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| <b>PATENT ASSIGNMENT COVER SHEET</b> |
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5867785

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| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT                           |
| <b>NATURE OF CONVEYANCE:</b>  | ASSIGNMENT                               |
| <b>CONVEYING PARTY DATA</b>   |  |
| <b>Name</b>   | <b>Execution Date</b>                    |
| THORATEC LLC  | 11/14/2016                               |
| <b>RECEIVING PARTY DATA</b>   |  |
| <b>Name:</b>  | TC1 LLC                                  |
| <b>Street Address:</b>  | 6035 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>  | 16714287                                 |
| <b>CORRESPONDENCE DATA</b>  |  |
| <b>Fax Number:</b>  | (303)571-4321                            |
| <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>   | 3035714000                               |
| <b>Email:</b>   | kswenson@kilpatricktownsend.com          |
| <b>Correspondent Name:</b>  | THORATEC ABBOTT - DE TEAM / KTS MAILSTOP |
| <b>Address Line 1:</b>  | 1100 PEACHTREE STREET                    |
| <b>Address Line 2:</b>  | SUITE 2800                               |
| <b>Address Line 4:</b>  | ATLANTA, GEORGIA 30309                   |
| <b>ATTORNEY DOCKET NUMBER:</b>  | 096206-1167224-007530US                  |
| <b>NAME OF SUBMITTER:</b>   | /KRISTI A. SWENSON/                      |
| <b>SIGNATURE:</b>   | /Kristi A. Swenson/                      |
| <b>DATE SIGNED:</b>   | 12/13/2019                               |
| <b>Total Attachments: 15</b>  |  |
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## CONFIRMATORY ASSIGNMENT

WHEREAS, Thoratec Corporation was converted to Thoratec LLC pursuant to the Articles of Organization -- Conversion, filed on November 12, 2015,

WHEREAS, Thoratec LLC, a Limited Liability Company of California, having its principal place of business at 6035 Stoneridge Drive, Pleasanton, California 94588 ("Assignor"), has heretofore sold, transferred, and/or conveyed to TC1 LLC, a Limited Liability Company having a principal place of business at 6035 Stoneridge Drive, Pleasanton, California 94588 ("Assignee"), all of its right, title, and interest, in and to certain inventions, patents, and patent applications as set forth in Exhibit A attached hereto, as part of an assignment agreement dated November 16, 2015.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is acknowledged, Assignor hereby confirms that Assignor did sell, transfer, and convey unto Assignee all right, title, and interest in and to the following:

- (a) all intellectual property (including, without limitation, any innovation, information, invention, discovery, product, process, work or design) disclosed, embodied, shown, or claimed in the below-referenced patent applications in Exhibit A, implicitly or explicitly;
- (b) the below-referenced patent applications in Exhibit A, the right to claim priority to the below-referenced patent applications in Exhibit A, all applications based in whole or in part upon the below-referenced patent applications in Exhibit A, including, without limitation, all applications that are a provisional, non-provisional, design, divisional, continuation, continuation-in-part, registration, utility model, industrial design, reissue, renewal, substitute, extension, reexamination, post-grant review, inter partes review, supplemental examination or non-U.S. patent applications or application for other rights based in whole or in part on the below-referenced patent applications in Exhibit A;
- (c) all patents (including, without limitation, all U.S. and non-U.S. patents, registrations, utility models, industrial designs, design patents, counterparts, continuations, continuations-in-part, divisionals, reissues, renewals, substitutes, extensions, reexaminations, post-grant reviews, inter partes reviews and supplemental examinations) that are granted or issued upon, or that claim priority to, any and all applications described in (b) of this paragraph or that disclose or claim intellectual property described in (a) of this paragraph, in whole or in part; and
- (d) all claims for damages by reason of past infringement of any rights under the applications or patents described in (a), (b) or (c) of this paragraph (including provisional rights to reasonable royalties pursuant to 35 U.S.C. §154(d)) and the right to sue for and collect such damages and royalties for Assignee's own use.

Assignor hereby authorizes and requests the U.S. Patent and Trademark Office or any other U.S. or non-U.S. agency to issue to the Assignee any and all patent(s), or other rights or documents, resulting from the intellectual property, patent application(s) and patents described in this Confirmatory Assignment.

Assignor hereby agrees to sign all papers and documents, including without limitation, applications, declarations, oaths and petitions, and, at the Assignee's expense, perform any other acts that

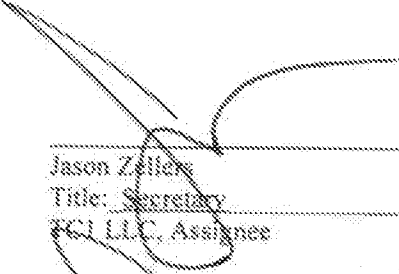
are necessary in connection with prosecution of patent application(s) or intellectual property described in this Confirmatory Assignment and the enforcement of patent(s) or other rights resulting from such patent application(s) or intellectual property.

Assignor hereby agrees that the terms, covenants, and conditions of this Confirmatory Assignment shall be binding upon and inure to the benefit of the Assignee, its successors, assigns and other legal representative.

Assignor hereby promises and affirms that Assignor has not entered, and will not enter, into any assignment, contract, or understanding that conflicts with this Confirmatory Assignment.

In Witness Whereof, Assignor and Assignee have executed this Confirmatory Assignment on the dates indicated below.

Dated: 11/14/2016

  
\_\_\_\_\_  
Jason Zellers  
Title: Secretary  
FGJ LLC, Assignee

Dated: 11/14/2016

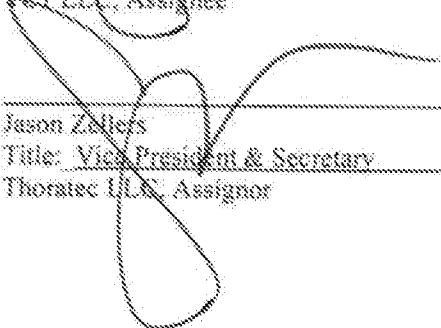
  
\_\_\_\_\_  
Jason Zellers  
Title: Vice President & Secretary  
Thoratec LLC, Assignor

Exhibit A

| <u>KYS Ref. No.</u> | <u>Thoratec Ref. No.</u> | <u>Countr<br/>y</u> | <u>Title</u>  | <u>Application<br/>/Patent No.</u> | <u>Filing/Issue<br/>Date</u> |
|---------------------|--------------------------|---------------------|---|------------------------------------|------------------------------|
| 096206-0890674      | THOR-P06003              | U.S.                | CENTRIFUGAL LIQUID PUMP DEVICE  | 6,840,735                          | Jan 11, 2005                 |
| 096206-0890679      | THOR-P06004              | U.S.                | CENTRIFUGAL LIQUID-PUMPING SYSTEM   | 7,033,147                          | Apr 25, 2006                 |
| 096206-0890690      | THOR-P06005              | U.S.                | BLOOD PUMP  | 7,160,242                          | Jan 9, 2007                  |
| 096206-0890720      | THOR-P06013              | U.S.                | METHOD AND SYSTEM FOR CONTROLLING BLOOD PUMP FLOW   | 7,160,243                          | Jan 9, 2007                  |
| 096206-0890714      | THOR-P06011              | U.S.                | ADJUSTABLE COUPLING MECHANISM FOR THE CONDUIT ON A VENTRICULAR ASSIST DEVICE                                    | 7,172,550                          | Feb 6, 2007                  |
| 096206-0890694      | THOR-P06006              | U.S.                | CENTRIFUGAL TYPE BLOOD PUMP APPARATUS   | 7,470,246                          | Dec 30, 2008                 |
| 096206-0890707      | THOR-P06009              | U.S.                | EXTERNAL BATTERY PACK FOR ARTIFICIAL HEART AND BATTERY CHARGER WITH DATA COLLECTION FUNCTION UTILIZING THE SAME | 7,563,225                          | Jul 21, 2009                 |
| 096206-0890732      | THOR-P06014              | U.S.                | CENTRIFUGAL TYPE BLOOD PUMP APPARATUS   | 7,748,964                          | Jul 6, 2010                  |
| 096206-0890756      | THOR-P06023              | U.S.                | DUAL COMMUNICATION INTERFACE FOR ARTIFICIAL HEART SYSTEM  | 7,794,584                          | Sep 14, 2010                 |
| 096206-0890753      | THOR-P06022              | U.S.                | ARTIFICIAL HEART BLOOD PUMP SYSTEM AND DEVICE MONITORING SYSTEM   | 7,819,916                          | Oct 26, 2010                 |
| 096206-0890746      | THOR-P06020              | U.S.                | BLOOD PUMP DEVICE   | 8,043,074                          | Oct 25, 2011                 |
| 096206-0890709      | THOR-P06009C             | U.S.                | EXTERNAL BATTERY PACK FOR ARTIFICIAL  | 8,157,721                          | Apr 17, 2012                 |

|                |               |      |  |           |              |
|----------------|---------------|------|--|-----------|--------------|
|                |               |      | HEART AND BATTERY CHARGER WITH DATA COLLECTION FUNCTION UTILIZING THE SAME |           |              |
| 096206-0890750 | THOR-P06021   | U.S. | SENSORLESS MAGNETIC BEARING TYPE BLOOD PUMP APPARATUS                      | 8,326,373 | Jul 24, 2012 |
| 096206-0890733 | THOR-P06014D  | U.S. | CENTRIFUGAL TYPE BLOOD PUMP APPARATUS                                      | 8,450,652 | Apr 30, 2013 |
| 096206-0890737 | THOR-P06038   | U.S. | APICAL RING FOR VENTRICULAR ASSIST DEVICE                                  | 8,579,790 | Nov 12, 2013 |
| 096206-0890728 | THOR-P06037   | U.S. | NON-INVASIVE DIAGNOSTICS FOR VENTRICLE ASSIST DEVICE                       | 8,613,696 | Dec 24, 2013 |
| 096206-0890763 | THOR-P06044   | U.S. | STERILIZABLE CABLE SYSTEM FOR IMPLANTABLE BLOOD PUMP                       | 8,652,024 | Feb 18, 2014 |
| 096206-0890689 | THOR-P06029   | U.S. | CENTRIFUGAL PUMP APPARATUS   | 8,770,945 | Jul 8, 2014  |
| 096206-0890699 | THOR-P06030   | U.S. | ROTATION DRIVE DEVICE AND CENTRIFUGAL PUMP APPARATUS USING THE SAME        | 8,821,365 | Sep 2, 2014  |
| 096206-0890769 | THOR-P06026   | U.S. | BLOOD PUMP APPARATUS   | 8,827,661 | Sep 9, 2014  |
| 096206-0890765 | THOR-P06045   | U.S. | BACKFLOW DETECTION FOR CENTRIFUGAL BLOOD PUMP                              | 8,834,345 | Sep 16, 2014 |
| 096206-0890752 | THOR-P06041   | U.S. | FAULT MONITOR FOR FAULT TOLERANT IMPLANTABLE PUMP                          | 8,837,096 | Sep 16, 2014 |
| 096206-0891727 | THOR-P06038C1 | U.S. | APICAL RING FOR VENTRICULAR ASSIST DEVICE                                  | 8,840,538 | Sep 23, 2014 |
| 096206-0890747 | THOR-P06040   | U.S. | QUICK-CONNECT OUTFLOW TUBE FOR VENTRICULAR ASSIST DEVICE                   | 8,882,744 | Nov 11, 2014 |
| 096206-0890760 | THOR-P06043   | U.S. | MOTOR FAULT MONITOR FOR IMPLANTABLE BLOOD                                  | 8,968,174 | Mar 3, 2015  |

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|----------------|---------------|------|--|------------|--------------|
|                |               |      | PUMP   |            |              |
| 096206-0890781 | THOR-P06054   | U.S. | MANUFACTURING METHOD FOR MEDICAL EQUIPMENT FOR REDUCING PLATELET ADHESION ON A SURFACE IN CONTACT WITH BLOOD | 8,997,349  | Apr 7, 2015  |
| 096206-0890734 | THOR-P06037D  | U.S. | NON-INVASIVE DIAGNOSTICS FOR VENTRICLE ASSIST DEVICE   | 9,056,159  | Jun 16, 2015 |
| 096206-0890766 | THOR-P06027   | U.S. | CENTRIFUGAL PUMP APPARATUS   | 9,067,005  | Jun 30, 2015 |
| 096206-0890715 | THOR-P06033   | U.S. | CENTRIFUGAL PUMP APPARATUS   | 9,068,572  | Jun 30, 2015 |
| 096206-0916262 | THOR-P06026C  | U.S. | BLOOD PUMP APPARATUS   | 9,109,601  | Aug 18, 2015 |
| 096206-0890772 | THOR-P06050   | U.S. | VERIFICATION OF MAGNETIC BALANCE FOR MAGNETICALLY LEVITATED IMPELLER   | 9,127,680  | Sep 8, 2015  |
| 096206-0890704 | THOR-P06031   | U.S. | CENTRIFUGAL PUMP APPARATUS   | 9,132,215  | Sep 15, 2015 |
| 096206-0890710 | THOR-P06032   | U.S. | CENTRIFUGAL BLOOD PUMP DEVICE  | 9,133,854  | Sep 15, 2015 |
| 096206-0890773 | THOR-P06051   | U.S. | PERCUTANEOUS CABLE WITH REDUNDANT CONDUCTORS FOR IMPLANTABLE BLOOD PUMP                                      | 9,192,705  | Nov 24, 2015 |
| 096206-0913793 | THOR-P06039US | U.S. | CENTRIFUGAL PUMP DEVICE  | 9,366,261  | Jun 14, 2016 |
| 096206-0890761 | THOR-P06060   | U.S. | IMPELLER POSITION COMPENSATION USING FIELD ORIENTED CONTROL  | 9,371,826  | Jun 21, 2016 |
| 096206-0890680 | THOR-P06028   | U.S. | CENTRIFUGAL PUMP APPARATUS   | 9,381,385  | Jul 5, 2016  |
| 096206-0890719 | THOR-P06034   | U.S. | CENTRIFUGAL PUMP APPARATUS   | 9,382,908  | Jul 5, 2016  |
| 096206-0906356 | THOR-P06029C  | U.S. | CENTRIFUGAL PUMP APPARATUS   | 9,410,549  | Aug 9, 2016  |
| 096206-0890755 | THOR-P06042   | U.S. | INTEGRATED CONTROLLER FOR VENTRICULAR ASSIST DEVICE  | 13,602,788 | Sep 4, 2012  |

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|----------------|---------------|------|--|------------|--------------|
| 096206-0890767 | THOR-P06046A  | U.S. | PUMP CABLE DISCONNECTION PREVENTION SYSTEM                                     | 61/755,497 | Jan 23, 2013 |
| 096206-0890768 | THOR-P06047   | U.S. | PROGRAMMING OF BACKUP CONTROL UNIT FOR CARDIAC ASSIST SYSTEM                   | 13/775,622 | Feb 25, 2013 |
| 096206-0890770 | THOR-P06048   | U.S. | STARTUP SEQUENCE FOR CENTRIFUGAL PUMP WITH LEVITATED IMPELLER                  | 13/778,411 | Feb 27, 2013 |
| 096206-0890771 | THOR-P06049   | U.S. | CENTRIFUGAL BLOOD PUMP WITH PARTITIONED IMPLANTABLE DEVICE                     | 13/804,144 | Mar 14, 2013 |
| 096206-0890774 | THOR-P06052   | U.S. | ROTARY PUMP WITH LEVITATED IMPELLER HAVING THRUST BEARING FOR IMPROVED STARTUP | 13/860,569 | Apr 11, 2013 |
| 096206-0890776 | THOR-P06053   | U.S. | CARDIAC PUMP WITH SPEED ADAPTED FOR VENTRICLE UNLOADING                        | 13/873,551 | Apr 30, 2013 |
| 096206-0890726 | THOR-P06036US | U.S. | ROTATION DRIVE DEVICE AND CENTRIFUGAL PUMP APPARATUS EMPLOYING SAME            | 14/034,730 | Sep 24, 2013 |
| 096206-0917081 | THOR-P06061A  | U.S. | BLOOD PUMP AND METHOD OF SUCTION DETECTION                                     | 62/041,910 | Aug 26, 2014 |
| 096206-0917082 | THOR-P06062A  | U.S. | BLOOD PUMP AND METHOD OF SUCTION DETECTION                                     | 62/041,917 | Aug 26, 2014 |
| 096206-0917129 | THOR-P06038C2 | U.S. | APICAL RING FOR VENTRICULAR ASSIST DEVICE                                      | 14/484,498 | Sep 12, 2014 |
| 096206-0934440 | THOR-P06065A  | U.S. | INFLOW FOR CENTRIFUGAL BLOOD PUMP  | 62/114,448 | Feb 10, 2015 |
| 096206-0934443 | THOR-P06064A  | U.S. | HEART BEAT IDENTIFICATION AND PUMP SPEED SYNCHRONIZATION                       | 62/114,886 | Feb 11, 2015 |
| 096206-0935803 | THOR-06066A   | U.S. | ALTERNATING PUMP   | 62/115,318 | Feb 12, 2015 |



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|                |               |      | GAPS   |            |              |
|----------------|---------------|------|--|------------|--------------|
| 096206-0935802 | THOR-P06067A  | U.S. | SYSTEM AND METHOD FOR CONTROLLING THE POSITION OF A LEVITATED ROTOR.                           | 62/115,324 | Feb 12, 2015 |
| 096206-0935981 | THOR-P06067A2 | U.S. | SYSTEM AND METHOD FOR CONTROLLING THE POSITION OF A LEVITATED ROTOR.                           | 62/115,603 | Feb 12, 2015 |
| 096206-0934441 | THOR-P06063A  | U.S. | IMPELLER SUSPENSION MECHANISM FOR HEART PUMP   | 62/115,741 | Feb 13, 2015 |
| 096206-0950210 | THOR-P06046US | U.S. | CABLE SYSTEM FOR IMPLANTABLE BLOOD PUMP WITH ACCIDENTAL DISCONNECTION PREVENTION               | 14/761,092 | Jul 15, 2015 |
| 096206-0954676 | THOR-P06061US | U.S. | BLOOD PUMP AND METHOD OF SUCTION DETECTION   | 14/834,757 | Aug 25, 2015 |
| 096206-0954675 | THOR-P06062US | U.S. | BLOOD PUMP AND METHOD OF SUCTION DETECTION   | 14/834,771 | Aug 25, 2015 |
| 096206-0946606 | THOR-P06059US | U.S. | HEART INNER WALL CHECKING TOOL AND DEVICE FOR CHECKING HEART INNER WALL.                       | 14/761,146 | Nov 4, 2015  |
| 096206-0959891 | THOR-P06068A  | U.S. | PRESSURE/FLOW CHARACTERISTIC MODIFICATION OF A CENTRIFUGAL PUMP IN A VENTRICULAR ASSIST DEVICE | 62/255,774 | Nov 16, 2015 |
| 096206-0969956 | THOR-P06064   | U.S. | HEART BEAT IDENTIFICATION AND PUMP SPEED SYNCHRONIZATION                                       | 15/041,716 | Feb 11, 2016 |
| 096206-0969958 | THOR-P06066   | U.S. | ALTERNATING PUMP GAPS  | 15/041,987 | Feb 11, 2016 |
| 096206-0969961 | THOR-P06063   | U.S. | IMPELLER SUSPENSION MECHANISM FOR HEART PUMP   | 15/042,685 | Feb 12, 2016 |

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|----------------|----------------|------------------------|---|-------------------|--------------|
| 096206-0971739 | THOR-P06067    | U.S.                   | SYSTEM AND METHOD FOR CONTROLLING THE POSITION OF A LEVITATED ROTOR   | 15/042,431        | Feb 12, 2016 |
| 096206-1010512 | THOR-P06060D   | U.S.                   | IMPELLER POSITION COMPENSATION USING FIELD ORIENTED CONTROL   | 15/172,760        | Jun 3, 2016  |
| 096206-1010513 | THOR-P06034D   | U.S.                   | CENTRIFUGAL PUMP APPARATUS  | 15/174,639        | Jun 6, 2016  |
| 096206-0890673 | THOR-P06027CN  | China                  | CENTRIFUGAL PUMP DEVICE   | ZL 200980150158.4 | Mar 4, 2015  |
| 096206-0890691 | THOR-P06029CN  | China                  | CENTRIFUGAL PUMP DEVICE   | ZL 201080011422.9 | Dec 10, 2014 |
| 096206-0890677 | THOR-P06004EP  | European Patent Office | CENTRIFUGAL LIQUID-PUMPING SYSTEM   | 1331017           | Aug 14, 2013 |
| 096206-0894241 | THOR-P06005EP  | European Patent Office | BLOOD PUMP  | 1402907           | Feb 25, 2009 |
| 096206-0890683 | THOR-P06005EP2 | European Patent Office | BLOOD PUMP SYSTEM   | 2030641           | Feb 25, 2015 |
| 096206-0890780 | THOR-P06027EP  | European Patent Office | CENTRIFUGAL PUMP DEVICE   | 2372160           | Jul 30, 2014 |
| 096206-0890678 | THOR-P06028EP  | European Patent Office | CENTRIFUGAL PUMP DEVICE   | 2405141           | Apr 9, 2014  |
| 096206-0890672 | THOR-P06003FR  | France                 | CENTRIFUGAL LIQUID PUMP DEVICE  | 1327455           | Jan 3, 2007  |
| 096206-0893288 | THOR-P06004FR  | France                 | CENTRIFUGAL LIQUID-PUMPING SYSTEM   | 1331017           | Aug 14, 2013 |
| 096206-0890688 | THOR-P06005FR  | France                 | BLOOD PUMP  | 1402907           | Feb 25, 2009 |
| 096206-0927119 | THOR-P06005FR2 | France                 | BLOOD PUMP SYSTEM   | 2030641           | Feb 25, 2015 |
| 096206-0890705 | THOR-P06009FR  | France                 | EXTERNAL BATTERY PACK FOR ARTIFICIAL HEART AND BATTERY CHARGER WITH DATA COLLECTION FUNCTION UTILIZING THE SAME | 1486217           | May 12, 2010 |
| 096206-0908849 | THOR-P06027FR  | France                 | CENTRIFUGAL PUMP  | 2372160           | Jul 30, 2014 |

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|                |                    |             | DEVICE   |                       |              |
|----------------|--------------------|-------------|--|-----------------------|--------------|
| 096206-0908087 | THOR-P06028FR      | France      | CENTRIFUGAL PUMP<br>DEVICE   | 2405141               | Apr 9, 2014  |
| 096206-1012920 | THOR-P06029FR      | France      | CENTRIFUGAL PUMP<br>DEVICE   | 2405140               | Oct 19, 2016 |
| 096206-890731  | THOR-P06014FR      | France      | BLOOD PUMP WITH<br>HYDRODYNAMIC<br>BEARING   | 1598087               | Feb 3, 2010  |
| 096206-0890669 | THOR-P06003DE      | German<br>y | CENTRIFUGAL FLUID<br>PUMP WITH FAILURE<br>CORRECTION   | 60310778              | Jan 3, 2007  |
| 096206-0893287 | THOR-P06004DE      | German<br>y | CENTRIFUGAL<br>LIQUID-PUMPING<br>SYSTEM  | 603 44<br>698.1       | Aug 14, 2013 |
| 096206-0890684 | THOR-P06005DE      | German<br>y | BLOOD PUMP   | 60347360.1            | Feb 25, 2009 |
| 096206-0927118 | THOR-<br>P06005DE2 | German<br>y | BLOOD PUMP SYSTEM  | 60347360.1            | Feb 25, 2015 |
| 096206-0890701 | THOR-P06009DE      | German<br>y | BATTERY PACK FOR<br>ARTIFICIAL HEART<br>AND BATTERY<br>CHARGER WITH DATA<br>COLLECTION<br>FUNCTION UTILIZING<br>THE SAME | 6020040271<br>03.9-08 | May 12, 2010 |
| 096206-0890729 | THOR-P06014DE      | German<br>y | CENTRIFUGAL TYPE<br>BLOOD PUMP<br>APPARATUS  | 6020030192<br>19      | Feb 3, 2010  |
| 096206-0908847 | THOR-P06027DE      | German<br>y | CENTRIFUGAL PUMP<br>DEVICE   | 2372160               | Jul 30, 2014 |
| 096206-0908088 | THOR-P06028DE      | German<br>y | CENTRIFUGAL PUMP<br>DEVICE   | 2405141               | Apr 9, 2014  |
| 096206-1012919 | THOR-P06029DE      | German<br>y | CENTRIFUGAL PUMP<br>DEVICE   | 2405140               | Oct 19, 2016 |
| 096206-0890667 | THOR-P06001JP      | Japan       | CONTINUOUS FLOW<br>TYPE ARTIFICIAL<br>HEART SYSTEM   | 4391680               | Oct 16, 2009 |
| 096206-0890668 | THOR-P06002JP      | Japan       | INSULATION TYPE<br>POWER<br>TRANSMISSION<br>CONNECTOR AND<br>MEDICAL EQUIPMENT<br>HAVING THE SAME                        | 4584484               | Sep 10, 2010 |
| 096206-0890676 | THOR-P06004JP      | Japan       | CENTRIFUGAL<br>LIQUID-PUMPING<br>SYSTEM  | 4004296               | Aug 31, 2007 |
| 096206-0890681 | THOR-P06005JP      | Japan       | BLOOD PUMP   | 4041376               | Nov 16, 2007 |
| 096206-0890692 | THOR-P06006JP      | Japan       | CENTRIFUGAL TYPE   | 4456857               | Feb 12, 2010 |

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|                |                |       |   |         |              |
|----------------|----------------|-------|---|---------|--------------|
|                |                |       | BLOOD PUMP APPARATUS  |         |              |
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| 096206-0890711 | THOR-P06010JP  | Japan | LIQUID PUMP DEVICE  | 4004440 | Aug 31, 2007 |
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| 096206-0890727 | THOR-P06014JP2 | Japan | CENTRIFUGAL TYPE BLOOD PUMP APPARATUS   | 4340182 | Jul 10, 2009 |
| 096206-0890725 | THOR-P06055JP  | Japan | BLOOD PUMP SYSTEM   | 5015985 | Jun 15, 2012 |
| 096206-0890736 | THOR-P06015JP  | Japan | CENTRIFUGAL TYPE BLOOD PUMP APPARATUS   | 4340183 | Jul 10, 2009 |
| 096206-0890738 | THOR-P06016JP  | Japan | CENTRIFUGAL TYPE BLOOD PUMP APPARATUS   | 4759261 | Jun 10, 2011 |
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| 096206-0890741 | THOR-P06018JP  | Japan | CENTRIFUGAL BLOOD PUMP APPARATUS  | 4472610 | Mar 12, 2010 |
| 096206-0890743 | THOR-P06019JP  | Japan | CENTRIFUGAL BLOOD PUMP APPARATUS  | 4472612 | Mar 12, 2010 |
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|                |                |                | MONITORING SYSTEM  |         |              |
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| 096206-0890759 | THOR-P06025JP  | Japan          | BLOOD PUMP   | 5249646 | Apr 19, 2013 |
| 096206-0890762 | THOR-P06026JP  | Japan          | BLOOD PUMP APPARATUS   | 5171953 | Jan 11, 2013 |
| 096206-0890670 | THOR-P06027JP  | Japan          | CENTRIFUGAL PUMP DEVICE  | 5577503 | Jul 18, 2014 |
| 096206-0890775 | THOR-P06056JP  | Japan          | CENTRIFUGAL TYPE PUMP APPARATUS                                  | 5693812 | Feb 13, 2015 |
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| 096206-0970329 | P06064WO        | PCT            | HEART BEAT IDENTIFICATION AND PUMP SPEED SYNCHRONIZATION                | PCT/US2016/017611 | Feb 11, 2016 |
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