

## PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Terumo Kabushiki Kaisha	07/31/2013
RECEIVING PARTY DATA	
Name:	THORATEC CORPORATION
Street Address:	6035 Stoneridge Drive
City:	Pleasanton
State/Country:	CALIFORNIA
Postal Code:	94588
PROPERTY NUMBERS Total: 3	
Property Type	Number
Patent Number:	7819916
Patent Number:	7563225
Patent Number:	8157721
CORRESPONDENCE DATA	
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<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
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ATTORNEY DOCKET NUMBER:	1034071-000003
NAME OF SUBMITTER:	Matthew L. Schneider
Signature:	/Matthew L. Schneider/
Date:	09/13/2013
Total Attachments: 1 source=Thoratec asgn#page1.tif	

OP \$120.00 7819916

PATENT

## ASSIGNMENT

THIS ASSIGNMENT, by TERUMO KABUSHIKI KAISHA, a corporation having a place of business at 44-1, 2-chome, Hatagaya, Shibuya-ku, Tokyo, 151-0072, Japan (hereinafter referred to as "the Assignor"), witnesseth:

WHEREAS, the Assignor, by virtue of Assignments recorded at Reel 021153/Frame 0894 on June 13, 2008 and at Reel 015843/Frame 0644 on September 30, 2004, is the owner of the entire right, title and interest in and to U.S. Patent No. 7,819,916 issued on October 26, 2010 entitled "Blood Pump System for Artificial Heart and Apparatus Supervisory System", U.S. Patent No. 7,563,225 issued on July 21, 2009 entitled "Artificial Heart Pump System and Its Control Apparatus", and U.S. Patent No. 8,157,721 issued on April 17, 2012 entitled "Artificial Heart Pump System and Its Control Apparatus", and the inventions disclosed and claimed in said patents.

WHEREAS, THORATEC CORPORATION, a corporation having a place of business at 6035 Stoneridge Drive, Pleasanton, California 94588 (hereinafter referred to as "the Assignee"), is interested in acquiring, and does hereby acquire, the entire right, title and interest in and to said patents and inventions.

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, the Assignor has sold, assigned, transferred, and set over, and by these presents does sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns, the Assignor's entire interest in and to the above-mentioned inventions and said U.S. Patent No. 7,819,916, U.S. Patent No. 7,563,225 and U.S. Patent No. 8,157,721, and in and to any and all reissues, reexaminations and extensions of the patents, the same to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, to the full end of the term for which the patents are granted as fully and entirely as the same would have been held and enjoyed by the Assignor had this sale and assignment not been made;

AND for the same consideration, the Assignor hereby covenants and agrees to and with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignor is the lawful owner of the entirety of its interest in and to the inventions and said patents, and that the same is unencumbered, and that the Assignor has good and full right and lawful authority to sell and convey the same in the manner herein set forth;

The undersigned represents that he has the authority to execute this Assignment on behalf of TERUMO KABUSHIKI KAISHA.

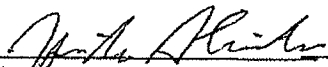
TERUMO KABUSHIKI KAISHA

Yutaro Shintaku

Name

President and Representative Director

Title

  
Signature

July 31, 2013  
Date