504195900 01/25/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4242576

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CONNIE P. WANG	12/05/2013
PAUL MURPHY	12/03/2013
PAUL SULLIVAN	12/03/2013
SUKTI CHATTERJEE	12/05/2013

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:	15415071

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

Correspondent Name: KACVINSKY DAISAK BLUNI PLLC

Address Line 1: 101 CARNEGIE CENTER

Address Line 2: SUITE 106

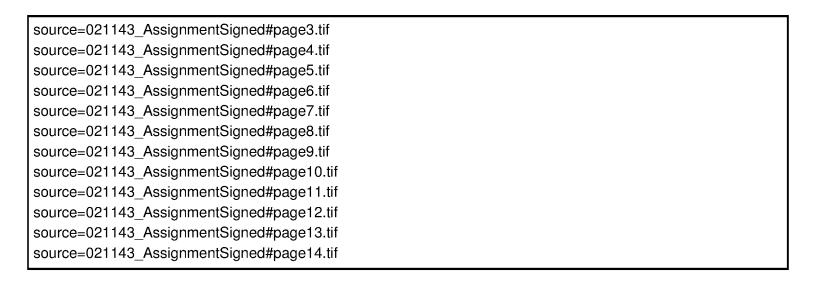
Address Line 4: PRINCETON, NEW JERSEY 08540

ATTORNEY DOCKET NUMBER: 021143USAC01	
NAME OF SUBMITTER:	DANIEL N. DAISAK
SIGNATURE:	/DANIEL N. DAISAK/
DATE SIGNED:	01/25/2017

Total Attachments: 14

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PATENT 504195900 REEL: 041081 FRAME: 0449



WHEREAS, the undersigned, to wit:

Connie P. Wang Paul Murphy Paul Sullivan Sukti Chatterjee

/V anti-nant

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

LASER PROCESSING OF SUPERCONDUCTOR LAYERS

(\(\neg \) \(\text{O}\)	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 Application No. 14/092296 , filed on
	November 27, 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;

1

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 day of2013.
Name: Connie P. WANG
STATE OF COUNTY OF
Before me, a Notary Public did personally appear the above-named Connie P. WANG, 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
My Commission Expires VALERIE E. ALTMAN Notary Public Notary Public Notary Public
My Commission Expressing January 11, 2019
IN WITNESS WHEREOF, I have hereunto set my hand and seal this 3 day of 1202 2013. Name: Paul MURPHY
COMMONWEALTH/STATE OF MASSACHUSETTS COUNTY OF ESSEX
Before me, a Notary Public did personally appear the above-named Paul MURPHY, 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.
Notary Public My Commission Expires:
VALERIE E. ALTMAN Notary Pocitic Commonwealth of Massachusetts My Commission Expires January 11, 2019

WHEREAS, the undersigned, to wit:

Connie P. Wang Paul Murphy Paul Sullivan Sukti Chatterjee

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

LASER PROCESSING OF SUPERCONDUCTOR LAYERS

(X on	ily one):
(A)	which was executed concurrently herewith and is being filed herewith in the United
(B)	States Patent and Trademark Office; 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. <u>14/092296</u> , filed on
	November 27, 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 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;

1

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

IN WITHESS WHEREOF, I have hereunto set h	ny hand and seal this day of2013.
Name	: Connie P. WANG
STATE OF COUNTY OF	
known to me and/or proved to me on the bas	nally appear the above-named Connie P. WANG, personally is of satisfactory evidence to be the person who signed and edged the same to be his or her own free act and deed, this
Delie E. aldme Notary Public	My Commission Expires VALERIE E. ALTMA
votary Public	Spy (Commonwealth OF MASSACH by Commission Expres January 11, 2019
N WITNESS WHEREOF, I have hereunto set n	ny hand and seal this <u>S</u> day of <u>RCaubel</u> 2013. Paul MURPHY
COMMONWEALTH/STATE OF MASSACHUSETT COUNTY OF ESSEX	TS TO THE TOTAL
known to me and/or proved to me on the bas	ally appear the above-named Paul MURPHY, personally is of satisfactory evidence to be the person who signed and edged the same to be his or her own free act and deed, this
Volence E Offman Notary Public	My Commission Expires:

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Connie P. Wang Paul Murphy Paul Sullivan Sukti Chatterjee

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STATE OF COUNTY OF	
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My Commission Expires:	
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Name: Paul MURPHY	
COMMONWEALTH/STATE OF MASSACHUSETTS COUNTY OF ESSEX	
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My Commission Expires: Notary Public	

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 3° day of Dec., 2013.	
the factor of th	
Name: Path SULLIVAN	
COMMONWEALTH/STATE OF MASSACHUSETTS COUNTY OF ESSEX	
Before me, a Notary Public did personally appear the above-named Paul SULLIVAN, 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	
Delevi E. Oldona My Commission Expires: 6102 11 Avenuer	
VALERIE E. A MANAGEMENT TO HITTE SANDERHOOD (A)	
COMPONENTH OF WASHINGTON AS 3 BIRBLAY A 1	
January 11, 2019	
IN WITNESS WHEREOF, I have hereunto set my hand and seal this day of, 2013.	
Name: Sukti CHATTERJEE	
STATE OF COUNTY OF	
Before me, a Notary Public did personally appear the above-named Sukti CHATTERJEE, 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:	
Notani Public	

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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, 2013.					
WITHESS WILKEST, I have negeting hand and sear this day or					
Name: Connie P. WANG					
STATE OF COUNTY OF					
Before me, a Notary Public did personally appear the above-named Connie P. WANG, 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, 2013.					
Name: Paul MURPHY					
COMMONWEALTH/STATE OF MASSACHUSETTS COUNTY OF ESSEX					
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My Commission Expires: Notary Public					

IN WITNESS WHEREOF, I have hereunto se	t my hand and seal this	day of	, 2013.			
Name: Paul SULLIVAN						
COMMONWEALTH/STATE OF MASSACHUS COUNTY OF ESSEX	ETTS					
Before me, a Notary Public did pers known to me and/or proved to me on the b sealed the foregoing instrument and ackno day of, 20	easis of satisfactory evidence wiedged the same to be his	e to be the perso	on who signed and			
My Commission Expires: Notary Public						
IN WITNESS WHEREOF, I have hereunto set my hand and seal this <u>5</u> day of <u>Decomber</u> , 2013. Sukh Challeriee Name: Sukti CHATTERJEE						
Nan	ne: Sukti CHATTERJEE \					
STATE OF COUNTY OF						
Before me, a Notary Public did pers known to me and/or proved to me on the b sealed the foregoing instrument and ackno day of, 202	asis of satisfactory evidence wiedged the same to be his	e to be the perso	on who signed and			
	My Commission	ı Expires:	: :			
Notary Public						

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