

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the Assignee Name previously recorded on Reel 021237 Frame 0981. Assignor(s) hereby confirms the Varian Semiconductor Equipment Associates, Inc..

**CONVEYING PARTY DATA**

Name	Execution Date
Gordon C. ANGEL	06/09/2008
Edward D. MACINTOSH	05/21/2008
Thomas A. SCHAEFER	05/23/2008

**RECEIVING PARTY DATA**

<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

**PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	10981887

**CORRESPONDENCE DATA**

Fax Number: (978)281-6883  
*Correspondence will be sent via US Mail when the fax attempt is unsuccessful.*  
 Phone: 978-282-5813  
 Email: constance.ouellette@vsea.com  
 Correspondent Name: Scott R. Faber  
 Address Line 1: 35 Dory Road  
 Address Line 2: Varian Semiconductor Equipment Associate  
 Address Line 4: Gloucester, MASSACHUSETTS 01930

<b>ATTORNEY DOCKET NUMBER:</b>	2004-046
<b>NAME OF SUBMITTER:</b>	Scott R. Faber

CH \$40.00 10981887

**Total Attachments: 7**

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**ASSIGNMENT**

**WHEREAS**, the undersigned, to wit:

Gordon C. ANGEL  
Edward D. MacINTOSH  
Thomas A. SCHAEFER

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

**APPARATUS AND METHODS FOR TWO-DIMENSIONAL  
ION BEAM PROFILING**

(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. 10/981887, filed on November 5, 2004.

**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.

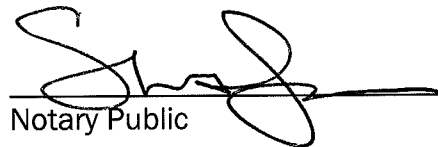
**ASSIGNOR** also does now hereby execute this document on the date(s) indicated below:

(1) IN WITNESS WHEREOF, I have hereunto set my hand and seal this 9<sup>th</sup> day of June, 2008.

  
Name: GORDON C. ANGEL

COMMONWEALTH/STATE OF MASSACHUSETTS  
COUNTY OF ESSEX

Before me, a Notary Public did personally appear the above-named **GORDON C. ANGEL**, 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 June, 2008.

  
Notary Public

My Commission Expires:

Steven A. Naylor  
Notary Public  
My Commission Expires  
January 8, 2010

(2) IN WITNESS WHEREOF, I have hereunto set my hand and seal this \_\_\_\_\_ day of \_\_\_\_\_, 2008.

\_\_\_\_\_  
Name: EDWARD D. MACINTOSH

COMMONWEALTH/STATE OF MASSACHUSETTS  
COUNTY OF ESSEX

Before me, a Notary Public did personally appear the above-named **EDWARD D. MACINTOSH**, 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 \_\_\_\_\_ day of \_\_\_\_\_, 2008.

\_\_\_\_\_  
Notary Public

My Commission Expires:

(1) IN WITNESS WHEREOF, I have hereunto set my hand and seal this \_\_\_\_ day of \_\_\_\_\_, 2008.

\_\_\_\_\_  
Name: GORDON C. ANGEL

COMMONWEALTH/STATE OF MASSACHUSETTS  
COUNTY OF ESSEX

Before me, a Notary Public did personally appear the above-named GORDON C. ANGEL, 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 \_\_\_\_ day of \_\_\_\_\_, 2008.

\_\_\_\_\_  
Notary Public My Commission Expires:

(2) IN WITNESS WHEREOF, I have hereunto set my hand and seal this 21 day of May, 2008.

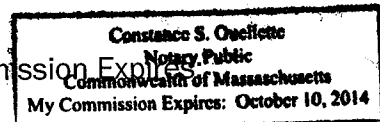
Edward D. MacIntosh  
Name: EDWARD D. MACINTOSH

COMMONWEALTH/STATE OF MASSACHUSETTS  
COUNTY OF ESSEX

Before me, a Notary Public did personally appear the above-named EDWARD D. MACINTOSH, 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 21<sup>st</sup> day of May, 2008.

Constance S. Ouellette  
Notary Public

My Commission Expires



(3) IN WITNESS WHEREOF, I have hereunto set my hand and seal this 23 day of  
MAY, 2008.

Thomas A. Schaefer  
Name: THOMAS A. SCHAEFER

COMMONWEALTH/STATE OF MASSACHUSETTS  
COUNTY OF ESSEX

Before me, a Notary Public did personally appear the above-named THOMAS A. SCHAEFER, 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 23 day of May, 2008.

Kathleen E. [Signature]  
Notary Public

My Commission Expires: Sept 6, 2013