

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	JOHN MICHAEL RAMSEY	03/28/2014
	LAURENT MENARD	03/28/2014
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	
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<b>Internal Address:</b>	CAMPUS BOX 4105	
<b>City:</b>	CHAPEL HILL	
<b>State/Country:</b>	NORTH CAROLINA	
<b>Postal Code:</b>	27599-4105	
<b>PROPERTY NUMBERS Total: 2</b>		
<b>Property Type</b>	<b>Number</b>	
<b>Application Number:</b>	14204211	
<b>PCT Number:</b>	US1423371	
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>		
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>		
<b>Email:</b>	crose@myersbigel.com	
<b>Correspondent Name:</b>	MYERS BIGEL SIBLEY & SAJOVEC, P.A.	
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<b>Address Line 4:</b>	RALEIGH, NORTH CAROLINA 27612	
<b>ATTORNEY DOCKET NUMBER:</b>	5470-662TSX	
<b>NAME OF SUBMITTER:</b>	JULIE H. RICHARDSON	
<b>SIGNATURE:</b>	/Julie H. Richardson/	
<b>DATE SIGNED:</b>	04/08/2014	
<b>Total Attachments: 5</b>		
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**ASSIGNMENT**

THIS ASSIGNMENT, made by us, **John Michael Ramsey**, a citizen of the United States of America, residing in Chapel Hill, NC; and **Laurent Menard**, a citizen of the United States of America, residing in Cary, NC;

WITNESSETH: That,

WHEREAS, we are joint inventors of certain new and useful improvements in **NANOFLUIDIC DEVICES FOR THE RAPID MAPPING OF WHOLE GENOMES AND RELATED SYSTEMS AND METHODS OF ANALYSIS** for which U.S. Patent Application No. 14/204,211 was filed on March 11, 2014 in the United States Patent and Trademark Office and for which Patent Cooperation Treaty (PCT) Application No. PCT/US2014/023371 was filed on March 11, 2014, with the United States Patent and Trademark Office as the International Receiving Office; and

WHEREAS, **The University of North Carolina at Chapel Hill**, a constituent institution of The University of North Carolina and an educational institution chartered under the laws of the State of North Carolina having a principal place of business at 308 Bynum Hall, Campus Box 4105, Chapel Hill, North Carolina 27599-4105, hereinafter referred to as assignee, is desirous of acquiring the entire right, title and interest in and to said invention as described in said application(s), and in and to any and all Letters Patent which shall be granted therefor in the United States of America and all foreign countries;

NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we have sold and by these presents do hereby sell, assign, transfer, and convey unto the said Assignee, its successors and assigns, the entire right, title, and interest in and to the said invention(s) and applications, and in and to any and all continuations, continuations-in-part, or divisions thereof and to all domestic, foreign and international applications claiming the benefit of priority thereof, and in and to any and all Letters Patent of the United States of America and all foreign countries or reissues or other forms of protection thereof which may be granted therefor or thereon, for the full end of the term for which said Letters Patent may be granted along with any term extensions thereon or therefor, together with the right to claim the priority of said applications in all foreign countries in accordance with the International

Convention, the same to be held and enjoyed by said Assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

We hereby request that said Letters Patent be issued in accordance with this assignment.

We further covenant and agree that, at the time of the execution and delivery of these presents, we possess full title to the invention(s) and applications above-mentioned, and that we have the unencumbered right and authority to make this assignment.

We further covenant and agree to promptly communicate to said Assignee or its representatives any facts known to us relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the Assignee, its representatives, successors, or assigns to secure patent or similar protection for the said invention(s) in all countries and to vest in the Assignee complete title to the said invention and Letters Patent, without further compensation, but at the expense of said Assignee, its successors, assigns, and other legal representatives; and we hereby instruct, and further covenant and agree to bind our heirs, legal representatives, and assigns, to do same, without further compensation, but at the expense of said Assignee or its representatives.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 28 day  
of March, 2014.

John Michael Ramsey (SEAL)  
John Michael Ramsey

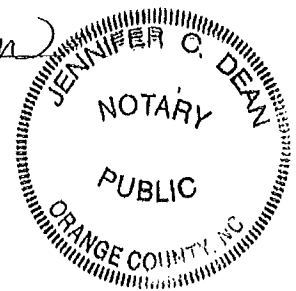
STATE OF North Carolina  
COUNTY OF Orange

Before me personally appeared the person described in and who executed the  
foregoing instrument, and he acknowledged to me that he executed the same for the purposes  
therein stated, this 28<sup>th</sup> day of March, 2014.

Jennifer C. Dean  
Notary Public

SEAL

My Commission Expires: May 16, 2017



IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 28 day  
of March, 2014.

Laurent D Menard (SEAL)  
Laurent Menard

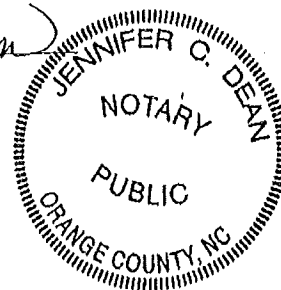
STATE OF North Carolina  
COUNTY OF Orange

Before me personally appeared the person described in and who executed the  
foregoing instrument, and he acknowledged to me that he executed the same for the purposes  
therein stated, this 28<sup>th</sup> day of March, 2014.

Jennifer C Dean  
Notary Public

SEAL

My Commission Expires: May 16, 2017



WHEREBY The University of North Carolina at Chapel Hill acknowledges and accepts the assignment.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 1<sup>st</sup> day of April, 2014. The undersigned warrants and represents that he/she has the authority to sign this Assignment on behalf of the Assignee, The University of North Carolina at Chapel Hill.

By: Jacqueline Quay (SEAL)

Printed Name: Jacqueline Quay

Title: Interim Director

STATE OF NORTH CAROLINA

COUNTY OF ORANGE )

Before me personally appeared the person described in and who executed the foregoing instrument, and he/she acknowledged to me that he/she executed the same for the purposes herein stated, this 1<sup>st</sup> day of April, 2014.

Doris Bonita Perry  
Notary Public

