

PATENT ASSIGNMENT

Electronic Version v1.1  
Stylesheet Version v1.1

| SUBMISSION TYPE:                                                                                                                                                                                                                                                                       | NEW ASSIGNMENT           |               |                          |                     |                      |                            |            |                |            |              |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------|--------------------------|---------------------|----------------------|----------------------------|------------|----------------|------------|--------------|-------|
| NATURE OF CONVEYANCE:                                                                                                                                                                                                                                                                  | ASSIGNMENT               |               |                          |                     |                      |                            |            |                |            |              |       |
| CONVEYING PARTY DATA                                                                                                                                                                                                                                                                   |                          |               |                          |                     |                      |                            |            |                |            |              |       |
| <table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Matt Rodnick</td><td>12/17/2008</td></tr><tr><td>Christine Allen-Blanchette</td><td>12/18/2008</td></tr></tbody></table>                                                                  |                          | Name          | Execution Date           | Matt Rodnick        | 12/17/2008           | Christine Allen-Blanchette | 12/18/2008 |                |            |              |       |
| Name                                                                                                                                                                                                                                                                                   | Execution Date           |               |                          |                     |                      |                            |            |                |            |              |       |
| Matt Rodnick                                                                                                                                                                                                                                                                           | 12/17/2008               |               |                          |                     |                      |                            |            |                |            |              |       |
| Christine Allen-Blanchette                                                                                                                                                                                                                                                             | 12/18/2008               |               |                          |                     |                      |                            |            |                |            |              |       |
| RECEIVING PARTY DATA                                                                                                                                                                                                                                                                   |                          |               |                          |                     |                      |                            |            |                |            |              |       |
| <table border="1"><tr><td>Name:</td><td>LAM Research Corporation</td></tr><tr><td>Street Address:</td><td>4650 Cushing Parkway</td></tr><tr><td>City:</td><td>Fremont</td></tr><tr><td>State/Country:</td><td>CALIFORNIA</td></tr><tr><td>Postal Code:</td><td>94538</td></tr></table> |                          | Name:         | LAM Research Corporation | Street Address:     | 4650 Cushing Parkway | City:                      | Fremont    | State/Country: | CALIFORNIA | Postal Code: | 94538 |
| Name:                                                                                                                                                                                                                                                                                  | LAM Research Corporation |               |                          |                     |                      |                            |            |                |            |              |       |
| Street Address:                                                                                                                                                                                                                                                                        | 4650 Cushing Parkway     |               |                          |                     |                      |                            |            |                |            |              |       |
| City:                                                                                                                                                                                                                                                                                  | Fremont                  |               |                          |                     |                      |                            |            |                |            |              |       |
| State/Country:                                                                                                                                                                                                                                                                         | CALIFORNIA               |               |                          |                     |                      |                            |            |                |            |              |       |
| Postal Code:                                                                                                                                                                                                                                                                           | 94538                    |               |                          |                     |                      |                            |            |                |            |              |       |
| PROPERTY NUMBERS Total: 1                                                                                                                                                                                                                                                              |                          |               |                          |                     |                      |                            |            |                |            |              |       |
| <table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>12810780</td></tr></tbody></table>                                                                                                                           |                          | Property Type | Number                   | Application Number: | 12810780             |                            |            |                |            |              |       |
| Property Type                                                                                                                                                                                                                                                                          | Number                   |               |                          |                     |                      |                            |            |                |            |              |       |
| Application Number:                                                                                                                                                                                                                                                                    | 12810780                 |               |                          |                     |                      |                            |            |                |            |              |       |
| CORRESPONDENCE DATA                                                                                                                                                                                                                                                                    |                          |               |                          |                     |                      |                            |            |                |            |              |       |
| Fax Number: (408)213-9541<br><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>                                                                                                                                                                      |                          |               |                          |                     |                      |                            |            |                |            |              |       |
| Phone: 4082139540                                                                                                                                                                                                                                                                      |                          |               |                          |                     |                      |                            |            |                |            |              |       |
| Email: amanda@ipsglaw.com                                                                                                                                                                                                                                                              |                          |               |                          |                     |                      |                            |            |                |            |              |       |
| Correspondent Name: IP Strategy Group, P.C.                                                                                                                                                                                                                                            |                          |               |                          |                     |                      |                            |            |                |            |              |       |
| Address Line 1: P.O. Box 700640                                                                                                                                                                                                                                                        |                          |               |                          |                     |                      |                            |            |                |            |              |       |
| Address Line 4: San Jose, CALIFORNIA 95170                                                                                                                                                                                                                                             |                          |               |                          |                     |                      |                            |            |                |            |              |       |
| ATTORNEY DOCKET NUMBER:                                                                                                                                                                                                                                                                | P1749/LMRX-P145          |               |                          |                     |                      |                            |            |                |            |              |       |
| NAME OF SUBMITTER:                                                                                                                                                                                                                                                                     | Joseph A. Nguyen         |               |                          |                     |                      |                            |            |                |            |              |       |
| Total Attachments: 1<br>source=LMRX-P145AA-US-20110603-TP-SGND_ASSGNMT_AS_FLD_P1749#page1.tif                                                                                                                                                                                          |                          |               |                          |                     |                      |                            |            |                |            |              |       |

OP \$40.00 12810780

501554476

PATENT  
REEL: 026389 FRAME: 0355

IP Strategy Group, P.C.  
P.O. Box 700640  
San Jose, CA 95170-0640

ATTORNEY DOCKET NO. P1749/LMRX-P145**ASSIGNMENT OF PATENT APPLICATION**

I/We, the undersigned (each) have agreed and hereby agree to assign to

**Lam Research Corporation , a Delaware corporation, doing  
business at 4650 Cushing Parkway, Fremont, CA, 94538**

in futherance of my/our obligations to the assignee and its subsidiaries and affiliates, and do hereby assign and transfer to the assignee, its successors and assigns, the entire right, title and interest, including the right of priority, in, to and under an application for Letter Patents of the United States entitled:

**SYSTEMS AND METHODS FOR CALIBRATING END EFFECTOR ALIGNMENT USING AT LEAST A LIGHT SOURCE**Filing date: 6/25/2010Application No.: 12/810,780

and the invention(s) and improvement(s) set forth therein, and any and all continuations, continuations-in-part (C-I-P's), divisionals, and renewals of and substitutes for said application for said Letters Patent, and any and all Letter Patents of the United States and of countries foreign thereto which may be granted thereon or therefor; and any reissues, or reexaminations, or extensions of said Letters Patent.

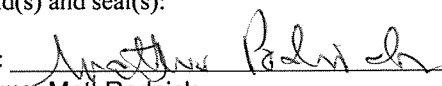
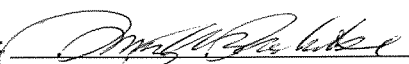
I/we additionally authorize the Assignee to file applications in my/our name for Letters Patent in any country, to be held and enjoyed by the Assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by me/us had this assignment, and transfer not been made;

AND I/we hereby covenant that I/we have full right to convey the entire interest herein assigned, and that I/we have not executed and will not execute any agreement in conflict herewith, and I/we further covenant and agree that I/we will, each time a request is made, and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said invention(s) or improvement(s), said application and said Letters Patent, to the Assignee, its successors, assigns, nominees or legal representatives, and I/we agree to communicate to the Assignee, or to its nominee, all known facts respecting said invention(s) or improvement(s), said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisionals, continuations, C-I-P's, reissue and foreign applications, to make all rightful oaths and declarations, and generally to do everything possible to aid the Assignee, its successors, assigns, nominees and legal representatives to obtain and enforce, for its or their own benefit, proper patent protection for said invention(s) or improvement(s) in any and all countries provided the expenses which may be incurred by me/us in lending such cooperation and assistance are paid by the Assignee;

AND I/we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to the Assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said invention(s) or improvement(s), including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

I/we further authorize and direct the attorneys of record to insert the serial number and filing date of said application now identified by the attorney docket number and title set forth above as soon as the same shall have been made known to them by the United States Patent and Trademark Office.

IN WITNESS WHEREOF, I/we hereunto set my/our hand(s) and seal(s):

Date Signed: Dec. 17, 2008Signature:   
Typed Name: Matt RodnickDate Signed: 12/18/08Signature:   
Typed Name: Christine Allen-Blanchette

Date Signed: \_\_\_\_\_

Signature: \_\_\_\_\_  
Typed Name: \_\_\_\_\_

Date Signed: \_\_\_\_\_

Signature: \_\_\_\_\_  
Typed Name: \_\_\_\_\_

Date Signed: \_\_\_\_\_

Signature: \_\_\_\_\_  
Typed Name: \_\_\_\_\_