

7/9/09

07-10-2009

et No.

77224-PCT-US/JPW/JL

FORM PTO-1595 (Substitute)



U.S. DEPARTMENT OF COMMERCE

(Rev. 8-96)

To the Honorable Commissioner of

103566832

Patent and Trademark Office

d original documents or copy thereof.

1. Name of conveying party(ies):

Jingyue Ju, Dae Hyun Kim, Lanrong Bi,
Qinglin Meng, and Xiaoxu Li

Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

3. Nature of Conveyance:

- ☒ Assignment ☐ Merger
☐ Security Assignment ☐ Change of Name
☐ Other

Execution Date(s):

June 11, 2009; June 9,
2009; June 18, 2009; June
9, 2009; and June 12, 2009

2. Name and address of receiving party(ies):

The Trustees of Columbia
Name: University in the City of New
York

Internal Address:

Street Address: West 116th Street and
Broadway

City/State/Zip: New York, NY 10027

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date(s) of the application is (are):

A. Patent Application No.(s) 12/312,903

B. Patent No.(s)

Filed: as §371 national stage of PCT
International Application No.
PCT/US2007/024646, filed November 30,
2007Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: John P. White, Esq.

Internal Address: Cooper & Dunham LLP

Street Address: 30 Rockefeller Plaza,
20th Floor

City/State/Zip: New York, New York 10112

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR §3.41): \$ 40.00

☐ Enclosed☒ Authorized to be charged to deposit account

8. Deposit account number:

03-3125

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

John P. White

Name of Person Signing
Reg. No. 28,678

Signature

July 6, 2009

Date

I hereby certify that this correspondence is being deposited
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Total Number of pages including cover sheet, attachments and
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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, U.S.; Dae Hyun Kim, residing at 100 Morningside Drive, Apt. 5H, New York, NY 10027, U.S.; Lanrong Bi, residing at 610 West 115th Street, Apt. 63A, New York, NY 10025, U.S.; Qinglin Meng, residing at 529 West 111th Street, Apt. 22A, New York, NY 10025, U.S.; and Xiaoxu Li, residing at 403 W. 115th Street, Apt. #22, New York, NY 10027, U.S.

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, New York, NY 10027, in the County of New York and State of New York, 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 June 11, 2009; June 9, 2009; June 18, 2009; June 9, 2009; and June 12, 2009 and is entitled

FOUR-COLOR DNA SEQUENCING BY SYNTHESIS USING CLEAVABLE FLUORESCENT NUCLEOTIDE REVERSIBLE TERMINATORS
(U.S. Serial No. 12/312,903 , §371 national stage of PCT International Application No. PCT/US2007/024646, filed November 30, 2007, claiming the benefit of U.S. Provisional Application No. 60/872,240, filed December 1, 2006)

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;

JPW Rev. April 19, 2007

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:

Witness: Alisa Robinson

[signature]

1133 in Island Ave

(printed name)

Bremen, NY 10708

(address)

Jingyue Ju [Signature] [I.S.]

Date: 6/9/2009
 Witness: Aram Kim (signature)
Aram Kim (printed name)
179 Sherman Rd (address)
Boston MA 02467

Dae Kim [LS]
 Dae Hyun Kim

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

 Laurong Bi [LS]

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

 Qinglin Meng [LS]

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

 Xiaoxu Li [LS]

JPW Rev. April 19, 2007

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

 Dae Hyun Kim [LS]

Date: 6/28/09
 Witness: Deane J. Laux (signature)
Deane J. Laux (printed name)
Michigan Tech University (address)
Dpt. of Chemistry
1400 Townsend Dr
Houghton, MI 49931

 Lanrong Bi [LS]

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

 Qinglin Meng [LS]

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

 Xiaoxu Li [LS]

JPW Rev. April 19, 2007

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

 Dae Hyun Kim [LS]

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

 Lanrong Bi [LS]

Date: 06/09/2009
 Witness: [Signature] (signature)
Haitao Guo (printed name)
925 S Wolfe Road, #49 (address)
Sunnyvale, CA-94086

Qinglin Meng
 Qinglin Meng [LS]

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

 Xiaoxu Li [LS]

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

 Dae Hyun Kim (LS)

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

 Laorong Bi (LS)

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

 Qinglin Meng (LS)

Date: 06-12-09
 Witness: Zengmin Li (signature)
Zengmin Li (printed name)
404 West 119th St (address)
New York NY 10027

Xiaoxu Li (LS)
 Xiaoxu Li

JPW Rev. April 19, 2007