

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Kevin Reinhart</td> <td>02/20/2012</td> </tr> <tr> <td>Stuart Lindsay</td> <td>02/21/2012</td> </tr> <tr> <td>Peiming Zhang</td> <td>02/21/2012</td> </tr> </tbody> </table>		Name	Execution Date	Kevin Reinhart	02/20/2012	Stuart Lindsay	02/21/2012	Peiming Zhang	02/21/2012
Name	Execution Date								
Kevin Reinhart	02/20/2012								
Stuart Lindsay	02/21/2012								
Peiming Zhang	02/21/2012								
RECEIVING PARTY DATA									
Name:	Arizona Board of Regents, a body corporate of the State of Arizona Acting for and on behalf of Arizona State University								
Street Address:	1475 North Scottsdale Road								
Internal Address:	Suite 200								
City:	Scottsdale								
State/Country:	ARIZONA								
Postal Code:	85257-9908								
PROPERTY NUMBERS Total: 1									
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13122104</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13122104				
Property Type	Number								
Application Number:	13122104								
CORRESPONDENCE DATA									
Fax Number:	(212)983-3115								
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<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>									
Correspondent Name:	MINTZ LEVIN COHN FERRIS ET AL.								
Address Line 1:	666 Third Avenue								
Address Line 2:	24th Floor								
Address Line 4:	New York, NEW YORK 10017								
ATTORNEY DOCKET NUMBER:	43639-504N01US								
NAME OF SUBMITTER:	Brian P. Hopkins								

PATENT

Total Attachments: 6

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TRANSMITTAL FORM <i>(to be used for all correspondence after initial filing)</i>	Application Number	13/122,104	
	Filing Date	March 31, 2011	
	First Named Inventor	Kevin Reinhart	
	Art Unit - Conf. No.	NA / 5630	
	Examiner Name	Not yet assigned	
Total Number of Pages in This Submission	1	Attorney Docket Number	43639-504N01US

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Recordation Form Cover Sheet Assignment document
<div>Remarks</div>		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	MINTZ LEVIN COHN FERRIS GLOVSKY AND POPEO, P.C.		
Signature	/Brian P. Hopkins/		
Printed name	Brian P. Hopkins, Esq.		
Date	February 29, 2012	Reg. No.	42,669

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RECORDATION FORM COVER SHEET
PATENTS ONLY

FORM PTO-1595
(Rev. 6-93)
OMB No. 0651-0011 (exp. 4/94)

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Kevin REINHART
Stuart LINDSAY
Peiming ZHANG

Execution Date:

February 20, 2012
February 21, 2012
February 21, 2012

2. Name and address of receiving party(ies)

Name:

Arizona Board of Regents, a body corporate of the
State of Arizona Acting for and on behalf of Arizona
State University
1475 North Scottsdale Road, Suite 200
Scottsdale, Arizona 85257-9908

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

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

3. Nature of conveyance:

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

Execution Date: See Above

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is _____

A. Patent Application No(s):

13/122,104 filed on March 31, 2011

B. Patent No(s):

Additional numbers attached? ☐ Yes ☒ No

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

Name: Brian P. Hopkins, Esq.
Address: MINTZ, LEVIN, COHN, FERRIS
GLOVSKY and POPEO, P.C.
666 Third Avenue - 24th Floor
New York, New York 10017

6. Total number of applications and patents involved: [1]

7. Total fee (37 CFR 3.41) \$40.00

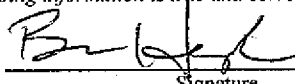
- ☐ Enclosed
☒ The Commissioner is authorized to charge Deposit Account
No: 50-0311, Reference No. 43639-504N01US, Customer No.
35437 for filing fees and any deficiencies.

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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.

Brian P. Hopkins, Reg. No. 42,669



February 29, 2012

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and document(5)

Mail documents to be recorded with required cover sheet information to:

MAIL STOP ASSIGNMENT RECORDATION SERVICES
Director of the United States Patent and Trademark Office
P. O. Box 1450
Alexandria, VA 22313-1450

ASSIGNMENT

We, **Kevin REINHART**, a citizen of the United States, residing at 1060 E. Hawken Way, Chandler, AZ 85286; **Stuart LINDSAY**, a citizen of the United States, residing at 3229 E. Dessert Lane, Phoenix, AZ 85042; and **Peiming ZHANG**, a citizen of the United States, residing at 1554 E. Douglas Avenue, Gilbert, AZ 85234, hereinafter collectively referred to as the ASSIGNOR, for good and valuable consideration, the receipt of which is hereby acknowledged, hereby assign and transfer to **Arizona Board of Regents, a body corporate of the State of Arizona Acting for and on behalf of Arizona State University**, with offices at 1475 North Scottsdale Road, Suite 200, Scottsdale, Arizona 85257-9908 and its successors, assigns and legal representatives, all hereinafter referred to as the ASSIGNEE: (1) our entire right, title and interest for the United States and in all countries, in and to any and all inventions, discoveries and applications which are disclosed in United States Patent application entitled:

NANOPORE AND CARBON NANOTUBE BASED DNA SEQUENCER AND A SERIAL RECOGNITION ELEMENTS

filed with the U.S. Patent and Trademark Office on March 31, 2011 and assigned Serial No. 13/122,104, as well as claiming priority to International Applications Nos. PCT/US2009/059693, filed on October 6, 2009; PCT/US2009/037563, filed on March 18, 2009; PCT/US2009/037570, filed on March 18, 2009 and U.S. Provisional Application No. 61/103,019, filed on October 6, 2008; including any renewals, revivals, reissues, reexaminations, extensions, continuations and divisions of such applications and any substitute applications therefor; including any utility applications claiming benefit thereof and any renewals, revivals, reissues, reexaminations, extensions, continuations and divisions of such utility applications and any substitute applications therefor; (2) the full and complete right to file patent applications in the name of the ASSIGNEE, its designee, or in my/our names at the ASSIGNEE, or its designee's election, on the aforesaid inventions, discoveries and applications in all countries of the world; (3) the entire right, title and interest in and to any Letters Patent which may issue on any utility application claiming benefit of said patent application in the United States or in any country, and any renewals, revivals, reissues, reexaminations and extensions thereof, and any patents of confirmation, registration and importation of the same; and (4) the entire right, title and interest in all Convention and Treaty Rights of all kinds thereon, including without limitation all rights of priority in any country of the world, in and to the above inventions, discoveries and applications.

We hereby authorize and request the competent authorities to grant and to issue any and all such Letters Patents in the United States and throughout the world to the ASSIGNEE of the entire right, title and interest therein, as fully and entirely as the same would have been held and enjoyed by me had this assignment, sale and transfer not been made.

We agree, at any time, upon the request of the ASSIGNEE, to execute and to deliver to the ASSIGNEE any additional applications for patents for said inventions and designs, or any part or parts thereof, and any applications for patents of confirmation, registration and importation based

Application No. 13/122,104
Attorney Docket No. 43639-504N01US

on any Letters Patent issuing on said inventions and/or designs and divisions, continuations, renewals, revivals, reissues, reexaminations and extensions thereof.

We further agree at any time to execute and to deliver upon request of the ASSIGNEE such additional documents, if any, as are necessary or desirable to give full effect to and to perfect the rights of the ASSIGNEE under this Assignment, including the execution, delivery and procurement of any and all further documents evidencing this assignment, transfer and sale as may be necessary or desirable.

We hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

We further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention, and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

Date: 2/20/12

Kevin Reinhart
Signature of: Kevin Reinhart

State of Arizona
County of Maricopa

On this 20 day of February, 2012, before me, the undersigned notary public, personally appeared Kevin Reinhart, proved to me through satisfactory evidence of identification, which was a Kevin Reinhart, to be the person whose name is signed on this document and who swore or affirmed to me that the contents of this document are truthful and accurate to the best of his/her knowledge and belief.

Frances M. Kennedy



Application No. 13/122,104
Attorney Docket No. 43639-504N01US

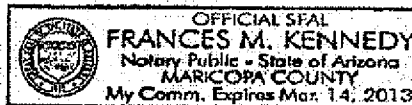
Date: 2/21/2012

Peiming Zhang
Signature of: Peiming Zhang

State of Arizona
County of Maricopa

On this 21 day of February, 2012, before me, the undersigned notary public, personally appeared Peiming Zhang, proved to me through satisfactory evidence of identification, which was a drivers license, to be the person whose name is signed on this document and who swore or affirmed to me that the contents of this document are truthful and accurate to the best of his/her knowledge and belief.

Frances M Kennedy



Application No. 13/122,104
Attorney Docket No. 43639-504N01US

Date: 2/21/12

Stuart Lindsay
Signature of: Stuart Lindsay

State of Arizona
County of Maricopa

On this 21 day of February, 2012, before me, the undersigned notary public, personally appeared Stuart Lindsay, proved to me through satisfactory evidence of identification, which was Adriano Weiss, to be the person whose name is signed on this document and who swore or affirmed to me that the contents of this document are truthful and accurate to the best of his/her knowledge and belief.

Frances M. Kennedy

