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FORM PTO-1596  
1-31-92

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

DOCKET NO.: 2328-046

101317031

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereto:

1. Name of conveying party(ies):

Tuqiang NI and Wenli COLLISON

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment ☐ Merger

☐ Security Agreement ☐ Change of Name

☐ Other

Execution Date: March 29, 2000

2. Name and address of receiving party(ies):

Name: LAM RESEARCH CORPORATION

Internal Address:

Street Address: 4650 Cushing Parkway

City: Fremont State/Country: CA ZIP: 94538-6516

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If the document is being filed together with a new application, the execution date of the application is: March 29, 2000

A. Patent Application No(s).

Filed herewith

B. Patent No(s).

09/539905

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: LOWE HAUPTMAN GOPSTEIN GILMAN & BERNER

Internal Address:

Street Address: 1700 Diagonal Road, Suite 310

City: Alexandria State: VA ZIP: 22314

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41)..... \$40.00

☒ Enclosed

☐ Authorized to be charged to deposit account

8. Deposit account number:

07-1337 (if necessary)

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9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*

Allan M. Lowe, Reg. No. 19,641

Name and Registration No. of Person Signing

*Allan M. Lowe*  
Signature

March 31, 2000

Date

Total number of pages comprising cover sheet: 1

CMB No. 0851-0011 (exp. 4/94)

jc525 U.S. PTO  
09/539905

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04/07/2000 SDPVIS 00000045 09539905

03 FC:581

(40.00 DP)

PATENT

REEL: 010669 FRAME: 0503

**ASSIGNMENT**

WHEREAS WE, TUQIANG NI of Fremont, California and WENLI COLLISON of Fremont, California, have made a certain new and useful invention as set forth in an application for United States Letters Patent, entitled METHOD OF AND APPARATUS FOR OBTAINING NEUTRAL DISSOCIATED GAS ATOMS, executed by us on the date of execution of this document, as shown below, and filed concurrently herewith;

OR

for which an application for United States Letters Patent was filed on \_\_\_\_\_, and identified by United States Serial No. \_\_\_\_\_;

AND WHEREAS, Lam Research Corporation, a corporation of the State of Delaware and having an address of 4650 Cushing Parkway, Fremont, CA 94538-6516 is desirous of acquiring the entire right, title and interest in and to said invention and in and to any and all Letters Patent of the United States and foreign countries which may be obtained therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt for and sufficiency of which is hereby acknowledged, We do hereby sell, assign, transfer and set over unto Lam Research Corporation, its legal representatives, successors, and assigns, the entire right, title and interest in and to said invention as set forth in the above-mentioned application, including any continuations, continuations-in-part, divisions, reissues, re-examinations or extensions thereof, and in and to any and all patents of the United States and foreign countries which may be issued for said invention;

UPON SAID CONSIDERATIONS, We hereby agree with the said assignee that We will not execute any writing or do any act whatsoever conflicting with these presents, and that We will, at any time upon request, without further or additional consideration but at the expense of said assignee, execute such additional assignments and other writings and do such additional acts as said assignee may deem necessary or desirable to perfect the assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional, continuations, continuations-in-part, reexamined, reissued, or extended Letters Patent of the United States or of any and all foreign countries on said invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, by giving testimony in any proceedings or transactions involving such applications or patents, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of the assigns and legal representatives of assignor and assignee;

AND We request the Commissioner of Patents and Trademarks to issue any Letters Patent of the United States which may be issued for said invention to said Lam Research Corporation, its legal representatives, successors or assigns, as the sole owner of the entire right, title and interest in and to said patent and the invention covered thereby.

3-29-2000  
Date

Tuqiang Ni  
Tuqiang Ni

3-29-2000  
Date

Wenli Collison  
Wenli Collison