

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4407648

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
PU ZHOU	02/25/2016
YIDONG M. ZHU	02/25/2016
BAIGUI BIAN	02/25/2016
ERIK BULMAN	02/25/2016
SAM SOK	02/25/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	EDWARDS LIFESCIENCES CORPORATION
<b>Street Address:</b>	ONE EDWARDS WAY
<b>City:</b>	IRVINE
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	92614
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15260192
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>	
<b>Email:</b>	RAQUEL_BRANSON@EDWARDS.COM
<b>Correspondent Name:</b>	EDWARDS LIFESCIENCES CORPORATION
<b>Address Line 1:</b>	ONE EDWARDS WAY
<b>Address Line 2:</b>	C/O LEGAL DEPARTMENT
<b>Address Line 4:</b>	IRVINE, CALIFORNIA 92614
<b>ATTORNEY DOCKET NUMBER:</b>	THVDL-8057US02
<b>NAME OF SUBMITTER:</b>	ANNEMARIE KAISER, REG. NO. 37,649
<b>SIGNATURE:</b>	/AnneMarie Kaiser/
<b>DATE SIGNED:</b>	05/10/2017
<b>Total Attachments: 4</b>	
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**PATENT**

**REEL: 042327 FRAME: 0681**

Whereas, we have invented certain new and useful improvements entitled:

**PERFUSION BALLOON DESIGN**

☒ for which an application for a United States Letters Patent was filed September 16, 2015,  
as U.S. Application  
Number 62/219607

☐ for which an application for a United States Letters Patent is filed herewith.

Now therefore, in consideration of one dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency whereof are hereby acknowledged, we hereby convey, transfer and assign to Edwards Lifesciences Corporation (hereinafter referred to as "assignee"), a corporation of Delaware, having a principal place of business at One Edwards Way, Irvine, California 92614, its successors, legal representatives and assigns, the entire right, title and interest throughout the world in the above-mentioned invention or improvements, in the above-mentioned application for United States Letters Patent, and any and all other applications for United States Letters Patent and applications in any other countries which we may file, either solely or jointly with others, on said invention or improvements, including any divisional, continuation and continuation-in-part applications, and in any and all Letters Patent of the United States or of any other country which may be obtained on any of said applications, and in any reissue, reexam or extension thereof.

We hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said Edwards Lifesciences Corporation.

We hereby authorize and request the attorneys of record in said application to insert in this Assignment the date and serial number of said application when officially known.

We warrant ourselves to be the owners of the interest herein assigned and to have the right to make this assignment; and further warrant that there are no outstanding prior assignments, licenses, or other rights in the interest herein assigned.

For said consideration we hereby agree, upon the request and at the expense of said assignee, its successors, legal representatives and assigns, to execute any and all divisional, continuation, and C-I-P applications for said invention or improvements, and any necessary oath or supplemental oath or affidavit relating thereto, and any application for the reissue, reexam or extension of any Letters Patent that may be granted upon said application that said assignee, its successors, legal representatives and assigns may deem necessary or expedient. For said consideration we further agree, upon the request of said assignee, its successors, legal representatives and assigns, in the event of said application or any division, continuation, or C-I-P thereof, or Letters Patent issued thereon, or any reexam, reissue or application for the reissue thereof becoming involved in interference, to cooperate to the best of our ability with said assignee, its successors, legal representatives and assigns in the matters of preparing and executing the preliminary statement and giving and producing evidence in support thereof. We further agree to perform, upon such request, any and all affirmative acts to obtain Letters Patent, and vest all rights therein hereby conveyed in said assignee, its successors, legal representatives and assigns whereby said Letters Patent will be held and enjoyed by said assignee, its successors, legal representatives and assigns to the end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made, including the right to enforce said patent and to sue for and recover damages and all other remedies arising out of any and all past, present and future infringement or violation of said Letters Patent, and for said considerations we hereby also assign to said assignee, its successors, legal representatives and assigns the entire rights, title and interest in said invention or improvements for any and all foreign

countries and the right of priority for patent and utility model applications in all countries arising under any applicable international convention for the protection of industrial property and/or any internal priority legislation of such countries, and we further agree upon the request of said assignee, its successors, legal representatives and assigns to execute any and all documents that shall be required to be executed in connection with any and all applications for foreign Letters Patent therefor, including the prosecution thereof, and to execute any and all documents necessary to invest title in said foreign applications and patents in said assignee.

Dated: 02/25/2016

Signature: \_\_\_\_\_

Typed Name: Pu Zhou  
Irvine, California

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of CA, County of Orange

On February 25, 2016 before me  
Shae M. Rivera, Notary Public,  
personally appeared  
Pu Zhou,

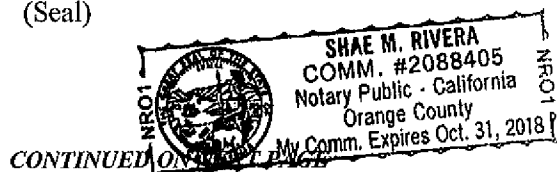
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Shae M. Rivera  
Signature of Notary

(Seal)

Dated: 02/25/2016

Signature: \_\_\_\_\_

Typed Name: Yidong M. Zhu  
Irvine, California

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personally appeared  
Yidong M. Zhu,

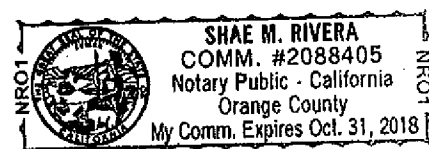
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or entity upon behalf of which the person(s) acted, executed the instrument.

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WITNESS my hand and official seal.

Shae M. Rivera  
Signature of Notary

(Seal)



Dated: 02/25/16Signature: *Baigui Bian*Typed Name: Baigui Bian  
Irvine, California

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personally appeared

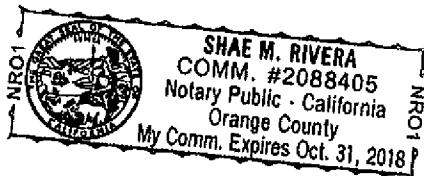
Baigui Bian,  
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or entity upon behalf of which the person(s) acted, executed the instrument.

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WITNESS my hand and official seal.

*Shae M. Rivera*  
Signature of Notary

(Seal)



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Dated: 02/25/16Signature: *Erik Bulman*Typed Name: Erik Bulman  
Lake Forest, California

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State of CA, County of OrangeOn February 25, 2016 before me  
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personally appeared

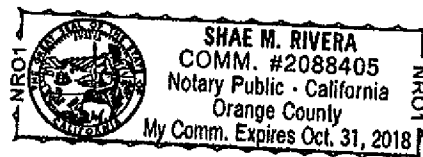
Erik Bulman,  
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

*Shae M. Rivera*  
Signature of Notary

(Seal)



Dated: 02/25/2016

Signature: \_\_\_\_\_

Typed Name: Sam Sok  
Santa Ana, California

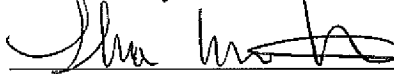
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State of CA, County of OrangeOn February 25th 2016 before me  
Shae M. Rivera, Notary Public,  
personally appeared

Sam Sok,  
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or entity upon behalf of which the person(s) acted, executed the instrument.

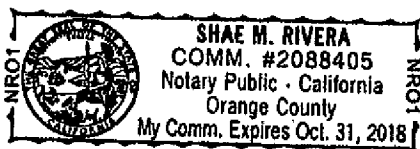
I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Signature of Notary

(Seal)



Dated: \_\_\_\_\_

Signature: \_\_\_\_\_

Typed Name: \_\_\_\_\_

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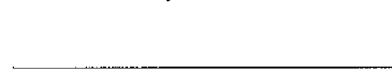
State of \_\_\_\_\_, County of \_\_\_\_\_

On \_\_\_\_\_ before me  
\_\_\_\_\_, Notary Public,  
personally appeared

\_\_\_\_\_,  
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or entity upon behalf of which the person(s) acted, executed the instrument.

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Signature of Notary

(Seal)