505421336 04/10/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5468127

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CARL W. FULLER	02/07/2019
SHIV KUMAR	02/07/2019
JINGYUE JU	02/07/2019

RECEIVING PARTY DATA

Name:	THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK
Street Address:	535 W. 116TH STREET
Internal Address:	412 LOW MEMORIAL LIBRARY
City:	NEW YORK
State/Country:	NEW YORK
Postal Code:	10027

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14666124

CORRESPONDENCE DATA

Fax Number: (212)391-0525

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

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COOPER & DUNHAM LLP Correspondent Name: Address Line 1: 30 ROCKEFELLER PLAZA Address Line 4: NEW YORK, NEW YORK 10112

ATTORNEY DOCKET NUMBER:	85625-A/JPW/GJG
NAME OF SUBMITTER:	ROBERT B. RUH III
SIGNATURE:	85625-A/RBR/for Gary J. Gershik
DATE SIGNED:	04/10/2019

Total Attachments: 3

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> **PATENT** REEL: 048850 FRAME: 0053

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PATENT REEL: 048850 FRAME: 0054 Attorney Docket No. 0575/85625-A/JPW/GJG/JAK

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,

Carl W. Fuller, residing at 33 Robbins Avenue, Berkeley Heights, NJ 07922, United

States; Shiv Kumar, residing at 21 Muirhead Court, Belle Mead, NJ 08502, United

States; and Jingyue Ju, residing at 267 Marietta Street, Englewood Cliffs, NJ 07632,

United States;

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 and is entitled

CHEMICAL METHODS FOR PRODUCING TAGGED NUCLEOTIDES

(U.S. Serial No. 14/666,124, filed March 23, 2015)

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.

Carl W. Fuller

Date: 2/7/2019
Witness: J. J. J. Signature [signature]
Linka Fuller [printed name]
33 Robbins Ave [address]
Berkeley Hts, NJ 07922

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