

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Chad A. Mirkin</td> <td>07/16/2004</td> </tr> <tr> <td>Gabriella S. Metraux</td> <td>07/16/2004</td> </tr> <tr> <td>Rongchao Jin</td> <td>07/19/2004</td> </tr> <tr> <td>YunWei Charles Cao</td> <td>07/19/2004</td> </tr> </tbody> </table>		Name	Execution Date	Chad A. Mirkin	07/16/2004	Gabriella S. Metraux	07/16/2004	Rongchao Jin	07/19/2004	YunWei Charles Cao	07/19/2004
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Gabriella S. Metraux	07/16/2004										
Rongchao Jin	07/19/2004										
YunWei Charles Cao	07/19/2004										
RECEIVING PARTY DATA											
Name:	Northwestern University										
Street Address:	1801 Maple Avenue										
City:	Evanston										
State/Country:	ILLINOIS										
Postal Code:	60201										
PROPERTY NUMBERS Total: 1											
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>10817754</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	10817754						
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CORRESPONDENCE DATA											
Fax Number:	(303)863-0223										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	303 863 9700										
Email:	crobnett@sheridanross.com										
Correspondent Name:	Sheridan Ross P.C.										
Address Line 1:	1560 Broadway, Suite 1200										
Address Line 4:	Denver, COLORADO 80202										
NAME OF SUBMITTER:	Constance Robnett										

CH \$40.00 10817754

Total Attachments: 5
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**PATENT
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ASSIGNMENT

WHEREAS, we, Chad A. Mirkin, of 111 16th Street, Wilmette, Illinois 60091; Gabriella S. Métraux, of 1422 Noyes St., #2, Evanston, Illinois 60201; Rongchao Jin of 2203 Maple Avenue, #F3, Evanston, Illinois 60201; and YunWei Charles Cao, of 4830 NW 43rd St. #J146, Gainesville, Florida 32606, have invented a certain new and useful invention entitled "USE OF PLASMON EXCITATION TO CONTROL NANOPARTICLE GROWTH," for which an application for Letters Patent of the United States has been prepared and filed on April 2, 2004, receiving Serial No. 10/817,754, and further identified as Attorney File No. 3501-49;

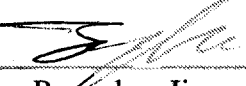
NOW THEREFORE, be it known that we, the said inventors, for and in consideration of certain good and valuable consideration, the sufficiency and receipt of which is hereby acknowledged, at the request of the assignee do sell, assign and transfer unto said assignee, Northwestern University, an Illinois corporation having a place of business at 1801 Maple Avenue, Evanston, IL 60201-3135, its successors, legal representatives and assigns, the aforesaid application for the territory of the United States of America and all continuation, divisional, continuation-in-part and reissue applications, all patent applications in foreign countries, all applications pursuant to the Patent Cooperation Treaty, and all applications for extension filed or to be filed for the invention, and all Letters Patent, Invention Registrations, Utility Models, Extensions or Reissues and other patent rights, obtained for the invention in the United States or any other country; we also assign any right, title or interest in and to the invention which has not already been transferred to the assignee; we warrant that we have made no assignment of the invention, application or patent therefor to a party other than Northwestern University and we are under no obligation to make any assignment of the invention, application, or patent therefor to any other party; and we further agree to cooperate with the assignee hereunder in the obtaining and sustaining of any and all such Letters Patent and in confirming assignee's exclusive ownership of the invention, but at the expense of said assignee.

The Commissioner of Patents is hereby authorized and requested to issue the Letters Patent solely in accordance with the terms of this Assignment, to Northwestern University, its successors, legal representatives and assigns, as the assignee of the entire right, title and interest therein.

IN WITNESS WHEREOF, the parties hereto have executed this Assignment as of the date indicated hereunder.

7/16/04 By: 
Chad A. Mirkin

Date: 7/16/04 By: 
Gabriella S. Métraux

7/19/04 By: 
Rongchao Jin

By: _____
YunWei Charles Cao

ASSIGNMENT

WHEREAS, we, Chad A. Mirkin, of 111 16th Street, Wilmette, Illinois 60091; Gabriella S. Métraux, of 1422 Noyes St., #2, Evanston, Illinois 60201; Rongchao Jin of 2203 Maple Avenue, #F3, Evanston, Illinois 60201; and YunWei Charles Cao, of 4830 NW 43rd St. #J146, Gainesville, Florida 32606, have invented a certain new and useful invention entitled "USE OF PLASMON EXCITATION TO CONTROL NANOPARTICLE GROWTH," for which an application for Letters Patent of the United States has been prepared and filed on April 2, 2004, receiving Serial No. 10/817,754, and further identified as Attorney File No. 3501-49;

NOW THEREFORE, be it known that we, the said inventors, for and in consideration of certain good and valuable consideration, the sufficiency and receipt of which is hereby acknowledged, at the request of the assignee do sell, assign and transfer unto said assignee, Northwestern University, an Illinois corporation having a place of business at 1801 Maple Avenue, Evanston, IL 60201-3135, its successors, legal representatives and assigns, the aforesaid application for the territory of the United States of America and all continuation, divisional, continuation-in-part and reissue applications, all patent applications in foreign countries, all applications pursuant to the Patent Cooperation Treaty, and all applications for extension filed or to be filed for the invention, and all Letters Patent, Invention Registrations, Utility Models, Extensions or Reissues and other patent rights, obtained for the invention in the United States or any other country; we also assign any right, title or interest in and to the invention which has not already been transferred to the assignee; we warrant that we have made no assignment of the invention, application or patent therefor to a party other than Northwestern University and we are under no obligation to make any assignment of the invention, application, or patent therefor to any other party; and we further agree to cooperate with the assignee hereunder in the obtaining and sustaining of any and all such Letters Patent and in confirming assignee's exclusive ownership of the invention, but at the expense of said assignee.

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IN WITNESS WHEREOF, the parties hereto have executed this Assignment as of the date indicated hereunder.

By: _____
Chad A. Mirkin

By: _____
Gabriella S. Métraux

By: _____
Rongchao Jin

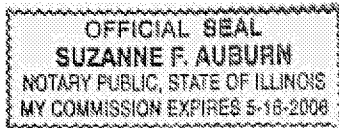
7/19/2004

By: YunWei Charles Cao
YunWei Charles Cao

STATE OF Illinois)
) ss.
COUNTY OF Cook)

Before me, a Notary Public in and for said County and State, personally appeared Chad A. Mirkin, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and considerations therein expressed.

Given under my hand and seal of office this 16 day of July, 2004.



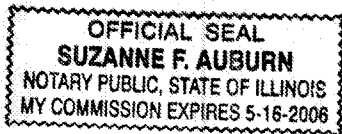
Suzanne Auburn
Notary Public

My Commission Expires: 5-16-2006

STATE OF Illinois)
) ss.
COUNTY OF Cook)

Before me, a Notary Public in and for said County and State, personally appeared Gabriella S. Métraux, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that she executed the same for the purposes and considerations therein expressed.

Given under my hand and seal of office this 16 day of July, 2004.



Suzanne Auburn
Notary Public

My Commission Expires: 5-16-2006

STATE OF Illinois)
COUNTY OF Cook) ss.

Before me, a Notary Public in and for said County and State, personally appeared Rongchao Jin, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and considerations therein expressed.

Given under my hand and seal of office this 19 day of July, 2004.



Suzanne Auburn

Notary Public

My Commission Expires: 5-16-2006

STATE OF)
COUNTY OF) ss.

Before me, a Notary Public in and for said County and State, personally appeared YunWei Charles Cao, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and considerations therein expressed.

Given under my hand and seal of office this _____ day of _____, 2004.

Notary Public

My Commission Expires: _____

STATE OF)
)s
COUNTY OF)

Before me, a Notary Public in and for said County and State, personally appeared Rongchao Jin, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and considerations therein expressed.

Given under my hand and seal of office this _____ day of _____, 2004.

Notary Public

My Commission Expires: _____

STATE OF)
)s
COUNTY OF)

Before me, a Notary Public in and for said County and State, personally appeared YunWei Charles Cao, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and considerations therein expressed.

Given under my hand and seal of office this 19 day of July, 2004.

Sharon A. Greene
Notary Public

My Commission Expires: 7/06/2007



Sharon A. Greene
My Commission DD226903
Expires July 06, 2007