

**PATENT ASSIGNMENT**

Electronic Version v1.1  
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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT												
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT												
<b>CONVEYING PARTY DATA</b>													
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>D. Jeffrey LISCHER</td> <td>10/02/2008</td> </tr> <tr> <td>John Bon-Woong KOO</td> <td>10/02/2008</td> </tr> <tr> <td>Peter F. KURUNCZI</td> <td>10/09/2008</td> </tr> <tr> <td>Shardul PATEL</td> <td>10/02/2008</td> </tr> <tr> <td>Wilhelm P. PLATOW</td> <td>10/02/2008</td> </tr> </tbody> </table>		Name	Execution Date	D. Jeffrey LISCHER	10/02/2008	John Bon-Woong KOO	10/02/2008	Peter F. KURUNCZI	10/09/2008	Shardul PATEL	10/02/2008	Wilhelm P. PLATOW	10/02/2008
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Wilhelm P. PLATOW	10/02/2008												
<b>RECEIVING PARTY DATA</b>													
<b>Name:</b>	Varian Semiconductor Equipment Associates, Inc.												
<b>Street Address:</b>	35 Dory Road												
<b>City:</b>	Gloucester												
<b>State/Country:</b>	MASSACHUSETTS												
<b>Postal Code:</b>	01930												
<b>PROPERTY NUMBERS Total: 1</b>													
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12244978</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12244978								
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Application Number:	12244978												
<b>CORRESPONDENCE DATA</b>													
<b>Fax Number:</b>	(978)281-3152												
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
<b>Phone:</b>	978-282-5818												
<b>Email:</b>	constance.ouellette@vsea.com												
<b>Correspondent Name:</b>	Scott R. Faber												
<b>Address Line 1:</b>	Varian Semiconductor Equipment Associate												
<b>Address Line 2:</b>	35 Dory Road												
<b>Address Line 4:</b>	Gloucester, MASSACHUSETTS 01930												
<b>ATTORNEY DOCKET NUMBER:</b>	2008-079												
<b>NAME OF SUBMITTER:</b>	Scott R. Faber												

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**Total Attachments: 5**

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ASSIGNMENT

WHEREAS, the undersigned, to wit:

Jeffrey D. LISCHER  
John (Bon-Woong) KOO  
Peter F. KURUNCZI  
Shardul PATEL  
Wilhelm P. PLATOW

(Hereinafter collectively ASSIGNOR), have/has made a certain new and useful invention as set forth in an application for United States Letters Patent, entitled:

METHOD AND APPARATUS FOR CONTROLLING BEAM CURRENT  
UNIFORMITY IN AN ION IMPLANTER

(X only one):

- (A)  which was executed concurrently herewith and is being filed herewith in the United States Patent and Trademark Office;
- (B)  which was executed on \_\_\_\_\_, 20\_\_, and is being filed herewith in the United States Patent and Trademark Office;
- (C)  which was filed as US Patent Application No. 12/244978, filed on October 3, 2008.

AND WHEREAS, Varian Semiconductor Equipment Associates, Inc., (hereinafter ASSIGNEE), a corporation organized and existing under the laws of the state of Delaware, and having its principal place of business at 35 Dory Road, Gloucester, Massachusetts, 01930, is desirous of acquiring the entire right, title, and interest in and to said invention and any and all patents that may be obtained therefore, and in and to said application and any and all patents that may issue therefrom;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, ASSIGNOR does hereby sell, assign, transfer, and set over unto said ASSIGNEE, its successors, assigns, and legal representatives, all right, title, and interest in and to said invention throughout the world, and any and all patents of the United States and foreign countries that may be obtained therefor, and in and to said application, including any and all continuations, continuations-in-part, divisionals, reissues, re-examinations, substitutions, and extensions thereof, and any and all patents of the United States and foreign countries that may issue therefrom, such right, title, and interest including the right to file applications and obtain patents, utility models, industrial models and designs for said invention in the name of said ASSIGNEE, its successors, assigns, and legal representatives throughout the world, including all rights of priority, all rights to publish cautionary notices reserving ownership of said invention, and all rights to register said invention in appropriate registries;

ASSIGNOR also does hereby covenant that it has the full right to convey the entire right, title, and interest herein assigned, and that it has not and will not execute any agreement in conflict herewith;

ASSIGNOR also does hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States on said invention or resulting from said application, including any continuations, continuations-in-part, divisions, reissues, re-examinations, substitutions, and extensions thereof, to said ASSIGNEE, its successors, assigns, and legal representatives as the ASSIGNEE of the entire right, title, and interest herein assigned;

ASSIGNOR also does hereby agree to, at any time, upon request, without further or additional consideration, but at the expense of said ASSIGNEE, its successors, assigns, or legal representatives, execute and deliver any and all papers, make all rightful oaths, and do all lawful acts that may be necessary or desirable to perfect the entire right, title, and interest here assigned in said ASSIGNEE, its successors, assigns, and legal representatives, and generally do everything possible to vest the entire right; title and interest herein assigned in said ASSIGNEE, its successors, assigns, and legal representatives;

ASSIGNOR also does hereby agree to, at any time, upon request, without further or additional consideration, but at the expense of said ASSIGNEE, its successors, assigns, or legal representatives, execute and deliver any and all papers, make all rightful oaths, and do all lawful acts that may be necessary or desirable to make application for and obtain any and all continuations, continuations-in-part, divisions, reissues, re-examinations, substitutions, and extensions of said application, or any application on said invention, or any patent issuing therefor or therefrom;

ASSIGNOR also does hereby agree to, at any time, upon request, without further or additional consideration but at the expense of said ASSIGNEE, its successors, assigns, and legal representatives, communicate to said ASSIGNEE, its successors, assigns, and legal representatives, any known facts relating to said invention or said application or any patent issuing therefor or therefrom, and testify as to the same in any interference or other litigation proceeding when requested to do so, and aid said ASSIGNEE, its successors, assigns, and legal representatives, in obtaining and enforcing property protection for said invention in all countries;

ASSIGNOR also does hereby grant the Legal Department of Varian Semiconductor Equipment Associates, Inc., at the address shown above, the power to insert on this assignment any further information, including, but not limited to application number(s) and filing date(s), which may be necessary or desirable in order to comply with any rule or request of the United States Patent and Trademark Office for the purposes of recording this document.

ASSIGNOR also does now hereby execute this document on the date(s) indicated below:

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 2<sup>nd</sup> day of October, 2008.

*J. D. Lischer*  
Name: JEFFREY D. LISCHER

COMMONWEALTH/STATE OF MASSACHUSETTS  
COUNTY OF ESSEX

Before me, a Notary Public did personally appear the above-named JEFFREY D. LISCHER, personally known to me and/or proved to me on the basis of satisfactory evidence to be the person who signed and sealed the foregoing instrument and acknowledged the same to be his or her own free act and deed, this 2<sup>nd</sup> day of October, 2008.

*Constance S. Ouellette*  
Notary Public

My Commission Expires  
**Constance S. Ouellette**  
Notary Public  
Commonwealth of Massachusetts  
My Commission Expires: October 10, 2014

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 2<sup>nd</sup> day of October, 2008.

*John (Bon-Woong) Koo*  
Name: JOHN (BON-WOONG) KOO

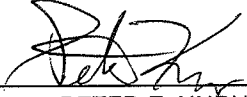
COMMONWEALTH/STATE OF MASSACHUSETTS  
COUNTY OF ESSEX

Before me, a Notary Public did personally appear the above-named JOHN (BON-WOONG) KOO, personally known to me and/or proved to me on the basis of satisfactory evidence to be the person who signed and sealed the foregoing instrument and acknowledged the same to be his or her own free act and deed, this 2<sup>nd</sup> day of October, 2008.

*Constance S. Ouellette*  
Notary Public

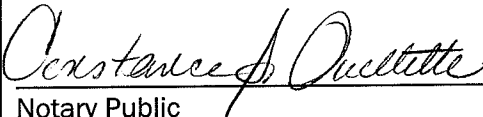
My Commission Expires  
**Constance S. Ouellette**  
Notary Public  
Commonwealth of Massachusetts  
My Commission Expires: October 10, 2014

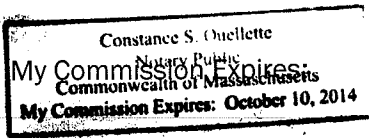
IN WITNESS WHEREOF, I have hereunto set my hand and seal this 9 day of October, 2008.

  
Name: PETER F. KURUNCZI


COMMONWEALTH/STATE OF MASSACHUSETTS  
COUNTY OF ESSEX

Before me, a Notary Public did personally appear the above-named PETER F. KURUNCZI, personally known to me and/or proved to me on the basis of satisfactory evidence to be the person who signed and sealed the foregoing instrument and acknowledged the same to be his or her own free act and deed, this 9<sup>th</sup> day of October, 2008.

  
Notary Public

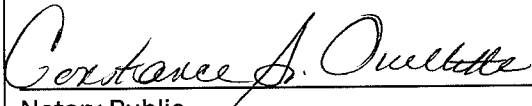


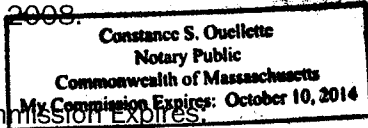
IN WITNESS WHEREOF, I have hereunto set my hand and seal this 09 day of OCTOBER, 2008.

  
Name: SHARDUL PATEL

COMMONWEALTH/STATE OF MASSACHUSETTS  
COUNTY OF ESSEX

Before me, a Notary Public did personally appear the above-named SHARDUL PATEL, personally known to me and/or proved to me on the basis of satisfactory evidence to be the person who signed and sealed the foregoing instrument and acknowledged the same to be his or her own free act and deed, this 9<sup>th</sup> day of October, 2008.

  
Notary Public



IN WITNESS WHEREOF, I have hereunto set my hand and seal this 2 day of Oct., 2008.

W. Platow  
Name: WILHELM P. PLATOW

COMMONWEALTH/STATE OF MASSACHUSETTS  
COUNTY OF ESSEX

Before me, a Notary Public did personally appear the above-named WILHELM P. PLATOW, personally known to me and/or proved to me on the basis of satisfactory evidence to be the person who signed and sealed the foregoing instrument and acknowledged the same to be his or her own free act and deed, this 2<sup>nd</sup> day of October, 2008.

Constance S. Ouellette  
Notary Public

My Commission Expires: **October 10, 2014**