

08-07-1998

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To the Honorable commissioner of Patents and Trademarks:  
Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): Maria E. Barone  
Richard A. Gottscho and Vahid Vahedi  
  
Additional name(s) of conveying party(ies) attached? Yes  No



2. Name and address of receiving party(ies):  
Name: LAM Research Corporation  
Street Address: 4650 Cushing Parkway  
City: Fremont  
State: CA Zip: 94538-6470  
  
Additional name(s) & address(es) attached? Yes  No

3. Nature of conveyance:  
 Assignment  
 Merger  
 Security Agreement  
 Change of Name  
 Other  
  
Execution Date: June 29, 1998 and July 9, 1998

4. Application number(s) or patent number(s): 09/033,997  
  
If this document is being filed together with a new application, the execution date of the application is:  
  
A. Patent Application No.(s) B. Patent No. (s)  
  
Additional numbers attached? Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:  
  
Name: Heather B. Shapiro  
Cesari and McKenna, LLP  
  
Street Address: 30 Rowes Wharf  
City: Boston State: MA Zip: 02110  
08/03/1998 PEOPLES 00000036 09033997  
01 FC:581

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 no. 03-1237 (Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

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.*  
  
  
Signature  
Steven J. Frank  
July 27, 1998  
Total number of pages comprising cover sheet: 4

**ASSIGNMENT**

Whereas We, Maria E. Barone, who reside at 953 Robin Way, Sunnyvale, CA 94087, Richard A. Gottscho, who reside at 4990 Lapis Lane, Pleasanton, CA 94566, and Vahid Vahedi, who reside at 1503 Posen Avenue, Albany, CA 94706, have made certain inventions or discoveries (or both) set forth in an application for Letters Patent of the United States of America entitled Method and Apparatus for Predicting Plasma-Process Surface Profiles, identified by Cesari and McKenna File No. 112028-0014, the specification of which was filed on March 3, 1998, and accorded Serial Number 09/033,997; and

Whereas LAM Research Corporation, whose address is 4650 Cushing Parkway, Fremont, CA 94538-6470, and which, together with its successors and assigns, is hereinafter called "Assignee," is desirous of acquiring the title, rights, benefits, and privileges hereinafter recited;

Now, Therefore, for valuable consideration furnished by Assignee to us, receipt and sufficiency of which we hereby acknowledge, we hereby, without reservation:

1. Assign, transfer, and convey to Assignee our entire right, title, and interest in and to said inventions and discoveries, said application for Letters Patent of the United States of America, any and all other applications for Letters Patent on said inventions and discoveries in whatsoever countries, including all divisional, renewal, substitute, continuation, continuation-in-part, and Convention applications based in whole or in part upon said inventions or discoveries, or upon said applications, and any and all Letters Patent, reissues, reexaminations, and extensions of Letters Patent granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said discoveries, said applications, and said Letters Patent;

2. Authorize Assignee to file patent applications in any or all countries on any or all of said inventions and discoveries in our names or in the name of Assignee or otherwise as Assignee may deem advisable, under the International Convention or otherwise;

3. Authorize and request the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patent to Assignee, as assignee of the entire right, title, and interest therein or otherwise as Assignee may direct;

4. Warrant that we have not knowingly conveyed to others any right in said inventions, discoveries, applications, or patents or any license to use the same or to make, use, or sell anything embodying or utilizing any of said inventions or discoveries; and that we have good right to assign the same Assignee without encumbrance;

5. Bind our heirs, legal representatives and assigns, as well as ourselves, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to us or them, all acts reasonably serving to assure that the said inventions and discoveries, the said patent applications, and the said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by us, our heirs, legal representatives, and assigns if this assignment had not been made; and

particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to us relating to said inventions and discoveries or the history thereof; and to furnish Assignee with any and all documents, photographs, models, samples, and other physical exhibits in our control or in the control of our heirs, legal representatives or assigns which may be useful for establishing the facts of our conceptions, disclosures, and reduction to practice of said inventions and discoveries.

In testimony of which we have executed this Assignment as an instrument under seal on the dates indicated next to our names.

6/29/98 Date Maria E. Barone Maria E. Barone, Inventor

State of California  
Commonwealth of Massachusetts )  
County of Alameda )ss.

On this 29th day of June, 1998, before me appeared Maria E. Barone, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she acknowledged the same to be his/her free act and deed.

Laura B. Maloney  
Notary Public

[seal]



