

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4893470

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
JINGYUE JU	05/27/2010
HUANYAN CAO	04/29/2010
ZENGMIN LI	04/28/2010
JIA GUO	07/21/2010
SHENGLONG ZHANG	04/27/2010
YU LUA	04/28/2010
RECEIVING PARTY DATA	
Name:	THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK
Street Address:	535 W. 116TH STREET
City:	NEW YORK
State/Country:	NEW YORK
Postal Code:	10027
PROPERTY NUMBERS Total: 1	
Property Type	Number
Patent Number:	9175342
CORRESPONDENCE DATA	
Fax Number:	
<i>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.</i>	
Phone:	2122780400
Email:	pdocketing@cooperdunham.com
Correspondent Name:	COOPER & DUNHAM LLP
Address Line 1:	30 ROCKEFELLER PLAZA
Address Line 2:	20TH FLOOR
Address Line 4:	NEW YORK, NEW YORK 10112
ATTORNEY DOCKET NUMBER:	78341-AA-PCT-US
NAME OF SUBMITTER:	ROBERT B RUH III
SIGNATURE:	78341-AA-PCT-US/RBR/for John P. White
DATE SIGNED:	03/29/2018

Total Attachments: 9

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Assignment of Non-Provisional Application

In consideration of One Dollar (\$1.00), and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned,

Jingyue Ju, residing at 267 Marietta Street, Englewood Cliffs, NJ 07632, United States of America;

Huanyan Cao, residing at 400 W 119th Street, Apt. 4N, New York, NY 10027, United States of America;

Zengmin Li, residing at 400 West 119th Street, Apt. 15J, New York, NY 10027 United States of America;

Qinglin Meng, residing: 1277 Picasso Dr. Sunnyvale, California 94087 United States of America;

Jia Guo, residing at 2680 Fayette Dr. #503 Mountain View, CA 94040 United States of America;

Shenglong Zhang, residing at 434 W 120th Street, Apt. 5D2, New York, NY 10027, United States of America; and

Lin Yu, residing at 969 Columbus Ave., Apt. 3B, New York, NY 10025, United States of America

Hereby sell, assign and transfer to The Trustees of Columbia University in the City of New York, a corporation of the State of New York, having a place of business at West 116th Street and Broadway, in the County of New York and State of New York, 10027 United States of America, its successors, assigns and legal representatives, the entire right, title and interest for all countries, in and to any and all inventions which are disclosed and claimed, and any and all inventions which are disclosed but not claimed, in the application for United States Patent, which has been executed by the undersigned on May 27, 2010; April 28, 2010 April 28, 2010; April 27, 2010; July 21, 2010; April 27, 2010 April 28, 2010 and is entitled
DESIGN AND SYNTHESIS OF CLEAVABLE FLUORESCENT NUCLEOTIDES AS

PTV Rev. April 19, 2007

REVERSIBLE TERMINATORS FOR DNA SEQUENCING BY SYNTHESIS
(U.S. SERIAL NO. 12/734, 227, §371 NATIONAL STAGE OF PCT INTERNATIONAL
APPLICATION NO. PCT/US2008/011891, FILED OCTOBER 17, 2008, CLAIMING THE
BENEFIT OF U.S. PROVISIONAL APPLICATION NO. 60/999,576, FILED OCTOBER 19,
2007)

*and in and to said application and all divisional, continuing, substitute, renewal,
reissue, and all other applications for U.S. Letters Patent or other related property
rights in any and all foreign countries which have been or shall be filed on any of
said inventions disclosed in said application; and in and to all original and reissued
patents or related foreign documents which have been or shall be issued on said
inventions;*

*Authorize and request the Commissioner for Patents of the United States to
issue to said Assignee, the corporation above named, its successors, assigns and
legal representatives, in accordance with this assignment, any and all United States
Letters Patent on said inventions or any of them disclosed in said application;*

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Agree that said Assignee may apply for and receive foreign Letters Patent or rights of any other kind for said inventions, or any of them; and may claim, in applications for said foreign Letters Patent or other rights, the priority of the aforesaid United States patent application under the provisions of the International Convention of 1883 and later modifications thereof, under the Patent Cooperation Treaty, under the European Patent Convention or under any other available international agreement; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned or the undersigned's executors or administrators will, for the United States and all foreign countries, execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications or other documents on any and all said inventions; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and representatives, all facts known and documents available to the undersigned relating to said inventions and the history thereof; testify in all legal proceedings; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said inventions and for vesting title to said inventions and all applications for patents or related foreign rights and all patents on said inventions, in said Assignee, its successors, assigns and legal representatives; and

Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Date: 5/27/10
 Witness: [Signature] (signature)
Lin Yu (printed name)
10 W 47th St. 1A (address)
New York, NY 10024

[Signature] [LS]
 Jingyue Ju

JFW Rev. April 19, 2007

Date: 04/29/10
Witness: [Signature] (signature)
NA Zhou (printed name)
155 Newton St (address)
Waltham, MA 02453

[Signature] (LS)
Huanan Cao

Date: _____
Witness: _____ (signature)
_____ (printed name)
_____ (address)

_____ (LS)
Zengmin Li

Date: _____
Witness: _____ (signature)
_____ (printed name)
_____ (address)

_____ (LS)
Qinglin Meng

Date: _____
Witness: _____ (signature)
_____ (printed name)
_____ (address)

_____ (LS)
Jia Guo

Date: _____
Witness: _____ (signature)
_____ (printed name)
_____ (address)

_____ (LS)
Shenglong Zhang

Page 4

Date: _____
 Witness: _____ (signature)
 _____ (printed name)
 _____ (address)

 Huanyan Cao [LSI]

Date: 4-28-2010
 Witness: XIAOXU LI (signature)
XIAOXU LI (printed name)
403 W 115th Street #22 (address)
New York, NY 10025

Xiaoxu Li [LSI]

Date: _____
 Witness: _____ (signature)
 _____ (printed name)
 _____ (address)

 Qinglin Meng [LSI]

Date: _____
 Witness: _____ (signature)
 _____ (printed name)
 _____ (address)

 Jia Guo [LSI]

Date: _____
 Witness: _____ (signature)
 _____ (printed name)
 _____ (address)

 Shenglong Zhang [LSI]

2010 Rev April 10, 2004

Date: _____
Witness: _____ (signature)
_____ (printed name)
_____ (address)

Hitanyan Cao [LS]

Date: _____
Witness: _____ (signature)
_____ (printed name)
_____ (address)

Zengmin Li [LS]

Date: 4/27/2010
Witness: Haitao Guo (signature)
Haitao Guo (printed name)
3707 Poiciana Dr #37 (address)
Santa Clara, CA-95051

Qinglin Meng (signature)

Qinglin Meng [LS]

Date: _____
Witness: _____ (signature)
_____ (printed name)
_____ (address)

Jia Guo [LS]

Date: _____
Witness: _____ (signature)
_____ (printed name)
_____ (address)

Shenglong Zhang [LS]

Date: _____
Witness: _____ (signature)
_____ (printed name)
_____ (address)

Huanyan Cao (LSI)

Date: _____
Witness: _____ (signature)
_____ (printed name)
_____ (address)

Zengmin Li (LSI)

Date: _____
Witness: _____ (signature)
_____ (printed name)
_____ (address)

Qinglin Meng (LSI)

Date: 7/21/2010
Witness: Ning Xu (signature)
Ning Xu (printed name)
2800 Foothill Dr. #03 (address)
Mountain View, CA 94040

[Signature]
Jia Guo (LSI)

Date: _____
Witness: _____ (signature)
_____ (printed name)
_____ (address)

Shenglong Zhang (LSI)

Date: _____
Witness: _____ (signature)
_____ (printed name)
_____ (address)

Huanyan Cao [LS]

Date: _____
Witness: _____ (signature)
_____ (printed name)
_____ (address)

Zengmin Li [LS]

Date: _____
Witness: _____ (signature)
_____ (printed name)
_____ (address)

Qinglin Meng [LS]

Date: _____
Witness: _____ (signature)
_____ (printed name)
_____ (address)

Jia Guo [LS]

Date: April 16, 2012
Witness: [Signature] (signature)
Shenglong Zhang (printed name)
115 Broadway St (address)
Boston, MA 02116

[Signature]
Shenglong Zhang [LS]

Date: 4/28/10
 Witness: [Signature] (signature)
Wenling Guo (printed name)
38 Morgan St. Apt 208 (address)
Jersey City, NJ 07302

[Signature] (signature)
 Yu Liu

JPW Rev. 7/19/2007