

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4132693

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
KENNETH A. JACOBSON	08/30/2012
BHALCHANDRA V. JOSHI	08/29/2012
THATIKONDA SANTHOSH KUMAR	09/08/2012
RECEIVING PARTY DATA	
Name:	THE UNITED STATES OF AMERICA,AS REPRESENTED BY THE SECRETARY,DEPARTMENT OF HEALTH AND HUMAN SERVICES
Street Address:	OFFICE OF TECHNOLOGY TRANSFER, NATIONAL INSTITUTES OF HEALTH 6011 EXECUTIVE BOULEVARD, SUITE 325
Internal Address:	MSC 7660
City:	BETHESDA
State/Country:	MARYLAND
Postal Code:	20892-7660
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15046630
CORRESPONDENCE DATA	
Fax Number:	(860)286-0115
<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:	8602862929
Email:	USPTOPATENTMAIL@CANTORCOLBURN.COM,JBOYA@CANTORCOLBURN.COM
Correspondent Name:	CANTOR COLBURN LLP
Address Line 1:	20 CHURCH ST., 22ND FLOOR
Address Line 4:	HARTFORD, CONNECTICUT 06103
ATTORNEY DOCKET NUMBER:	UCT0170USD2
NAME OF SUBMITTER:	KAREN A. LECUYER
SIGNATURE:	/Karen A. LeCuyer/
DATE SIGNED:	11/08/2016
This document serves as an Oath/Declaration (37 CFR 1.63).	
Total Attachments: 9	

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**ASSIGNMENT FOR NIH/FDA INVENTIONS
(NIH OR FDA CO-INVENTORS ONLY)**

WHEREAS, I/we, **Kenneth A. Jacobson** of 10 Cambridge Crossing, Avon, Connecticut 06001 and **Bhalchandra V. Joshi** of 108 Glen View Drive, Madison, Alabama 35758, and **Thatikonda Santhosh Kumar** of 873 Clopper Rd., Apt. # B4, Gaithersburg, MD 20878, employees of the National Institutes of Health, a component of the United States Department of Health and Human Services having an address at the Office of Technology Transfer, National Institutes of Health, 6011 Executive Boulevard, Suite 325, MSC 7660, Bethesda, MD 20892-7660 ("NIH Inventors"), and

Bruce Liang of 10 Cambridge Crossing, Avon, CT 06001, an employee of the University of Connecticut, USA, having an address at 263 Farmington Avenue- Farmington, Connecticut 06030-6207;

have made certain inventions as described and claimed in the U.S. Patent Application having United States Serial Number 13/031,805, filed February 22, 2011, which claims priority to United States Provisional Application 61/306,687, filed February 22, 2010, and which is entitled "**COMPOSITIONS AND METHODS TO TREAT CARDIAC DISEASES**" ("U.S. Application") and;

WHEREAS, I/we are the co-applicant(s) named in the above-identified U.S. Application; and

WHEREAS, the inventions described and claimed therein were made under conditions such as to entitle **THE UNITED STATES OF AMERICA**, as represented by the Secretary, Department of Health and Human Services [hereinafter **THE GOVERNMENT**] under Executive Order 10096 and its amendments, 35 USC §§200-201, §§206-207, and §210 and 37 CFR Part 501 to the entire right, title, and interest in such inventions; and

WHEREAS, **THE GOVERNMENT** is desirous of acquiring all domestic and foreign right, title, and interest in the inventions described and claimed in the U.S. Application; and

NOW, THEREFORE, the NIH Inventors having the legal obligation to assign my/our right, title and interest in the inventions described and claimed in the above-identified patent application to **THE GOVERNMENT**, having a place of business at the Office of Technology Transfer, National Institutes of Health, 6011 Executive Boulevard, Suite 325, MSC 7660, Bethesda, MD 20892-7660 and for consideration, the receipt and sufficiency of which are hereby acknowledged, I/we hereby assign and transfer to **THE GOVERNMENT**:

the entire right, title, and interest in and to any and all inventions described and claimed in said U.S. Application and any and all Letters Patent which may be granted thereon, and any and all continuations, divisions, reissues or extensions thereof; and

all rights to claim priority on the basis of said U.S. Application including but not limited to applications filed through the provisions of the Patent Cooperation Treaty ("PCT Applications"); and

all applications for Letters Patent that may be filed for any and all inventions described and claimed in said U.S. Application that may be filed in any foreign country and all Letters Patents that may be granted thereon in any foreign country and all extensions, renewals, and reissues thereof; and

any and all such Letters Patents as may be granted in the United States or any foreign country to be held by **THE GOVERNMENT** to the end of the term for which the same would have been held by the inventors had this assignment not been made.

I/we further agree to make, execute, and deliver to **THE GOVERNMENT**, upon request, any and all papers, documents, affidavits, or other instruments that may be necessary in the prosecution of any application or applications for improvements or reissues of Letters Patent, and to assist **THE GOVERNMENT** in every way as may be requested in protecting said invention.

IN WITNESS WHEREOF we subscribe our hands and seals on the dates shown below:

Inventor 1:	
<u>August 30, 2012</u> Date	<u>Kenneth A. Jacobson</u> Kenneth A. Jacobson
County of <u>Howard</u>	Ss:
State of <u>Maryland</u>	
Subscribed and sworn to before me this <u>30</u> day of <u>August</u> , <u>2012</u> .	
[Seal]	<u>Haddy D. Jagne</u> Notary Public for <u>Howard County, Maryland</u> My Commission Expires <u>9/13/2012</u>

**ASSIGNMENT FOR NIH/FDA INVENTIONS
(NIH OR FDA CO-INVENTORS ONLY)**

WHEREAS, I/we, **Kenneth A. Jacobson** of 10 Cambridge Crossing, Avon, Connecticut 06001 and **Bhalchandra V. Joshi** of 108 Glen View Drive, Madison, Alabama 35758, and **Thatikonda Santhosh Kumar** of 873 Clopper Rd., Apt. # B4, Gaithersburg, MD 20878, employees of the National Institutes of Health, a component of the United States Department of Health and Human Services having an address at the Office of Technology Transfer, National Institutes of Health, 6011 Executive Boulevard, Suite 325, MSC 7660, Bethesda, MD 20892-7660 ("NIH Inventors"), and

Bruce Liang of 10 Cambridge Crossing, Avon, CT 06001, an employee of the University of Connecticut, USA, having an address at 263 Farmington Avenue- Farmington, Connecticut 06030-6207;

have made certain inventions as described and claimed in the U.S. Patent Application having United States Serial Number 13/031,806, filed February 22, 2011, which claims priority to United States Provisional Application 61/306,687, filed February 22, 2010, and which is entitled "**COMPOSITIONS AND METHODS TO TREAT CARDIAC DISEASES**" ("U.S. Application") and;

WHEREAS, I/we are the co-applicant(s) named in the above-identified U.S. Application; and

WHEREAS, the inventions described and claimed therein were made under conditions such as to entitle **THE UNITED STATES OF AMERICA, as represented by the Secretary, Department of Health and Human Services** [hereinafter **THE GOVERNMENT**] under Executive Order 10096 and its amendments, 35 USC §§200-201, §§206-207, and §210 and 37 CFR Part 501 to the entire right, title, and interest in such inventions; and

WHEREAS, THE GOVERNMENT is desirous of acquiring all domestic and foreign right, title, and interest in the inventions described and claimed in the U.S. Application; and

NOW, THEREFORE, the NIH Inventors having the legal obligation to assign my/our right, title and interest in the inventions described and claimed in the above-identified patent application to **THE GOVERNMENT**, having a place of business at the Office of Technology Transfer, National Institutes of Health, 6011 Executive Boulevard, Suite 325, MSC 7660, Bethesda, MD 20892-7660 and for consideration, the receipt and sufficiency of which are hereby acknowledged, I/we hereby assign and transfer to **THE GOVERNMENT**:

the entire right, title, and interest in and to any and all inventions described and claimed in said U.S. Application and any and all Letters Patent which may be granted thereon, and any and all continuations, divisions, reissues or extensions thereof; and

all rights to claim priority on the basis of said U.S. Application including but not limited to applications filed through the provisions of the Patent Cooperation Treaty ("PCT Applications"); and

all applications for Letters Patent that may be filed for any and all inventions described and claimed in said U.S. Application that may be filed in any foreign country and all Letters Patents that may be granted thereon in any foreign country and all extensions, renewals, and reissues thereof; and

any and all such Letters Patents as may be granted in the United States or any foreign country to be held by **THE GOVERNMENT** to the end of the term for which the same would have been held by the inventors had this assignment not been made.

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IN WITNESS WHEREOF we subscribe our hands and seals on the dates shown below:

Inventor 1:	
_____	_____
Date	Kenneth A. Jacobson
County of _____	Ss: _____
State of _____	
Subscribed and sworn to before me this ____ day of _____, ____.	
[Seal]	_____
	Notary Public for _____
	My Commission Expires: _____

Inventor 2:

08/29/2012 [Signature]
Date Bhalchandra V. Joshi

County of Madison Ss:
State of Alabama

Subscribed and sworn to before me this 29 day of August, 2012

[Seal] [Signature]
Notary Public for Alabama
My Commission Expires: PAULETTE TYLER
Notary Public, Alabama State At Large
My Commission Expires December 20, 2014

Inventor 3:

Date Thatikonda Santhosh Kumar

County of _____ Ss:
State of _____

Subscribed and sworn to before me this ____ day of _____, ____.

[Seal] _____
Notary Public for _____
My Commission Expires: _____

**ASSIGNMENT FOR NIH/FDA INVENTIONS
(NIH OR FDA CO-INVENTORS ONLY)**

10 WESTGATE DR
APT #106
Woburn MA
ST 10/18/12
WHEREAS, I/we, **Kenneth A. Jacobson** of 10 Cambridge Crossing, Avon, Connecticut 06001 and **Bhalchandra V. Joshi** of 108 Glen View Drive, Madison, Alabama 35758, and **Thatikonda Santhosh Kumar** of 873 Glopper Rd., Apt. # B4, Gaithersburg, MD 20878, employees of the National Institutes of Health, a component of the United States Department of Health and Human Services having an address at the Office of Technology Transfer, National Institutes of Health, 6011 Executive Boulevard, Suite 325, MSC 7660, Bethesda, MD 20892-7660 ("NIH Inventors"), and

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IN WITNESS WHEREOF we subscribe our hands and seals on the dates shown below:

Inventor 1:	
_____	_____
Date	Kenneth A. Jacobson
County of _____ Ss:	
State of _____	
Subscribed and sworn to before me this ____ day of _____, ____.	
[Seal]	_____
	Notary Public for _____
	My Commission Expires: _____

Inventor 2:

Date Bhalchandra V. Joshi

County of _____ Ss: _____

State of _____

Subscribed and sworn to before me this ____ day of _____, ____.

[Seal] _____

Notary Public for _____

My Commission Expires: _____

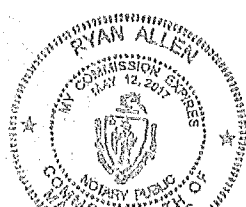
Inventor 3:

09/08/12
Date Thalikonda Santhosh Kumar

County of USA (Middlesex) Ss: _____

State of MA

Subscribed and sworn to before me this 8 day of September, 2012.

[Seal]  _____

Notary Public for Massachusetts

My Commission Expires: May 12, 2017