502572730 11/18/2013

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT2618615

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
LUDOVIC GODET	11/15/2013
TIMOTHY MILLER	11/04/2013
GEORGE PAPASOULIOTIS	10/23/2013
VIKRAM SINGH	11/08/2013

RECEIVING PARTY DATA

Name:	VARIAN SEMICONDUCTOR EQUIPMENT ASSOCIATES, INC.
Street Address:	35 DORY ROAD
City:	GLOUCESTER
State/Country:	MASSACHUSETTS
Postal Code:	01930

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14055121

CORRESPONDENCE DATA

Fax Number:

978-282-5818 Phone:

Email: Scott_Faber@amat.com

Correspondence will be sent via US Mail when the email attempt is unsuccessful.

Correspondent Name: SCOTT R. FABER Address Line 1: 35 DORY ROAD

Address Line 4: GLOUCESTER, MASSACHUSETTS 01930

ATTORNEY DOCKET NUMBER:	2009-107CIPDIV
NAME OF SUBMITTER:	SCOTT R. FABER
Signature:	/SCOTT R. FABER, 48380/
	PATENT

Date:	11/18/2013	
Total Attachments: 12		
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WHEREAS, the undersigned, to wit:

Ludovic Godet Timothy Miller George Papasouliotis Vikram Singh

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

ENHANCED ETCH AND DEPOSITION PROFILE CONTROL USING PLASMA SHEATH ENGINEERING

(X on	ly 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 Appln. No. 14/055121, filed on October 16, 2013.

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

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, reexaminations, 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 15 day of NOVEMBER, 2013.
Name: LUDOVIC GODET
COMMONWEALTH/STATE OF MASSACHUSETTS COUNTY OF ESSEX
Before me, a Notary Public did personally appear the above-named Ludovic Godet 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 15 day of November 2013.
Notary Public My Commission Expires: VALERIE E. ALTMAN
Notary Public COMMONWEALTH OF MASSACHUSETT
Jaryary 11, 2019
IN WITNESS WHEREOF, I have hereunto set my hand and seal this 4th day of November, 2013.
Name: TIMOTHY MILLER
COMMONWEALTH/STATE OF MASSACHUSETTS COUNTY OF ESSEX
Before me, a Notary Public did personally appear the above-named Timothy Miller 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 Lagrangian day of Lovern 2013.
Valerie E. Oldman My Commission Expires:
Notary Public My Commission Expires:
· · · · · · · · · · · · · · · · · · ·

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WHEREAS, the undersigned, to wit:

Ludovic Godet Timothy Miller George Papasouliotis Vikram Singh

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

ENHANCED ETCH AND DEPOSITION PROFILE CONTROL USING PLASMA SHEATH ENGINEERING

(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 Appln. No. 14/055121, filed on October 16, 2013.

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

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, reexaminations, 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 15 day of NOVEMBER, 2013.
Name: LUDOVIC GODET
COMMONWEALTH/STATE OF MASSACHUSETTS COUNTY OF ESSEX
Before me, a Notary Public did personally appear the above-named Ludovic Godet 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
Notary Public My Commonwealth OF MASSACHUSE My Commission Expires:
January 11, 2019
IN WITNESS WHEREOF, I have hereunto set my hand and seal this 4th day of November, 2013.
7.1.1.
Name: TIMOTHY MILLER
COMMONWEALTH/STATE OF MASSACHUSETTS COUNTY OF ESSEX
Before me, a Notary Public did personally appear the above-named Timothy Miller 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 Limit day of November 2013.
Valerie E Oldman My Commission Expires: Notary Public
A VALERIE E. ALTMAN T
COMMONWEALTH OF MASSACHUSETTS My Commission Expires January 11 2010

WHEREAS, the undersigned, to wit:

Ludovic Godet Timothy Miller George Papasouliotis Vikram Singh

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

ENHANCED ETCH AND DEPOSITION PROFILE CONTROL USING PLASMA SHEATH ENGINEERING

(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 Appln. No. 14/055121, filed on October 16, 2013.	

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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

1

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, reexaminations, 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;

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

ATTORNEY DOCKET NO. 2009-107CIPDIV

IN WITNESS	WHEREOF, I have hereunto set my hand and seal this 25 day of october, 2013.
	Name: GEORGE PAPASOULIOTIS
COMMONWEALTH/S COUNTY OF ESSEX	STATE OF MASSACHUSETTS
known to me and/or	Notary Public did personally appear the above-named George Papsouliotis personally proved to me on the basis of satisfactory evidence to be the person who signed and instrument and acknowledged the same to be his or her own free act and deed, this
Notary Public	My Commission Expires:
L	
IN WITNESS	WHEREOF, I have hereunto set my hand and seal this day of, 2013.
	Name: VIKRAM SINGH
COMMONWEALTH/S COUNTY OF ESSEX	TATE OF MASSACHUSETTS
known to me and/or	Notary Public did personally appear the above-named Vikram Singh personally proved to me on the basis of satisfactory evidence to be the person who signed and instrument and acknowledged the same to be his or her own free act and deed, this
Notary Public	My Commission Expires:

WHEREAS, the undersigned, to wit:

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

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IN WITNESS WHEREOF, I have hereunto set my hand and seal this day of, 2013.		
Name: GEORGE PAPASOULIOTIS		
COMMONWEALTH/STATE OF MASSACHUSETTS COUNTY OF ESSEX		
Before me, a Notary Public did personally appear the above-named George Papsouliotis 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, 2013.		
My Commission Expires:		
Notary Public		
IN WITNESS WHEREOF, I have hereunto set my hand and seal this day of		
Name: VIKRAM SINGH		
COMMONWEALTH/STATE OF MASSACHUSETTS COUNTY OF ESSEX		
Before me, a Notary Public did personally appear the above-named Vikram Singh 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		
Notary Public E. Olahyan My Commission Expires:		
VALERIE E. ALTMAN		
Accommonwealth of Massachus Tis Accommonwealth of Massachus Tis And Cognoistics Express January 11, 2018		

PATENT REEL: 031621 FRAME: 0616

RECORDED: 11/18/2013