PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT2845525

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
LONG CAI	05/06/2014
ERIC LUBECK	05/06/2014
TIMUR ZHIYENTAYEV	05/06/2014
AHMET COSKUN	05/06/2014
TING-FANG HE	05/06/2014
CHANG HO SOHN	05/06/2014
SHEEL SHAH	05/06/2014

RECEIVING PARTY DATA

Name:	CALIFORNIA INSTITUTE OF TECHNOLOGY
Street Address:	1200 E. CALIFORNIA BLVD
Internal Address:	MC 6-32
City:	PASADENA
State/Country:	CALIFORNIA
Postal Code:	91125

PROPERTY NUMBERS Total: 1

Property Type	Number
PCT Number:	US1436258

CORRESPONDENCE DATA

Fax Number: (617)502-5002

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.

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Address Line 4: BOSTON, MASSACHUSETTS 02110

ATTORNEY DOCKET NUMBER:	2011353-0002
NAME OF SUBMITTER:	XIAODONG LI, PHD
SIGNATURE:	/Xiaodong Li/

DATE SIGNED:	05/07/2014

Total Attachments: 11
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COMBINED JOINT ASSIGNMENT & DECLARATION

A. ASSIGNMENT

WHEREAS, each of the below-named inventors whose name and residence is set forth in the following Table 1:

Inventor Name	City, State
1. **Long Cai**	Pasadena, CA
2. **Eric Lubeck**	Pasadena, CA
3. **Timur Zhiyentayev**	Pasadena, CA
4. **Ahmet Coskun**	Pasadena, CA
5. **Ting-fang He**	Pasadena, CA
6. **Chang Ho Sohn**	Pasadena, CA
7. **Sheel Shah**	Pasadena, CA

Table 1

hereby declares and agrees, on behalf of himself/herself and all of his/her successors and assigns that each is aware of the patent application(s) entitled:

MULTIPLEX LABELING OF MOLECULES BY SEQUENTIAL HYBRIDIZATION BARCODING; and

☐ prepared for filing in the United States Patent and Trademark Office; or

☐ identified by United States Application Serial No. **Serial No.** filed in the United States Patent and Trademark Office on **Filing Date**; and

☒ identified by International Patent Application No. **PCT/US14/36258** filed on **April 30, 2014**; and

☒ is also aware of the following priority applications:

Serial No.: 61/817,651; Filed: April 30, 2013
Serial No.: 61/971,974; Filed: March 28, 2014

WHEREAS **California Institute of Technology** (hereinafter "ASSIGNEE"), having a usual place of business at **1200 E. California Blvd, MC 6-32, Pasadena, CA 91125**, desires to acquire or confirm an interest therein;

NOW, THEREFORE, to all whom it may concern be it known that, in consideration of agreements previously and duly entered into between the parties, and/or for other good and valuable consideration, the receipt of which is hereby acknowledged, I have sold, assigned, and transferred and/or do hereby sell, assign, and transfer unto said ASSIGNEE, its successors, assigns, and legal representatives, my entire right, title, and interest in and throughout the United

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States of America, its territories and all foreign countries, in and to any and all inventions described in the patent application, and/or any priority applications noted above, including any right of priority thereto; and hereby confirm that my sale, assignment and transfer is and was effective at least as of the filing date of the patent application and/or priority application. My sale, assignment and transfer applies to the above-referenced patent application, and to any application that is based in whole or in part on the patent application, including to divisional, continuing, substitute, renewal, reissue, reexamination and other applications, for example that claim priority to the patent application. Also, this sale, assignment and transfer pertains to any and all other rights arising under or pursuant to any and all international agreements, treaties, or laws relating to the protection of industrial property, including all rights of priority under the International Convention for the Protection of Industrial Property, and in and to any such patent(s) as may issue thereon including any and all original and reissued patents which have been or shall be issued in the United States and foreign countries; said inventions, applications, and patent(s) to be held and enjoyed by ASSIGNEE for its own use and for its successors, assigns and legal representatives, to the full end of the term for which said patent(s) may be granted as fully and entirely as the same would have been held by me had this sale, assignment and transfer not been made;

AND, I hereby acknowledge that this Assignment, being of my entire right, title, and interest in and to the inventions, carries with it the right in ASSIGNEE, by attorneys and agents of ASSIGNEE selection, to apply for and receive any and all patent(s) for said inventions in its own name;

AND, I hereby further agree for myself and my executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the patent(s) to ASSIGNEE, its successors, assignees, and legal representatives, but at its expense and charges, including the execution of application for patents in foreign countries, the execution of substitution, reissue, divisional or continuation applications, and the giving of testimony, preliminary statements, or other statements in any interference or other proceeding in which the inventions or any applications or patents directed to the inventions may be involved by communicating to the ASSIGNEE all facts I know relating to the inventions and their history, and generally by doing everything possible which ASSIGNEE shall consider desirable for aiding in securing and maintaining proper patent protection for the inventions and for vesting title in the inventions and all applications for patent and all patents on the inventions in ASSIGNEE;

AND, I further hereby authorize ASSIGNEE or its attorneys or agents to insert the correct serial number(s) and/or filing date(s) into this assignment document, if appropriate;

AND, I hereby appoint ASSIGNEE as my common agent for purposes of prosecuting international patent applications and any national patent applications for which such common agency is recognized;

AND, I hereby request the Commissioner for Patents of the United States Patent and Trademark Office to issue any and all patent(s) as shall be granted upon said application or applications based thereon to ASSIGNEE, its successors, assigns, and legal representatives;

AND, I covenant with said 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.

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B. DECLARATION (37 CFR 1.63)

As a below named inventor, I hereby declare that:

This declaration is directed to the patent application entitled:

MULTIPLEX LABELING OF MOLECULES BY SEQUENTIAL HYBRIDIZATION BARCODING; and

☐ attached hereto or prepared for filing in the United States Patent and Trademark Office; or

☐ identified by United States Application Serial No. **Serial No.** filed in the United States Patent and Trademark Office on **Filing Date**; or

☒ identified by International Patent Application No. **PCT/US14/36258** filed on **April 30, 2014**.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

I have reviewed and understand the contents of the application, including the claims and am aware of the duty to disclose to the United States Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR 1.56.

PATENT
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Name: **Long Cai**

5/6/14
Date

Witness Signature:

Margarita Davis
Name (please print):

5/6/14
Date

Witness Signature:

Name (please print):
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5/6/14
Date

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Name: **Eric Lubeck**

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Witness Signature:

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Name: **Timur Zhiyentayev** Date

Witness Signature:

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Name (please print): Date

Witness Signature:

Monica M. Brito 5/6/14

Name (please print): Date

Monica M. Brito

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Name: **Ahmet Coskun**

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Date

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Witness Signature:

Name (please print): Monica M. Brito

5/6/14
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Name: **Ting-fang He**

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Witness Signature:

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Name (please print):

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Date

Witness Signature:

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5/6/14
Date

PATENT
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Name: **Chang Ho Sohn**

6/6/14
Date

Witness Signature:

Margarita Davis
Name (please print):

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Date

Witness Signature:

Monica M. Brito
Name (please print):

5/6/14
Date

Name: **Sheel Shah**

05/06/14
Date

Witness Signature:

Margarita Davis
Name (please print):

5/6/14
Date

Witness Signature:

Name (please print):
Monica M. Brito

5/6/14
Date

RECORDED: 05/07/2014

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REEL: 032840 FRAME: 0442