504253292 03/02/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 EPAS ID: PAT4299971 Stylesheet Version v1.2

SUBMISSION TYPE: NEW ASSIGNMENT NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KEVIN ANGLIN	03/01/2017
BRANT S. BINNS	03/01/2017
JAY T. SCHEUER	03/01/2017
ERIC HERMANSON	03/01/2017
ALEXANDRE LIKHANSKII	03/01/2017
PETER F. KURUNCZI	03/02/2017

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:	15427336

CORRESPONDENCE DATA

Fax Number: (919)999-2798

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 6092704992

Email: cseaton@kdbfirm.com

KACVINSKY DAISAK BLUNI PLLC **Correspondent Name:**

101 CARNEGIE CENTER Address Line 1:

Address Line 2: SUITE 106

Address Line 4: PRINCETON, NEW JERSEY 08540

ATTORNEY DOCKET NUMBER:	024751
NAME OF SUBMITTER:	DANIEL N. DAISAK
SIGNATURE:	/DANIEL N. DAISAK/
DATE SIGNED:	03/02/2017

PATENT REEL: 041443 FRAME: 0602 504253292

Total Attachments: 10	
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PATENT REEL: 041443 FRAME: 0603

ASSIGNMENT

WHEREAS, the undersigned, to wit:

(X only one):

Kevin Anglin Brant S. Binns Peter F. Kurunczi Jay T. Scheuer Eric Hermanson Alexandre Likhanskii

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

RF CLEAN SYSTEM FOR ELECTROSTATIC ELEMENTS

(A)	which was executed concurrently herewith and is being filed herewith in the United S	tates
	Patent and Trademark Office;	
(B)	which was executed on , 20 , and is being filed herewith in the United S	tates
	Patent and Trademark Office;	
(C)	which was filed as US Patent Application No. 15/427,336, filed on February 8, 2017	

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;

Page 1 of 5

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 n 2017.	ny hand and seal this <u>l</u>	st day of	March,
	21.C		
	Name: Kevin Angli	n .	
COMMONWEALTH/STATE OF MASSACHI COUNTY OF ESSEX	JSETTS		
Before me, a Notary Public did personally known to me and/or proved to me on the basis of and sealed the foregoing instrument and acknowle this	f satisfactory evidence dged the same to be hi	e to be the p	erson who signed
Notary Public	My Commission Ex	pir D'e	VALERIE E. ALTMAN Notary Public OMMONWEAUTH OF MASSACHUSET My Commission Expires January 11, 2019
IN WITNESS WHEREOF, I have hereunto set n 2017.	BA A	Buz	
COMMONWEALTH/STATE OF MASSACHI COUNTY OF ESSEX	Name: Brant S. Bin USETTS	ins	
Before me, a Notary Public did personally known to me and/or proved to me on the basis of and sealed the foregoing instrument and acknowle this \(\sigma^{St} \) day of \(\sum_{OCL} \). 2017	of satisfactory evidence deed the same to be hi	e to be the p	person who signed
Jami E. aotman	My Commission Ex	pires:	
Notary Public		12	VALERIE E. ALTMAN
			My Commission Expires January 11, 2019

IN WITNESS WHEREOF, I have hereunto s 2017.	et my hand and seal this day of,
	Name: Peter F. Kurunczi
COMMONWEALTH/STATE OF MASSAC COUNTY OF ESSEX	CHUSETTS
personally known to me and/or proved to me of	rsonally appear the above-named Peter F. Kurunczi, on the basis of satisfactory evidence to be the person who acknowledged the same to be his or her own free act, 2017.
	My Commission Expires:
Notary Public	
IN WITNESS WHEREOF, I have hereunto s 2017.	set my hand and scal this 15 ⁺ day of Max.L., Name: Jay 7 Scheuer
COMMONWEALTH/STATE OF MASSACOUNTY OF ESSEX	
known to me and/or proved to me on the bas and sealed the foregoing instrument and acknowledge this 15+ day of Mach.	nally appear the above-named Jay T. Scheuer, personally sis of satisfactory evidence to be the person who signed swledged the same to be his or her own free act and deed, 2017.
Joseph E. actuar Notary Public	My Commission Expires: VALERIE E. ALTMAN Notary Public COMMONWEALTH OF MASSACHUSETT.
	January 11 2018

IN WITNESS WHEREOF, I have hereunto set my hand and seal this day of
Name: Eric Hermanson
COMMONWEALTH/STATE OF MASSACHUSETTS COUNTY OF ESSEX
Before me, a Notary Public did personally appear the above-named Eric Hermanson, 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, 2017.
Notary Public Notary Public My Commission Expires Notary Public Commonwealth of massachuset is My Commission Expires January 11, 2019
IN WITNESS WHEREOF, I have hereunto set my hand and seal this / day of べっとん、2017.
Name: Alexandre Likhanskii
COMMONWEALTH/STATE OF MASSACHUSETTS COUNTY OF ESSEX
Before me, a Notary Public did personally appear the above-named Alexandre Likhanskii, 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 \sum_{\omega}^{\omega} day of \sum_{\omega} \omega \colon \colon \omega_{\omega} \colon
<u> Δουίς Ε. Ochowa</u> My Commission Expires:
Notary Public
VALERIE E. ALTMAN Notary Public COMMONWEALTH OF UNSACCULUS TO
My Commission Expires January 11, 2019

ASSIGNMENT

WHEREAS, the undersigned, to wit:

(X only one):

Kevin Anglin Brant S. Binns Peter F. Kurunczi Jay T. Scheuer Eric Hermanson Alexandre Likhanskii

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

RF CLEAN SYSTEM FOR ELECTROSTATIC ELEMENTS

(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. 15/427,336, filed on February 8, 2017

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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;

Page 1 of 5

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:

Page 2 of 5

2017.	into set my hand and seal this day of,
	Name: Kevin Anglin
COMMONWEALTH/STATE OF MAS COUNTY OF ESSEX	SSACHUSETTS
known to me and/or proved to me on the	personally appear the above-named Kevin Anglin, personally e basis of satisfactory evidence to be the person who signed acknowledged the same to be his or her own free act and deed 2017.
	My Commission Expires:
Notary Public	•
	anto set my hand and seal this day of,
IN WITNESS WHEREOF, I have hereu	nnto set my hand and seal this day of, Name: Brant S. Binns
IN WITNESS WHEREOF, I have hereu	Name: Brant S. Binns
IN WITNESS WHEREOF, I have hereu 2017. COMMONWEALTH/STATE OF MAS COUNTY OF ESSEX Before me, a Notary Public did poknown to me and/or proved to me on the	Name: Brant S. Binns SSACHUSETTS ersonally appear the above-named Brant S. Binns, personally basis of satisfactory evidence to be the person who signed ocknowledged the same to be his or her own free act and deed,

Page 3 of 5

IN WITNESS WHEREOF, I have hereunto set m 2017.	y hand and seal this 2 day of MArch. Name: Peter F. Kurunczi
COMMONWEALTH/STATE OF MASSACHU COUNTY OF ESSEX	SETTS
personally known to me and/or proved to me on the	ally appear the above-named Peter F. Kurunczi, e basis of satisfactory evidence to be the person who knowledged the same to be his or her own free act, 2017.
Notary Public	My Commission CX CEST VALERIE E. ALTMAN Notary Public COMMONWEACH OF MASSACHUSETTS My Commission Expires January 11, 2019
IN WITNESS WHEREOF, I have hereunto set m 2017.	y hand and seal this day of,
	Name: Jay T. Scheuer
COMMONWEALTH/STATE OF MASSACHU COUNTY OF ESSEX	SETTS
known to me and/or proved to me on the basis of	appear the above-named Jay T. Scheuer, personally satisfactory evidence to be the person who signed ged the same to be his or her own free act and deed,
Notary Public	My Commission Expires:

2017.	eunto set my hand and seal this day of,
	Name: Eric Hermanson
COMMONWEALTH/STATE OF M/ COUNTY OF ESSEX	ASSACHUSETTS
known to me and/or proved to me on t	personally appear the above-named Eric Hermanson, personall he basis of satisfactory evidence to be the person who signed acknowledged the same to be his or her own free act and deed, 2017.
Notary Public	My Commission Expires:
IN WITNESS WHEREOF, I have here 2017.	eunto set my hand and seal this day of
IN WITNESS WHEREOF, I have here 2017.	eunto set my hand and seal this day of Name: Alexandre Likhanskii
IN WITNESS WHEREOF, I have here 2017. COMMONWEALTH/STATE OF M/COUNTY OF ESSEX	Name: Alexandre Likhanskii
2017. COMMONWEALTH/STATE OF M/ COUNTY OF ESSEX Before me, a Notary Public did personally known to me and/or proved to	Name: Alexandre Likhanskii ASSACHUSETTS d personally appear the above-named Alexandre Likhanski o me on the basis of satisfactory evidence to be the person when and acknowledged the same to be his or her own free ac

Page 5 of 5

PATENT REEL: 041443 FRAME: 0613