

11-18-2008

77224-PCT/JPW/WS

FORM PTO-1595 (Substitute)

U.S. DEPARTMENT OF COMMERCE

(Rev. 8-96)

Patent and Trademark Office

To the Honorable Commissioner of Patent

103535385

1. Name of conveying party(ies):

Jingyue Ju; Dae Hyun Kim; Lanrong Bi; Qinglin Meng; Xiaoxu Li

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

☐ Yes ☒ No

3. Nature of Conveyance:

☒ Assignment ☐ Merger
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☐ Other

Execution Date(s):

August 8, 2008; July 31, 2008; August 1, 2008; August 8, 2008; July 30, 2008

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 St and Broadway

City/State/Zip: New York, NY 10027

United States of America

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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) PCT/US2007/024646

Filed: November 30, 2007

B. Patent No.(s)

Additional 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: 1185 Avenue of the Americas

City/State/Zip: New York, New York 10036

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
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Signature

November 13, 2008

Date

I hereby certify that this correspondence is being deposited this date with the U.S. Postal Service with sufficient postage as first class mail in an envelope addressed to:
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ASSIGNMENT OF PCT INTERNATIONAL APPLICATION

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

Jingyue Ju, residing at 267 Marietta St., Englewood Cliffs, New Jersey 07632, United States of America; Dae Hyun Kim, residing at 100 Morningside Dr., Apt. 5H, New York, New York 10027, United States of America; Lanrong Bi, residing at 610 West 115th St., Apt. 63A, New York, New York 10025, United States of America; Qinglin Meng, residing at 529 West 111th St., Apt. 22A, New York, New York 10025, United States of America; and Xiaoxu Li, residing at 403 West 115th Street, Apt. 22, New York, New York 10027, 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 PCT International Application, which has been filed on November 30, 2007 and is entitled

FOUR-COLOR DNA SEQUENCING BY SYNTHESIS USING CLEAVABLE FLUORESCENT NUCLEOTIDE REVERSIBLE TERMINATORS

(PCT International Application No. PCT/US2007/024646, filed November 30, 2007, claiming priority of U.S. Provisional Application No. 60/872,240, filed December 1, 2006)

and in and to said PCT International 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 PCT International Application; and in and to all original and

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reissued patents or related foreign documents which have been or shall be issued on said inventions;

Agree that said Assignee may apply for and receive U.S. and foreign Letters Patent or rights of any other kind for said inventions, or any of them; and may claim, in applications for said U.S. and foreign Letters Patent or other rights, the priority of the aforesaid PCT International Application under the provisions of the International Convention of 1893 and later modifications thereof, 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,

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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.

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