## 504339939 04/26/2017

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4386627

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
SWETHA CHANDRASEKARAN	07/29/2016
THEODORE F. BAUMANN	04/18/2017
JUERGEN BIENER	08/30/2016
PATRICK CAMPBELL	07/28/2016
JAMES S. OAKDALE	08/01/2016
MARCUS A. WORSLEY	08/02/2016

### **RECEIVING PARTY DATA**

Name:	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC
Street Address:	2300 FIRST STREET
Internal Address:	SUITE 203
City:	LIVERMORE
State/Country:	CALIFORNIA
Postal Code:	94550

### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	15208506

### **CORRESPONDENCE DATA**

**Fax Number:** (925)423-2231

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:** 9254227272

Email: clinkenbeard3@Ilnl.gov

Correspondent Name: LAWRENCE LIVERMORE NATIONAL LABORATORY

Address Line 1: 7000 EAST AVENUE Address Line 2: P.O. BOX 808, L-703

Address Line 4: LIVERMORE, CALIFORNIA 94550

ATTORNEY DOCKET NUMBER:	IL_13093
NAME OF SUBMITTER:	MARK H. LOUGH
SIGNATURE:	/Mark H. Lough/
DATE SIGNED:	04/26/2017

504339939 REEL: 042156 FRAME: 0714

Total Attachments: 12
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# DECLARATION AND ASSIGNMENT BY INVENTOR UNDER 37 CFR §1.63

Title of Invention: Tailoring of pores in aerogels using 3D printed structures

- I, Swetha Chandrasekaran, hereby declare that:
- 1. This declaration is directed to the attached application identified as Attorney Docket No. LLNLP1S1/IL-13093 United States application number 15/208,506 filed on July 12, 2016.
- 2. I believe I am the original inventor or an original joint inventor of a claimed invention in the patent application identified in Section 1 ("Patent Application").
- 3. I made or authorized to make the Patent Application.
- 4. I have reviewed and understand the contents of the Patent Application including the claims.
- 5. I am aware of the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR §1.56.
- 6. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC §1001 by fine or imprisonment of not more than five (5) years, or both.

### 7. ASSIGNMENT

For good and valuable consideration the receipt of which is hereby acknowledged, I hereby sell, assign, transfer, and convey to Lawrence Livermore National Security, LLC., a Delaware corporation having its administrative offices located at 2300 First Street, Suite 204, Livermore, CA 94550, and its successors, legal representatives and assigns (collectively, "Assignee"), the entire right, title and interest throughout the world in and to the following (collectively, "Rights"):

(a)	all inventions and improvements claimed and/or disc provisional application, filed claims priority, and in any and all divisional, continu substitute applications based on the Patent Applicati	, from which the Pat uation, continuation-in-pa	tent Application
(b)	the Patent Application, the provisional application which the Patent Application claims priority, and an continuation-in-part, and substitute applications base "Related Applications").	y and all divisional, conti	nuation,
(c)	any and all patent(s) which may be granted in the Ur and possessions, for the inventions and improvemen Applications, for the full term or terms for which the	ts claimed and/or disclose	dependencies d in the Related
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(d) any and all patent(s) resulting from extension, renewal, reinstatement, reissue or reexamination, or any interference, opposition, or judicial proceeding, directed to any of the

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Related Applications or any patent described above, for the full term or terms for which the same may be granted.

- (e) any foreign equivalent or counterpart of any of the Related Applications or of any of the patent(s) described above, including without limitation, certificates of invention, utility models, and design registrations.
- (f) the right to claim priority based on the filing dates of the Related Applications or any of the patent(s) described above, under, but not limited to, the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes.
- (g) the right to seek relief and recover all damages, including, but not limited to, a reasonable royalty, by reason of infringement or any other violation of patent or patent application rights.

In addition, I hereby confirm the sale, assignment, transfer and conveyance to the Assignee of the entire right, title and interest throughout the world in the Rights, including the inventions and improvements, that occurred by operation of an employment agreement between me and the Assignee existing at the time said inventions and improvements were made. Should I have any remaining interest, I hereby sell, assign, transfer and convey any right, title and interest I may have in said inventions and improvements anywhere in the world to the Assignee.

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

I further covenant to provide reasonable assistance to the Assignee in handling various procedures, tasks and documentation in connection with this assignment, including, but not limited to, providing to the Assignee promptly upon the request of the Assignee all pertinent facts and documents relating to said invention and improvements, and said patents, said legal equivalents or other legal instrument as may be known and accessible to me and testifying as to the same in any interference, litigation, or proceeding relating thereto, and promptly executing and delivering to the Assignee or its legal representative any and all papers, documents, instruments or affidavits in connection with obtaining, maintaining, issuing or enforcing said application, said inventions and improvements, and said patents, said equivalents and other legal instrument which may be necessary or desirable to carry out the purposes thereof.

I hereby authorize and request the respective patent office or governmental agency in each jurisdiction to issue any and all patents, certificates of invention, utility models, or other governmental grants or issuances, and any reissue or extension thereof, that may be granted upon any of the Rights in the name of the Assignce, as the assignce to the entire interest therein.

8. I am competent to execute the above declaration and assignment. I hereby have duly executed the declaration and assignment below with my name.

Swetha Chandrasekaran

<u>07/29//6</u> Date:

# DECLARATION AND ASSIGNMENT BY INVENTOR UNDER 37 CFR §1.63

Title of Invention: Tailoring of pores in aerogels using 3D printed structures

- I, Theodore F. Baumann, hereby declare that:
- 1. This declaration is directed to the attached application identified as Attorney Docket No. LLNLP151/IL-13093 United States application number 15/208,506 filed on <u>July 12, 2016</u>.
- 2. I believe I am the original inventor or an original joint inventor of a claimed invention in the patent application identified in Section 1 ("Patent Application").
- 3. I made or authorized to make the Patent Application.
- 4. I have reviewed and understand the contents of the Patent Application including the claims.
- 5. I am aware of the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR §1.56.
- 6. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC §1001 by fine or imprisonment of not more than five (5) years, or both.

#### 7. ASSIGNMENT

For good and valuable consideration the receipt of which is hereby acknowledged, I hereby sell, assign, transfer, and convey to Lawrence Livermore National Security, LLC., a Delaware corporation having its administrative offices located at 2300 First Street, Suite 204, Livermore, CA 94550, and its successors, legal representatives and assigns (collectively, "Assignee"), the entire right, title and interest throughout the world in and to the following (collectively, "Rights"):

- (a) all inventions and improvements claimed and/or disclosed in the Patent Application, in provisional application \_\_\_\_\_\_\_, filed \_\_\_\_\_\_\_, from which the Patent Application claims priority, and in any and all divisional, continuation, continuation-in-part, and substitute applications based on the Patent Application.
  (b) the Patent Application, the provisional application \_\_\_\_\_\_\_, filed \_\_\_\_\_\_\_, from which the Patent Application claims priority, and any and all divisional, continuation, continuation-in-part, and substitute applications based on the Patent Application (collectively, "Related Applications").
- (c) any and all patent(s) which may be granted in the United States, its territories, dependencies and possessions, for the inventions and improvements claimed and/or disclosed in the Related Applications, for the full term or terms for which the same may be granted.
- (d) any and all patent(s) resulting from extension, renewal, reinstatement, reissue or reexamination, or any interference, opposition, or judicial proceeding, directed to any of the

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Related Applications or any patent described above, for the full term or terms for which the same may be granted.

- (e) any foreign equivalent or counterpart of any of the Related Applications or of any of the patent(s) described above, including without limitation, certificates of invention, utility models, and design registrations.
- (f) the right to claim priority based on the filing dates of the Related Applications or any of the patent(s) described above, under, but not limited to, the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes.
- (g) the right to seek relief and recover all damages, including, but not limited to, a reasonable royalty, by reason of infringement or any other violation of patent or patent application rights.

In addition, I hereby confirm the sale, assignment, transfer and conveyance to the Assignee of the entire right, title and interest throughout the world in the Rights, including the inventions and improvements, that occurred by operation of an employment agreement between me and the Assignee existing at the time said inventions and improvements were made. Should I have any remaining interest, I hereby sell, assign, transfer and convey any right, title and interest I may have in said inventions and improvements anywhere in the world to the Assignee.

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

I further covenant to provide reasonable assistance to the Assignee in handling various procedures, tasks and documentation in connection with this assignment, including, but not limited to, providing to the Assignee promptly upon the request of the Assignee all pertinent facts and documents relating to said invention and improvements, and said patents, said legal equivalents or other legal instrument as may be known and accessible to me and testifying as to the same in any interference, litigation, or proceeding relating thereto, and promptly executing and delivering to the Assignee or its legal representative any and all papers, documents, instruments or affidavits in connection with obtaining, maintaining, issuing or enforcing said application, said inventions and improvements, and said patents, said equivalents and other legal instrument which may be necessary or desirable to carry out the purposes thereof.

I hereby authorize and request the respective patent office or governmental agency in each jurisdiction to issue any and all patents, certificates of invention, utility models, or other governmental grants or issuances, and any reissue or extension thereof, that may be granted upon any of the Rights in the name of the Assignee, as the assignee to the entire interest therein.

8. I am competent to execute the above declaration and assignment. I hereby have duly executed the declaration and assignment below with my name.

bre F. Baypaann

<u>4|10|17</u> Date:

# DECLARATION AND ASSIGNMENT BY INVENTOR UNDER 37 CFR \$1.63

Title of Invention: Tailoring of pores in serogels using 3D printed structures

- I, Juergen Biener, hereby declare that:
- 1. This declaration is directed to the attached application identified as Attorney Docket No. LLNLP151/IL-13093 United States application number 15/208,506 filed on <u>July 12, 2016</u>.
- 2. I believe I am the original inventor or an original joint inventor of a claimed invention in the patent application identified in Section I ("Patent Application").
- 3. I made or authorized to make the Patent Application.
- 4. I have reviewed and understand the contents of the Patent Application including the claims.
- 5. I am aware of the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR §1.56.
- 6. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC §1001 by fine or imprisonment of not more than five (5) years, or both.

#### 7. ASSIGNMENT

For good and valuable consideration the receipt of which is hereby acknowledged, I hereby sell, assign, transfer, and convey to Lawrence Livermore National Security, LLC., a Delaware corporation having its administrative offices located at 2300 First Street, Suite 204, Livermore, CA 94550, and its successors, legal representatives and assigns (collectively, "Assignee"), the entire right, title and interest throughout the world in and to the following (collectively, "Rights"):

(a)	provisional application, filed, claims priority, and in any and all divisional, continuation substitute applications based on the Patent Application.	, from which the Pati	ent Application
(b)	the Patent Application, the provisional application which the Patent Application claims priority, and any an continuation-in-part, and substitute applications based of "Related Applications").	id all divisional, contir	uation,
(c)	any and all patent(s) which may be granted in the United and possessions, for the inventions and improvements of Applications, for the full term or terms for which the sar	laimed and/or disclose	•

(d) any and all patent(s) resulting from extension, renewal, reinstatement, reissue or reexamination, or any interference, opposition, or judicial proceeding, directed to any of the

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Related Applications or any patent described above, for the full term or terms for which the same may be granted.

- (e) any foreign equivalent or counterpart of any of the Related Applications or of any of the patent(s) described above, including without limitation, certificates of invention, utility models, and design registrations.
- (f) the right to claim priority based on the filing dates of the Related Applications or any of the patent(s) described above, under, but not limited to, the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes.
- (g) the right to seek relief and recover all damages, including, but not limited to, a reasonable royalty, by reason of infringement or any other violation of patent or patent application rights.

In addition, I hereby confirm the sale, assignment, transfer and conveyance to the Assignee of the entire right, title and interest throughout the world in the Rights, including the inventions and improvements, that occurred by operation of an employment agreement between me and the Assignee existing at the time said inventions and improvements were made. Should I have any remaining interest, I hereby sell, assign, transfer and convey any right, title and interest I may have in said inventions and improvements anywhere in the world to the Assignee.

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

I further covenant to provide reasonable assistance to the Assignee in handling various procedures, tasks and documentation in connection with this assignment, including, but not limited to, providing to the Assignee promptly upon the request of the Assignee all pertinent facts and documents relating to said invention and improvements, and said patents, said legal equivalents or other legal instrument as may be known and accessible to me and testifying as to the same in any interference, litigation, or proceeding relating thereto, and promptly executing and delivering to the Assignee or its legal representative any and all papers, documents, instruments or affidavits in connection with obtaining, maintaining, issuing or enforcing said application, said inventions and improvements, and said patents, said equivalents and other legal instrument which may be necessary or desirable to carry out the purposes thereof.

I hereby authorize and request the respective patent office or governmental agency in each jurisdiction to issue any and all patents, certificates of invention, utility models, or other governmental grants or issuances, and any reissue or extension thereof, that may be granted upon any of the Rights in the name of the Assignee, as the assignee to the entire interest therein.

8. I am competent to execute the above declaration and assignment. I hereby have duly executed the declaration and assignment below with pay name.

Juergen Biener

3/30/2016

# DECLARATION AND ASSIGNMENT BY INVENTOR UNDER 37 CFR §1.63

Title of Invention: Tailoring of pores in aerogels using 3D printed structures

- I, Patrick Campbell, hereby declare that:
- 1. This declaration is directed to the attached application identified as Attorney Docket No. LLNLP151/IL-13093 United States application number 15/208,506 filed on July 12, 2016.
- 2. I believe I am the original inventor or an original joint inventor of a claimed invention in the patent application identified in Section 1 ("Patent Application").
- 3. I made or authorized to make the Patent Application.
- 4. I have reviewed and understand the contents of the Patent Application including the claims.
- 5. I am aware of the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR §1.56.
- 6. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC §1001 by fine or imprisonment of not more than five (5) years, or both.

#### 7. ASSIGNMENT

For good and valuable consideration the receipt of which is hereby acknowledged, I hereby sell, assign, transfer, and convey to Lawrence Livermore National Security, LLC., a Delaware corporation having its administrative offices located at 2300 First Street, Suite 204, Livermore, CA 94550, and its successors, legal representatives and assigns (collectively, "Assignee"), the entire right, title and interest throughout the world in and to the following (collectively, "Rights"):

(a)	all inventions and improveme provisional application			
	claims priority, and in any an substitute applications based	d all divisional, continu	ation, continuation-in-pa	
(b)	the Patent Application, the pr which the Patent Application continuation-in-part, and subs "Related Applications").	claims priority, and any	and all divisional, conti	nuation,
	any and all patent(s) which m and possessions, for the inver Applications, for the full term	itions and improvement	s claimed and/or disclose	

(d) any and all patent(s) resulting from extension, renewal, reinstatement, reissue or reexamination, or any interference, opposition, or judicial proceeding, directed to any of the

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Related Applications or any patent described above, for the full term or terms for which the same may be granted.

- (e) any foreign equivalent or counterpart of any of the Related Applications or of any of the patent(s) described above, including without limitation, certificates of invention, utility models, and design registrations.
- (f) the right to claim priority based on the filing dates of the Related Applications or any of the patent(s) described above, under, but not limited to, the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes.
- (g) the right to seek relief and recover all damages, including, but not limited to, a reasonable royalty, by reason of infringement or any other violation of patent or patent application rights.

In addition, I hereby confirm the sale, assignment, transfer and conveyance to the Assignee of the entire right, title and interest throughout the world in the Rights, including the inventions and improvements, that occurred by operation of an employment agreement between me and the Assignee existing at the time said inventions and improvements were made. Should I have any remaining interest, I hereby sell, assign, transfer and convey any right, title and interest I may have in said inventions and improvements anywhere in the world to the Assignee.

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

I further covenant to provide reasonable assistance to the Assignee in handling various procedures, tasks and documentation in connection with this assignment, including, but not limited to, providing to the Assignee promptly upon the request of the Assignee all pertinent facts and documents relating to said invention and improvements, and said patents, said legal equivalents or other legal instrument as may be known and accessible to me and testifying as to the same in any interference, litigation, or proceeding relating thereto, and promptly executing and delivering to the Assignee or its legal representative any and all papers, documents, instruments or affidavits in connection with obtaining, maintaining, issuing or enforcing said application, said inventions and improvements, and said patents, said equivalents and other legal instrument which may be necessary or desirable to carry out the purposes thereof.

I hereby authorize and request the respective patent office or governmental agency in each jurisdiction to issue any and all patents, certificates of invention, utility models, or other governmental grants or issuances, and any reissue or extension thereof, that may be granted upon any of the Rights in the name of the Assignee, as the assignee to the entire interest therein.

8. I am competent to execute the above declaration and assignment. I hereby have duly executed the

Pat (ampbell	
	7/28/16
Patrick Campbell	Date:

declaration and assignment below with my name.

# DECLARATION AND ASSIGNMENT BY INVENTOR UNDER 37 CFR §1.63

Title of Invention: Tailoring of pores in aerogels using 3D printed structures

- I, James S. Oakdale, hereby declare that:
- 1. This declaration is directed to the attached application identified as Attorney Docket No. LLNLP151/IL-13093 United States application number 15/208,506 filed on <u>July 12, 2016</u>.
- 2. I believe I am the original inventor or an original joint inventor of a claimed invention in the patent application identified in Section 1 ("Patent Application").
- 3. I made or authorized to make the Patent Application.
- 4. I have reviewed and understand the contents of the Patent Application including the claims.
- 5. I am aware of the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR §1.56.
- 6. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC §1001 by fine or imprisonment of not more than five (5) years, or both.

#### 7. ASSIGNMENT

For good and valuable consideration the receipt of which is hereby acknowledged, I hereby sell, assign, transfer, and convey to Lawrence Livermore National Security, LLC., a Delaware corporation having its administrative offices located at 2300 First Street, Suite 204, Livermore, CA 94550, and its successors, legal representatives and assigns (collectively, "Assignee"), the entire right, title and interest throughout the world in and to the following (collectively, "Rights"):

(a)	all inventions and improvements claimed and/or disclo provisional application, filed claims priority, and in any and all divisional, continuat substitute applications based on the Patent Application	, from which the Pat ion, continuation-in-pai	ent Application
(b)	the Patent Application, the provisional application	, filed	, from
	which the Patent Application claims priority, and any a continuation-in-part, and substitute applications based "Related Applications").	ınd all divisional, contii	nuation,
(c)	any and all patent(s) which may be granted in the Unite and possessions, for the inventions and improvements of Applications, for the full term or terms for which the sa	claimed and/or disclose	
(d)	any and all patent(s) resulting from extension, renewal,	reinstatement, reissue	or

reexamination, or any interference, opposition, or judicial proceeding, directed to any of the

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Related Applications or any patent described above, for the full term or terms for which the same may be granted.

- (e) any foreign equivalent or counterpart of any of the Related Applications or of any of the patent(s) described above, including without limitation, certificates of invention, utility models, and design registrations.
- (f) the right to claim priority based on the filing dates of the Related Applications or any of the patent(s) described above, under, but not limited to, the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes.
- (g) the right to seek relief and recover all damages, including, but not limited to, a reasonable royalty, by reason of infringement or any other violation of patent or patent application rights.

In addition, I hereby confirm the sale, assignment, transfer and conveyance to the Assignee of the entire right, title and interest throughout the world in the Rights, including the inventions and improvements, that occurred by operation of an employment agreement between me and the Assignee existing at the time said inventions and improvements were made. Should I have any remaining interest, I hereby sell, assign, transfer and convey any right, title and interest I may have in said inventions and improvements anywhere in the world to the Assignee.

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

I further covenant to provide reasonable assistance to the Assignee in handling various procedures, tasks and documentation in connection with this assignment, including, but not limited to, providing to the Assignee promptly upon the request of the Assignee all pertinent facts and documents relating to said invention and improvements, and said patents, said legal equivalents or other legal instrument as may be known and accessible to me and testifying as to the same in any interference, litigation, or proceeding relating thereto, and promptly executing and delivering to the Assignee or its legal representative any and all papers, documents, instruments or affidavits in connection with obtaining, maintaining, issuing or enforcing said application, said inventions and improvements, and said patents, said equivalents and other legal instrument which may be necessary or desirable to carry out the purposes thereof.

I hereby authorize and request the respective patent office or governmental agency in each jurisdiction to issue any and all patents, certificates of invention, utility models, or other governmental grants or issuances, and any reissue or extension thereof, that may be granted upon any of the Rights in the name of the Assignee, as the assignee to the entire interest therein.

8. I am competent to execute the above declaration and assignment. I hereby have duly executed the declaration and assignment below with my name.

Jømes S. Öakdale

Aug. 01, 7016 Obje:

# DECLARATION AND ASSIGNMENT BY INVENTOR UNDER 37 CFR §1.63

Title of Invention: Tailoring of pores in aerogels using 3D printed structures

- L Marcus A. Worsley, hereby declare that:
- 1. This declaration is directed to the attached application identified as Attorney Docket No. LLNLP151/IL-13093 United States application number 15/208,506 filed on July 12, 2016.
- 2. I believe I am the original inventor or an original joint inventor of a claimed invention in the patent application identified in Section I ("Patent Application").
- 3. I made or authorized to make the Patent Application.
- 4. I have reviewed and understand the contents of the Patent Application including the claims.
- 5. I am aware of the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR §1.56.
- 6. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC §1001 by fine or imprisonment of not more than five (5) years, or both.

### 7. ASSIGNMENT

For good and valuable consideration the receipt of which is hereby acknowledged, I hereby sell, assign, transfer, and convey to Lawrence Livermore National Security, LLC., a Delaware corporation having its administrative offices located at 2300 First Street, Suite 204, Livermore, CA 94550, and its successors, legal representatives and assigns (collectively, "Assignee"), the entire right, title and interest throughout the world in and to the following (collectively, "Rights"):

(a)	provisional application	filed	, from which the Pat	ent Application
	claims priority, and in any and substitute applications based of	l all divisional, continu	iation, continuation-in-pai	rt <sub>s</sub> and
(b)	the Patent Application, the pro-	ovisional application	, filed	, from
	which the Patent Application continuation-in-part, and subs "Related Applications").	claims priority, and any	y and all divisional, conti	nuation,
(c)	any and all patent(s) which mand possessions, for the inventions, for the full term	tions and improvement	ts claimed and/or disclose	
(d)	any and all patent(s) resulting	from extension, renew	al, reinstatement, reissue	or

reexamination, or any interference, opposition, or judicial proceeding, directed to any of the

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Related Applications or any patent described above, for the full term or terms for which the same may be granted.

- (e) any foreign equivalent or counterpart of any of the Related Applications or of any of the patent(s) described above, including without limitation, certificates of invention, utility models, and design registrations.
- (f) the right to claim priority based on the filing dates of the Related Applications or any of the patent(s) described above, under, but not limited to, the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes.
- (g) the right to seek relief and recover all damages, including, but not limited to, a reasonable royalty, by reason of infringement or any other violation of patent or patent application rights.

In addition, I hereby confirm the sale, assignment, transfer and conveyance to the Assignee of the entire right, title and interest throughout the world in the Rights, including the inventions and improvements, that occurred by operation of an employment agreement between me and the Assignee existing at the time said inventions and improvements were made. Should I have any remaining interest. I hereby sell, assign, transfer and convey any right, title and interest I may have in said inventions and improvements anywhere in the world to the Assignee.

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

I further covenant to provide reasonable assistance to the Assignee in handling various procedures, tasks and documentation in connection with this assignment, including, but not limited to. providing to the Assignee promptly upon the request of the Assignee all pertinent facts and documents relating to said invention and improvements, and said patents, said legal equivalents or other legal instrument as may be known and accessible to me and testifying as to the same in any interference. litigation, or proceeding relating thereto, and promptly executing and delivering to the Assignee or its legal representative any and all papers, documents, instruments or affidavits in connection with obtaining, maintaining, issuing or enforcing said application, said inventions and improvements, and said patents, said equivalents and other legal instrument which may be necessary or desirable to carry out the purposes thereof.

I hereby authorize and request the respective patent office or governmental agency in each jurisdiction to issue any and all patents, certificates of invention, utility models, or other governmental grants or issuances, and any reissue or extension thereof, that may be granted upon any of the Rights in the name of the Assignee, as the assignee to the entire interest therein.

8. I am competent to execute the above declaration and assignment. I hereby have duly executed the

declaration and assignment below with my name.	•
Malliof	8-2-16
Marcus A. Worsley	Date:

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