

PATENT ASSIGNMENT COVER SHEET

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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>ZHUAN LIU</td> <td>12/04/2013</td> </tr> <tr> <td>SHIFANG LI</td> <td>12/04/2013</td> </tr> </tbody> </table>		Name	Execution Date	ZHUAN LIU	12/04/2013	SHIFANG LI	12/04/2013
Name	Execution Date						
ZHUAN LIU	12/04/2013						
SHIFANG LI	12/04/2013						
RECEIVING PARTY DATA							
Name:	Nanometrics Incorporated						
Street Address:	1550 Buckeye Drive						
City:	Milpitas						
State/Country:	CALIFORNIA						
Postal Code:	95035-7418						
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>14097005</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14097005		
Property Type	Number						
Application Number:	14097005						
CORRESPONDENCE DATA							
Fax Number:	(408)378-7770						
Phone:	4083787777						
Email:	dchan@svpatentgroup.com						
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>							
Correspondent Name:	SILICON VALLEY PATENT GROUP LLP						
Address Line 1:	4010 MOORPARK AVENUE						
Address Line 2:	SUITE 210						
Address Line 4:	SAN JOSE, CALIFORNIA 95117						
ATTORNEY DOCKET NUMBER:	NAN291 US						
NAME OF SUBMITTER:	MICHAEL J. HALBERT						
Signature:	/Michael J. Halbert/						
Date:	12/05/2013						
Total Attachments: 2 source=NAN291US_Assignment_executed#page1.tif source=NAN291US_Assignment_executed#page2.tif							

OP \$40.00 14097005

ASSIGNMENT

For good and valuable consideration, receipt of which is hereby acknowledged, I:
Zhuan Liu of 40670 Las Palmas Avenue, Fremont, California 94539;

Shifang Li of 3357 Sagewood Court, Pleasanton, California 94588;

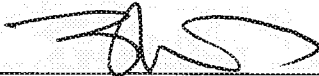
hereby sell, assign and transfer to **Nanometrics Incorporated**, a Delaware corporation, having a place of business at **1550 Buckeye Drive, Milpitas, California 95035-7418**, its successors and assigns, the entire right, title and interest throughout the world in my invention for which I have executed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

OPTICAL METROLOGY WITH MULTIPLE ANGLES OF INCIDENCE AND/OR AZUMITH ANGLES

with Patent Application Serial No. **14/097,005**, filed **December 4, 2013**, 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.

Sole or First Joint Inventor

Executed this 4th day of December, 2013.

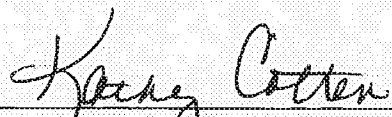

Signature of Zhuan Liu

State of California)
County of Santa Clara) ss.

On Dec. 4, 2013 before me, Kathy Cotten, Notary Public
(date) (Notary's Name)

Personally appeared **Zhuan Liu** who 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/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.
WITNESS my hand and official seal.


SIGNATURE OF NOTARY



Second Joint Inventor

Executed this 4th day of December, 2013.

Shifang Li
Signature of **Shifang Li**

State of California)
County of Santa Clara) ss.

On Dec 4, 2013 before me, Kathy Cotten, Notary Public
(date) (Notary's Name)

Personally appeared **Shifang Li** who 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/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.
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Kathy Cotten
SIGNATURE OF NOTARY

