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Alexandre A. Shvartsburg  
Keqi Tang  
Richard D. Smith  
Additional name(s) of conveying party(ies) attached?  Yes  No

2. Name and address of receiving party(ies)  
Name: Battelle Memorial Institute  
Internal Address: (K1-53)  
Street Address: P.O. Box 999  
City: Richland State: WA Zip: 99352  
Additional name(s) & address(es) attached?  Yes  No

11/09/05 U.S. PTO



3. Nature of conveyance:  
 Assignment  Merger  
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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: 03/31/2005  
A. Patent Application No.(s) \_\_\_\_\_  
B. Patent No.(s) \_\_\_\_\_  
Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:  
Name: James D. Matheson  
Internal Address: K1-53  
Street Address: P.O. Box 999  
City: Richland State: WA Zip: 99352

6. Total number of applications and patents involved: 1  
7. Total fee (37 CFR 3.41).....\$ 40.00  
 Enclosed  
 Authorized to be charged to deposit account  
8. Deposit account number:  
02-1275

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9. Signature.  
James D. Matheson  
Name of Person Signing  
*James D. Matheson*  
Signature  
3-31-05  
Date

Total number of pages including cover sheet, attachments, and documents: 6

Mail documents to be recorded with required cover sheet information to:  
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PATENT  
REEL: 016454 FRAME: 0230

PATENT

File No. 14417-E

A S S I G N M E N T

Alexandre A. Shvartsburg  
Keqi Tang  
Richard D. Smith

To

Battelle Memorial  
Institute

WHEREAS, we, Alexandre A. Shvartsburg of Richland, County of Benton, State of Washington; Keqi Tang of Richland, County of Benton, State of Washington; and Richard D. Smith of Richland, County of Benton, State of Washington, have made certain inventions in, **METHOD AND APPARATUS FOR ION MOBILITY SPECTROMETRY WITH ALIGNMENT OF DIPOLE DIRECTION (IMS-ADD)**, for which we are about to make application for Letters Patent of the United States; and

WHEREAS Battelle Memorial Institute, a corporation of Ohio, organized and existing under the laws of the State of Ohio, and having a place of business in the City of Richland, Washington, is desirous of acquiring an interest in the said invention and in any patent or patents to be obtained therefor;

NOW, THEREFORE, To All Whom It May Concern, be it known that, for and in consideration of the sum of One Dollar (\$1.00) each, and other good and valuable considerations, the receipt of which is hereby acknowledged, I have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto the said Battelle Memorial Institute, the entire right, title, and interest in and to the invention shown, described, or claimed therein, and the full and exclusive right and title to the said application, executed by me on the 31 day of March, 2005, preparatory to obtaining Letters Patent of the United States therefor; and in and to any extensions, reissues, divisions, or renewals thereof; and I do hereby

authorize and request the Commissioner of Patents or other proper Officer, to issue such Letters Patent, or any of them to the said Battelle Memorial Institute, as the assignee of my entire right, title, and interest in and to the same for the sole use and benefit of the said Battelle Memorial Institute, and its successors or assigns.

And I further covenant and agree that I will, at the request and expense of the said Battelle Memorial Institute, execute such other and further assurances of title as may be necessary or proper to fully convey the interest herein sought to be conveyed; that I will, at the request and expense of the said Battelle Memorial Institute, execute such application papers as may be desired by the said Battelle Memorial Institute, for the filing of any division or renewal of the application herein conveyed, or for reissues or extensions, or any Letters Patent that may be granted upon said application, and will execute such Supplemental Oaths and Preliminary Statements, or other papers as desired by the said Battelle Memorial Institute.


And I further assign unto the said Battelle Memorial Institute, the whole right, title, and interest to the invention disclosed in the application throughout all countries foreign to the United States, and do hereby authorize the said Battelle Memorial Institute to apply for patents therefor in its own name in countries where such procedure is proper and to claim the benefit of the International Convention and agree to execute applications of the said invention in the several countries where it is necessary that the same be executed by the inventors, and to execute assignments of such applications and the patents to be obtained therefor to the said Battelle Memorial Institute, the assignee herein, as well as all other necessary papers.

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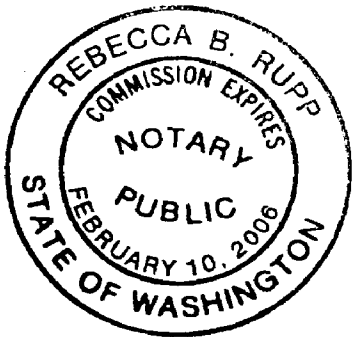


Executed at Richland, State of Washington, this 31 day  
of March, 2005.

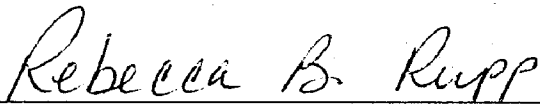
  
Richard D. Smith

STATE OF Washington            )  
  )    ss.  
COUNTY OF Benton            )

This 31 day of March, 2005, before me personally came the above-named Richard D. Smith, who executed the foregoing instrument in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.



[SEAL]

  
Notary Public for the State of Washington  
My commission expires: 2/10/2006