PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ALEKSEY TOLMACHEV	10/31/2014
RICHARD D. SMITH	10/31/2014
YEHIA M. IBRAHIM	10/31/2014
GORDON A. ANDERSON	12/29/2014
ERIN M. BAKER	11/03/2014

RECEIVING PARTY DATA

Name:	BATTELLE MEMORIAL INSTITUTE
Street Address:	P.O. BOX 999, K1-53
City:	RICHLAND
State/Country:	WASHINGTON
Postal Code:	99352

PROPERTY NUMBERS Total: 4

Property Type	Number
Patent Number:	8835839
Application Number:	61809660
Application Number:	14292448
Application Number:	14528917

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	30645-E
NAME OF SUBMITTER:	A.J. GOKCEK
SIGNATURE:	/ A.J. GOKCEK /
DATE SIGNED:	12/29/2014
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503117025 REEL: 034592 FRAME: 0392

Total Attachments: 8 source=Assignment#page1.tif source=Assignment#page3.tif source=Assignment#page4.tif source=Assignment#page5.tif source=Assignment#page6.tif source=Assignment#page7.tif source=Assignment#page8.tif

PATENT REEL: 034592 FRAME: 0393

ASSIGNMENT OF PATENT RIGHTS

Aleksey Tolmachev Richard D. Smith Yehia M. Ibrahim Gordon A. Anderson Erin M. Baker

To Battelle Memorial Institute

WHEREAS, we, Aleksey Tolmachev of Richland, County of Benton, State of Washington; Richard D. Smith of Richland, County of Benton, State of Washington; Yehia M. Ibrahim of Richland, County of Benton, State of Washington; Gordon A. Anderson of Benton City, County of Benton, State of Washington; and Erin M. Baker of West Richland, County of Benton, State of Washington; hereinafter INVENTORS, have made certain inventions related to, ION MANIPULATION DEVICE TO PREVENT LOSS OF IONS including those, described and claimed in various disclosures including:

- U.S. Provisional Application No. 61/809,660, filed April 8, 2013, Entitled: Ion Manipulation Device
- U.S. Patent Application No. 14/146,922, filed January 3, 2014, Entitled: Ion Manipulation Device
- U.S. Patent Application No. 14/292,448, filed May 30, 2014, Entitled: Ion Manipulation Device With Electrical Breakdown Protection
- U.S. Patent Application No. 14/528,917, filed October 30, 2014, Entitled: Ion Manipulation Device to Prevent Loss of Ions

For which we are about to make application for Letters Patent of the United States; collectively referred to hereinafter as INVENTIONS;

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 all right, title, and interest in the said INVENTIONS and in all patents or patent applications sought or obtained therefor;

NOW, THEREFORE, be it known to all those who may be concerned, 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, We the INVENTORS have each 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 INVENTIONS shown, described, or claimed herein, and the full and exclusive right, title, and interest to any and all patents and patent applications that show, describe or claim said INVENTIONS including but not limited to those applications referenced herein, and in and to any extensions, continuations, including continuations in part, reissues, divisions, or renewals thereof; and We each 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.

We each further covenant and agree that we each 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; and that each of us 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 (including continuations or continuations in part applications), 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.

We each 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

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International Conventions 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.

Executed at Richland, State of Washington, this 31 day of October, 2014.
Taluechev Aleksey Tolmachev
Aleksey Tolmachev
STATE OF Washington)) ss.
COUNTY OF Benton)
This 31st day of October, 2014, before me personally came the above-named Aleksey Tolmachev, 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. Notary Public for the State of Washington
Notary Public for the State of Washington My commission expires: [SEAL]

Executed at Richland, State of Washington, this	31 day of October, 2014.
	Richard D. Smith
STATE OF Washington)	
) ss.	
COUNTY OF Benton)	
This 31st day of 2014, before Smith, who executed the foregoing instrument in the executed the same of his own free will for the	Adli Le adie
[SEAL]	Notary Public for the State of Washington My commission expires: 29(6)

Executed at Richland, State of Washington, this 31 day of october, 2014.
Yéhia M. Ibrahim
STATE OF Washington)) ss. COUNTY OF Benton)
This 315 day of 250., 2014, before me personally came the above-named Yehia M. Ibrahim, 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.
Notary Public for the State of Washington My commission expires: 12916
[SEAL] My commission expires: 129 16

Executed at Richland, State of Washington, this _	29 day of <i>DE</i> , 2014.
	alla
	Gordon A. Anderson
STATE OF Washington) ss. COUNTY OF Benton)	
This 29 ¹⁰ day of 100, 2014, before n Anderson, who executed the foregoing instrument that he executed the same of his own free will for	
EADING TO THE PARTY OF THE PART	Notary Public for the State of Washington My commission expires: 1/29/11
[SEAL]	

Executed at Richland, State of Washington, this 3,5 day of November, 2014.
Erin M. Baker
STATE OF Washington) ss. COUNTY OF Benton)
This <u>3rd</u> day of <u>Norwber</u> , 2014, before me personally came the above-named Erin M. Baker, who executed the foregoing instrument in my presence, and who acknowledged to me that she executed the same of her own free will for the purposes set forth therein.
[SEAL] Notary Public for the State of Washington My commission expires: Notary Public for the State of Washington My commission expires: Notary Public for the State of Washington My commission expires: Notary Public for the State of Washington My commission expires: