

PATENT ASSIGNMENT

Electronic Version v1.1
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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| Amit Jain | 10/03/2011 |
| Qian Fu | 10/03/2011 |
| Wonchul Lee | 10/03/2011 |
| 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: | 13252813 |
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| ATTORNEY DOCKET NUMBER: | LAM1P317/P2269 |
| NAME OF SUBMITTER: | Michael Lee |
| Total Attachments: 2 source=LAM1P317_Assginment#page1.tif source=LAM1P317_Assginment#page2.tif | |

CH \$40.00 13252813

ASSIGNMENT OF PATENT APPLICATION

Whereas I, an undersigned inventor, have invented certain new and useful improvements as set forth in the patent application entitled:

ETCH WITH PULSED BIAS

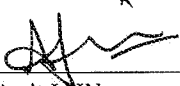

(Atty. Docket No. LAM1P317/P2269), (check one)

- for which I have executed a U.S. patent application on even date herewith. (Accompanying)
 which bears U.S. application No. 13/252,813. (Not accompanying)
 which is a U.S. provisional application. (Accompanying)

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, an undersigned 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 any and all improvements and inventions disclosed in, applications based upon, and patents granted upon (including foreign patents and the right to claim priority), the above-referenced application.
- 2) Authorize and request the Commissioner of Patents to issue any and all United States 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 representatives, and shall be binding upon the inventor, as well as the 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.
- 6) Authorize and request my attorney/agent to insert above the application No. in order to assist with recordal of this assignment.

Signed on the date indicated beside my signature.

- 1) Signature:  Date: 10/03/2011
Typed Name: Amit JAIN
- 2) Signature:  Date: 10/03/2011
Typed Name: Qian FU

3) Signature: Lee Wonchul Date: 10/3/2011
Typed Name: Wonchul LEE

If signed outside the United States of America, have two witnesses who also sign below:

1) Signature: _____ Date: _____
Printed Name: _____

2) Signature: _____ Date: _____
Printed Name: _____