

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT3333150

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
CHAD A. MIRKIN	02/21/2013
KEITH A. BROWN	02/19/2013
WOORYOUNG SHIM	02/28/2013
DANIEL J. EICHELSDOERFER	02/19/2013
BORIS RASIN	02/28/2013
XING LIAO	02/19/2013
GUOLIANG LIU	02/19/2013
ABRIN L. SCHMUCKER	02/19/2013
SHU HE	02/20/2013
RECEIVING PARTY DATA	
Name:	NORTHWESTERN UNIVERSITY
Street Address:	633 CLARK STREET
City:	EVANSTON
State/Country:	ILLINOIS
Postal Code:	60208
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14439252
CORRESPONDENCE DATA	
Fax Number:	(312)474-0448
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
Phone:	3124746300
Email:	docket@marshallip.com
Correspondent Name:	WALESKA SALGADO
Address Line 1:	233 SOUTH WACKER
Address Line 2:	SUITE 6300
Address Line 4:	CHICAGO, ILLINOIS 60606
ATTORNEY DOCKET NUMBER:	30938/2012-090
NAME OF SUBMITTER:	SHELLEY DANEK

PATENT

SIGNATURE:	/Shelley Danek/
DATE SIGNED:	04/30/2015
Total Attachments: 9 source=Assignment-1#page1.tif source=Assignment-1#page2.tif source=Assignment-1#page3.tif source=Assignment-1#page4.tif source=Assignment-1#page5.tif source=Assignment-1#page6.tif source=Assignment-1#page7.tif source=Assignment-1#page8.tif source=Assignment-1#page9.tif	

ASSIGNMENT

WHEREAS, WE, CHAD A. MIRKIN, KEITH A. BROWN, WOYOUNG SHIM, DANIEL J. EICHELSDOERFER, BORIS RASIN, XING LIAO, GUOLIANG LIU, ABRIN L. SCHMUCKER, and SHU HE (hereinafter collectively referred to as ("ASSIGNORS")) have invented certain new and useful improvements as described and set forth in the below-identified application for United States Letters Patent:

Title of Patent Application: Heat Actuated and Projected Lithography Systems and Methods
Application Filing Date: October 29, 2012 **Serial No.: 61/719,918**

WHEREAS, Northwestern University, an Illinois not-for-profit corporation, having a place of business at 633 Clark Street, Evanston, Illinois 60208, hereinafter referred to as "ASSIGNEE," is desirous of acquiring the entire right, title and interest in said invention and application and in any Letters Patent which may be granted on the same;

NOW THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, receipt of which is hereby acknowledged, ASSIGNORS have sold, assigned and transferred, and by these presents do sell, assign and transfer unto said ASSIGNEE, and ASSIGNEE's successors and assigns, all right, title and interest in and to said invention, said application for United States Letters Patent, and any Letters Patent which may hereafter be granted on the same in the United States and all countries throughout the world, including any divisions, renewals, continuations in whole or in part, substitutions, conversions, reissues, or prolongations or extensions thereof, said interest to be held and enjoyed by said ASSIGNEE as fully and exclusively as it would have been held and enjoyed by said ASSIGNORS had this assignment and transfer not been made, to the full extent and term of any Letters Patent.

ASSIGNORS further agree that ASSIGNORS will, without charge to said ASSIGNEE, but at ASSIGNEE's expense, cooperate with ASSIGNEE in the prosecution of said application and/or applications; execute, verify, acknowledge, and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof; and perform such other acts as ASSIGNEE lawfully may request, to obtain or maintain Letters Patent for said invention and improvement in any and all countries, and to vest title thereto in said ASSIGNEE, or ASSIGNEE's successors and assigns.

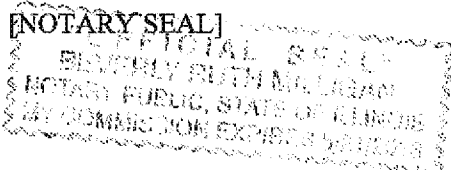
IN TESTIMONY WHEREOF, ASSIGNORS have hereunto signed ASSIGNORS' names to this Assignment on the date indicated below.

Chad A. Mirkin 2-21-13
CHAD A. MIRKIN DATE

State of Illinois
County of Cook ss.

On this 21st day of February, 2013, before me, a Notary Public in and for the County and State aforesaid, appeared, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he or she executed said instrument as his or her free and voluntary act and for the uses and purposes therein expressed.

Shirley Ruth Miller
NOTARY PUBLIC
My Commission Expires: 5/21/2013



Assignment for Execution

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Application Filing Date: October 29, 2012 Serial No.: 61/719,918

KB

KEITH A BROWN
DATE 2/19/2013

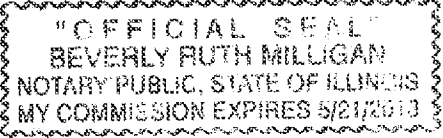
State of Illinois
County of Cook ss.

On this 19th day of February, 2013, before me, a Notary Public in and for the County and State aforesaid, appeared, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he or she executed said instrument as his or her free and voluntary act and for the uses and purposes therein expressed.

Beverly Ruth Milligan

NOTARY PUBLIC
My Commission Expires: 5/21/2013

[NOTARY SEAL]



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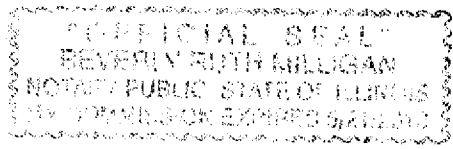
Daniel J. Eichelsoerfer 2/19/13
DANIEL J. EICHELSDOERFER DATE

State of *Illinois*
County of *Cook* ss.

On this *19th* day of *February*, 2013, before me, a Notary Public in and for the County and State aforesaid, appeared, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he or she executed said instrument as his or her free and voluntary act and for the uses and purposes therein expressed.

Beverly Ruth Mellegan
NOTARY PUBLIC
My Commission Expires: *5/21/2015*

[NOTARY SEAL]




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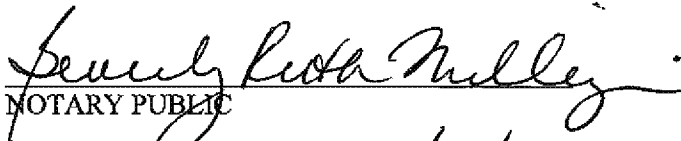
XING LIAO

02/19/2013

DATE

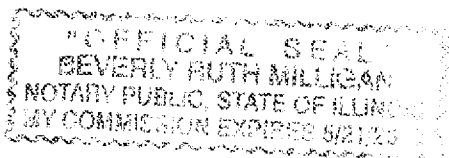
State of Illinois
County of Cook ss.

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NOTARY PUBLIC
My Commission Expires: 5/21/2013

[NOTARY SEAL]



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Guoliang Liu

Feb 19 2013

GUOLIANG LIU

DATE

State of Illinois

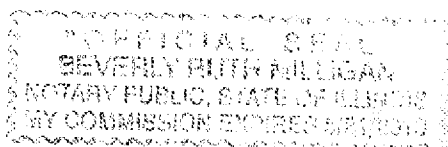
County of Cook ss.

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Beverly Ruth Fulligan
NOTARY PUBLIC

My Commission Expires: 5/20/2013

[NOTARY SEAL]



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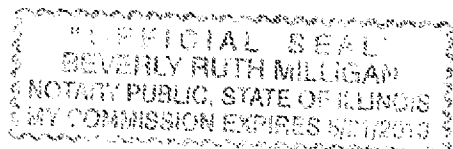
Al L. Schmucker 2/19/13
ABRIN L. SCHMUCKER DATE

State of Illinois
County of Cook ss.

On this 19th day of February, 2013, before me, a Notary Public in and for the County and State aforesaid, appeared, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he or she executed said instrument as his or her free and voluntary act and for the uses and purposes therein expressed.


Beverly Ruth Milligan
NOTARY PUBLIC
My Commission Expires: 5/21/2013

[NOTARY SEAL]



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Application Filing Date: October 29, 2012 Serial No.: 61/719,918

 (Signature)

INVENTOR PRINTED NAME: SHU HE

DATE OF EXECUTION: 02/20/2013

FIRST WITNESS:

 (Signature)

Printed Name: Nan Li

Witness Date: 02/20/2013

Home Address:

Room 605, Building 9
Yangguangshikv, Qinmen, Jiangning
Nanjing, Jiangsu, RP China

SECOND WITNESS:

 (Signature)

Printed Name: Kun Liao

Witness Date: 02/20/2013

Home Address:

Rm 1603, Unit 3, Building 1
99 Dinghuaimen St, Gulou district,
Nanjing, Jiangsu, China.