505622426 08/14/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5669228

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ROBERT G. SVITEK	09/09/2016
JERRY STOKES	09/09/2016
PATRICK A. KELLY	09/21/2016
ANTHONY MCCOPPIN	09/09/2016
PATRICK A. MURAWSKI	09/09/2016
TRAVIS DESCHAMPS	09/09/2016
PATRICK E. LUTZ	06/22/2017
JOHN C. MAROUS, III	09/09/2016

RECEIVING PARTY DATA

Name:	CARDIACASSIST, INC.
Street Address:	620 ALPHA DRIVE
City:	PITTSBURGH
State/Country:	PENNSYLVANIA
Postal Code:	15238

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16536069

CORRESPONDENCE DATA

Fax Number: (412)471-4094

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.

Phone: 412-471-8815

Email: assignments@webblaw.com

Correspondent Name: THE WEBB LAW FIRM

Address Line 1: ONE GATEWAY CENTER

Address Line 2:420 FT. DUQUESNE BLVD, SUITE 1200Address Line 4:PITTSBURGH, PENNSYLVANIA 15222

ATTORNEY DOCKET NUMBER:	6333-1604124
NAME OF SUBMITTER:	CHRISTIAN E. SCHUSTER
SIGNATURE:	/Christian E. Schuster/

505622426 PATENT REEL: 050056 FRAME: 0893

DATE SIGNED:	08/14/2019
Total Attachments: 17	
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PATENT REEL: 050056 FRAME: 0894

	DOMESTIC	
Application No.	PCT/US2016/025264	
Attorney Doc	cet No6333-1511025_	

<u>ASSIGNMENT</u>
WHEREAS, as a below named inventor, I have invented certain new and useful improvements in
CANNULA SYSTEM WITH STERILE CONNECTOR, BLOOD PUMP, AND PATIENT HARNESS
(Invention Title)
X for which a United States Provisional Patent application was filed on 03/31/2015 (mm/dd/yyyy) and bears Application Number 62/140,778 (hereinafter "said application"). AND/OR
for which I have this day executed an application for a United States Patent (hereinafter "said application"). AND/OR
for which an application for a United States Patent was filed on (mm/dd/yyyy) and bears Application Number (hereinafter "said application"). AND/OR
[X] for which an international patent application was filed under the Patent Cooperation Treaty on 03/31/2016 (mm/dd/yyyy), bearing Application No. PCT/US2016/025264 (hereinafter "said application").
AND, WHEREAS, Cardiac Assist, Inc., a corporation of Delaware, having a place of business at 240 Alpha Drive, Pittsburgh, Pennsylvania, 15238, hereinafter called the "assignee", is desirous of acquiring the entire right, title, and interest in and to said application and the inventions and improvements therein disclosed.
NOW, THEREFORE, for good and valuable consideration paid to me by said assignee, the receipt of which is hereby acknowledged, I as the inventor or as one of the inventors, hereinafter the assignor(s), do hereby assign, sell and transfer unto said assignee the full and exclusive right, title and interest in and to said application and the inventions and improvements therein disclosed for the United States and all foreign countries and any Letters Patent which may issue therefor in the United States and all foreign countries and all divisions, reissues, continuations, continuations-in-part, renewals and/or extensions thereof. Such assignment extends to the full ends of the terms of these applications and patents as fully and entirely as the same would have been held and enjoyed by me had this Assignment not been made.
I hereby authorize and request any attorney associated with The Webb Law Firm, Customer No. 28289, to insert here in parentheses (Application No, filed) the filing date and application number of said application when known.
I covenant that I am the lawful owner(s) of said application, inventions and improvements, that the same are unencumbered, that no license has been granted to make, use or vend the said inventions or improvements or any of them, and that I have the full right to make this Assignment.

Page 1 of 6

	DOMESTIC	DOMESTIC	
Application No.	PCT/US2016/025264		
Attorney Dock	tet No. 6333-1511025		

And for the consideration aforesaid, I agree individually and, if applicable, jointly that I will communicate to said assignee or the representatives thereof any facts known to me respecting said inventions and improvements, and will, upon request but without expense to me, testify in any legal proceedings, sign all lawful papers, execute all divisional, reissue, continuation, continuation-in-part, renewal and/or extension applications, make all rightful oaths, and generally do all other and further lawful acts deemed necessary or expedient by said assignee or by counsel for said assignee to assist or enable said assignee to obtain and enforce full benefits from the rights and interests herein assigned. This Assignment shall be binding upon my heirs, executors, administrators and/or assigns, and shall inure to the benefit of the heirs, executors, administrators, successors and/or assigns, as the case may be, of said assignee.

FULL NAME OF ASSIGNOR: Robert G. Svitek	RESIDENCE: Freeport, PA
EXECUTED this 9 day of September,	2016 Robert D. Sirte
STATE of Pennsylvania) COUNTY of Alleyky)	SIGNATURE
On this day of Septente, in the year a notary pv ublic, personally appeared	r 20/6, before me Thomas Wester 6 cyl, YEAR Robert G. Svitek,
	NAME OF DOCUMENT SIGNER the person whose name is subscribed to this instrument,
I certify under Penalty of Perjury under the laws that the foregoing paragraph is true and correct.	
	Witness my hand and official seal.
COMMONWEALTH OF PENNSYLVA NOTARIAL SEAL Thomas Walfenbaugh, Notary Pul O'Hara Twp., Allogheny County My Gommission Expires March 15, MEMBER, PENNSYLVANIA ASSOCIATION OF NO	NOTARY PUBLIC S E

Checked Box indicates 4 additional page(s) for inventor signatures.

	DOMESTIC Application No. PCT/US2016/025264
	Attorney Docket No. 6333-1511025
2. FULL NAME OF ASSIGNOR: Jerry Stokes	RESIDENCE: Saryer, PA
EXECUTED this 9 day of Sylver , 2	
COUNTY of Allaylon (Signature
COUNTY of Allaylon)	
On this 9 day of September, in the year a notary public, personally appeared	Jol6, before me Thurs W. Tubauk, NOTARY PUBLIC NAME JETTY STOKES NAME OF DOCUMENT SIGNER.
	NAME OF DOCUMENT SIGNER TO person whose name is subscribed to this instrument,
I certify under Penalty of Perjury under the laws o that the foregoing paragraph is true and correct.	
COMMONWEALTH OF PENNSYLY NOTARIAL SEAL Thomas Welfenbaugh, Notary P O'Hara Two,, Allegheny Coun My Commission Expires March, 15 MEMBER, PENNSYLVANIA ASSOCIATION OF 1	nublic NOTARY PUBLIC S S S S S S S S S S S S S S S S S S S
3. FULL NAME OF ASSIGNOR: Patrick A. Kelly	RESIDENCE: North Huntingdon, PA
EXECUTED thisday of, 2	016
TATE of)	SIGNATURE
COUNTY of	
On thisday of, in the year a notary public, personally appeared	YEAR NOTARY PUBLIC NAME: Patrick A. Kelly
proved on the basis of satisfactory evidence to be th and acknowledged he/she executed the same.	NAME OF DOCUMENT SIGNER e person whose name is subscribed to this instrument,
I certify under Penalty of Perjury under the laws of that the foregoing paragraph is true and correct.	
	Witness my hand and official seal.
	Notary Public s e a a l

Page 3 of 6

		Application No. PCI	DOMESTIC <u>US2016/025264/</u>
÷	•	Attorney Docket No.	. 6333-1511025
2. FULL NAME OF ASSIGNOR: Jerry Stokes	RESI	DENCE: Sarver, PA	
EXECUTED thisday of	, 2016	Garot, 171	
		SIGNATI	URR
TATE of)			
COUNTY of)			
On this day of, in the a notary public, personally appeared	ie year	, before me NOTARY I Jerry Stokes NAME OF DOCUMENT SIGNER	PUBLIC NAME
proved on the basis of satisfactory evidence t and acknowledged he/she executed the same		on whose name is subscribed	to this instrument,
I certify under Penalty of Perjury under the	laws of the S	tate of	
that the foregoing paragraph is true and corr	ect.	Witness my hand	d and official seal.
		NOTARY PU	BLIC
			E A L
**************************************	**********	***************	****
3. FULL NAME OF ASSIGNOR: Patrick A. Kelly	KESII	DENCE: North Huntingdon, PA	
EXECUTED this 21 st day of Septemb	ER., 2016	Do A.	Cel
TATE of <i>Pennsylvais</i>		SIGNATU	RE
OUNTY of Allay Leny)		·	·
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a notary public, personally appeared		Patrick A, Kelly NAME OF DOCUMENT SIGNER	*
proved on the basis of satisfactory evidence to and acknowledged he/she executed the same	·		o this instrument,
I certify under Penalty of Perjury under the I that the foregoing paragraph is true and corre	aws of the St		1 - 00: -1 -11
AOMIONA/THE OF PENNINA	I VA KII A	Witness my hand	and official seal.
COMMONWEALTH OF PENNSY! NOTARIAL SEAL Thomas Welfenbaugh, Notary I O'Hara Twp., Allegheny Cou	Public nty	NOTARY PUI	S
My Commission Expires March 1			E A

Page 3 of 6

	DOMESTIC Application No. PCT/US2016/025264
	Attorney Docket No. 6333-1511025
4. FULL NAME OF ASSIGNOR: Anthony McCoppin	RESIDENCE: Blawnox, PA
^	2016
Λ	Star anima
STATE of Pensylvente	anurwiole
COUNTY of Alleghens	· ~
DAY MONTH	YEAR NOTARY PUBLIC NAME
a notary public, personally appeared	Anthony McCoppin NAME OF DOCUMENT SIGNER
proved on the basis of satisfactory evidence to be fl and acknowledged he/she executed the same.	he person whose name is subscribed to this instrument,
I certify under Penalty of Perjury under the laws of that the foregoing paragraph is true and correct.	
COMMONWEALTH OF PENNSYLVANA NOTARIAL SEAL Brian ickes, Notary Public O'Hara Twp., Alleghany County My Commission Expires March 28, 2019 MEMBER: PENNSYLVANIA ARESSIATION OF HEYARIES	NOTARY PUBLIC S B A
5. FULL NAME OF ASSIGNOR: Patrick A. Murawski	RESIDENCE: Pittsburgh, PA
EXECUTED this 4TH day of SEPTEMBER , 2	2016
	SIGNATURE .
STATE of PLANSY (UCALE)	GIGNATURE
COUNTY of AMERICA	,
On this 9 day of Seffence, in the year	70/0, 00101.0 V/VC/
a notary public, personally appeared	YBAR NOTARY PUBLIC NAME Patrick A. Murawski NAME OF DOCUMENT SIGNER
proved on the basis of satisfactory evidence to be the and acknowledged he/she executed the same.	te person whose name is subscribed to this instrument,
I certify under Penalty of Perjury under the laws of that the foregoing paragraph is true and correct, COMMONWEALTH OF PENNSYLVANIA NOTARIAL SEAL Brian Ickes, Notary Public O'Hata Twp., Allegheny County My Commission Expires March 25, 2019 MEMBER, PENNSYLVANIA ABBURATION OF NOTARIAB	Witness my hand and official seal. NOTARY PUBLIC S B A

Page 4 of 6

	DOMESTIC Application No. PCT/US2016/025264
	Attorney Docket No. 6333-1511025
the state of the s	RESIDENCE: Pittsburgh, PA
EXECUTED this 9th day of September, 20	
STATE OF HOMES (1804 16)	SIGNATURE
On this day of, in the year, in the year,	10/6, before me Sica IES 1.
a notary public, personally appeared	Travis Deschamps
proved on the basis of satisfactory evidence to be the and acknowledged he/she executed the same.	
I certify under Penalty of Perjury under the laws of that the foregoing paragraph is true and correct.	
COMMONWEALTH OF PENNSYLVANIA NOTARIAL SEAL Brian Ickes, Notary Public O'Hara Twp., Allegheny County My Commission Expires March 28, 2019 MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES	Witness my hand and official seal. NOTARY PUBLIC S E A L
7. FULL NAME OF ASSIGNOR: R Patrick E. Lutz	ESIDENCE: Pittsburgh, PA
EXECUTED thisday of, 201	16
STATE of)	SIGNATURE
COUNTY of)	
On this day of in the year	, before me
a notary public, personally appeared	YEAR NOTARY PUBLIC NAME Patrick E. Lutz
proved on the basis of satisfactory evidence to be the and acknowledged he/she executed the same.	NAME OF DOCUMENT SIGNER person whose name is subscribed to this instrument,
I certify under Penalty of Perjury under the laws of that the foregoing paragraph is true and correct.	ne State of
nime and totoBourie Harabrahitrai and ain abittable	Witness my hand and official seal.
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Page 5 of 6

		DOMESTIC
<u>,</u> A	pplication No	«petsumm_PREGNUM»
Attorney	Docket No «ma	tter_cltcode»-«matter_matcode»
•		•
8. FULL NAME OF ASSIGNOR:	RESIDENCE:	
John C. Marous, III	Pitts	burgh, PA
EXECUTED this 9th day of 5th,	2016	Ochlan in
		SIGNATURE
STATE of [CAASYNOAR]		
COUNTY of Alleghen		
On this 9 day of Syptember, in the year	r <i><u>1016</u>,</i> before n	ne Stra Tellas,
a notary public, personally appeared		Aarous, III ,
proved on the basis of satisfactory evidence to be t		CUMENT SIGNER
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I certify under Penalty of Perjury under the laws of that the foregoing paragraph is true and correct.	or the State of	(CHA) YI VENIC
		Witness my hand and official seal.
COMMONWEALTH OF PENNSYLVAI	''''	
NOTARIAL SEAL Brian Ickes, Notary Public		NOTARY PLBLIC
O'Hara Twp., Allegheny County My Commission Expires March 26, 2019		NOTART FUBLIC S
My Commission Capitos of Noya	TATOR	臣: A.

	DOMESTIC
Application No.	PCT/US2016/025264
Attorney	Docket No. 6333-1511025
Audincy	DUCKCI 110

<u>ASSIGNMENT</u>
WHEREAS, as a below named inventor, I have invented certain new and useful
mprovements in
CANNULA SYSTEM WITH STERILE CONNECTOR, BLOOD PUMP, AND PATIENT HARNESS
(Invention Title)
for which a United States Provisional Patent application was filed on 03/31/2015 (mm/dd/yyyy) and bears Application Number 62/140,778 (hereinafter "said application"). AND/OR
for which I have this day executed an application for a United States Patent (hereinafter "said application"). AND/OR
for which an application for a United States Patent was filed on (mm/dd/yyyy) and bears Application Number (hereinafter "said application"). AND/OR
X for which an international patent application was filed under the Patent Cooperation Treaty on 03/31/2016 (mm/dd/yyyy), bearing Application No. PCT/US2016/025264 (hereinafter "said application").
AND, WHEREAS, Cardiac Assist, Inc., a corporation of Delaware, having a place of business at 240 Alpha Drive, Pittsburgh, Pennsylvania, 15238, hereinafter called the "assignee", s desirous of acquiring the entire right, title, and interest in and to said application and the nventions and improvements therein disclosed.
NOW, THEREFORE, for good and valuable consideration paid to me by said assignee, the receipt of which is hereby acknowledged, I as the inventor or as one of the inventors, hereinafter the assignor(s), do hereby assign, sell and transfer unto said assignee the full and exclusive right, title and interest in and to said application and the inventions and improvements therein disclosed for the United States and all foreign countries and any Letters Patent which may saue therefor in the United States and all foreign countries and all divisions, reissues, continuations, continuations-in-part, renewals and/or extensions thereof. Such assignment extends to the full ends of the terms of these applications and patents as fully and entirely as the same would have been held and enjoyed by me had this Assignment not been made.
I hereby authorize and request any attorney associated with The Webb Law Firm, Customer No. 28289, to insert here in parentheses (Application No, filed) the filing date and application number of said application when known.
I covenant that I am the lawful owner(s) of said application, inventions and mprovements, that the same are unencumbered, that no license has been granted to make, use or vend the said inventions or improvements or any of them, and that I have the full right to make his Assignment.

	DOMESTIC
Application No.	PCT/US2016/025264
Attornev	Docket No. 6333-1511025

And for the consideration aforesaid, I agree individually and, if applicable, jointly that I will communicate to said assignee or the representatives thereof any facts known to me respecting said inventions and improvements, and will, upon request but without expense to me, testify in any legal proceedings, sign all lawful papers, execute all divisional, reissue, continuation, continuation-in-part, renewal and/or extension applications, make all rightful oaths, and generally do all other and further lawful acts deemed necessary or expedient by said assignee or by counsel for said assignee to assist or enable said assignee to obtain and enforce full benefits from the rights and interests herein assigned. This Assignment shall be binding upon my heirs, executors, administrators and/or assigns, and shall inure to the benefit of the heirs, executors, administrators, successors and/or assigns, as the case may be, of said assignee.

1. FULL NAME OF ASSIGNOR: Robert G. Svitek	F	RESIDE	ENCE: Freeport, PA	
EXECUTED thisday of	, 20	17		
STATE of			SIGNATURE	
On this day of MONTH a notary public, personally appeared	ence to be the		, before me NOTARY PUBLIC NAME Robert G. Svitek NAME OF DOCUMENT SIGNER whose name is subscribed to this instrum	_, _, nent,
_	r the laws of t	the Stat	Witness my hand and official s	
			NOTARY PUBLIC	S E A L

Checked Box indicates <u>4</u> additional page(s) for inventor signatures.

	Ap	plication No	D PCT/US2016	OMESTIC 5/025264
	•		ocket No. <u>6333</u>	
2. FULL NAME OF ASSIGNOR:	RESIDE			
Jerry Stokes		Sarver, P	<u>A</u>	
EXECUTED thisday of	, 2017			
COTA TIPLE			SIGNATURE	
STATE of)				
COUNTY of)				
On thisday of, in t	he year	_, before me	NOTARY PUBLIC NAM	, E
		NAME OF DOCUMENT S	IGNER	··
proved on the basis of satisfactory evidence and acknowledged he/she executed the sam	to be the person	whose name is su	bscribed to this in	strument,
I certify under Penalty of Perjury under the	laws of the Stat	e of		
that the foregoing paragraph is true and cor				
		Witness	s my hand and off	icial seal.
		No	TARY PUBLIC	
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3. FULL NAME OF ASSIGNOR: Patrick A. Kelly	RESIDE	ENCE: North Huntingo	ion PA	
		Troitii Truntinge	1011, 1 7 1	•
EXECUTED thisday of	, 2017			
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COUNTY of)				
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a notary public, personally appeared	YEAR	Patrick A. Kell	NOTARY PUBLIC NAM. Y IGNER	
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that the foregoing paragraph is true and cor				
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Page 3 of 6

	4	Application No	PCT/U	DOMESTIC JS2016/025264
		Attorney D	ocket No	6333-1511025
4. FULL NAME OF ASSIGNOR:		DENCE:		
Anthony McCoppin		Blawnox,	PA	
EXECUTED thisday of	, 2017			
OTT A TOTAL CO			SIGNATUR	Œ
STATE of				
COUNTY of)				
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a notary public, personally appeared	YEA	R Anthony McCo	NOTARY PUE ppin	3LIC NAME
		NAME OF DOCUMENT	SIGNER	,
proved on the basis of satisfactory evidence to and acknowledged he/she executed the same.	o be the pers	on whose name is s	ubscribed to	this instrument,
I certify under Penalty of Perjury under the la	aws of the S	tate of	•	
that the foregoing paragraph is true and corre	ect.			
		Witnes	ss my hand a	and official seal.
		N	OTARY PUB	LIC
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5. FULL NAME OF ASSIGNOR:	RESI	DENCE:		
Patrick A. Murawski			, PA	
EXECUTED thisday of	. 2017		-	
OTA TE of			SIGNATUR	E
STATE of)				
COUNTY of)				
On thisday of, in the	e year	, before me		,
DAY MONTH a notary public, personally appeared	YEA	Patrick A. Mura	notary pue wski	3LIC NAME
		NAME OF DOCUMENT	SIGNER	
proved on the basis of satisfactory evidence to and acknowledged he/she executed the same.		on whose name is s	ubscribed to	this instrument,
I certify under Penalty of Perjury under the la		tate of		
that the foregoing paragraph is true and corre	ect.	Witnes	ss my hand a	and official seal.
		N	OTARY PUB	
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Page 4 of 6

DOMESTIC Application No. ____ PCT/US2016/025264 Attorney Docket No. ___6333-1511025 6. FULL NAME OF ASSIGNOR: RESIDENCE: Travis Deschamps Pittsburgh, PA **SIGNATURE** STATE of COUNTY of a notary public, personally appeared NAME OF DOCUMENT SIGNER proved on the basis of satisfactory evidence to be the person whose name is subscribed to this instrument, and acknowledged he/she executed the same. I certify under Penalty of Perjury under the laws of the State of ___ that the foregoing paragraph is true and correct. Witness my hand and official seal. NOTARY PUBLIC 7. FULL NAME OF ASSIGNOR: RESIDENCE: Pittsburgh, PA a notary public, personally appeared Patrick E. Lutz NAME OF DOCUMENT SIGNER proved on the basis of satisfactory evidence to be the person whose name is subscribed to this instrument, and acknowledged he/she executed the same. I certify under Penalty of Perjury under the laws of the State of that the foregoing paragraph is true and correct. S E

Page 5 of 6

	Application	n No	PCT/US2016/	DOMESTIC 025264
		Attorn	ey Docket No	6333-1511025
8. FULL NAME OF ASSIGNOR: John C. Marous, III	RESID		urgh, PA	
EXECUTED thisday of	, 2017			
STATE of) COUNTY of)			SIGNATUR	RE
On this day of, DAY MONTH a notary public, personally appeared proved on the basis of satisfactory evide and acknowledged he/she executed the	ence to be the persor	John C. Ma	MENT SIGNER	·,
I certify under Penalty of Perjury under that the foregoing paragraph is true and				and official seal.
			NOTARY PUB	ELIC S E A L

CORRECTIVE ASSIGNMENT

WHEREAS, CardiacAssist, Inc., a corporation of Delaware, having a place of business at 240 Alpha Drive, Pittsburgh, Pennsylvania 15238, is the owner of interests in the United States issued patents and patent applications listed on Schedule A, attached hereto by assignment (hereinafter "said United States patents and applications"); and

WHEREAS, CardiacAssist, Inc., has been erroneously named as "Cardiac Assist, Inc." in some assignments of rights and/or conveyances of security interests in said United States patents and applications (hereinafter "affected assignment documents"); and

WHEREAS, CardiacAssist, Inc., at times has been referred to as "Cardiac Assist, Inc." during the normal course of business; and

WHEREAS the naming of CardiacAssist, Inc. as "Cardiac Assist, Inc." in any of the affected assignment documents was inadvertant, erroneous, and unintentional; and

WHERES CardiacAssist, Inc. desires to correct the affected assignment documents and the chain of title in said United States patents and applications with the correct formal entity name of CardiacAssist, Inc., as it appears on its Certificate of Good Standing, attached hereto.

NOW, THEREFORE, CardiacAssist, Inc. hereby testifies that any assignment of any interest to or from "Cardiac Assist, Inc." in the affected assignment documents of said United States patents and applications was made to, or by, CardiacAssist, Inc.

AND, CardiacAssist, Inc. hereby authorizes and requests the United States Commissioner for Patents to record this corrective assignment.

IN TESTIMONY WHEREOF, CardiacAssist, Inc. has caused this assignment to be executed effective the 14th day of September, 2017.

· .	CardiacAssist, Inc. By:	
	Name: John Marous	
	Title: CEO	·

Rob Svitek Witness

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SCHEDULE A

Attorney Backet Number	U.S. or PCT Application No.	U.S. Patent No.	Filing Date/ Issue Date	Invention Title
6333-102814	11/328,961	8,550,973	01/09/2006 / 10/08/2013	Percutaneous Right Ventricular Assist Apparatus and Method
6333-133603	14/035,087	8,979,742	09/24/2013 / 03/17/2015	Pumping System and Method for Assisting a Patient's Heart
6333-140084	14/232,643	9,532,898	07/16/2012 / 01/03/2017	Apparatus and Method for Rapidly Cooling or Heating the Body Temperature of a Patient
6333-140693	14/570,412	N/A	12/15/2014 / N/A	Percutaneous Right Ventricular Assist Apparatus and Method
6333-151844	14/615,496	9,168,334	02/6/2015 / 10/27/2015	Pumping System and Method for Assisting a Patient's Heart
6333-153086	PCT/US2015/020733	N/A	03/16/2015 / N/A	Image Guided Transseptal Puncture Device
6333-155555	14/810,701	9,446,183	07/28/2015 / 09/20/2016	Pumping System and Method for Assisting a Patient's Heart
6333-1702790	15/516,453	N/A	10/02/2015 / N/A	VA ECMO with Pulmonary Artery Ventilation
6333-140730	61/953,011	N/A	3/14/2014 / N/A	Image Guided Transseptal Puncture Device
6333-145692	62/140,778	N/A	3/31/2015 / N/A	Cannula System with Sterile Connector, Blood Pump, and Patient Harness
6333-146650	62/059,033	N/A	10/2/2014 / N/A	VA ECMO with Pulmonary Artery Ventilation
6333- 1603991	15/360,476	N/A	11/23/2016 / N/A	Apparatus and Method for Rapidly Cooling or Heating the Body Temperature of a Patient

PATENT REEL: 050056 FRAME: 0909

6333- 159853	PCT/US2015/053781	N/Ą	10/2/2015 / N/A	VA ECMO with Pulmonary Artery Ventilation
6333-1511025	PCT/US2016/025264	N/A	03/31/2016 / N/A	Cannula System with Sterile Connector, Blood Pump, and Patient Harness
6333-111566	61/508,257	N/A	7/15/2011 / N/A	Apparatus and Method for Rapidly Cooling or Heating the Body Temperature of a Patient
6333-122125	PCT/US2012/046853	N/A	07/16/2012 / N/A	Apparatus and Method for Rapidly Cooling or Heating the Body Temperature of a Patient

<u>Delaware</u>

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF

DELAWARE, DO HEREBY CERTIFY "CARDIACASSIST, INC." IS DULY

INCORPORATED UNDER THE LAWS OF THE STATE OF DELAWARE AND IS IN GOOD

STANDING AND HAS A LEGAL CORPORATE EXISTENCE SO FAR AS THE RECORDS

OF THIS OFFICE SHOW, AS OF THE FOURTEENTH DAY OF SEPTEMBER, A.D.

2017.

AND I DO HEREBY FURTHER CERTIFY THAT THE ANNUAL REPORTS HAVE BEEN FILED TO DATE.

AND I DO HEREBY FURTHER CERTIFY THAT THE FRANCHISE TAXES HAVE BEEN PAID TO DATE.

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Jalifrey W. Bullock, Secretary of States

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