

<b>PATENT ASSIGNMENT COVER SHEET</b>
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EPAS ID: PAT3723163

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JEFFREY T. BORENSTEIN	01/22/2016
ERNEST KIM	01/05/2016
JOSEPH L. CHAREST	01/05/2016
ALLA EPSHTEYN	02/02/2016
ABIGAIL SPENCER	01/21/2016
JAMES TRUSLOW	01/11/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	THE CHARLES STARK DRAPER LABORATORY, INC.
<b>Street Address:</b>	555 TECHNOLOGY SQUARE
<b>City:</b>	CAMBRIDGE
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	02139
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14694628
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(617)342-4001
<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>Phone:</b>	617-342-4000
<b>Email:</b>	cmeyer@foley.com, ipdocketing@foley.com
<b>Correspondent Name:</b>	EDWARD A. GORDON
<b>Address Line 1:</b>	111 HUNTINGTON AVENUE
<b>Address Line 2:</b>	SUITE 2500
<b>Address Line 4:</b>	BOSTON, MASSACHUSETTS 02199
<b>ATTORNEY DOCKET NUMBER:</b>	102590-0475
<b>NAME OF SUBMITTER:</b>	CASSANDRA MEYER FOR EDWARD A. GORDON
<b>SIGNATURE:</b>	/Cassandra Meyer for Edward A. Gordon/
<b>DATE SIGNED:</b>	02/02/2016

**Total Attachments: 8**

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**ASSIGNMENT - WORLDWIDE**

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor (hereinafter referred to singly and collectively as "ASSIGNOR") has sold, assigned, and transferred, and by these presents hereby sells, assigns, and transfers, unto

The Charles Stark Draper Laboratory, Inc.  
555 Technology Square  
Cambridge, Massachusetts 02139

(hereinafter referred to as "ASSIGNEE") its successors and assigns, the full and exclusive right, title and interest for the United States, its territories and possessions, and all foreign countries in and to this invention relating to

**BLOOD OXYGENATOR**

as set forth in this United States Patent Application

*check one*     executed concurrently herewith,  
                   executed on \_\_\_\_\_  
 Serial No. 14/694,628    Filed 4/23/2015

as well as in and to (a) all improvements and modifications of the above-identified invention or inventions, (b) the above-identified application and all other applications for Letters Patent of the United States and countries foreign thereto for above-identified invention or inventions and all improvements and modifications thereof, (c) all Letters Patent which may issue from said applications in the United States and countries foreign thereto, (d) all divisions, continuations, reissues, and extensions of said applications and Letters Patent, and (e) the right to claim for any of said applications the full benefits and priority rights under the Patent Cooperation Treaty, the Paris Convention and any other international agreement; such right, title, and interest to be held and enjoyed by ASSIGNEE, its successors and assigns, to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by ASSIGNOR had this Assignment not been made.

ASSIGNOR HEREBY AUTHORIZES ASSIGNEE to file patent applications in any or all countries on the above-identified invention or inventions in the name of the undersigned or in the name of ASSIGNEE or otherwise as ASSIGNEE may deem advisable under the International Convention or otherwise.

ASSIGNOR HEREBY AUTHORIZES AND REQUESTS the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE as assignee of the entire interest, for the sole use and benefit of ASSIGNEE, its successors and assigns.

ASSIGNOR HEREBY AGREES (a) to communicate to ASSIGNEE, its successors and assigns, or their representative or agents, all facts and information known or available to ASSIGNOR respecting said invention or inventions, improvements, and modifications including evidence for interference, reexamination, reissue, opposition, revocation, extension, or infringement purposes or other legal, judicial, or administrative proceedings, whenever requested by ASSIGNEE; (b) to testify in person or by affidavit as required by ASSIGNEE, its successors and assigns, in any such proceeding in the United States or a country foreign thereto; (c) to execute and deliver, upon request by ASSIGNEE, all lawful papers including, but not limited to, original, divisional, continuation, and reissue applications, renewals, assignments, powers of attorney, oaths, affidavits, and declarations, depositions; and (d) to provide all reasonable assistance to ASSIGNEE, its successors and assigns, in obtaining and enforcing proper title in and protection for said invention or inventions, improvements, and modifications under the intellectual property laws of the United States and countries foreign thereto.

ASSIGNOR HEREBY REPRESENTS AND WARRANTS that ASSIGNOR has the full and unencumbered right to sell, assign, and transfer the interests sold, assigned, and transferred herein, and that ASSIGNOR has not executed and will not execute any document or instrument in conflict herewith.

ASSIGNOR HEREBY GRANTS to the law firm of **Foley & Lardner LLP** the power and authority to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

ASSIGNOR UNDERSTANDS AND AGREES that the attorneys and agents of the law firm of **Foley & Lardner LLP** do not personally represent ASSIGNOR OR ASSIGNOR's legal interests, but instead represent the interests of ASSIGNEE; since said attorneys and agents cannot provide legal advice to ASSIGNOR with respect to this Assignment, ASSIGNOR acknowledges its right to seek its own independent legal counsel.

Executed this 22 day of January, 2016.

[Signature]  
JEFFREY T. BORENSTEIN

State of Massachusetts  
County of Middlesex

On January 22, 2016 before me, Linda Najjar  
*Date Here insert Name and Title of the Officer (Notary Public)*

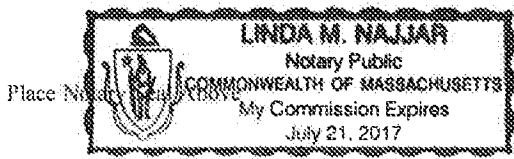
personally appeared JEFFREY T. BORENSTEIN  
Name(s) of Signer(s)

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/their 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 the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature [Signature]  
Signature of Notary Public



Executed this 5<sup>th</sup> day of January, 2016.



ERNEST KIM

State of Massachusetts  
County of Middlesex

On January 5, 2016, before me, Linda M. Najjar  
*Date Here insert Name and Title of the Officer (Notary Public)*

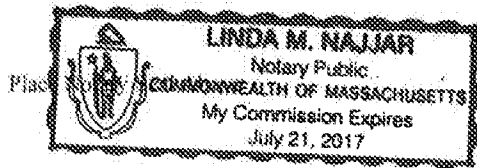
personally appeared ERNEST KIM  
Name(s) of Signer(s)

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/their 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 the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Linda M. Najjar  
Signature of Notary Public



Executed this 5 day of JANUARY, 2016.

  
\_\_\_\_\_  
JOSEPH L. CHAREST

State of Massachusetts  
County of Middlesex

On January 5, 2016, before me, Linda M. Najjar  
*Date Here insert Name and Title of the Officer (Notary Public)*

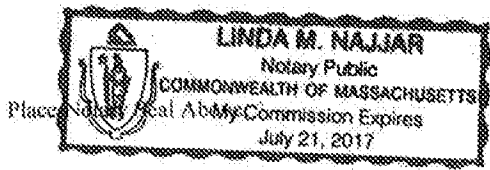
personally appeared JOSEPH L. CHAREST  
Name(s) of Signer(s)

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/their 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 the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Linda M. Najjar  
Signature of Notary Public



Executed this 2 day of Feb, 2016.

ALLA EPSHTEYN  
ALLA EPSHTEYN

State of Massachusetts  
County of Middlesex

On February 2, 2016, before me, Linda M. Najjar  
*Date Here insert Name and Title of the Officer (Notary Public)*

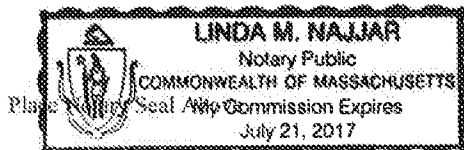
personally appeared ALLA EPSHTEYN  
Name(s) of Signer(s)

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/their 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 the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Linda M. Najjar  
Signature of Notary Public





Executed this 21 day of January, 2016.

Abigail Spencer  
ABIGAIL SPENCER

State of Massachusetts  
County of Middlesex

On January 21, 2016 before me, Linda M Najjar  
*Date* *Here insert Name and Title of the Officer (Notary Public)*

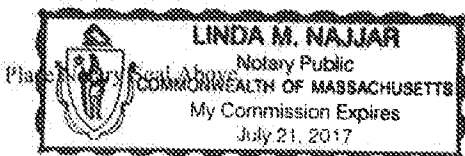
personally appeared ABIGAIL SPENCER  
Name(s) of Signer(s)

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/their 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 the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Linda M. Najjar  
Signature of Notary Public



Executed this 11 day of JANUARY, 2016.

[Signature]  
JAMES TRUSLOW

State of Massachusetts  
County of Middlesex

On January 11, 2016, before me, Linda M. Najjar  
*Date Here insert Name and Title of the Officer (Notary Public)*

personally appeared JAMES TRUSLOW  
Name(s) of Signer(s)

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/their 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 the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature [Signature]  
Signature of Notary Public

