

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
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EPAS ID: PAT7104042

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	JINGYUE JU	05/27/2010
	HUANYAN CAO	04/29/2010
	ZENGMIN LI	04/28/2010
	QINGLIN MENG	04/27/2010
	JIA GUO	07/21/2010
	SHENGLONG ZHANG	04/27/2010
	LIN YU	04/28/2010
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK	
<b>Street Address:</b>	412 LOW MEMORIAL LIBRARY, 535 W. 116TH STREET	
<b>City:</b>	NEW YORK	
<b>State/Country:</b>	NEW YORK	
<b>Postal Code:</b>	10027	
<b>PROPERTY NUMBERS Total: 1</b>		
<b>Property Type</b>	<b>Number</b>	
<b>Application Number:</b>	17560928	
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>		
<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>		
<b>Phone:</b>	2123368000	
<b>Email:</b>	ptodocket@arelaw.com	
<b>Correspondent Name:</b>	AMSTER ROTHSTEIN & EBENSTEIN LLP	
<b>Address Line 1:</b>	90 PARK AVENUE	
<b>Address Line 4:</b>	NEW YORK, NEW YORK 10016	
<b>ATTORNEY DOCKET NUMBER:</b>	78341-A6-PCT-US/GJG/YX/JP	
<b>NAME OF SUBMITTER:</b>	GARY J. GERSHIK	
<b>SIGNATURE:</b>	/Gary J. Gershik/	
<b>DATE SIGNED:</b>	01/04/2022	

**Total Attachments: 9**

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Attorney Docket No. 78341-A-PCT-US/IPW/WS

***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**

*IPW 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;*

JPIW Rev. April 19, 2007

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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 Ya (printed name)  
 100 W 87th St. 1A (address)  
 New York, NY 10024

[Signature] (LS)  
 Jingyue Ju

JPW Rev. April 19, 2009

Date: 04/29/10  
 Witness: [Signature] (signature)  
NA Z.504 (printed name)  
155 Newton St (address)  
Waltham, MA 02453

[Signature] (LS)  
 Huanyu Cao

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: \_\_\_\_\_  
 Witness: \_\_\_\_\_ (signature)  
 \_\_\_\_\_ (printed name)  
 \_\_\_\_\_ (address)

\_\_\_\_\_  
 Shenglong Zhang (LS)

Page 4

Date: \_\_\_\_\_  
Witness: \_\_\_\_\_ (signature)  
\_\_\_\_\_ (printed name)  
\_\_\_\_\_ (address)

\_\_\_\_\_  
Huanyan Cao [LS]

Date: 9-28-2010  
Witness: Xiaoxu Li (signature)  
XIAOXU LI (printed name)  
403 W 115th Street #22 (address)  
New York, NY 10025

*Xiaoxu Li*  
Xiaoxu Li [LS]

Date: \_\_\_\_\_  
Witness: \_\_\_\_\_ (signature)  
\_\_\_\_\_ (printed name)  
\_\_\_\_\_ (address)

\_\_\_\_\_  
Qinglin Meng [LS]

Date: \_\_\_\_\_  
Witness: \_\_\_\_\_ (signature)  
\_\_\_\_\_ (printed name)  
\_\_\_\_\_ (address)

\_\_\_\_\_  
Jin Guo [LS]

Date: \_\_\_\_\_  
Witness: \_\_\_\_\_ (signature)  
\_\_\_\_\_ (printed name)  
\_\_\_\_\_ (address)

\_\_\_\_\_  
Shenglong Zhang [LS]

FORM 100 April 10, 2007

Date: \_\_\_\_\_  
Witness: \_\_\_\_\_ (signature)  
\_\_\_\_\_ (printed name)  
\_\_\_\_\_ (address)

\_\_\_\_\_  
Huanyan 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  
Qinglin Meng [LS]

Date: \_\_\_\_\_  
Witness: \_\_\_\_\_ (signature)  
\_\_\_\_\_ (printed name)  
\_\_\_\_\_ (address)

\_\_\_\_\_  
Jia Guo [LS]

Date: \_\_\_\_\_  
Witness: \_\_\_\_\_ (signature)  
\_\_\_\_\_ (printed name)  
\_\_\_\_\_ (address)

\_\_\_\_\_  
Shenglong Zhang [LS]



Date: \_\_\_\_\_  
 Witness: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

\_\_\_\_\_  
 Huanyan Cao [LS]

Date: \_\_\_\_\_  
 Witness: \_\_\_\_\_  
 \_\_\_\_\_  
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\_\_\_\_\_  
 Zengmin Li [LS]

Date: \_\_\_\_\_  
 Witness: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

\_\_\_\_\_  
 Qinglin Meng [LS]

Date: 7/21/2010  
 Witness: Nahng Xu  
Ning Xu  
2450 Bayview Dr. #203  
Mountain View, CA 94040

\_\_\_\_\_  
 Jia Guo [LS]

Date: \_\_\_\_\_  
 Witness: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

\_\_\_\_\_  
 Shengdong Zhang [LS]

IPW Rev April 19 2007

Date: \_\_\_\_\_  
Witness: \_\_\_\_\_ (signature)  
\_\_\_\_\_ (printed name)  
\_\_\_\_\_ (address)

\_\_\_\_\_  
Huanan 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 11, 2012  
Witness: [Signature] (signature)  
Ying Wang (printed name)  
15 Sun Road, #2 (address)  
San Jose, CA 95128

[Signature] [LS]  
Shenglong Zhang

Date: 4/28/10  
Witness: [Signature] (signature)  
Wanning Guo (printed name)  
88 Morgan St. Apt 3608 (address)  
Ferry City, NJ 07302

[Signature] L.S.  
Yu Lin

JPW Rev. 4-19-2007