

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5328179

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| CHAD A. MIRKIN | 05/06/2008 |
| FENGWEI HUO | 05/05/2008 |
| ZIJIAN ZHENG | 05/05/2008 |
| GENGFENG ZHENG | 05/05/2008 |
| 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: | 15159148 |
| 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: | 312-474-6300 |
| Email: | lfrasher@marshallip.com, docket@marshallip.com |
| Correspondent Name: | MARSHALL, GERSTEIN & BORUN LLP |
| Address Line 1: | 233 SOUTH WACKER DRIVE |
| Address Line 2: | SUITE 6300 |
| Address Line 4: | CHICAGO, ILLINOIS 60606 |
| ATTORNEY DOCKET NUMBER: | 30938/28054A US |
| NAME OF SUBMITTER: | PATRICK ROTHSTEIN |
| SIGNATURE: | /Patrick Rothstein/ |
| DATE SIGNED: | 01/16/2019 |
| Total Attachments: 9 | |
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MARSHALL, GERSTEIN & BORUN LLP, 233 S. Wacker Drive, Suite 6300, Sears Tower, Chicago, Illinois 60606-6357

ASSIGNMENT

U.S. Serial No: 61/047,910 Filed: April 25, 2008
U.S. Serial No: 61/049,679 Filed: May 1, 2008
U.S. Serial No: 61/076,199 Filed: June 27, 2008

PCT Patent Application No: PCT/US09/41738 Filed: April 25, 2009

Title: Polymer Pen Lithography

For good and sufficient consideration, the receipt and sufficiency whereof are hereby acknowledged, the undersigned hereby assigns to NORTHWESTERN UNIVERSITY, 633 Clark Street, Evanston, Illinois 60208, its successors and assigns ("Assignee") the entire right, title and interest in the invention or improvements of the undersigned disclosed in an application for Letters Patent of the United States in said application and any and all other applications, both United States and foreign, which may be filed, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications, and in any reissue or extension thereof.

The undersigned hereby authorizes and requests the Commissioner of Patents and Trademarks and the foreign counterparts thereof to issue said Letters Patents to Assignee.

The undersigned hereby authorizes and requests the attorneys of record in said application to insert in this assignment the execution date and/or filing date and serial number of said application when officially known.

Each the undersigned warrants that such undersigned is the owner of the interest herein assigned, has the right to make this assignment and that there are no prior assignments, licenses, or other rights in the interest herein assigned.

The undersigned hereby agrees, upon the request and at the expense of Assignee to execute any and all divisional, continuation, continuation-in-part and substitute applications for said invention or improvements, and any necessary oath or affidavit relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application, and any and all applications and other documents for Letters Patent in foreign countries on said invention or improvements, that Assignee may deem necessary or expedient, and upon the request of Assignee, in the event of any application or Letters Patent assigned herein becoming involved in an interference or opposition proceeding, to cooperate to the best of the ability of the undersigned with Assignee to perform, upon request, any and all affirmative acts to obtain said Letters Patent, both United States and foreign, and vest all rights therein hereby conveyed in Assignee whereby said Letters Patents will be held and enjoyed by Assignee to the full end of the term for which said Letters Patents may be granted as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made

WITNESS my hand this

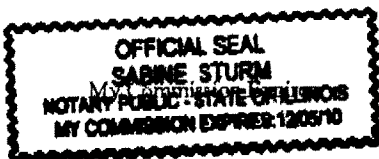
11th day of May, 2009.

State of
County of

Illinois
Cook

[Signature]
Chad A. Mirkin

On this 11th day of May, 2009, 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 they executed said
instrument as their free and voluntary act and for the uses and purposes therein expressed.
WITNESS my hand and seal the same day and year last above given.



12/05/10 Sabine Sturm
Notary Public

WITNESS my hand this

27th day of April, 2009.

State of
County of

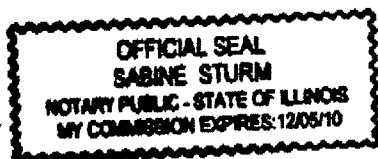
Illinois
Cook

[Signature]
Fengwei Huo

On this 27th day of April, 2009, before me, a
Notary Public in and for the County and State aforesaid, appeared, to me personally known to be the same
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My Commission Expires:

12/05/10 Sabine Sturm
Notary Public

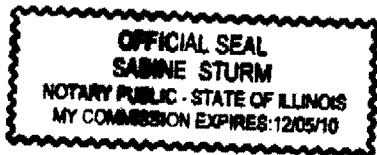


30938/28054
NU 28054

WITNESS my hand this 27th day of April, 2009.
State of Illinois
County of Cook Zijian Zheng
Zijian Zheng

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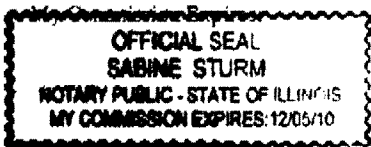
My Commission Expires: 12/05/10 Sabine Sturm
Notary Public



WITNESS my hand this 7th day of May, 2009.
State of Illinois
County of Cook Gengfeng Zheng
Gengfeng Zheng

On this 7th day of May, 2009, before me, a
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My Commission Expires: 12/05/10 Sabine Sturm
Notary Public



30938/28054
NU 28054

MARSHALL, GERSTEIN & BORUN LLP, 233 S. Wacker Drive, Suite 6300, Sears Tower, Chicago, Illinois 60606-6357

ASSIGNMENT

U.S. Serial No: 61/076,199

Filed: June 27, 2008

Title: Multiscale Soft Pen Lithography

For good and sufficient consideration, the receipt and sufficiency whereof are hereby acknowledged, the undersigned hereby assigns to NORTHWESTERN UNIVERSITY, 633 Clark Street, Evanston, Illinois 60208, its successors and assigns ("Assignee") the entire right, title and interest in the invention or improvements of the undersigned disclosed in an application for Letters Patent of the United States in said application and any and all other applications, both United States and foreign, which may be filed, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications, and in any divisional, continuation, continuation-in-part, reissue, or extension thereof.

The undersigned hereby authorizes and requests the Commissioner of Patents and Trademarks and the foreign counterparts thereof to issue said Letters Patents to Assignee.

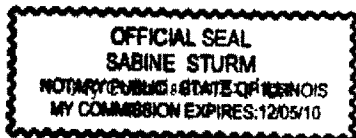
The undersigned hereby authorizes and requests the attorneys of record in said application to insert in this assignment the execution date and/or filing date and serial number of said application when officially known.

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WITNESS my hand this 4th day of March, 2009.
State of Illinois
County of Cook Chad A. Mirkin
Chad A. Mirkin

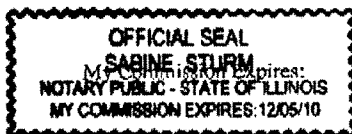
On this 4th day of March, 2009, before me, a
Notary Public in and for the County and State aforesaid, appeared, to me personally known to be the same
person whose name is subscribed to the foregoing instrument, and acknowledged that they executed said
instrument as their free and voluntary act and for the uses and purposes therein expressed.
WITNESS my hand and seal the same day and year last above given.



12/05/10 Sabine Sturm
Notary Public

WITNESS my hand this 4th day of March, 2009.
State of Illinois
County of Cook Fengwei Huo
Fengwei Huo

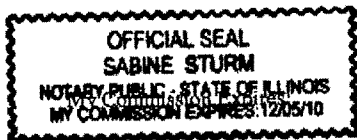
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State of Illinois
County of Cook Zijian Zheng
Zijian Zheng

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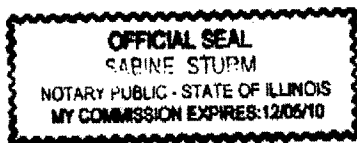
12/05/10 Sabine Sturm
Notary Public

WITNESS my hand this 7th day of May, 2009.
State of Illinois
County of Cook Gengfeng Zheng
Gengfeng Zheng

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instrument as their free and voluntary act and for the uses and purposes therein expressed.
WITNESS my hand and seal the same day and year last above given.

My Commission Expires:

12/05/10 Sabine Sturm
Notary Public



MARSHALL, GERSTEIN & BORUN LLP, 233 S. Wacker Drive, Suite 6300, Sears Tower, Chicago, Illinois 60606-6357

ASSIGNMENT

U.S. Serial No: 61/049,679

Filed: May 1, 2008

Title: Multi-scale soft pen lithography

For good and sufficient consideration, the receipt and sufficiency whereof are hereby acknowledged, the undersigned hereby assigns to NORTHWESTERN UNIVERSITY, 633 Clark Street, Evanston, Illinois 60208, its successors and assigns ("Assignee") the entire right, title and interest in the invention or improvements of the undersigned disclosed in an application for Letters Patent of the United States in said application and any and all other applications, both United States and foreign, which may be filed, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications, and in any divisional, continuation, continuation-in-part, reissue, or extension thereof.

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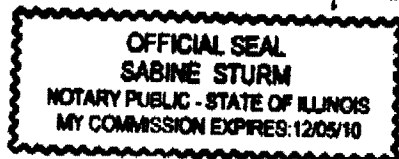
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WITNESS my hand this 6th day of May, 2008.
State of Illinois
County of Cook Chad A. Mirkin
Chad A. Mirkin

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Notary Public



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State of Illinois
County of Cook Fengwei Huo
Fengwei Huo

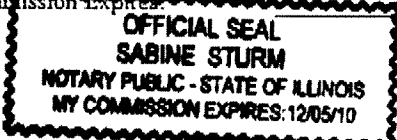
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