

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4091283

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	TYLER O'BRIEN SHULTZ	09/30/2016
	SHAN X. WANG	09/30/2016
	JUNG-ROK LEE	09/30/2016
RECEIVING PARTY DATA		
Name:	THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY	
Street Address:	3000 EL CAMINO REAL, BUILDING FIVE, THIRD FLOOR	
City:	PALO ALTO	
State/Country:	CALIFORNIA	
Postal Code:	94306	
PROPERTY NUMBERS Total: 1		
Property Type	Number	
Application Number:	15281793	
CORRESPONDENCE DATA		
Fax Number:	(650)424-0141	
<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:	650-331-8412	
Email:	tom@lumen.com	
Correspondent Name:	THOMAS J. MCFARLANE	
Address Line 1:	550 S. CALIFORNIA AVE.	
Address Line 2:	SUITE 300	
Address Line 4:	PALO ALTO, CALIFORNIA 94306	
ATTORNEY DOCKET NUMBER:	S15-224/US	
NAME OF SUBMITTER:	THOMAS J MCFARLANE	
SIGNATURE:	/Thomas J. McFarlane/	
DATE SIGNED:	10/11/2016	
Total Attachments: 3		
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source=assignments#page2.tif		

ASSIGNMENT OF INVENTION AND PATENT

This Assignment of Invention and Patent (the "Assignment") is made and effective as of **September 30, 2016**, by and between **Tyler O'Brien Shultz**, an individual residing in **Los Gatos, CA**, (the "Assignor") and **The Board of Trustees of the Leland Stanford Junior University**, an entity whose address is **3000 El Camino Real, Building Five, Third Floor, Palo Alto, CA 94306, USA** (the "Assignee").

1) For good and valuable consideration, the receipt of which is hereby acknowledged, Assignor hereby sells, assigns and transfers to Assignee and the successors, assigns, and legal representatives of Assignee, all of its right, title and interest in and to (i) the invention or inventions described in US patent application **15/281793** filed **9/30/2016** entitled **Method for detecting small molecule analytes using magnetoresistant sensors** (the "Application") naming Assignor as an inventor, (ii) any and all patent applications (whether provisional or non-provisional) relating to said invention(s), including all continuations, continuations-in-part, divisions, substitutes, reissues or renewals thereof, in any and all countries, (iii) any and all patents relating to such invention(s) in any and all countries that may be granted on any such application(s), including all reissues or extensions of any such patents and (iv) any and all domestic and foreign rights of priority resulting from the filing of the Application.

2) Assignor hereby agrees that no assignment, sale, agreement or encumbrance has been or will be made or entered into by Assignor which would conflict with this Assignment. Assignor represents and warrants to Assignee that at the time of the execution and delivery of this Assignment, Assignor solely owns (or jointly owns, if the invention(s) were jointly made) the entire right, title and interest in and to said invention(s).

3) Assignor agrees that Assignee may apply for foreign patents relating to said invention(s) and irrevocably authorizes Assignee and grants Assignee the right to do so.

4) Assignor agrees, on request and without further consideration, but at the expense of Assignee, to sign all lawful papers, make all rightful oaths, and give any required testimony in any legal proceedings relating to said invention(s), and to generally aid Assignee, or its successors or assigns to obtain and enforce patent protection for said invention(s) in any and all countries.

5) Assignor authorizes and requests any official whose duty it is to issue patents to issue any patent on said invention(s) to Assignee, as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made.

6) This Assignment shall bind and inure to the benefit of the successors, assigns and personal representatives of the respective parties.

Assignor has executed this Assignment as of the Effective Date of **September 30, 2016**.

Signature: 
Assignor: **Tyler O'Brien Shultz**

Lumen Ref.: S15-224/US
PID: 21897 IID: 5938

ASSIGNMENT OF INVENTION AND PATENT

This Assignment of Invention and Patent (the "Assignment") is made and effective as of **September 30, 2016**, by and between **Shan X. Wang**, an individual residing in **Portola Valley, CA, USA**, (the "Assignor") and **The Board of Trustees of the Leland Stanford Junior University**, an entity whose address is **3000 El Camino Real, Building Five, Third Floor, Palo Alto, CA 94306, USA** (the "Assignee").

1) For good and valuable consideration, the receipt of which is hereby acknowledged, Assignor hereby sells, assigns and transfers to Assignee and the successors, assigns, and legal representatives of Assignee, all of its right, title and interest in and to (i) the invention or inventions described in US patent application **15/281793** filed **9/30/2016** entitled **Method for detecting small molecule analytes using magnetoresistant sensors** (the "Application") naming Assignor as an inventor, (ii) any and all patent applications (whether provisional or non-provisional) relating to said invention(s), including all continuations, continuations-in-part, divisions, substitutes, reissues or renewals thereof, in any and all countries, (iii) any and all patents relating to such invention(s) in any and all countries that may be granted on any such application(s), including all reissues or extensions of any such patents and (iv) any and all domestic and foreign rights of priority resulting from the filing of the Application.

2) Assignor hereby agrees that no assignment, sale, agreement or encumbrance has been or will be made or entered into by Assignor which would conflict with this Assignment. Assignor represents and warrants to Assignee that at the time of the execution and delivery of this Assignment, Assignor solely owns (or jointly owns, if the invention(s) were jointly made) the entire right, title and interest in and to said invention(s).

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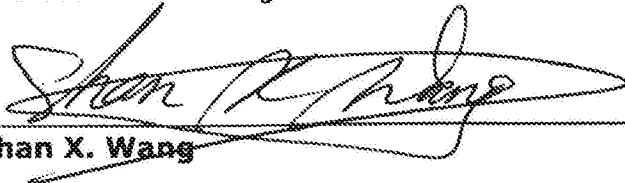
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Assignor has executed this Assignment as of the Effective Date of **September 30, 2016**.

Signature: _____

Assignor: **Shan X. Wang**



Lumen Ref.: S15-224/US
PID: 21897 IID: 1468

ASSIGNMENT OF INVENTION AND PATENT

This Assignment of Invention and Patent (the "Assignment") is made and effective as of **September 30, 2016**, by and between **Jung-Rok Lee**, an individual residing in **Menlo Park, CA, USA**, (the "Assignor") and **The Board of Trustees of the Leland Stanford Junior University**, an entity whose address is **3000 El Camino Real, Building Five, Third Floor, Palo Alto, CA 94306, USA** (the "Assignee").

1) For good and valuable consideration, the receipt of which is hereby acknowledged, Assignor hereby sells, assigns and transfers to Assignee and the successors, assigns, and legal representatives of Assignee, all of its right, title and interest in and to (i) the invention or inventions described in US patent application **15/281793** filed **9/30/2016** entitled **Method for detecting small molecule analytes using magnetoresistant sensors** (the "Application") naming Assignor as an inventor, (ii) any and all patent applications (whether provisional or non-provisional) relating to said invention(s), including all continuations, continuations-in-part, divisions, substitutes, reissues or renewals thereof, in any and all countries, (iii) any and all patents relating to such invention(s) in any and all countries that may be granted on any such application(s), including all reissues or extensions of any such patents and (iv) any and all domestic and foreign rights of priority resulting from the filing of the Application.

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Assignor has executed this Assignment as of the Effective Date of **September 30, 2016**.

Signature: _____

Assignor: **Jung-Rok Lee**



Lumen Ref.: S15-224/US
PID: 21897 IID: 4728