

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Michael Keidar	06/03/2011
Alexey Shashurin	06/06/2011
Taisen Zhuang	06/21/2011
RECEIVING PARTY DATA	
Name:	The George Washington University
Street Address:	2121 I Street, NW, Suite 601
Internal Address:	Rice Hall
City:	Washington
State/Country:	DISTRICT OF COLUMBIA
Postal Code:	20052
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	13081106
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ATTORNEY DOCKET NUMBER:	684218-25U1
NAME OF SUBMITTER:	Y. Jae Kim
Total Attachments: 5	

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PATENT
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A S S I G N M E N T

THIS ASSIGNMENT, made on the date or dates set forth below, by Michael KEIDAR, residing at 6620 Edenvale Road, Baltimore, Maryland, 21209, Alexey SHASHURIN, residing at 4364 N. Pershing Drive, #4, Arlington, Virginia, 22203, and Taisen ZHUANG, residing at 1600 S. Joyce Street, Apt 1105, Arlington, VA, 22202 (hereinafter referred to as "Assignors");

WHEREAS, Assignors have invented certain new and useful improvements in:

**MICRO-CATHODE THRUSTER AND A METHOD OF INCREASING THRUST
OUTPUT FOR A MICRO-CATHODE THRUSTER**

set forth in an Application for Letters Patent of the United States, filed on April 6, 2011, as U.S. Patent Application No. 13/081,106; and

WHEREAS, The George Washington University, a Congressionally Chartered Not-For-Profit Corporation, having its principal place of business at Rice Hall, Suite 601, 2121 I Street, NW, Washington, DC 20052 (hereinafter referred to as "Assignee"), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions in all forms and embodiments thereof and application for Letters Patent, and in and to any and all direct and indirect divisions, renewals, substitutes, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefor and thereon, and reissues, reexaminations, prolongations and extensions of said Letters Patent, and all rights under the International Convention for the

Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owner of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise without charge to Assignee; that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, renewal, substitute, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination, prolongation or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignors hereby request the Director of Patent and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters

Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

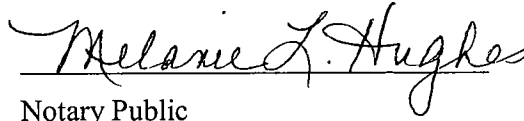
Date: June 3 2011



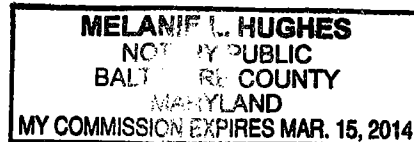
Michael KEIDAR

United States of America)
State of Maryland) ss.:
County of Baltimore)

On this 3rd day of June, 2011, before me personally came **Michael KEIDAR**, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



Notary Public

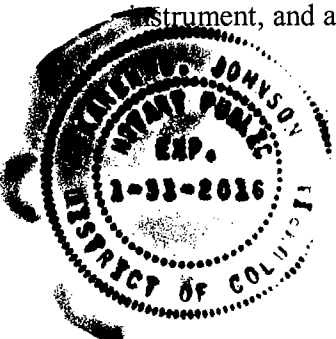


Date: 6/6/2011

Alexey SHASHURIN
Alexey SHASHURIN

United States of America)
DISTRICT OF COLUMBIA)
State of _____) ss.:
County of _____)

On this 6th day of JUNE, 2011, before me personally came Alexey SHASHURIN, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



Karen B. Johnson
Notary Public

KAREN B. JOHNSON
NOTARY PUBLIC DISTRICT OF COLUMBIA
My Commission Expires January 31, 2016

Date: _____

Taisen ZHUANG

United States of America)
State of _____) ss.:
County of _____)

On this _____ day of _____, 2011, before me personally came Taisen ZHUANG to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Notary Public

Date: _____

Alexey SHASHURIN

United States of America)

State of _____) ss.:

County of _____)

On this _____ day of _____, 2011, before me personally came **Alexey SHASHURIN**, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Notary Public

Date: June 21, 2011



Taisen ZHUANG

United States of America)


State of _____) ss.:

County of _____)

On this _____ day of _____, 2011, before me personally came **Taisen ZHUANG** to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

District of Columbia : SS
Subscribed and Sworn to before me

this 21 day of JUNE, 2011 Notary Public



Notary Public, D.C. 9-14-2013
My commission expires _____

Millicent Dunbar
Notary Public, District of Columbia
My Commission Expires 9/14/2013