505320172 02/08/2019

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JESSICA GUTTENBERG	08/12/2015
DA-YU CHANG	08/05/2015
DERRICK JOHNSON	08/10/2015
BRIAN S. CONKLIN	07/30/2015
QINGGANG ZENG	08/27/2015
MYRON HOWANEC JR.	08/04/2015
GRACE M. KIM	08/04/2015

RECEIVING PARTY DATA

Name:	EDWARDS LIFESCIENCES CORPORATION
Street Address:	ONE EDWARDS WAY
City:	IRVINE
State/Country:	CALIFORNIA
Postal Code:	92614

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	16270849	

CORRESPONDENCE DATA

Fax Number:

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.

Email: Monique_LeSadahiro@edwards.com

Correspondent Name: EDWARDS LIFESCIENCES CORPORATION

Address Line 1: ONE EDWARDS WAY

Address Line 2: LEGAL DEPARTMENT

Address Line 4: IRVINE, CALIFORNIA 92614

ATTORNEY DOCKET NUMBER:	8001US05
NAME OF SUBMITTER:	MONIQUE LE SADAHIRO
SIGNATURE:	/Monique Le Sadahiro/
DATE SIGNED:	02/08/2019

PATENT REEL: 048276 FRAME: 0150

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Total Attachments: 5

source=8001US05_Signed Assignment (from parent)#page1.tif source=8001US05_Signed Assignment (from parent)#page2.tif source=8001US05_Signed Assignment (from parent)#page3.tif source=8001US05_Signed Assignment (from parent)#page4.tif source=8001US05_Signed Assignment (from parent)#page5.tif

PATENT REEL: 048276 FRAME: 0151 Whereas, we have invented certain new and useful improvements entitled:

SURGICAL HEART VALVES IDENTIFIABLE POST-IMPLANT

X	for which an application for a United States Letters Patent was filed on as U.S. Application Number	June 19, 2015	 . '
	for which an application for a United States Letters Patent is filed here	with.	
	THE PROPERTY OF THE PROPERTY O	iai.i.	

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 assignce, its successors, legal representatives and assigns whereby said Letters Patent will be held and enjoyed by said assignce, 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: 2015 Signature:

Typed Name:

Jessica Guttenberg Irvine, California Dated: Aug 5, 2015
Signature:

Da-H Clan

Typed Name: Da-Yu Chang (Irvine, California

State of CA , County of ORANDE

On Autuit 12, 2015 before me ELLES COR 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.

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

EILEEN COR Commission # 2011423 Notary Public - California Orange County My Comm. Expires Mar 11, 2017

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State of CA . County of OKANINE

On Autoust 5, 2015 before me ELLEEN COR 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.

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)



Docket No.: HVTSV-8001US02

Dated: 9-10-

Typed Name:

Derlick Johnson Orange, California

State of CA County of OKAWINE

On Auwir 10, 2015 before me ELLE & COR 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.

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)

EILEEN COR Commission # 2011423 Notery Public - Celifornis Orange County My Comm. Expires Mar 11, 201 Dated: 7-30-15

Signature:

Typed Name:

Brian S. Conklin Orange, California

State of CA County of OCANGE

On Joly 30, 2015 before me ELEEN COR Notary Public, personally appeared

BRIANS. CONKLIN,
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)

EILEEN COR Commission # 2011423 Notary Public - California Orange County My Comm. Expires Mar 11, 2017

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Page 4

Dated: \$\frac{1}{27}/\\$
Signature:

Typed Name: Qinggang Zeng
Aliso Viejo, California

On Aus A 27 ZOS before me 200 Notary Public, personally appeared Quasic State of the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument and

evidence to be the person(s) whose name(s) is/ard 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

(Scal)

SH/E M, RIVERA
COMM, W2088405
Notary Public - California
Orange County
My Comm. Explires Oct. 31, 2018

CONTINUED ON NEXT PAGE

Dated: A-9-4, 20/5
Signature: Myron Howanec, Jr.
Corona, California

State of <u>CA</u> County of <u>OPAJOE</u>

On <u>AULUST U, LOIS</u> before me <u>EILEEN COR</u>, Notary Public, personally appeared

MYPON HOWANEC SR, who proved to me on the basis of satisfactory

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

(Scal)

FILEEN COM
Commission # 2011423
Notary Public - California
Grange County
Ny Comm. Expires Mar 11, 2017

Dated: Dated: Signature: Signature: Typed Name: Grace M. Kim Typed Name: Seal Beach, California State of <u>CA</u>, County of <u>ORANG</u> State of _____, County of _____ On _______before me ______, Notary Public, EILEEN COR , Notary Public, personally appeared personally appeared GLACE M. Kim who proved to me on the basis of satisfactory who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and subscribed to the within instrument and acknowledged to me that he/she/they executed the acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument that by his/her/their signature(s) on the instrument the person(s), or entity upon behalf of which the the person(s), or entity upon behalf of which the person(s) acted, executed the instrument. person(s) acted, executed the instrument. I certify under PENALTY OF PERJURY under I certify under PENALTY OF PERJURY under the laws of the State of California that the the laws of the State of California that the foregoing paragraph is true and correct. foregoing paragraph is true and correct. WITNESS my hand and official seal. WITNESS my hand and official seal. Signature of Notary Signature of Notary (Seal) (Seal)

EILLEN COR
Commission # 2011423
Notary Public - California
Orange County
My Comm. Expires Mar 11, 2017