

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Valluvan Jeevanandam</td> <td>11/10/2010</td> </tr> <tr> <td>Roger W. Snyder</td> <td>11/03/2010</td> </tr> <tr> <td>Robert Smith</td> <td>11/17/2010</td> </tr> <tr> <td>Paul DeDecker</td> <td>11/10/2010</td> </tr> </tbody> </table>		Name	Execution Date	Valluvan Jeevanandam	11/10/2010	Roger W. Snyder	11/03/2010	Robert Smith	11/17/2010	Paul DeDecker	11/10/2010
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>NuPulse, Inc.</td> </tr> <tr> <td>Street Address:</td> <td>4711 N 1ST AVE</td> </tr> <tr> <td>City:</td> <td>Tucson</td> </tr> <tr> <td>State/Country:</td> <td>ARIZONA</td> </tr> <tr> <td>Postal Code:</td> <td>85718-5610</td> </tr> </table>		Name:	NuPulse, Inc.	Street Address:	4711 N 1ST AVE	City:	Tucson	State/Country:	ARIZONA	Postal Code:	85718-5610
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PROPERTY NUMBERS Total: 4											
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Application Number:	13300501										
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Application Number:	13401229										
Application Number:	13401249										
CORRESPONDENCE DATA											
Fax Number:	(617)832-7000										
Phone:	617-832-3043										
Email:	dmahoney@foleyhoag.com										
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>											
Correspondent Name:	Peter K. Sollins										
Address Line 1:	155 Seaport Blvd.										
Address Line 2:	Foley Hoag, LLP										
Address Line 4:	Boston, MASSACHUSETTS 02210-2600										

CH \$160.00 13300501

ATTORNEY DOCKET NUMBER:	NPK-202,203,204&205
NAME OF SUBMITTER:	Denise M. Mahoney
<b>Total Attachments: 5</b> source=NPK-002XX-Executed-Assignment#page1.tif source=NPK-002XX-Executed-Assignment#page2.tif source=NPK-002XX-Executed-Assignment#page3.tif source=NPK-002XX-Executed-Assignment#page4.tif source=NPK-002XX-Executed-Assignment#page5.tif	

## ASSIGNMENT

**WHEREAS** we, Valluvan Jeevanandam, Roger W. Snyder, Robert Smith, and Paul DeDecker, have made certain inventions or discoveries (or both) set forth in the following applications for Letters Patent:

U.S. Patent Application Serial Number 12/910,467, which was filed on October 22, 2010, entitled INTRA-AORTIC BALLOON PUMP AND DRIVER, identified by Foley Hoag LLP Docket No. NPK-002.01;

International Patent Application Serial Number PCT/US2010/053779, which was filed on October 22, 2010, entitled INTRA-AORTIC BALLOON PUMP AND DRIVER, identified by Foley Hoag LLP Docket No. NPK-002.25; and

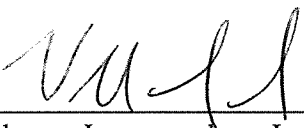
**WHEREAS** NuPulse, Inc., a Delaware corporation, whose address is 535 West 23rd Street, Suite SPH2N, New York NY 10011, and which, together with its successors and assigns, is hereinafter called "Assignee," is desirous of acquiring the title, rights, benefits, and privileges hereinafter recited;

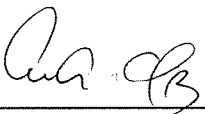
**NOW, THEREFORE**, for valuable consideration furnished by Assignee to us, the receipt and sufficiency of which we hereby acknowledge, we hereby, without reservation:

1. Assign, transfer, and convey to Assignee our entire right, title, and interest in and to (a) said inventions and discoveries, (b) know-how associated with said inventions and discoveries, (c) said applications for Letters Patent, (d) any and all other applications for Letters Patent setting forth said inventions and discoveries based in whole or in part upon said applications, including all provisional, nonprovisional, divisional, renewal, substitute, continuation, continuation-in-part, reissue, Convention applications, International applications, national stages, regional stages, reexaminations, and extensions of Letters Patent, (e) any Letters Patent issuing from any such applications and the right to sue for past infringement thereof and for provisional rights under 35 U.S.C. § 154(d) thereof, and (f) every priority right that is or may be predicated upon or arise from said application and said Letters Patent;
2. Authorize Assignee to file patent applications in any or all countries on any or all of said inventions and discoveries in our names or in the name of Assignee or otherwise as Assignee may deem advisable, under the Paris Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, or otherwise;
3. Authorize and request the Director of the United States Patent and Trademark Office and equivalent authorities in all other patent offices worldwide to issue or transfer all said Letters Patent to Assignee, as assignee of the entire right, title, and interest therein or otherwise as Assignee may direct;
4. Warrant that we have not knowingly conveyed to others any right in said applications or Letters Patent or any license to said applications or Letters Patent, and that we have good right to assign the same to Assignee without encumbrance;

5. Bind our heirs, legal representatives and assigns, as well as ourselves, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to us or them, all acts reasonably serving to assure that the said inventions and discoveries, said patent applications, and the said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by us, our heirs, legal representatives, and assigns if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, declarations, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to us relating to said inventions and discoveries or the history thereof; and to furnish Assignee with any and all documents, photographs, models, samples, and other physical exhibits in our control or in the control of our heirs, legal representatives or assigns which may be useful for establishing the facts of our conceptions, disclosures, and reduction to practice of said inventions and discoveries.

**IN TESTIMONY OF WHICH** we have executed this Assignment as an instrument under seal on the dates indicated next to our names.

<u>11/10/2010</u> Date	 _____ Valluvan Jeevanandam, Inventor
---------------------------	--

<u>Nov. 10, 2010</u> Date	 _____ Witness <u>Scott E. Kamholz</u> _____ Witness's Printed Name
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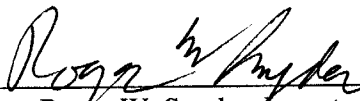
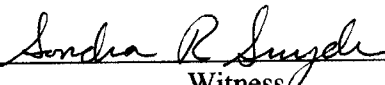
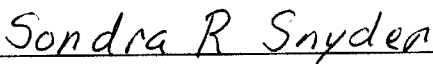
_____ Date	_____ Roger W. Snyder, Inventor
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_____ Date	_____ Witness _____ Witness's Printed Name
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5. Bind our heirs, legal representatives and assigns, as well as ourselves, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to us or them, all acts reasonably serving to assure that the said inventions and discoveries, said patent applications, and the said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by us, our heirs, legal representatives, and assigns if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, declarations, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to us relating to said inventions and discoveries or the history thereof; and to furnish Assignee with any and all documents, photographs, models, samples, and other physical exhibits in our control or in the control of our heirs, legal representatives or assigns which may be useful for establishing the facts of our conceptions, disclosures, and reduction to practice of said inventions and discoveries.

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_____ Date	_____ Valluvan Jeevanandam, Inventor
_____ Date	_____ Witness
	_____ Witness's Printed Name

11/3/10 _____ Date	 _____ Roger W. Snyder, Inventor
11/3/10 _____ Date	 _____ Witness
	 _____ Witness's Printed Name

Nov. 17, 2010  
Date

Robert Smith  
Robert Smith, Inventor

November 17, 2010  
Date

Rachelle L. Denman  
Witness

RACHELLE L. DENMAN  
Witness's Printed Name

\_\_\_\_\_  
Date

\_\_\_\_\_  
Paul DeDecker, Inventor

\_\_\_\_\_  
Date


\_\_\_\_\_  
Witness

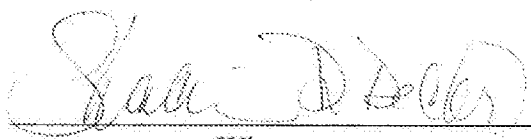
\_\_\_\_\_  
Witness's Printed Name

\_\_\_\_\_  
Date Robert Smith, Inventor

\_\_\_\_\_  
Date Witness

\_\_\_\_\_  
Witness's Printed Name

11-10-2010  
Date   
Paul DeDecker, Inventor

11-10-2010  
Date   
Witness

Sharda DeDecker  
Witness's Printed Name