

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT5224470

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
DATASCOPE INVESTMENT CORP.	12/01/2010
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	THORATEC CORPORATION
<b>Street Address:</b>	6101 STONERIDGE DRIVE
<b>City:</b>	PLEASANTON
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	94588
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16181963
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(314)612-2323
<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>	314-621-5070
<b>Email:</b>	uspatents@armstrongteasdale.com
<b>Correspondent Name:</b>	ARMSTRONG TEASDALE LLP THORATEC (35398)
<b>Address Line 1:</b>	7700 FORSYTH BOULEVARD
<b>Address Line 2:</b>	SUITE 1800
<b>Address Line 4:</b>	ST. LOUIS, MISSOURI 63105
<b>ATTORNEY DOCKET NUMBER:</b>	P04001USCC5
<b>NAME OF SUBMITTER:</b>	ALESIA MARRA
<b>SIGNATURE:</b>	/Alesia Marra/
<b>DATE SIGNED:</b>	11/06/2018
<b>Total Attachments: 9</b>	
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**ASSIGNMENT OF PATENT RIGHTS**

This Assignment of Patents (this "Assignment") is made and entered into as of January 25, 2010, by and between Datascope Investment Corp., a corporation incorporated under the laws of the State of New Jersey (the "Assignor"), and Thoratec Corporation, a corporation incorporated under the laws of the State of California (the "Assignee").

WITNESSETH:

WHEREAS, Datascope Corp. and Assignee are parties to that certain Technology Purchase Agreement dated January 25, 2010 (the "Purchase Agreement"), pursuant to which Assignee has acquired all of Datascope Corp.'s and Assignor's right, title and interest in and to certain patents, patent applications, and invention disclosures as listed on Exhibit 1 hereto (the "Assigned Patents");

WHEREAS, to effect the transfer of any ownership interest that Assignor may have in the Assigned Patents to Assignee as contemplated in the Purchase Agreement, Assignor and Assignee desire to enter into this Assignment;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor and Assignee each hereby agree as follows:

1. Assignment. Assignor hereby sells, assigns, transfers, conveys and delivers to Assignee and its successors and assigns, and Assignee hereby purchases and accepts from Assignor, all of Assignor's right, title and interest in, to and under the Assigned Patents, and to any continuations, continuations-in-part, divisionals, renewals, substitutes, reexaminations and reissues thereof and foreign counterparts thereto, and all patents issuing therefrom, together with all priority rights under any international conventions and treaties, and the right to sue and recover damages for future or past infringements of the Assigned Patents and to fully and entirely stand in the place of Assignor in all matters related thereto.

2. Further Assurances. Assignor agrees to execute and deliver such other documents and to take all such other actions as Assignee, its successors and assigns may reasonably request to effect the terms of this Assignment and to execute and deliver any and all affidavits, testimonies, declarations, oaths and other documentation as may be reasonably required to effect the terms of this Assignment. Assignee, or its successor or assign, as the case may be, shall be responsible for all costs incurred by Assignor in executing and delivering any of the foregoing.

3. Authorization. Assignor hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States, and, in the case of any patent applications filed with any office of any country or countries foreign to the United States, any officer of such country whose duty it is to issue patents or other evidence or forms of intellectual property protection or applications as aforesaid, to issue the same to Assignee and its successors, assigns and other legal representatives in accordance with the terms of this Assignment.

4. Miscellaneous. This Assignment may not be supplemented, altered or modified in any manner except by a writing signed by all parties hereto. The failure of any party to enforce any terms or provisions of this Assignment shall not waive any of its rights under such terms or provisions. This Assignment shall bind and inure to the benefit of the respective parties and their assigns, transferees and successors. This Assignment and any amendments hereto may be executed in one or more counterparts, each of which shall be deemed an original but all of which together will constitute one and the same instrument.

[SIGNATURE PAGE FOLLOWS]

IN WITNESS WHEREOF, each of Assignor and Assignee has executed this Assignment as of the day and year first above written.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

DATASCOPE INVESTMENT CORP  
15 Law Drive, Fairfield, NJ 07004, USA

By: \_\_\_\_\_

Name Printed: Henry Scaramelli

Title: Vice President

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

Sign in presence of a Notary and have  
Notary attach Acknowledgement

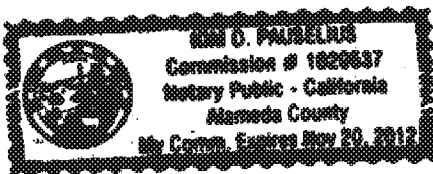
Sworn to and subscribed before me  
this 1 day of DEC 2010.

  
ADRIENNE KATHERINE HERING  
NOTARY PUBLIC OF NEW JERSEY  
MY COMMISSION EXPIRES JULY 7, 2013

ADRIENNE KATHERINE HERING  
NOTARY PUBLIC OF NEW JERSEY  
MY COMMISSION EXPIRES JULY 7, 2013

Sworn to and subscribed before me  
this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 20<sup>th</sup> day of December, 2010.



Sign in presence of a Notary and have  
Notary attach Acknowledgement

ACKNOWLEDGED BY:

"ASSIGNEE"

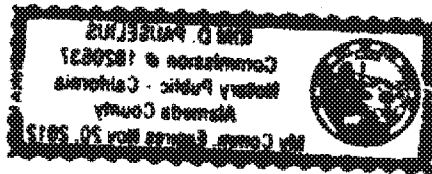
Thoratec Corporation  
6101 Stoneridge Drive  
Pleasanton, CA 94588  
a California corporation.

By: [Signature]

Name Printed: David Lehman

Title: SVP & General Counsel

Date: 12/20/10





**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

State of California

County of Alameda

On 12/20/2010 before me, Kim O. Pauselius  
Date Here Insert Name and Title of the Officer

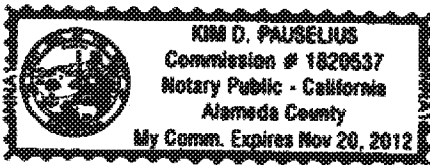
personally appeared David Lehman  
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Kim O. Pauselius  
Signature of Notary Public



Place Notary Seal Above

**OPTIONAL**

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

**Description of Attached Document**

Title or Type of Document: Power of Attorney

Document Date: 12/20/2010 Number of Pages: 4

Signer(s) Other Than Named Above: \_\_\_\_\_

**Capacity(ies) Claimed by Signer(s)**

Signer's Name: David Lehman  
 Individual  
 Corporate Officer — Title(s): Supr General Counsel  
 Partner —  Limited  General  
 Attorney in Fact  
 Trustee  
 Guardian or Conservator  
 Other: \_\_\_\_\_

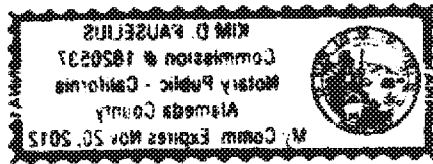


Signer Is Representing: \_\_\_\_\_

Signer's Name: \_\_\_\_\_  
 Individual  
 Corporate Officer — Title(s): \_\_\_\_\_  
 Partner —  Limited  General  
 Attorney in Fact  
 Trustee  
 Guardian or Conservator  
 Other: \_\_\_\_\_



Signer Is Representing: \_\_\_\_\_



## Exhibit 1

### U.S. Patents

Title	Patent No.	Issue Date
EXPANDABLE IMPELLER PUMP	7393181	01-Jul-2008

### U.S. Applications

Title	Serial No.	Filing Date
EXPANDABLE IMPELLER PUMP	12/157267	09-Jun-2008
LEFT VENTRICULAR ASSIST DEVICE (LVAD) WITH EXPANDABLE CATHETER/IMPELLER PUMP	60/610938	17-Sep-2004
HEART ASSIST DEVICE WITH EXPANDABLE IMPELLER PUMP	11/728051	23-Mar-2007
EXPANDABLE IMPELLER PUMP	60/785299	23-Mar-2006
HEART ASSIST DEVICE WITH EXPANDABLE IMPELLER PUMP	60/785531	23-Mar-2006

### International Applications

Country	Title	Serial No.	Filing Date
Australia	EXPANDABLE IMPELLER PUMP	2005286914	16-Sep-2005
Canada	EXPANDABLE IMPELLER PUMP	2580452	16-Sep-2005
China	EXPANDABLE IMPELLER PUMP	200590031227.1	16-Sep-2005
Europe	EXPANDABLE IMPELLER PUMP	05799883.3	16-Sep-2005
Hong Kong	EXPANDABLE IMPELLER PUMP	07106935.8	16-Sep-2005
Japan	EXPANDABLE IMPELLER PUMP	2007-532569	16-Sep-2005
WIPO	EXPANDABLE IMPELLER PUMP	PCT/US2005/033416	16-Sep-2005
Australia	HEART ASSIST DEVICE WITH EXPANDABLE IMPELLER PUMP	2007230945	23-Mar-2007
Canada	HEART ASSIST DEVICE WITH EXPANDABLE IMPELLER PUMP	2646277	23-Mar-2007
China	HEART ASSIST DEVICE WITH EXPANDABLE IMPELLER PUMP	200780018603.2	23-Mar-2007
Europe	HEART ASSIST DEVICE WITH EXPANDABLE IMPELLER PUMP	07753903.9	23-Mar-2007
Hong Kong	HEART ASSIST DEVICE WITH EXPANDABLE IMPELLER PUMP	09100058.0	23-Mar-2007
Japan	HEART ASSIST DEVICE WITH EXPANDABLE IMPELLER PUMP	2009-501590	23-Mar-2007
WIPO	HEART ASSIST DEVICE WITH EXPANDABLE IMPELLER PUMP	PCT/US07/07313	23-Mar-2007

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