

9-8-04

ATTORNEY DOCKET NO: NAN069 US

U.S. DEPARTMENT OF COMMERCE
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TO THE HONORABLE DIRECTOR OF THE U.S. PATENT AND TRADEMARK OFFICE. PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENTS OR COPY THEREOF.

OFFICE. PLEASE RECORD THE ATTACHED

1. Name of conveying party(ies):
 a. Zhuan Liu
 b. Sangbong Lee
 c. Jiangtao Hu
 d. Chandra Saravanan
 Additional name(s) of conveying party(ies) attached?
 Yes No

2. Name and address of receiving party(ies):
 Name: Nanometrics Incorporated
 Street Address: 1550 Buckeye Drive
 City: Milpitas, CA 95035-7418
 Country: USA



3. Nature of Conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____
 Execution Date: September 3, 2004

Name and address of receiving party(ies):
 Name:
 Street Address:
 City: State: Zip:
 Country:
 Additional name(s) & address(es) attached?
 Yes No

4. Application number(s) or patent number(s):
 If this document is being filed together with a new application, the execution date of the application is: Aug. 30, 2004 & Sept. 3, 2004

A. Patent Application No.(s) -
 Title: Characterizing Residue on a Sample

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:
 Name: Michael J. Halbert
 Internal Address: Silicon Valley Patent Group LLP
 Street Address: 2350 Mission College Boulevard, Suite 360
 City Santa Clara State CA Zip 95054

6. Total number of applications and patents involved: 1
 7. Total fee (37 CFR 3.41): \$40.00
 Enclosed (Credit Card Form)
 Charge Deposit Account 50-2263 for any additional fees required for this conveyance and credit deposit account 50-2263 any amounts overpaid

DO NOT USE THIS SPACE

8. 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.

Michael J. Halbert 40,633
 Name of Person Signing

Michael J. Halbert
 Signature

9-8-04
 Date

Total number of pages including cover sheet, attachments, and documents: 4

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PATENT
 REEL: 015782 FRAME: 0547

ASSIGNMENT

For good and valuable consideration, receipt of which is hereby acknowledged, I:

Zhuan Liu of 38051 Edward Ave., Fremont, California 94536;

Sangbong Lee of 1276 Alder Creek Circle, San Leandro, California 94577;

Jiangtao Hu of 2149 Otis Dr., #341, Alameda, California 94501;

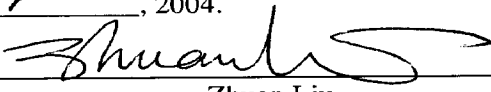
Chandra Saravanan of 39440 Civic Center Drive, Apt. 302, Fremont, California 94538;

hereby sell, assign and transfer to Nanometrics Incorporated, a California corporation, having a place of business at 1550 Buckeye Drive, Milpitas, CA 95035-7418, its successors and assigns, the entire right, title and interest throughout the world in my invention for which I have executed a United States patent application entitled

CHARACTERIZING RESIDUE ON A SAMPLE

the patent application being executed on or about the date of this assignment, and all patent applications and patents of every country for said invention, including divisions, reissues, continuations and extensions thereof, and all rights of priority resulting from the filing of said applications; I authorize the above-named assignee to apply for patents of foreign countries for said invention, and to claim all rights of priority without further authorization from me; I agree to execute all papers useful in connection with said United States and foreign applications, and generally to do everything possible to aid said assignee, its successors, assigns and nominees, at their request and expense, in obtaining and enforcing patents for said invention in all countries; and I request that the United States Patent and Trademark Office issue all patents granted for said invention to the above-named assignee, its successors and assigns. I hereby authorize and request the assignee's attorneys Silicon Valley Patent Group LLP, to insert herein (Application No _____, Filed _____) the application number and filing date of said application when known

Executed this 3rd day of September, 2004.

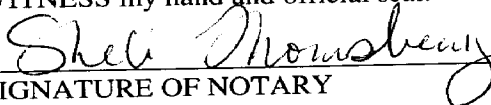


Zhuan Liu

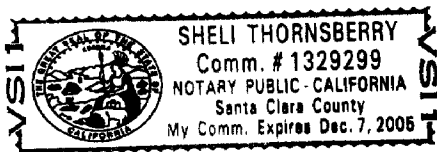
State of California)
County of Santa Clara) ss.

On Sept. 3, 2004 before me, Sheli Thornsberry Notary Public personally appeared Zhuan Liu personally known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.



SIGNATURE OF NOTARY



Executed this 3rd day of September, 2004.

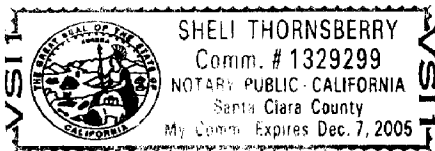
Sangbong Lee
Sangbong Lee

State of California)
County of Santa Clara) ss.

On Sept 3, 2004 before me, Sheli Thornsberry Notary Public personally appeared Sangbong Lee personally known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Sheli Thornsberry
SIGNATURE OF NOTARY



Executed this 3rd day of September, 2004.

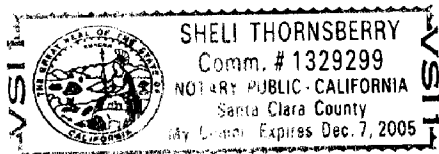
Jiangtao Hu
Jiangtao Hu

State of California)
County of Santa Clara) ss.

On Sept 3, 2004 before me, Sheli Thornsberry Notary Public personally appeared Jiangtao Hu personally known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Sheli Thornsberry
SIGNATURE OF NOTARY



Executed this 3rd day of September, 2004.

Chandra Saravanan
Chandra Saravanan

State of California)
County of Santa Clara) ss.

On Sept. 3, 2004 before me, Sheli Thornsberry Notary Public personally appeared Chandra Saravanan personally known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Sheli Thornsberry
SIGNATURE OF NOTARY

