

# PATENT ASSIGNMENT

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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>
Yevgeny Raitses	02/16/2011
Nathaniel Joseph Fisch	02/18/2011
Kevin David Diamant	02/24/2011
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	Trustees of Princeton University
<b>Street Address:</b>	Princeton University
<b>City:</b>	Princeton
<b>State/Country:</b>	NEW JERSEY
<b>Postal Code:</b>	08544
<b>Name:</b>	The Aerospace Corporation
<b>Street Address:</b>	2310 El Segundo Boulevard
<b>City:</b>	El Segundo
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	90245
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	13035475
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(404)853-8806
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
<b>Phone:</b>	4048538685
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<b>Correspondent Name:</b>	SUTHERLAND ASBILL & BRENNAN LLP
<b>Address Line 1:</b>	999 Peachtree Street NE
<b>Address Line 4:</b>	Atlanta, GEORGIA 30309-3996

CH \$40.00 13035475

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**PATENT**  
 REEL: 025870 FRAME: 0007

ATTORNEY DOCKET NUMBER:	11390-0061
NAME OF SUBMITTER:	Jason V. Chang
<p>Total Attachments: 8</p> <p>source=11390-0061_Assignment#page1.tif</p> <p>source=11390-0061_Assignment#page2.tif</p> <p>source=11390-0061_Assignment#page3.tif</p> <p>source=11390-0061_Assignment#page4.tif</p> <p>source=11390-0061_Assignment#page5.tif</p> <p>source=11390-0061_Assignment#page6.tif</p> <p>source=11390-0061_Assignment#page7.tif</p> <p>source=11390-0061_Assignment#page8.tif</p>	

## ASSIGNMENT

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**WHEREAS**, we, **YEVGENY RAITSES**, a citizen of the UNITED STATES OF AMERICA, residing at 314 Lakeview Terrace, Princeton, NJ 92614, USA, and **NATHANIEL JOSEPH FISCH**, a citizen of the UNITED STATES OF AMERICA, residing at 105 Fitzrandolph Road, Princeton, NJ 08540, USA, invented certain inventions and improvements disclosed in a non-provisional application entitled “**Systems and Methods for Cylindrical Hall Thrusters with Independently Controllable Ionization and Acceleration Stages**,” filed with the United States Patent and Trademark Office on February 25, 2011, and assigned U.S. Application Serial No. 13/035,475, and Attorney Docket No. 11390-0061 (*we hereby authorize and request that Sutherland Asbill & Brennan LLP insert the filing date and application number in the preceding blanks when known*); and

**WHEREAS**, **TRUSTEES OF PRINCETON UNIVERSITY**, a corporation of New Jersey having a principal place of business at Princeton, New Jersey is desirous of acquiring an interest in the same;

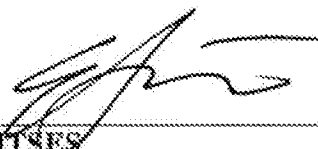
NOW, THEREFORE, for and in consideration of Five Dollars (\$5.00) and other good and valuable consideration, the receipt and sufficiency of which we hereby acknowledge, we, **RYAN YEVGENY RAITSES** and **NATHANIEL JOSEPH FISCH**, by these presents do sell, assign and transfer unto **TRUSTEES OF PRINCETON UNIVERSITY**, the full, exclusive and entire right, title, and interest in and to said applications, in and to any divisions, continuations, continuations in parts, and reissues thereof, and in and to all inventions and improvements disclosed and described in said applications, preparatory to obtaining Letters Patent of the United States therefore; and WE hereby request the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States resulting from said applications, or from a division, continuation, continuation in part, or reissue thereof, to **TRUSTEES OF PRINCETON UNIVERSITY**, as the assignee, for its interest and for the sole use and benefit of **TRUSTEES OF PRINCETON UNIVERSITY**, and its assigns and legal representatives;

For the same consideration, we, by these presents do sell, assign, and transfer to **TRUSTEES OF PRINCETON UNIVERSITY**, the full, exclusive, and entire right, title and interest in and to any foreign application or applications corresponding to any of said applications, in whole or in part, in countries other than the United States, in and to any Letters Patent and similar protective rights granted on said foreign applications, and in and to the right to claim any applicable priority rights

arising from or required for said foreign applications under the terms of any applicable conventions, treaties, statutes, or regulations; said foreign applications to be filed and issued in the name of **TRUSTEES OF PRINCETON UNIVERSITY**, or its designee insofar as permitted by applicable law.

AND, for the same consideration, we agree to sign all lawful papers, execute all division, continuing, continuation in part, reissue and other applications, make all assignments and rightful oaths, and generally do everything possible to aid **TRUSTEES OF PRINCETON UNIVERSITY**, its successors, assigns, and nominees, to obtain and enforce proper protection, including the right to sue for patent infringement, for all said inventions and improvements in all countries throughout the world.

INVENTOR

  
YEVGENY RAITSES

Date:

02/26/11

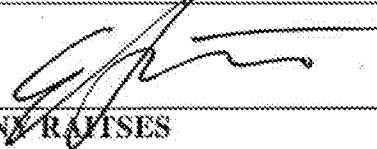
WITNESS:

Date:

WITNESS:

Date:

USE SECTION BELOW ONLY IF SIGNING IN PRESENCE OF A NOTARY

  
YEVGENY RAITSES

Date:

02/24/11

STATE OF

NJ

ss.

COUNTY OF

Middlesex

On 2/16/2011 before me, Linda Sue Hill, Notary Public, personally appeared **YEVGENY RAITSES** who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



(Seal)

Notary Public

INVENTOR

  
NATHANIEL JOSEPH FISCH

Date: 2/18/11

WITNESS: \_\_\_\_\_

Date: \_\_\_\_\_

WITNESS: \_\_\_\_\_

Date: \_\_\_\_\_

USE SECTION BELOW ONLY IF SIGNING IN PRESENCE OF A NOTARY

  
NATHANIEL JOSEPH FISCH

Date: 2/18/11

STATE OF NJ

COUNTY OF Middlesex

ss.

On Feb. 18, 2011 before me, Linda Sue Hill, Notary Public, personally appeared **NATHANIEL JOSEPH FISCH** who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

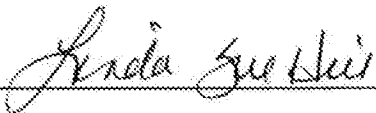
I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Attorney Docket No. 11390-0061 (D-694)

Assignment for "Systems and Methods for Cylindrical Hall Thrusters with Independently Controllable Ionization and Acceleration Stages"

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(Seal)

Notary Public

## ASSIGNMENT

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**WHEREAS, I, KEVIN DAVID DIAMANT**, a citizen of the UNITED STATES OF AMERICA, residing at 16 Terraza, Irvine, CA 92614, USA, invented certain inventions and improvements disclosed in a non-provisional application entitled “**Systems and Methods for Cylindrical Hall Thrusters with Independently Controllable Ionization and Acceleration Stages**,” filed with the United States Patent and Trademark Office on February 25, 2011, and assigned U.S. Application Serial No. 13/035,475, and Attorney Docket No. 11390-0061 (*I hereby authorize and request that Sutherland Asbill & Brennan LLP insert the filing date and application number in the preceding blanks when known*); and

**WHEREAS, THE AEROSPACE CORPORATION**, a California non-profit corporation having a principal place of business at 2310 East El Segundo Boulevard, El Segundo, CA 90245 is desirous of acquiring an interest in the same;

NOW, THEREFORE, for and in consideration of Five Dollars (\$5.00) and other good and valuable consideration, the receipt and sufficiency of which we hereby acknowledge, I, **KEVIN DAVID DIAMANT**, by these presents do sell, assign and transfer unto **THE AEROSPACE CORPORATION**, the full, exclusive and entire right, title, and interest in and to said applications, in and to any divisions, continuations, continuations in parts, and reissues thereof, and in and to all inventions and improvements disclosed and described in said applications, preparatory to obtaining Letters Patent of the United States therefor; and I hereby request the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States resulting from said applications, or from a division, continuation, continuation in part, or reissue thereof, to **THE AEROSPACE CORPORATION**, as the assignee, for its interest and for the sole use and benefit of **THE AEROSPACE CORPORATION**, and its assigns and legal representatives;

For the same consideration, I, by these presents do sell, assign, and transfer to **THE AEROSPACE CORPORATION**, the full, exclusive, and entire right, title and interest in and to any foreign application or applications corresponding to any of said applications, in whole or in part, in countries other than the United States, in and to any Letters Patent and similar protective rights granted on said foreign applications, and in and to the right to claim any applicable priority rights arising from or required for said foreign applications under the terms of any applicable conventions, treaties, statutes, or regulations; said foreign applications to be filed and issued in the name of **THE AEROSPACE CORPORATION**, or its designee insofar as permitted by applicable law.



AND, for the same consideration, I agree to sign all lawful papers, execute all division, continuing, continuation in part, reissue and other applications, make all assignments and rightful oaths, and generally do everything possible to aid **THE AEROSPACE CORPORATION**, its successors, assigns, and nominees, to obtain and enforce proper protection, including the right to sue for patent infringement, for all said inventions and improvements in all countries throughout the world.

INVENTOR

\_\_\_\_\_  
KEVIN DAVID DIAMANT Date: \_\_\_\_\_

WITNESS: \_\_\_\_\_ Date: \_\_\_\_\_

WITNESS: \_\_\_\_\_ Date: \_\_\_\_\_

OR

USE SECTION BELOW ONLY IF SIGNING IN PRESENCE OF A NOTARY

Kevin David Diamant Date: 2/24/2011  
KEVIN DAVID DIAMANT

STATE OF California

ss.

COUNTY OF Los Angeles

On February 24, 2011 before me, Carole Ann Mulchinski, Notary Public, personally appeared **KEVIN DAVID DIAMANT** who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Carole Ann Mulchinski

Notary Public

(Seal)

