PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Peter F. Kurunczi	06/21/2003
Victor M. Benveniste	07/30/2013
Oliver V. Naumovski	06/21/2013

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:	13899767

CORRESPONDENCE DATA

Fax Number: 4122025017

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

Phone: 724-933-9338

Email: bjackson@kdfirm.com

Correspondent Name: Daniel N. Daisak

Address Line 1: 3120 Princeton Pike, Suite 303
Address Line 2: Kacvinsky Daisak PLLC

Address Line 4: Lawrenceville, NEW JERSEY 08648

Address Line 4. Lawrenceville, NEW JERSET 00040

	PATENT
Signature:	/DND39160/
NAME OF SUBMITTER:	Daniel N. Daisak, Reg. No. 39160
ATTORNEY DOCKET NUMBER:	1508V2009161B

REEL: 031039 FRAME: 0388

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Date:	08/19/2013
Total Attachments: 9 source=2009-161Assignment#page1.tif source=2009-161Assignment#page2.tif source=2009-161Assignment#page3.tif source=2009-161Assignment#page4.tif source=2009-161Assignment#page5.tif source=2009-161Assignment#page6.tif source=2009-161Assignment#page7.tif source=2009-161Assignment#page8.tif source=2009-161Assignment#page9.tif	

ASSIGNMENT

WHEREAS, the undersigned, to wit:

Peter F. Kurunczi Victor M. Benveniste Oliver V. Naumovski

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

INDUCTIVELY COUPLED PLASMA FLOOD GUN USING AN IMMERSED LOW INDUCTANCE RF COIL AND MULTICUSP MAGNETIC ARRANGEMENT

(X onl	y 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. 13/899767, filed on May 22, 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 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, 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:

2

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 2/ day of
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 scaled the foregoing instrument and acknowledged the same to be his or her own free act and deed, this <u>Diff</u> day of <u>June</u> , 2013.
Notary Public Notary Public Notary Public Notary Public Notary Public COMMONWEALTH OF MASSACHUSE My Commission Expires
January 11, 2019
IN WITNESS WHEREOF, I have hereunto set my hand and seal this day of, 2013.
Name: VICTOR M. BENVENISTE
COMMONWEALTH/STATE OF MASSACHUSETTS COUNTY OF ESSEX
Before me, a Notary Public did personally appear the above-named Victor M. Benveniste 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

ASSIGNMENT

WHEREAS, the undersigned, to wit:

Peter F. Kurunczi Victor M. Benveniste Oliver V. Naumovski

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

INDUCTIVELY COUPLED PLASMA FLOOD GUN USING AN IMMERSED LOW INDUCTANCE RF COIL AND MULTICUSP MAGNETIC ARRANGEMENT

(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. 13/899767, filed on May 22, 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 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, 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;

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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 day of, 2013.
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 day of, 2013.
My Commission Expires: Notary Public
IN WITNESS WHEREOF, I have hereunto set my hand and seal this <u>30</u> day of <u>Joly</u> , 2013.
Name: VICTOR M. BENVENISTE
COMMONWEALTH/STATE OF MASSACHUSETTS COUNTY OF ESSEX
Before me, a Notary Public did personally appear the above-named Victor M. Benveniste 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

ASSIGNMENT

WHEREAS, the undersigned, to wit:

Peter F. Kurunczi Victor M. Benveniste Oliver V. Naumovski

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INDUCTIVELY COUPLED PLASMA FLOOD GUN USING AN IMMERSED LOW INDUCTANCE RF COIL AND MULTICUSP MAGNETIC ARRANGEMENT

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(A)	which was executed concurrently herewith and is being filed herewith in the United States Patent and Trademark Office;
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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 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;

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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 21 day of
COMMONWEALTH/STATE OF MASSACHUSETTS COUNTY OF ESSEX
Before me, a Notary Public did personally appear the above-named Oliver V. Naumovski 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* day of
Jalerie E. Oldman My Commission Expires:
VALERIE E. ALTMAN Notary Public COMMONWEATH OF MASSACHUSETTS My Commission Expires January 11, 2019