert Archer	(name of document signer), proved to	
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NUTTER MCCLENNEN & FISH LLP

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

	Adam Gregory Stevens
Date:	
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	(official signature and seal of notary)

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Date:				
	ne is signed on the pre-	before me, the undersigned notary public, (name of document signer), proved to which were eding or attached document, and starily for its stated purpose.		
	(official signature	e and seal of notary)		

Chad Robert Archer

Date:	_//	127	/ /8			
On this	27	day of	Haymarawa	, <u>2018</u>	before me, the	ne undersigned notary public,
personall			Chad Robert		_ (name of	document signer), proved to
me through satisfactory evidence of identification, which were $D_{rivers} = C_{rivers}$						
to be the person whose name is signed on the preceding or attached document, and						
Acknowledged to me that (he)(she) signed it voluntarily for its stated purpose.						

Tatucio Ansum (official signature and seal of notary)

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PATENT REEL: 048728 FRAME: 0159

RECORDED: 03/28/2019