505660875 09/09/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5707680

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
TIMOTHY M. SWAGER	07/11/2019
SARA N. NAGELBERG	09/07/2019
MATHIAS KOLLE	09/05/2019
LUKAS ZEININGER	07/11/2019
KENT S HARVEY	08/01/2019
MYLES HERBERT	08/09/2019

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 2

Property Type	Number
Application Number:	16415353
PCT Number:	US1932768

CORRESPONDENCE DATA

Fax Number: (617)646-8646

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: 6176468000

Email: patents_AdamZ@wolfgreenfield.com,

MITAdministrators@wolfgreenfield.com

Correspondent Name: ADAM S. ZEIGER

Address Line 1: WOLF, GREENFIELD & SACKS, P.C.

Address Line 2: **600 ATLANTIC AVENUE**

Address Line 4: BOSTON, MASSACHUSETTS 02210

ATTORNEY DOCKET NUMBER:	M0925.70654US01/WO00	
NAME OF SUBMITTER:	JUSTIN DUFFY	
SIGNATURE:	/Justin Duffy/	

PATENT REEL: 050311 FRAME: 0949 505660875

DATE SIGNED: 09/09/2019 **Total Attachments: 40** source=M092570654US01 WO00-ASI-ASZ#page1.tif source=M092570654US01 WO00-ASI-ASZ#page2.tif source=M092570654US01 WO00-ASI-ASZ#page3.tif source=M092570654US01 WO00-ASI-ASZ#page4.tif source=M092570654US01 WO00-ASI-ASZ#page5.tif source=M092570654US01 WO00-ASI-ASZ#page6.tif source=M092570654US01 WO00-ASI-ASZ#page7.tif source=M092570654US01_WO00-ASI-ASZ#page8.tif source=M092570654US01_WO00-ASI-ASZ#page9.tif source=M092570654US01 WO00-ASI-ASZ#page10.tif source=M092570654US01 WO00-ASI-ASZ#page11.tif source=M092570654US01_WO00-ASI-ASZ#page12.tif source=M092570654US01 WO00-ASI-ASZ#page13.tif source=M092570654US01 WO00-ASI-ASZ#page14.tif source=M092570654US01 WO00-ASI-ASZ#page15.tif source=M092570654US01_WO00-ASI-ASZ#page16.tif source=M092570654US01 WO00-ASI-ASZ#page17.tif source=M092570654US01 WO00-ASI-ASZ#page18.tif source=M092570654US01 WO00-ASI-ASZ#page19.tif source=M092570654US01_WO00-ASI-ASZ#page20.tif source=M092570654US01 WO00-ASI-ASZ#page21.tif source=M092570654US01 WO00-ASI-ASZ#page22.tif source=M092570654US01 WO00-ASI-ASZ#page23.tif source=M092570654US01 WO00-ASI-ASZ#page24.tif source=M092570654US01_WO00-ASI-ASZ#page25.tif source=M092570654US01 WO00-ASI-ASZ#page26.tif source=M092570654US01 WO00-ASI-ASZ#page27.tif source=M092570654US01 WO00-ASI-ASZ#page28.tif source=M092570654US01 WO00-ASI-ASZ#page29.tif source=M092570654US01 WO00-ASI-ASZ#page30.tif source=M092570654US01 WO00-ASI-ASZ#page31.tif source=M092570654US01 WO00-ASI-ASZ#page32.tif source=M092570654US01_WO00-ASI-ASZ#page33.tif source=M092570654US01_WO00-ASI-ASZ#page34.tif source=M092570654US01 WO00-ASI-ASZ#page35.tif source=M092570654US01 WO00-ASI-ASZ#page36.tif source=M092570654US01_WO00-ASI-ASZ#page37.tif source=M092570654US01_WO00-ASI-ASZ#page38.tif source=M092570654US01 WO00-ASI-ASZ#page39.tif source=M092570654US01 WO00-ASI-ASZ#page40.tif

> PATENT REEL: 050311 FRAME: 0950

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned Assignor, hereby:

- Sell, assign and transfer to Massachusetts Institute of Technology, a Massachusetts Non-profit Corporation having a place of business at 77 Massachusetts Avenue, Cambridge, Massachusetts 02139, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, my entire right, title and interest for the United States and all foreign countries, in and to any and all inventions and designs which are disclosed in the patent application for United States Letters Patent filed in the United States Patent and Trademark Office on May 17, 2019 under No. 16/415,353, bearing Attorney Docket No. M0925.70654US01, and entitled LIGHT EMITTING DROPLETS AND RELATED METHODS, and in the International Application filed on May 17, 2019 under International Application No. PCT/US2019/032768, bearing Attorney Docket No. M0925.70654WO00, and entitled LIGHT EMITTING DROPLETS AND RELATED METHODS, and in and to the application and all corresponding provisional, non-provisional, divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent, utility models, industrial designs or similar intellectual property rights which have been or shall be filed in the United States, internationally, and in any foreign country, including but not limited to China, Japan and Korea, on any of the inventions and designs; and in and to all original and reissued patents which have been or shall be issued in the United States or any other jurisdiction on the inventions and designs, including the right to apply for patent rights in each foreign country and all rights to priority, including the right to claim priority for China, Japan and Korea; as well as the right to sue in its own name and recover damages for past infringement of any United States Letters Patent and foreign patent, including a reasonable royalty relating to provisional rights under 35 U.S.C. § 154(d) that have attached to any published United States patent application, on the inventions and designs;
- 2. Agree that the Assignee may apply for and receive Letters Patent and utility model and industrial design registrations for the inventions and designs in its own name; and when requested, without charge to but at the expense of the Assignee, agree to carry out in good faith the intent and purpose of this Assignment, by executing all non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent, utility model and industrial design applications on any and all the inventions and designs, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to the Assignee all facts known to me relating to the inventions and designs and the history thereof, and generally by doing everything reasonably possible which the Assignee shall consider desirable for aiding in securing and maintaining proper protection for the inventions and designs and for vesting title to the inventions and designs and all applications for patents and all patents on the inventions and designs, in the Assignee:
- 3. Request the Director of the United States Patent and Trademark Office and foreign patent authorities to issue the Letters Patent or other intellectual property rights, including foreign patents, to the Assignee;

Attorney Docket No. M0925.70654US01/WO00

- 4. Authorize and request Wolf, Greenfield & Sacks, P.C. to supply any missing application identification information or correct any errors in the application identification information provided above, whether discovered prior to or after recordation;
- 5. Covenant with the Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me; and
- 6. Appoint Assignee, through its designee, my attorney-in-fact to execute, in my name and on my behalf, any and all documents required to effectuate this Assignment, specifically including, but not limited to, those documents specified above and any necessary corrective assignments.

This instrument is executed under seal and signed under the pains and penalties of perjury under the laws of the United States of America.

Attorney Docket No. M0925.70654US01/WO00

7/11/2019 Date	Inventor: Timothy M. Swager Address: 18 Copley Street Newton, Massachusetts 02458 Citizenship: US
Witness: 7/11/2019 Date	Signature Final De la Company
Witness:	Name: Emily Wensberg Address: 21 Ancs Steet 18-59 Cambrilge, MA 021

Signature

Name:

Address:

Attorney Docket No. M0925.70654US01/W000

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Erin Erhaut

21 Ames St. 18-593 Cambridge MA 02149

Date	Engament	Sara N. Nagelberg
wate		26 Bolton Street
	Manage.	Somerville, Massachusetts 02143
	Citizenship:	
	Santian Silver Mes	~~
Witness:		
Date	Signature	
	Name:	
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	Address:	
Attorney Docket No. M0925.70654US0	1/WO00	

PATENT REEL: 050311 FRAME: 0954

Date	Inventor:	Mathias Koile
	Address:	36 Vautrinot Ave
		Hull, Massachusetts 02045
	Citizenship:	Germany
Witness:		
Date	Signature	
	Name:	
	Address:	
eva.		
Witness:		
Date	Signature	
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	Name:	
	Address:	3

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07/11/2019 Date	Inventor: Address:	Mierendorffplatz 11 Heldforstr. 18 10589-Berlin 107-11 Berlin /
	Citizenship:	GERIVANY
Witness: Diff Date	Signature Name: Address:	Bradley Frank 2330 VST, Swamming CA 45818 United States
Witness:		
07/41/2019 Date	Signature	
	Name:	Alexandel Plucinsk
	Address:	Strapborger Str. 28 A
		13.584 Colly

7359771.1

Date	Inventor:	Kent Harvey
	Address	622 E 2nd St.
		South Boston, Massachusetts 02127
	Citizenship:	
Witness:		
Date	Signature	<u> </u>
	Name:	
	Address:	
Witness:		
Date	Signature	
	Name:	
	Address:	

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Date	Inventor	Myles Herbert
wate.		13 Cameron Ave.
	, tout and	Apt. 1
		Somerville, Massachusetts 02144
	Citizenship:	
	Chiachonia.	
Witness:		
	المعمد معمد من	
Date	Signature	
	Name:	
	Address:	
Witness:		
Date	Signature	
	Name:	
	Address:	
Attorney Docket No. M0925.70654US01/W	/000	

PATENT REEL: 050311 FRAME: 0958

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned Assignor, hereby:

- Sell, assign and transfer to Massachusetts Institute of Technology, a Massachusetts Non-profit Corporation having a place of business at 77 Massachusetts Avenue, Cambridge, Massachusetts 02139, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, my entire right, title and interest for the United States and all foreign countries, in and to any and all inventions and designs which are disclosed in the patent application for United States Letters Patent filed in the United States Patent and Trademark Office on May 17, 2019 under No. 16/415,353, bearing Attorney Docket No. M0925.70654US01, and entitled LIGHT EMITTING DROPLETS AND RELATED METHODS, and in the International Application filed on May 17, 2019 under International Application No. PCT/US2019/032768, bearing Attorney Docket No. M0925.70654WO00, and entitled LIGHT EMITTING DROPLETS AND RELATED METHODS, and in and to the application and all corresponding provisional, non-provisional, divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent, utility models, industrial designs or similar intellectual property rights which have been or shall be filed in the United States, internationally, and in any foreign country, including but not limited to China, Japan and Korea, on any of the inventions and designs; and in and to all original and reissued patents which have been or shall be issued in the United States or any other jurisdiction on the inventions and designs, including the right to apply for patent rights in each foreign country and all rights to priority, including the right to claim priority for China, Japan and Korea; as well as the right to sue in its own name and recover damages for past infringement of any United States Letters Patent and foreign patent, including a reasonable royalty relating to provisional rights under 35 U.S.C. § 154(d) that have attached to any published United States patent application, on the inventions and designs;
- 2. Agree that the Assignee may apply for and receive Letters Patent and utility model and industrial design registrations for the inventions and designs in its own name; and when requested, without charge to but at the expense of the Assignee, agree to carry out in good faith the intent and purpose of this Assignment, by executing all non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent, utility model and industrial design applications on any and all the inventions and designs, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to the Assignee all facts known to me relating to the inventions and designs and the history thereof, and generally by doing everything reasonably possible which the Assignee shall consider desirable for aiding in securing and maintaining proper protection for the inventions and designs and for vesting title to the inventions and designs and all applications for patents and all patents on the inventions and designs, in the Assignee;
- 3. Request the Director of the United States Patent and Trademark Office and foreign patent authorities to issue the Letters Patent or other intellectual property rights, including foreign patents, to the Assignee;

Attorney Docket No. M0925.70654US01/WO00

- 4. Authorize and request Wolf, Greenfield & Sacks, P.C. to supply any missing application identification information or correct any errors in the application identification information provided above, whether discovered prior to or after recordation;
- 5. Covenant with the Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me; and
- 6. Appoint Assignee, through its designee, my attorney-in-fact to execute, in my name and on my behalf, any and all documents required to effectuate this Assignment, specifically including, but not limited to, those documents specified above and any necessary corrective assignments.

This instrument is executed under seal and signed under the pains and penalties of perjury under the laws of the United States of America.

Attorney Docket No. M0925.70654US01/WO00

Date	Inventor:	Timothy M. Swager
	Address:	18 Copley Street
		Newton, Massachusetts 02458
	Citizenship:	US
Witness:		
Date	Signature)
	Name:	
	Address:	
Witness:		
Date	Signature)
	Name:	
	Address:	

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09/07/2019 Date	Inventor: Sara N. Nagelberg Address: 26 Bolton Street Somerville, Massachusetts 02143 Citizenship: US
Witness: O9/07/2019 Date	Signature Name: Amy Nagelber & Address: 1218 14 E Ave Vancouver BC V5T 2P3
Witness: 09/07/2019 Date	Signature Name: Jesse Harder

Address:

Attorney Docket No. M0925.70654US01/WO00

1218 14 E Ave, Vancouver

BC V5T2P3

Date	Inventor:	Mathias Kolle
	Address:	36 Vautrinot Ave
		Hull, Massachusetts 02045
	Citizenship:	Germany
Witness:		
Date	Signature	
	Name:	
	Address:	
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Date	Signature)
	Name:	
	Address:	

Date	Inventor:	Lukas Zeininger
	Address:	Mierendorffplatz 11
		10589 Berlin
		GERMANY
	Citizenship:	Germany
Witness:		
Date	Signature	
	Name:	
	Address:	
Witness:		
Date	Signature	
	Name:	
	Address:	

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Date	Inventor:	Kent Harvey
	Address:	622 E 2nd St.
		South Boston, Massachusetts 02127
	Citizenship:	US
Witness:		
Date	Signature)
	J	
	Name:	
	Address:	
Witness:		
Date	Signature	
	Name:	
	Address:	

Date	Inventor:	Myles Herbert
	Address:	13 Cameron Ave.
		Apt. 1
		Somerville, Massachusetts 02144
	Citizenship:	US
Witness:		
Date	Signature	9
	Name:	
	Address:	
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Witness:		
		
Date	Signature	
	Name:	
	Address:	

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ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned Assignor, hereby:

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Attorney Docket No. M0925.70654US01/WO00

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Attorney Docket No. M0925.70654US01/WO00

Date	Inventor:	Timothy M. Swager
	Address:	18 Copley Street
		Newton, Massachusetts 02458
	Citizenship:	US
Witness:		
Date	Signature)
	J	
	Name:	
	Address:	
Witness:		
Date	Signature)
	Name:	
	Address:	

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Date	Inventor:	Sara N. Nagelberg
	Address:	26 Bolton Street
		Somerville, Massachusetts 02143
	Citizenship:	US
Witness:		
Date	Signature	9
	Name:	
	Address:	
Witness:		
Date	Signature	
	Name:	
	Address:	

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1/4/1/1/20

Inventor: Mathias Kole

Address: 36 Vautrinot Ave

Hull Massachusetts 02045

Citizenship: Germany

Witness:

09 /05 / /S Date

Signature

Name:

Address: 2 WARE ST APT SOA

Combady, NA 02138

Witness:

Name: Joseph Soult
Address: 155 South St. 15F

Smith 14 02/43

Attorney Docket No. M0925.70654US01/WO00

Date	Inventor:	Lukas Zeininger
	Address:	Mierendorffplatz 11
		10589 Berlin
		GERMANY
	Citizenship:	Germany
Witness:		
Williams.		
Date	Signature	9
	Name:	
	Address:	
Witness:		
Date	Signature)
	Name:	
	Address:	

6

Date	Inventor:	Kent Harvey
	Address:	622 E 2nd St.
		South Boston, Massachusetts 02127
	Citizenship:	US
Witness:		
Date	Signature	
	Name:	
	Address:	
Witness:		
Date	Signature	
	Name:	
	Address:	

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Date	Inventor:	Myles Herbert
	Address:	13 Cameron Ave.
		Apt. 1
		Somerville, Massachusetts 02144
	Citizenship:	
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Attorney Docket No. M0925.70654US01/WO00

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Attorney Docket No. M0925.70654US01/WO00

Date	Inventor:	Timothy M. Swager
	Address:	18 Copley Street
		Newton, Massachusetts 02458
	Citizenship:	US
Witness:		
Date	Signature	
	Name:	
	Address:	
Witness:		
Date	Signature	9
	Name:	
	Address:	

3

Date	Inventor:	Sara N. Nagelberg
	Address:	26 Bolton Street
		Somerville, Massachusetts 02143
	Citizenship:	US
Witness:		
Date	Signature	9
	Name:	
	Address:	
Witness:		
Date	Signature)
	Name:	
	Address:	

4

Date	Inventor:	Mathias Kolle
	Address:	36 Vautrinot Ave
		Hull, Massachusetts 02045
	Citizenship:	Germany
Witness:		
Date	- Signature	,
	Name:	
	Address:	
Witness:		
Date	Signature	
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	Address:	

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Date	Inventor:	Lukas Zeininger
	Address:	Mierendorffplatz 11
		10589 Berlin
		GERMANY
	Citizenship:	Germany
Witness:		
Date	Signature)
	Name:	
	name:	
	Address:	
Witness:		
Date	Signature	
	o.g. a.a.	
	Name:	
	Address:	
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06	01	2019
Date		

Address: -622-E 2nd St. 9 W Broadway, Unit 302

South Boston, Massachusetts 02127

Citizenship: US

Matthias Oberli Name:

4 Rollins Court Address:

Cambridge, MA, 02139

Witness:

Date

Derek Zwerman Name:

9 W Broadway, Unit 302 Address:

South Boston, MA, 02127

Attorney Docket No. M0925.70654US01/WO00

Inventor:	Myles Herbert
Address:	13 Cameron Ave.
	Apt. 1
	Somerville, Massachusetts 02144
Citizenship:	US
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Signature	9
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ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned Assignor, hereby:

- Sell, assign and transfer to Massachusetts Institute of Technology, a Massachusetts Non-profit Corporation having a place of business at 77 Massachusetts Avenue, Cambridge, Massachusetts 02139, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, my entire right, title and interest for the United States and all foreign countries, in and to any and all inventions and designs which are disclosed in the patent application for United States Letters Patent filed in the United States Patent and Trademark Office on May 17, 2019 under No. 16/415,353, bearing Attorney Docket No. M0925,70654US01, and entitled LIGHT EMITTING DROPLETS AND RELATED METHODS, and in the International Application filed on May 17, 2019 under International Application No. PCT/US2019/032768, bearing Attorney Docket No. M0925.70654WO00, and entitled LIGHT EMITTING DROPLETS AND RELATED METHODS, and in and to the application and all corresponding provisional, non-provisional, divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent, utility models, industrial designs or similar intellectual property rights which have been or shall be filed in the United States, internationally, and in any foreign country, including but not limited to China, Japan and Korea, on any of the inventions and designs; and in and to all original and reissued patents which have been or shall be issued in the United States or any other jurisdiction on the inventions and designs, including the right to apply for patent rights in each foreign country and all rights to priority, including the right to claim priority for China, Japan and Korea; as well as the right to sue in its own name and recover damages for past infringement of any United States Letters Patent and foreign patent, including a reasonable royalty relating to provisional rights under 35 U.S.C. § 154(d) that have attached to any published United States patent application, on the inventions and designs;
- 2. Agree that the Assignee may apply for and receive Letters Patent and utility model and industrial design registrations for the inventions and designs in its own name; and when requested, without charge to but at the expense of the Assignee, agree to carry out in good faith the intent and purpose of this Assignment, by executing all non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent, utility model and industrial design applications on any and all the inventions and designs, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to the Assignee all facts known to me relating to the inventions and designs and the history thereof, and generally by doing everything reasonably possible which the Assignee shall consider desirable for aiding in securing and maintaining proper protection for the inventions and designs and for vesting title to the inventions and designs and all applications for patents and all patents on the inventions and designs, in the Assignee;
- 3. Request the Director of the United States Patent and Trademark Office and foreign patent authorities to issue the Letters Patent or other intellectual property rights, including foreign patents, to the Assignee;

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- 4. Authorize and request Wolf, Greenfield & Sacks, P.C. to supply any missing application identification information or correct any errors in the application identification information provided above, whether discovered prior to or after recordation;
- 5. Covenant with the Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me; and
- 6. Appoint Assignee, through its designee, my attorney-in-fact to execute, in my name and on my behalf, any and all documents required to effectuate this Assignment, specifically including, but not limited to, those documents specified above and any necessary corrective assignments.

This instrument is executed under seal and signed under the pains and penalties of perjury under the laws of the United States of America.

Attorney Docket No. M0925.70654US01/WO00

Date	Inventor:	Timothy M. Swager
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Date	Inventor:	Kent Harvey
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8 9 2019 Date	Inventor: Myles Herbert Address: 13 Cameron Ave. Apt. 1 Somerville, Massachusetts 02144 Citizenship: US
Witness: 8/9/2019 Date	Name: Anya Losik Address: 12 Parker Hill Ave #3 Boston, MA 02120
Witness: Sold Told Date	Signature Name: Lara Orfiz-Luis Address: 28 Healey St Cambridge, MA 02138

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RECORDED: 09/09/2019