### 503510216 10/05/2015

# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
CHIUKIN STEVEN LAI	09/02/2015
KEREN JACOBS KANARIK	09/03/2015
SAMANTHA TAN	09/02/2015
ANAND CHANDRASHEKAR	09/02/2015
TEH-TIEN SU	09/17/2015
WENBING YANG	09/02/2015
MICHAL DANEK	09/02/2015

#### **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:	14830683

#### **CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER:	LAMRP203/3685-2US
NAME OF SUBMITTER:	PATRICIA TSAI
SIGNATURE:	/Patricia Tsai/
DATE SIGNED:	10/05/2015

PATENT 503510216 REEL: 036731 FRAME: 0266

## **Total Attachments: 4**

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PATENT REEL: 036731 FRAME: 0267

#### 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 ATOMIC LAYER ETCHING OF TUNGSTEN FOR ENHANCED TUNGSTEN DEPOSITION FILL (Atty. Docket No. LAMRP203/3685-2US), and

LAMRP203/3685-2US), and
(1) for which I have executed a U.S. patent application;
AND/OR
(2) the same having been filed on (August 19, 2015) as Application No. (14/830,683);
OR
(3) which is a U.S. Provisional Patent Application filed on () as Application No. ();

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 4650 Cushing Parkway, Fremont, CA 94538 ("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	e date indicated beside my signature.		
1)	Signature:	<u> </u>	Date:	9-2-2018
	Typed Name:	Chiukin Steven Lai		
2)	Signature:		Date:	
	Typed Name:	Keren Jacobs Kanarik		
3)	Signature:		Date:	
	Typed Name:	Samantha Tan		
4)	Signature:	<u> </u>	Date:	19/02/15
	Typed Name:	Anand Chandrashekar	_	
5)	Signature:		Date:	
	Typed Name:	Teh-tien Su		
6)	Signature:		Date:	
	Typed Name:	Wenbing Yang		
7)	Signature:		Date:	
	Typed Name:	Michael Wood		
8)	Signature:		Date:	Fill of the second
~2	Typed Name	Michal Danek	winds.	anna anna anna anna anna anna anna ann

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- 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.

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Page 1 of 2

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Signed on the date indicated beside my signature.

1)	Signature:		_ Date:	
	Typed Name:	Chiukin Steven Lai		
2)	Signature:		_ Date:	9/3/2015
	Typed Name:	Keren Jacobs Kanarik		
3)	Signature:	Saniantha Tan	_ Date:	9/2/2015
	Typed Name:	Samantha Tan		
4)	Signature:		Date:	
,	Typed Name:	Anand Chandrashekar		
5)	Signature:	Statt	Date:	9/17/2015
ŕ	Typed Name:	Teh-tien Su		
6)	Signature:	yns wy	_ Date:	9/2/2015
	Typed Name:	Wenbing Yang		
7)	Signature:		Date:	
,	Typed Name:	Michael Wood	_	
8)	Signature:		_ Date:	
,	Typed Name:	Michal Danek		

Assign US or Foreign Patent Application (No Notary)

**RECORDED: 10/05/2015** 

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