12/460007 07/10/2009

To the Director of the United States Patent and Trs  1	07-22	2-2009		
To the Director of the United States Patent and Trz  1 Name of conveying part(les):  Alhua Fu Shan X. Wang Sanjiv Sam Gambhir  Additional name(s) of conveying party(ies) attached?   Yes   No  3. Nature of conveyance/Execution Date(s):  Execution Date(s): 7/3/09; 6/29/09; and 7/7/09 Respectively   Assignment   Change of Name   Joint Research Agreement   Change of Name   State CA		Docket No.: 221907-1200		
1. Name of conveying party(ies):  Alhua Fu Shan X, Wang Sanjly Sam Gambhir  Additional name(s) of conveying party(ies) attached? □ yes ⊠No  3. Nature of conveyance/Execution Date(s):  Execution Date(s): 7/3/09; 6/29/09; and 7/7/09 Respectively		documents or the new address(es) helew		
Shan X. Wang Sanjiv Sam Gambhir  Additional name(s) of conveying party(ies) attached?   Yes   No  3. Nature of conveyance/Execution Date(s):  Execution Date(s):   7/3/09; 6/29/09; and 7/7/09 Respectively   Security Agreement   Change of Name   Joint Research Agreement   Covernment Interest Assignment   Executive Order 9424, Confirmatory License   Other:   This document is being filled together with a new application.  A Patent application No.(s)   B. Patent No.(s)    TBA / Filled Herewith   Additional numbers attached?   Yes   No  5. Name and address of party to whom correspondence concerning document should be mailed:   7. Total fee (37 CFR 1.21 (h) & 3.41) & 40.00   Authorized to be charged by credit card   None required (government interest not affecting title)   8. Payment Information   a. Credit Card Last 4 Number: 1008   Expiration Date: 09/10   b. Deposit Account Number: Authorized User Name:   Aut	• •			
Additional name(s) of conveying party(ies) attached?   Yes   No    3. Nature of conveyance/Execution Date(s):	Shan X. Wang	Stanford Junior University		
3. Nature of conveyance/Execution Date(s):  Execution Date(s): 7/3/09; 6/29/09; and 7/7/09 Respectively  Assignment	Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No			
Sassignment		Street Address. 1705 El Camino Real		
Government Interest Assignment   Government Interest Assignment   Executive Order 9424, Confirmatory License   Additional name(s) & address(es) attached?   Yes   No    4. Application number(s) or patent number(s):   This document is being filed together with a new application.  A. Patent application No.(s)   B. Patent No.(s)    TBA / Filed Herewith   Additional numbers attached?   Yes   No    5. Name and address of party to whom correspondence concerning document should be mailed:   No.   Sinvolved:   #    Christopher B. Linder, Ph.D.   Thomas, Kayden, Horstemeyer & Risley, L.L.P.   600 Galleria Parkway, Suite 1500   Attanta, Georgia 30339-5948   Phone Number: 770-931-0933   E-Mail Address: Jo.Bryan@tkhr.com   Deposit Account Number: Authorized User Name:    9. Signature:   Country: US Zip: 94306-1160   Additional name(s) & address(es) attached?   Yes   No    B. Patent No.(s)   S. Total number of applications/patents   Involved: [#]   This document is being filed together with a new application.    B. Patent No.(s)   S. Total number of applications/patents   Involved: [#]   This document is being filed together with a new application.    B. Patent No.(s)   S. Total number of applications/patents   Involved: [#]   This document is being filed together with a new application.    B. Patent No.(s)   S. Total number of applications/patents   Involved: [#]   This document is being filed together with a new application.   Involved: [#]   This document is being filed together with a new application.   Involved: [#]   This document is being filed together with a new application.   Involved: [#]   This document is being filed together with a new application.   Involved: [#]   This document is being filed together with a new application.   Involved: [#]   This document is being filed together with a new application.   Involved: [#]   This document is b				
Government Interest Assignment   Christopher B. Linder, Ph.D. Thomas, Kayden, Horstemeyer & Risley, L.L.P. 600 Galleria Parkway, Suite 1500 Attanta, Georgia 30339-5948 Phone Number: 770-933-9500 Pax Number: 770-931-0933 E-Mail Address: Jo.Bryan@tkhr.com  Government Interest Assignment   Additional name(s) & address(es) attached?   Yes   No   B. Patent No.(s)    B. Patent No.(s)   B. Patent No.(s)   C. Total number of applications/patents involved: [#]   7. Total fee (37 CFR 1.21 (h) & 3.41)   \$40.00     Authorized to be charged by credit card   Authorized to be charged by credit card   Authorized to be charged to deposit account   None required (government interest not affecting title)   B. Payment Information   a. Credit Card Last 4 Number: 1008   Expiration Date: 09/10   b. Deposit Account Number: Authorized User Name:    Additional name(s) & address(es) attached?   Yes   No   No.(s)   B. Patent No.(s)   C. Total number of applications/patents involved: [#]   7. Total fee (37 CFR 1.21 (h) & 3.41)   \$40.00     Authorized to be charged by credit card   Authorized to be charged by credit card   Authorized to be charged to deposit account   None required (government interest not affecting title)   Christopher B. Linder   Linder				
A. Patent application No.(s)  TBA / Filed Herewith  Additional numbers attached?  Yes No  5. Name and address of party to whom correspondence concerning document should be mailed:  Christopher B. Linder, Ph.D. Thomas, Kayden, Horstemeyer & Risley, L.L.P. 600 Galleria Parkway, Suite 1500 Attanta, Georgia 30339-5948  Phone Number: 770-933-9500 Fax Number: 770-951-0933 E-Mail Address: Jo.Bryan@tkhr.com  B. Patent No.(s)  6. Total number of applications/patents involved:  ##    7. Total fee (37 CFR 1.21 (h) & 3.41) \$ 40.00  Authorized to be charged by credit card Authorized to be charged to deposit account Enclosed None required (government interest not affecting title)  8. Payment Information a. Credit Card Last 4 Number: 1008 Expiration Date: 09/10  b. Deposit Account Number: Authorized User Name:  9. Signature:  Christopher B. Linder  Oate	Government Interest Assignment Executive Order 9424, Confirmatory License	,		
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Christopher B. Linder Date				
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(Patent Assignment)

## ASSIGNMENT OF UTILITY PATENT APPLICATION

WHEREAS, the following parties:

<u>Name</u> <u>Address</u>

Aihua Fu Shan X. Wang Sanjiv Sam Gambhir

61/079,485.

which was:

1678 Blue Jay Dr., Sunnyvale, CA 9408756 Old Spanish Trail, Portola Valley, CA 94028395 Golden Hills, Portola Valley, CA 94028

hereinafter referred to as ASSIGNOR, has/have invented certain new and useful improvements ("invention(s)") as described and set forth in the below-identified utility application for United States Letters Patent entitled:

## FLUORESCENT MAGNETIC NANOPROBES, METHODS OF MAKING, AND METHODS OF USE,

$\boxtimes$	executed on even date herewith,
	filed with the United States Patent and Trademark Office (USPTO) on ,
	and assigned Serial No. , and
$\boxtimes$	further described in U.S. Provisional application entitled FLUORESCENT
	MAGNETIC NANOPROBES, METHODS OF MAKING, AND METHODS
	OF USE,, filed with the USPTO on July 10, 2008, and assigned Serial No.

Note: Only one of the first two checkboxes will be checked. The third checkbox will be checked, only if appropriate.

WHEREAS, The Board of Trustees of the Leland Stanford Junior University, having a place of business at 1705 El Camino Real, Palo Alto, CA 94306-1160, hereinafter referred to as ASSIGNEE, is desirous of acquiring ASSIGNOR'S interest in and to said invention(s), said utility application, said provisional application, and any U.S. and foreign patents which are related to the same.

PATENT REEL: 022991 FRAME: 0577

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(Patent Assignment)

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged by ASSIGNOR, ASSIGNOR has sold, assigned and transferred and does hereby sell, assign and transfer unto ASSIGNEE, and ASSIGNEE'S successors and assigns, (a) the entire right, title and interest, for the United States of America, in and to said invention(s), said utility application, and said Provisional application and all the rights and privileges in any application and under any and all patents that may be granted in the U.S. for said inventions, including all corresponding provisional, continuation, continuation-in-part, divisional, reissue, and reexamination applications; and (b) the entire right, title and interest in and to said invention(s), said utility application, and said provisional application for all countries foreign to the U.S., including all rights of priority arising from them, and all the rights and privileges under any and all forms of protection, including patents, that may be granted in said countries foreign to the U.S. for them.

ASSIGNOR authorizes ASSIGNEE to make application for such protection in its own name and maintain such protection in any and all countries foreign to the U.S., and to invoke and claim for any application for patent or other form of protection for said Inventions, without further authorization from ASSIGNOR, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

ASSIGNOR hereby consents that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of ASSIGNEE to apply for patent or other form of protection for said Inventions, said utility application, or said provisional application and to claim the aforesaid benefit of the right of priority.

ASSIGNOR requests that any and all patents for said inventions be issued to ASSIGNEE in the U.S. and to ASSIGNEE in all countries foreign to the U.S., or to such nominee as ASSIGNEE may designate.

ASSIGNOR covenants and agrees that, when requested, ASSIGNOR shall, without charge to ASSIGNEE but at ASSIGNEE'S expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable, or convenient in connection with the patent applications, patents, or other forms of protection of said invention(s), and for the defense and protection thereof if challenged in the court of law.

ASSIGNOR authorizes ASSIGNEE or its agents to insert, on ASSIGNOR's behalf, the filing date and/or serial number above pertaining to the utility application and/or the provisional application, if not known as of the date of execution of this document.

PATENT REEL: 022991 FRAME: 0578

Docket No.: 221907-1200 Page 3 of 5 (Patent Assignment)

REEL: 022991 FRAME: 0579

Docket No.: 221907-1200

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(Patent Assignment)

Date: 6/29/09

Date: 6/29/2669

Date:

Shan X. Wang

Witness

Witness

REEL: 022991 FRAME: 0580

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(Patent Assignment)

Date: 7/7/09

Date: 07/07/09

Senjiv Sam Gambhir

Witness

PATENT

REEL: 022991 FRAME: 0581