

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5193429

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
WENBING YANG	10/01/2018
SAMANTHA TAN	10/01/2018
TAMAL MUKHERJEE	10/02/2018
KEREN JACOBS KANARIK	10/01/2018
YANG PAN	10/01/2018
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State/Country:	CALIFORNIA
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16148939
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ATTORNEY DOCKET NUMBER:	LAMRP366/4369-3US
NAME OF SUBMITTER:	SARAH ARMSTRONG
SIGNATURE:	/Sarah Armstrong/
DATE SIGNED:	10/17/2018
Total Attachments: 2	
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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 **HIGH ENERGY ATOMIC LAYER ETCHING** (Atty. Docket No. LAMRP366/4369-3US), and

(1) for which I have executed a U.S. patent application;

AND/OR

(2) the same having been filed on (October 1, 2018) as Application No. (16/148,939);

OR

(3) which is a U.S. Provisional Patent Application filed on (_____) as Application No. (_____);

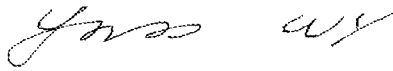
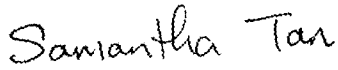
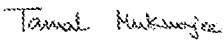
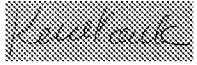

in connection with which I hereby authorize and request the assignee's attorneys associated with Customer Number 83422 to insert within the foregoing parentheses the filing date and/or Application No. of said application when known.

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, including the right to claim priority, in the above-referenced application including any and all improvements and inventions disclosed therein, and in U.S. and foreign applications based upon, and U.S. and foreign patents 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.

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:  Date: 10/1/2018
Typed Name: Wenbing Yang
- 2) Signature:  Date: 10/1/2018
Typed Name: Samantha Tan
- 3) Signature:  Date: 10/2/2018
Typed Name: Tamal Mukherjee
- 4) Signature:  Date: 10/1/2018
Typed Name: Keren Jacobs Kanarik
- 5) Signature:  Date: 10/1/2018
Typed Name: Yang Pan