504457188 07/14/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4503889

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MORGAN D. EVANS	06/19/2017
SIMON RUFFELL	06/20/2017
TRISTAN Y. MA	06/19/2017
KEVIN ANGLIN	07/13/2017

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:	15605869

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: 978-282-2000

Email: bjackson@kdbfirm.com

Correspondent Name: VARIAN SEMICONDUCTOR EQUIPMENT ASSOCIATE

Address Line 1: 35 DORY ROAD

Address Line 4: GLOUCESTER, MASSACHUSETTS 01930-2297

ATTORNEY DOCKET NUMBER:	024901
NAME OF SUBMITTER:	BARBARA J. JACKSON
SIGNATURE:	/BarbaraJjackson/
DATE SIGNED:	07/14/2017

Total Attachments: 16

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PATENT 504457188 REEL: 043006 FRAME: 0488

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Morgan D. Evans Simon Ruffell Tristan Y. Ma Kevin Anglin

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

THREE DIMENSIONAL STRUCTURE FABRICATION CONTROL USING NOVEL PROCESSING SYSTEM

(A Of	ny 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. 15/605.869, filed on May 25, 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;

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;

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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 / 9 day of ユルルー. 2017.
200 Z
Name: Morgan D. Evans
COMMONWEALTH/STATE OF MASSACHUSETTS COUNTY OF ESSEX
Before me, a Notary Public did personally appear the above-named Morgan D. Evans, 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 19 day of, 2017.
Notary Public My Commission Expression Expr
Notary Public Notary Public My Commission Extra VALERIE E. ALTMAN My Commission Extress January 11, 2018
IN WITNESS WHEREOF, I have hereunto set my hand and seal this day of, 2017.
Name: Simon Ruffell
COMMONWEALTH/STATE OF MASSACHUSETTS COUNTY OF ESSEX
Before me, a Notary Public did personally appear the above-named Simon Ruffell, 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, 2017.
My Commission Expires: Notary Public

2017.	
	Name: Tristan Y. MA
COMMONWEALTH COUNTY OF ESSEX	I/STATE OF MASSACHUSETTS
known to me and/or p and scaled the foregoir	otary Public did personally appear the above-named Tristan Y. MA, personally roved to me on the basis of satisfactory evidence to be the person who signering instrument and acknowledged the same to be his or her own free act and deed, 2017.
	My Commission Expires:
Notary Public	
IN WITNESS WHER 2017.	EOF, I have hereunto set my hand and seal this day of,
	EOF, I have hereunto set my hand and seal this day of, Name: Kevin Anglin
2017.	Name: Kevin Anglin //STATE OF MASSACHUSETTS
2017. COMMONWEALTE COUNTY OF ESSEX Before me, a N known to me and/or p and sealed the foregoin	Name: Kevin Anglin //STATE OF MASSACHUSETTS
COMMONWEALTH COUNTY OF ESSEX Before me, a N known to me and/or p and sealed the foregoin this day of	Name: Kevin Anglin /STATE OF MASSACHUSETTS otary Public did personally appear the above-named Kevin Anglin, personally roved to me on the basis of satisfactory evidence to be the person who signed g instrument and acknowledged the same to be his or her own free act and deed

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Morgan D. Evans Simon Ruffell Tristan Y. Ma Kevin Anglin

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

THREE DIMENSIONAL STRUCTURE FABRICATION CONTROL USING NOVEL PROCESSING SYSTEM

(v m	iy one).								
(A)	which was executed concurrently	herewith	and is	being	filed	herewith i	n the	United	States
	Patent and Trademark Office;								
(B)	which was executed on	, 20 ,	and is	being	filed	herewith i	n the	United	States
	Patent and Trademark Office;			~					
(C)	which was filed as US Patent App	lication N	lo. 15/	605.86	9. fil	ed on Mav	25. 2	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;

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;

ğ

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;

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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:

2

IN WITNESS WHEREOF, I have hereunto set my hand and seal this day of, 2017.
Name: Morgan D. Evans
COMMONWEALTH/STATE OF MASSACHUSETTS COUNTY OF ESSEX
Before me, a Notary Public did personally appear the above-named Morgan D. Evans, 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, 2017.
My Commission Expires:
Notary Public
IN WITNESS WHEREOF, I have hereunto set my hand and seal this <u>20</u> day of <u>JUNE</u> , 2017.
S.M. Name: Simon Ruffell H
Name: Simon Ruffell 4
COMMONWEALTH/STATE OF MASSACHUSETTS COUNTY OF ESSEX
Before me, a Notary Public did personally appear the above-named Simon Ruffell, 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 20 ⁿ day of, 2017.
Notary Public Notary

34.

IN WITNESS WHEREOI 2017.	f, I have hereunto set my hand and seal this day of,
	Name: Tristan Y. MA
COMMONWEALTH/ST/ COUNTY OF ESSEX	NTE OF MASSACHUSETTS
known to me and/or proved	Public did personally appear the above-named Tristan Y. MA, personally I to me on the basis of satisfactory evidence to be the person who signed trument and acknowledged the same to be his or her own free act and deed,, 2017.
	My Commission Expires:
Notary Public	A
IN WITNESS WHEREOF 2017.	, I have hereunto set my hand and seal this day of Name: Kevin Anglin
2017.	
COMMONWEALTH/ST/COUNTY OF ESSEX Before me, a Notary known to me and/or proved	Name: Kevin Anglin TE OF MASSACHUSETTS Public did personally appear the above-named Kevin Anglin, personally to me on the basis of satisfactory evidence to be the person who signed trument and acknowledged the same to be his or her own free act and deed,
COMMONWEALTH/ST/COUNTY OF ESSEX Before me, a Notary known to me and/or proved and sealed the foregoing insthisday of	Name: Kevin Anglin TE OF MASSACHUSETTS Public did personally appear the above-named Kevin Anglin, personally to me on the basis of satisfactory evidence to be the person who signed trument and acknowledged the same to be his or her own free act and deed,

Morgan D. Evans Simon Ruffell Tristan Y. Ma Kevin Anglin

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

THREE DIMENSIONAL STRUCTURE FABRICATION CONTROL USING NOVEL PROCESSING SYSTEM

(X or	ily one):
(A)	which was executed concurrently herewith and is being filed herewith in the United States
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(B)	which was executed on, 20, and is being filed herewith in the United States
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(C)	which was filed as US Patent Application No. 15/605.869, filed on May 25, 2017

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pear the above-named Morgan D. Evans, of satisfactory evidence to be the person who dged the same to be his or her own free act 17.
of satisfactory evidence to be the person who dged the same to be his or her own free act 17.
ommission Expires:
and seal thisday of,
<u></u>
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the above-named Simon Ruffell, personally ctory evidence to be the person who signed same to be his or her own free act and deed.
ommission Expires:
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IN WITNESS WHEREOF, I have hereunto set my hand and seal this 1944 day of June 2017.
Name: Tristan Y. MA
COMMONWEALTH/STATE OF MASSACHUSETTS COUNTY OF ESSEX
Before me, a Notary Public did personally appear the above-named Tristan Y. MA, 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 19th day of, 2017.
Notary Public My Commission Exp VALERIE E. ALTIMA Notary Public Notary Public My Commission Exp My Commission Exp January 11, 2018
IN WITNESS WHEREOF, I have hereunto set my hand and seal this day of, 2017.
Name: Kevin Anglin
COMMONWEALTH/STATE OF MASSACHUSETTS COUNTY OF ESSEX
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My Commission Expires: Notary Public
remaining a decrease

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

3

	nave hereunto set my hand and seal this day of,
	Name: Morgan D. Evans
COMMONWEALTH/STATE COUNTY OF ESSEX	OF MASSACHUSETTS
personally known to me and/or	Public did personally appear the above-named Morgan D. Evans, proved to me on the basis of satisfactory evidence to be the person who instrument and acknowledged the same to be his or her own free act
	My Commission Expires:
Notary Public	
IN WITNESS WHEREOF, I h 2017.	nave hereunto set my hand and seal this day of,
	nave hereunto set my hand and seal this day of, Name: Simon Ruffell
	Name: Simon Ruffell
COMMONWEALTH/STATE COUNTY OF ESSEX Before me, a Notary Pul known to me and/or proved to	Name: Simon Ruffell OF MASSACHUSETTS blic did personally appear the above-named Simon Ruffell, personally me on the basis of satisfactory evidence to be the person who signed nent and acknowledged the same to be his or her own free act and deed,
COMMONWEALTH/STATE COUNTY OF ESSEX Before me, a Notary Pul known to me and/or proved to and sealed the foregoing instrum thisday of	Name: Simon Ruffell OF MASSACHUSETTS blic did personally appear the above-named Simon Ruffell, personally me on the basis of satisfactory evidence to be the person who signed nent and acknowledged the same to be his or her own free act and deed,

IN WITNESS WHEREOF, I have hereunto set my hand and seal this day of, 2017.
Name: Tristan Y. MA
COMMONWEALTH/STATE OF MASSACHUSETTS COUNTY OF ESSEX
Before me, a Notary Public did personally appear the above-named Tristan Y. MA, 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, 2017.
My Commission Expires: Notary Public
IN WITNESS WHEREOF, I have hereunto set my hand and seal this <u>134</u> day of <u>プロイ</u> y 2017.
240 <u>4</u>
Name: Kevin Anglin
COMMONWEALTH/STATE OF MASSACHUSETTS COUNTY OF ESSEX
Before me, a Notary Public did personally appear the above-named Kevin Anglin, 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 \(\frac{13^n}{2}\) day of \(\frac{10\qq}{2}\), 2017.
Jalei E Define My Commission Similification Notary Public VALERIE E ALTMAN Notary Public My Commonwealth of MASSACHUSETTAL
2870.35 11. 2019