

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5971217

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
JINGYUE JU	10/05/2015
SHIV KUMAR	10/07/2015
MIRKÓ PALLA	10/07/2015
JAMES J. RUSSO	10/05/2015
RECEIVING PARTY DATA	
Name:	THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK
Street Address:	412 LOW MEMORIAL LIBRARY
Internal Address:	535 W. 116TH STREET
City:	NEW YORK
State/Country:	NEW YORK
Postal Code:	10027
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14775451
CORRESPONDENCE DATA	
Fax Number:	(212)391-0525
<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 4:	NEW YORK, NEW YORK 10112
ATTORNEY DOCKET NUMBER:	84538-PCT-US
NAME OF SUBMITTER:	BRITTANY INTERNOSCIA
SIGNATURE:	84538-PCT-US/BI/for John P. White
DATE SIGNED:	02/19/2020
Total Attachments: 4	
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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 of 267 Marietta Street, Englewood Cliffs, NJ 07632, United States of America; Shiv KUMAR of 21 Muirhead Court, Belle Mead, NJ 08502, United States of America; Mirkó PALLA of 35 Cloverdale Road, Newton, MA 02461, United States of America; and James J. RUSSO of 60 Haven Avenue, Apt. 25E, New York, NY 10032, United States of America, effective March 14, 2014,

Hereby sell, assign and transfer to The Trustees of Columbia University in the City of New York, a not for profit 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

RAMAN CLUSTER TAGGED MOLECULES FOR BIOLOGICAL IMAGING
(U.S. Serial No. 14/775,451, filed September 11, 2015, § 371 national stage of PCT International Application No. PCT/US2014/029477, filed March 14, 2014, claiming the benefit of U.S. Provisional Application No. 61/799,082, filed March 15, 2013)

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;

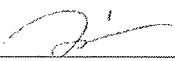
Authorize and request the Commissioner for Patents of the United States to issue to said Assignee, the corporation above named, its successors, assigns and legal representatives, in accordance with this assignment, any and all United States Letters Patent on said inventions or any of them disclosed in 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: 10-5-2015
 Witness: Petra K. Forde [signature]
Petra Forde [printed name]
550 West 120th St [address]
Ny, Ny 10027

 [LS]
 Jingyue JU

Date: 10-7-2015
Witness: Petra Forde [signature]
Petra FORDE [printed name]
550 West 120th St [address]
NY, NY 10027

Shiv Kumar [LS]
Shiv KUMAR

Date: _____
Witness: _____ [signature]

[printed name]

[address]

[LS]
Mirkó PALLA

Date: 10-5-2015
Witness: Petra Forde [signature]
Petra FORDE [printed name]
550 West 120th St [address]
NY, NY 10027

James J. Russo [LS]
James J. RUSSO

Date: _____
Witness: _____ [signature]
_____ [printed name]
_____ [address]

Shiv KUMAR [LS]

Date: 10/7/15
Witness: [Signature] [signature]
Jonathan Scheima [printed name]
129 Chiswick road [address]
Brighton, MA 02135

[Signature] [LS]
Mirk6 PALLA

Date: _____
Witness: _____ [signature]
_____ [printed name]
_____ [address]

James J. RUSSO [LS]