

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT5405617

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
VIVOLINE MEDICAL AB	03/05/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	XVIVO PERFUSION AB
<b>Street Address:</b>	MÄSSANS GATA 10
<b>City:</b>	GÖTEBORG
<b>State/Country:</b>	SWEDEN
<b>Postal Code:</b>	412 51
<b>PROPERTY NUMBERS Total: 14</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	61278458
PCT Number:	SE2010000227
Application Number:	13498155
Application Number:	15202655
Application Number:	61396709
Application Number:	13697839
Application Number:	15229356
Application Number:	15031640
Application Number:	61210444
Application Number:	13142727
Application Number:	15241318
PCT Number:	SE2011000083
PCT Number:	SE2014000127
PCT Number:	SE2009000541
<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>Phone:</b>	2165791700
<b>Email:</b>	lthompson@pearne.com

**Correspondent Name:** PEARNE & GORDON LLP  
**Address Line 1:** 1801 EAST 9TH STREET  
**Address Line 2:** SUITE 1200  
**Address Line 4:** CLEVELAND, OHIO 44114

**NAME OF SUBMITTER:** GREGORY M. YORK

**SIGNATURE:** /Gregory M. York/

**DATE SIGNED:** 03/05/2019

**Total Attachments: 5**

source=Assignment Document-VIVOLINE to XVIVO-executed#page1.tif

source=Assignment Document-VIVOLINE to XVIVO-executed#page2.tif

source=Assignment Document-VIVOLINE to XVIVO-executed#page3.tif

source=Assignment Document-VIVOLINE to XVIVO-executed#page4.tif

source=Assignment Document-VIVOLINE to XVIVO-executed#page5.tif

## PATENT ASSIGNMENT

This PATENT ASSIGNMENT (the "Assignment") is made and entered into as of March 5, 2019, by and between VIVOLINE MEDICAL AB, a company registered in Sweden having a mailing address at Propellervägen 16, 224 78 Lund, SWEDEN (hereinafter "Assignor"), and XVIVO PERFUSION AB, a company registered in Sweden having a mailing address at Mässans gata 10, 412 51 Göteborg, SWEDEN (hereinafter "Assignee").

For consideration of ten dollars and other valuable consideration from Assignee, the receipt of which is hereby acknowledged, Assignor does hereby sell, assign and transfer unto Assignee, its successors and assigns, the entire interest for the United States of America, and its possessions and territories, and all foreign countries and jurisdictions, in, to, and for (1) certain inventions or improvements described in the applications and patents identified in Schedule A to this Patent Assignment, which Schedule is attached hereto and incorporated by reference (collectively the "Patents and Patent Applications"), (2) the Patents and Patent Applications, (3) all Letters Patent of the United States and its possessions and territories and of all foreign countries and jurisdictions which may or shall be granted on said invention(s), on said improvement(s), or on said application(s), (4) all provisional, divisional, continuation, reissue, PCT, national phase, or other applications based thereon, and (5) all rights of priority, including the right to claim priority to said application(s), under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and any other treaty relating thereto, in each case (1) through (5), together with all rights to sue for past, present, or future infringement thereof, including the right to collect damages for any past infringement thereto.

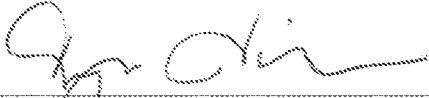
Assignor agrees with Assignee, but at Assignee's expense, hereafter to execute all applications, amended specifications, deeds or other instruments, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and its possessions and territories and in all other foreign countries and jurisdictions to said Assignee, with specifications and claims in such form as shall be approved by the counsel of said Assignee, and to vest and confirm in said Assignee, its successors and assigns, the legal title to all such patents.

Assignor hereby authorizes and requests the Director of the United States Patent and Trademark Office to issue such Letters Patent as shall be granted upon said application(s) based thereon to said Assignee, its successors and assigns.

Assignor does hereby authorize Assignee's attorney to correct any typographical errors on this form, if necessary, and to complete this form by the addition of the application number(s), application filing date(s), application title(s), attorney docket number(s), or other further identification, if necessary.

IN WITNESS WHEREOF, this assignment has been executed below by the undersigned:

Assignor: VIVOLINE MEDICAL AB

Signature: 

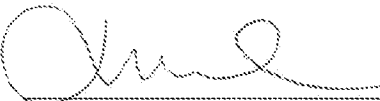
Print Name: MAGNUS NILSSON

Title: CEO

Date: 20190305

Witness #1: 

Print Name: Anneli Sigurdson

Witness #2: 

Print Name: Liselotte Andersson

[Acceptance of Assignment follows]

## ACCEPTANCE OF ASSIGNMENT

XVIVO PERFUSION AB, does hereby declare that it has accepted from VIVOLINE MEDICAL AB the assignment of the entire interest in certain inventions or improvements described in Schedule A to the Patent Assignment dated March 5, 2019, which Schedule is attached hereto and incorporated herein by reference, including all rights of priority, including the right to claim priority to said application(s), under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and any other treaty relating thereto.

Assignee: XVIVO PERFUSION AB

Signature: 


Print Name: MAGNUS NILSSON

Title: CEO

Date: 20190305

Witness #1: 

Print Name: Anne-Li Sigvardsson

Witness #2: 

Print Name: Liselotte Andersson

**SCHEDULE A  
TO THE PATENT ASSIGNMENT DATED MARCH 5, 2019**

ATTY DOCKET	TITLE	CASE TYPE	APPLICATION NO.	FILING DATE	PATENT NO. OR STATUS
<b>PATENT FAMILY 1 – PENDING</b>					
XVIVO-56409	Method, Device and Fluid for Treatment of a Heart after Harvesting	Provisional	U.S. Appl. No. 61/278,458	October 8, 2009	Expired
Not applicable	Method, Device and Fluid for Treatment of a Heart after Harvesting	PCT application	PCT/SE2010/000227	September 22, 2010	National phase
XVIVO-56316	Method, Device and Fluid for Treatment of a Heart after Harvesting	U.S. national phase	U.S. Appl. No. 13/498,155	March 26, 2012 (371(c) date)	Abandoned
XVIVO-56316US1	Method, Device and Fluid for Treatment of a Heart after Harvesting	Continuation	U.S. Appl. No. 15/202,655	July 6, 2016	Pending
<b>PATENT FAMILY 2 – PENDING</b>					
XVIVO-56410	Medical Fluid and Use of the Fluid	Provisional	U.S. Appl. No. 61/396,769	June 2, 2010	Expired
Not applicable	Medical Fluid, a Method of Treatment and Use of the Fluid	PCT application	PCT/SE2011/000083	May 13, 2011	National phase
XVIVO-56394	Medical Fluid, a Method of Treatment and Use of the Fluid	U.S. national phase	U.S. Appl. No. 13/697,839	November 14, 2012 (371(c) date)	Abandoned
XVIVO-56394US1	Medical Fluid, a Method of Treatment and Use of the Fluid	Continuation	U.S. Appl. No. 15/229,356	August 5, 2016	Pending
<b>PATENT FAMILY 3 – PENDING</b>					
Not applicable	An Afterload Device for a Beating Heart during Examination Thereof	PCT application	PCT/SE2014/000127	October 24, 2014	National phase
W&R1-57780	An Afterload Device for a Beating Heart during Examination Thereof	U.S. national phase	U.S. Appl. No. 15/031,640	April 22, 2016 (371(c) date)	Pending
<b>PATENT FAMILY 4 – ABANDONED</b>					
XVIVO-56483	Method and Solution for Treatment of Potential Organ Donor	Provisional	U.S. Appl. No. 61/210,444	March 19, 2009	Expired

Not applicable	Composition Comprising Nor-Adrenaline and a Net Inhibitor for Administering to a Brain-Dead, Heart Beating Potential Organ Donor	PCT application	PCT/SE2009/000541	December 30, 2009	National phase
XVIVO-56483US1	Composition Comprising Nor-Adrenaline and a Net Inhibitor for Administering to a Brain-Dead, Heart Beating Potential Organ Donor	U.S. national phase	U.S. Appl. No. 13/142,727	June 29, 2011 (371(c) date)	Abandoned
XVIVO-56483US2	Composition Comprising Nor-Adrenaline and a Net Inhibitor for Administering to a Brain-Dead, Heart Beating Potential Organ Donor	Continuation	U.S. Appl. No. 15/241,318	August 19, 2016	Abandoned