

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4454103

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JAMES M. BRUGGER	06/01/2017
WILLIAM J. SCHNELL	06/08/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	NXSTAGE MEDICAL, INC.
<b>Street Address:</b>	350 MERRIMACK STREET
<b>City:</b>	LAWRENCE
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	01843
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14765001
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(202)318-7707
<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>	(202) 670-3220
<b>Email:</b>	patents@potomaclaw.com
<b>Correspondent Name:</b>	POTOMAC LAW GROUP, PLLC
<b>Address Line 1:</b>	5335 WISCONSIN AVE
<b>Address Line 2:</b>	SUITE 440
<b>Address Line 4:</b>	WASHINGTON, D.C. 20015
<b>ATTORNEY DOCKET NUMBER:</b>	1453-0080US01
<b>NAME OF SUBMITTER:</b>	PAULA J WATSON
<b>SIGNATURE:</b>	/Paula J. Watson/
<b>DATE SIGNED:</b>	06/10/2017
<b>Total Attachments: 4</b>	
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source=Executed Assignment for 1453-0080US01#page2.tif	
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source=Executed Assignment for 1453-0080US01#page4.tif	

Assignment

WHEREAS, I/We, James M. Brugger and William J. Schnell, have made an invention entitled FLUID CIRCUIT PRIMING METHODS, DEVICES, AND SYSTEMS for which I/we have filed an application for Letters Patent of the United States on July 31, 2015 under Application No. 14/765,001, which claims priority to International Application PCT/US2014/015172 filed February 6, 2014 and U.S. Provisional Application Nos. 61/926,704 filed January 13, 2014, 61/783,774 filed March 14, 2013, 61/762,197 filed February 7, 2013, and 61/761,405 filed February 6, 2013; and

WHEREAS, NxSTAGE MEDICAL, INC. ("ASSIGNEE"), a corporation or other business entity organized under the laws of Massachusetts, and whose postal address is 350 Merrimack Street, Lawrence, MA 01843, desires to acquire the entire right, title, and interest in and to the invention in the United States and all foreign countries throughout the world, and in and to an application for Letters Patent on the invention and any Letters Patent to be granted for the invention in the United States and in all foreign countries;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) paid to me/us by ASSIGNEE, and other good and valuable consideration, the receipt and sufficiency of which I/We acknowledge, I/We, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto ASSIGNEE, its successors, legal representatives, and assigns, the entire right, title, and interest in and to the invention, the application, all applications claiming benefit of the application, including, but not limited to, all divisions and continuations of the application, and all Letters Patent that maybe granted thereon in the United States and in all foreign countries, and all reissues thereof, together with the right to claim priority under the International Convention in all member countries; and I/We authorize and request the Director of the United States Patent and Trademark Office to issue all Letters Patent for the invention to ASSIGNEE, its successors, legal representatives, and assigns in accordance with the terms of this Assignment;

AND I/We covenant and agree that I/We have the full right to convey the entire right, title, and interest herein assigned and that I/We have not executed and will not execute any assignment or other instrument in conflict with this Assignment;

AND I/We further covenant and agree that upon request by ASSIGNEE, its successors, legal representatives, and/or assigns, and without further consideration, I/We will do all lawful acts that may be necessary or desirable to assist ASSIGNEE, its successors, legal representatives, and/or assigns to obtain and enforce patent protection for the invention in the United States and in all foreign countries, including, but not limited to, communicate with ASSIGNEE, its successors, legal representatives, and/or assigns any facts known to me/us regarding the invention, testify in any legal proceeding, sign all lawful papers, execute and deliver all papers that may be necessary or desirable to perfect the title to the invention in ASSIGNEE, its successors, legal representatives, and/or assigns, execute all divisional, continuation, and reissue applications, and make all rightful oaths, it being understood that any expense incident to the rendering of such assistance will be borne by ASSIGNEE, its successors, legal representatives, and/or assigns.

AND I/WE further hereby authorize ASSIGNEE or its attorneys or agents to insert the correct application number and filing date into this assignment, if none is indicated on that date of my/our execution of this Assignment.

IN WITNESS WHEREOF, I/We have executed this Assignment on the date(s) indicated below.

Signature: James M. Brugger  
Date: 01-Jun-2017  
Full Name: James M. Brugger

Signature: \_\_\_\_\_  
Date: \_\_\_\_\_  
Full Name: William J. Schnell

Assignment

WJS  
6/8/17

WHEREAS, I/We, James M. Brugger and William J. Schnell, have made an invention entitled FLUID CIRCUIT PRIMING METHODS, DEVICES, AND SYSTEMS for which I/we have filed an application for Letters Patent of the United States on July 31, 2015 under Application No. 14/765,001, which claims priority to International Application PCT/US2014/015172 filed February 6, 2014 and U.S. Provisional Application Nos. 61/926,704 filed January 13, 2014, 61/783,774 filed March 14, 2013, 61/762,197 filed February 7, 2013, and 61/761,405 filed February 6, 2013; and

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NOW, THEREFORE, in consideration of One Dollar (\$1.00) paid to me/us by ASSIGNEE, and other good and valuable consideration, the receipt and sufficiency of which I/We acknowledge, I/We, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto ASSIGNEE, its successors, legal representatives, and assigns, the entire right, title, and interest in and to the invention, the application, all applications claiming benefit of the application, including, but not limited to, all divisions and continuations of the application, and all Letters Patent that maybe granted thereon in the United States and in all foreign countries, and all reissues thereof, together with the right to claim priority under the International Convention in all member countries; and I/We authorize and request the Director of the United States Patent and Trademark Office to issue all Letters Patent for the invention to ASSIGNEE, its successors, legal representatives, and assigns in accordance with the terms of this Assignment;

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AND I/WE further hereby authorize ASSIGNEE or its attorneys or agents to insert the correct application number and filing date into this assignment, if none is indicated on that date of my/our execution of this Assignment.

IN WITNESS WHEREOF, I/We have executed this Assignment on the date(s) indicated below.

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Full Name: James M. Brugger

Signature:  \_\_\_\_\_

Date: June 8, 2017

Full Name: William J. Schnell