

## PATENT ASSIGNMENT COVER SHEET

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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>JOHN MICHAEL RAMSEY</td> <td>04/27/2011</td> </tr> <tr> <td>ANDREW CHAMBERS</td> <td>04/27/2011</td> </tr> </tbody> </table>		Name	Execution Date	JOHN MICHAEL RAMSEY	04/27/2011	ANDREW CHAMBERS	04/27/2011
Name	Execution Date						
JOHN MICHAEL RAMSEY	04/27/2011						
ANDREW CHAMBERS	04/27/2011						
RECEIVING PARTY DATA							
Name:	THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL						
Street Address:	308 BYNUM HALL						
Internal Address:	CAMPUS BOX 4105						
City:	CHAPEL HILL						
State/Country:	NORTH CAROLINA						
Postal Code:	27599-4105						
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>14001549</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14001549		
Property Type	Number						
Application Number:	14001549						
CORRESPONDENCE DATA							
Fax Number:							
Email:	crose@myersbigel.com						
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>							
Correspondent Name:	MYERS BIGEL SIBLEY & SAJOVEC, P.A.						
Address Line 1:	4140 PARKLAKE AVE						
Address Line 2:	SUITE 600						
Address Line 4:	RALEIGH, NORTH CAROLINA 27612						
ATTORNEY DOCKET NUMBER:	5470-591TS						
NAME OF SUBMITTER:	JULIE H. RICHARDSON						
Signature:	/Julie H. Richardson/						
Date:	10/10/2013						

CH \$40.00 14001549

PATENT

**Total Attachments: 5**

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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; and **Andrew Chambers**, a citizen of the United States of America, residing in Chapel Hill, NC;

WITNESSETH: That,

WHEREAS, we are joint inventors of certain new and useful improvements in **MICROCHIPS WITH INTEGRATED MULTIPLE ELECTROSPRAY IONIZATION EMITTERS AND RELATED METHODS, SYSTEMS AND DEVICES** for which U.S. Provisional Application No. 61/451,667 was filed on March 11, 2011; 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, 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 and provisional application, and in and to any and all subsequent patent applications which claim the benefit of priority from said provisional application including regular utility, continuations, and continuations-in-part, or divisions 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 for the invention in or on applications claiming the benefit of priority from said provisional application, for the full end of the term for which said Letters Patent may be granted along with any term extensions thereof or therefor, together with the right to claim the benefit of priority from said application 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 and application 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 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.

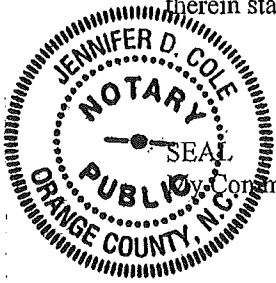
IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 27 day of April, 2011.

John Michael Ramsey (SEAL)  
John Michael Ramsey

STATE OF NC )  
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 27th day of April, 2011.

Jennifer D. Cole  
Notary Public



Commission Expires: October 14, 2014



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 2nd day of May, 2011. 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: Catherine Innes (SEAL)

Printed Name: CATHERINE INNES

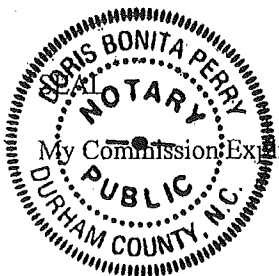
Title: DIRECTOR, OFFICE OF TECHNOLOGY DEVELOPMENT

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 therein stated, this 2 day of May, 2011.

Deis Bonita Perry  
Notary Public



My Commission Expires: June 28, 2015