

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Vijayakumar C. Venugopal</td> <td>05/06/2009</td> </tr> <tr> <td>Eric Pape</td> <td>05/05/2009</td> </tr> <tr> <td>Jean-Paul Booth</td> <td>05/06/2009</td> </tr> </tbody> </table>		Name	Execution Date	Vijayakumar C. Venugopal	05/06/2009	Eric Pape	05/05/2009	Jean-Paul Booth	05/06/2009		
Name	Execution Date										
Vijayakumar C. Venugopal	05/06/2009										
Eric Pape	05/05/2009										
Jean-Paul Booth	05/06/2009										
RECEIVING PARTY DATA											
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">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" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Property Type</th> <th style="width: 70%;">Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12418492</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12418492						
Property Type	Number										
Application Number:	12418492										
CORRESPONDENCE DATA											
<p>Fax Number: (408)213-9541 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>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</p>											
ATTORNEY DOCKET NUMBER:	P1738/LMRX-P141										
NAME OF SUBMITTER:	Joseph A. Nguyen, Reg. No. 37,899										
<p>Total Attachments: 2 source=LMRX-P141AA-US-20090819-TP-SGNG_ASSGNMNT_P1738_AS_FILED#page1.tif source=LMRX-P141AA-US-20090819-TP-SGNG_ASSGNMNT_P1738_AS_FILED#page2.tif</p>											

OP \$40.00 12418492

500940164

PATENT
REEL: 023114 FRAME: 0750

CUSTOMER NO. 32,986

PATENT APPLICATION

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

ATTORNEY DOCKET NO. P1738/LMRX-P141

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 furtherance 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:

METHODS AND APPARATUS FOR NORMALIZING OPTICAL EMISSION SPECTRA

Filing date: 04/03/2009

Application No.: 12/418,492

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: 5/6/09

Signature: Vijay
Typed Name: Vijayakumar C. Venugopal

Date Signed: 05/05/2009

Signature: Eric A. Pape
Typed Name: Eric Pape

Date Signed: _____

Signature: _____
Typed Name: Jean-Paul Booth

Date Signed: _____

Signature: _____
Typed Name: _____

Date Signed: _____

Signature: _____
Typed Name: _____

Page 1

Version 20020602

CUSTOMER NO. 32,986

PATENT APPLICATION

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

ATTORNEY DOCKET NO. P1738/LMRX-P141

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 furtherance 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:

METHODS AND APPARATUS FOR NORMALIZING OPTICAL EMISSION SPECTRA

Filing date: 04/03/2009

Application No.: 12/418,492

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: _____

Signature: _____
Typed Name: Vijayakumar C. Venugopal

Date Signed: _____

Signature: _____
Typed Name: Eris Pape

Date Signed: May 6 2009

Signature: Paul Booth
Typed Name: Jean-Paul Booth

Date Signed: _____

Signature: _____
Typed Name: _____

Date Signed: _____

Signature: _____
Typed Name: _____

Page 1

Version: 20090802

PATENT

RECORDED: 08/19/2009

REEL: 023114 FRAME: 0752