503138290 01/15/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3184901

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
THORSTEN LILL	01/05/2015
IVAN L. BERRY III	12/12/2014
MEIHUA SHEN	12/12/2014
ALAN M. SCHOEPP	12/12/2014
DAVID J. HEMKER	12/12/2014

RECEIVING PARTY DATA

Name:	LAM RESEARCH CORPORATION
Street Address:	4650 CUSHING PARKWAY
City:	FREMONT
State/Country:	CALIFORNIA
Postal Code:	94538

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14589610

CORRESPONDENCE DATA

Fax Number:

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.

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ATTORNEY DOCKET NUMBER:	LAMRP152US
NAME OF SUBMITTER:	ALEXA ROMERO
SIGNATURE:	/Alexa Romero/
DATE SIGNED:	01/15/2015

Total Attachments: 5

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PATENT 503138290 REEL: 034729 FRAME: 0092

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> PATENT REEL: 034729 FRAME: 0093

ASSIGNMENT OF PATENT APPLICATION

Whereas I, an undersigned named inventor, possess the right, title and interest for and in the Invention(s) as set forth in the patent application entitled **ISOTROPIC ATOMIC LAYER ETCH FOR SILICON AND GERMANIUM OXIDES** (Atty. Docket No. LAMRP152US/3499-1US), and

(1) for which I have executed a U.S. patent application;			
AND/OR			
(2) the same having been filed on () as Application No. ();			
OR			
(3) which is a U.S. Provisional Patent Application filed on (14/589,610) as Application No. (January 5, 2015);			
in connection with which I hereby authorize and request the assignee's attorneys associated with Customer Number 83422 to insert within the foregoing parentheses the filing date and/or Application No. of said application when known.			
NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, an undersigned named inventor, hereby:			
1) Sell, assign and transfer to Lam Research Corporation , a Delaware corporation having a place of business at <u>4650 Cushing Parkway</u> , Fremont, CA <u>94538</u> ("ASSIGNEE"), the entire right, title and interest in the above-referenced application including any and all improvements and inventions disclosed therein, and in applications based upon, and patents (including foreign patents and the right to claim priority) granted upon, the above-referenced application.			
2) Authorize and request the Commissioner of Patents to issue any and all Letters Patents resulting from said application or any division, continuation, substitute, renewal, re-examination or reissue thereof to the ASSIGNEE.			
3) Agree to execute all papers and documents and, entirely at the ASSIGNEE's expense, perform any acts which are reasonably necessary in connection with the prosecution of said application, as well as any derivative applications thereof, foreign applications based thereon, and/or the enforcement of patents resulting from such applications.			
4) Agree that the terms, covenants and conditions of this assignment shall inure to the benefit of the ASSIGNEE, its successors, assigns and other legal representative, and shall be binding upon the named inventor, as well as the named inventor's heirs, legal representatives and assigns.			

Assign US or Foreign Patent Application (No Notary)

Page 1 of 2

5) Warrant and represent that I have not entered, and will not enter into any assignment, contract, or understanding that conflicts with this assignment.

Signed on the date indicated beside my signature.

1)	Signature: Typed Name:	Thorsten Lill	Date:	1/5/2015
2)	Signature: Typed Name:	Iyan L. Berry III	Date:	
3)	Signature: Typed Name:	Meiliua Shen	Date:	
4)	Signature: Typed Name:	Akın M. Schoepp	Date:	
5)	Signature: Typed Name:	David J. Hemker	Date:	

Page 2 of 2

5) Warrant and represent that I have not entered, and will not enter into any assignment, contract, or understanding that conflicts with this assignment.

Signed on the date indicated beside my signature.

1)	Signature: Typed Name:	Thorsten Lill	Date:	
2)	Signature: Typed Name:	Ivan L. Berry III	Date:	12-Dec-14
3)	Signature: Typed Name:	Meihua Shen	Date:	
4)	Signature: Typed Name:	Alan M. Schoepp	Date:	
5)	Signature:	David I Hemker	Date:	

understanding that conflicts with this assignment.

David J. Hemker

5)

5)

Signature:

Typed Name:

Signed on the date indicated beside my signature. Signature: 1) Date: Typed Name: Thorsten Lill Signature: 2) Typed Name: Ivan L. Berry III Signature: 3) Typed Name: Meihua Shen Signature: 4) Date: Typed Name: Alan M. Schoepp

Warrant and represent that I have not entered, and will not enter into any assignment, contract, or

Date:

	Signed on the	e date indicated beside my signature.		
1)	Signature: Typed Name:	Thorsten Lill	Date:	
2)	Signature: Typed Name:	Ivan L. Berry III	Date:	
3)	Signature: Typed Name:	Meihua Shen	Date:	
4)	Signature: Typed Name:	Alan M. Schoepp	Date:	12/12/2014
5)	Signature: Typed Name:	David J. Heyner	Date:	December 12, 2014

5) Warrant and represent that I have not entered, and will not enter into any assignment, contract, or understanding that conflicts with this assignment.

RECORDED: 01/15/2015