

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4514150

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
Name		Execution Date
THORATEC LLC		07/20/2017
RECEIVING PARTY DATA		
Name:	TC1 LLC	
Street Address:	ONE ST. JUDE MEDICAL DRIVE	
City:	ST. PAUL	
State/Country:	MINNESOTA	
Postal Code:	55117	
PROPERTY NUMBERS Total: 21		
Property Type	Number	
Patent Number:	7431688	
PCT Number:	US2004029842	
Application Number:	11694761	
PCT Number:	US2007065717	
Patent Number:	9512852	
Application Number:	15335369	
Patent Number:	7416525	
Patent Number:	7682301	
Patent Number:	8684902	
Patent Number:	8579607	
Patent Number:	8807968	
Patent Number:	9545467	
Application Number:	15385364	
Patent Number:	7753645	
Patent Number:	8118724	
Application Number:	13356486	
Patent Number:	7802966	
Patent Number:	8834342	
Patent Number:	9533083	
Application Number:	15370254	

PATENT

Property Type	Number
Application Number:	12699754

CORRESPONDENCE DATA

Fax Number: (310)327-3466

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.

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Correspondent Name: INSKEEP IP GROUP, INC./JAMES W. INSKEEP

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Address Line 4: TORRANCE, CALIFORNIA 90504

ATTORNEY DOCKET NUMBER:	208151-100
NAME OF SUBMITTER:	JAMES W. INSKEEP, ESQ.
SIGNATURE:	/James W. Inskeep, Reg. No 33,910/
DATE SIGNED:	07/21/2017

Total Attachments: 6

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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 conveyed to TC1 LLC, a Limited Liability Company having a principal place of business at One St. Jude Medical Drive, St. Paul, MN 55117 (“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.

CONFIRMATORY ASSIGNMENT

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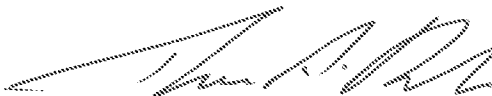
Assignor hereby agrees to sign all papers and documents, including without limitation, applications, declarations, oaths and petitions, and, at the Assignee's expense, perform any other acts that are necessary in connection with prosecution of patent application(s) or intellectual property described 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: 7/20/2017


Thomas A. Rendos
Title: Division Counsel
TCI LLC, Assignee

Dated: 7/20/2017

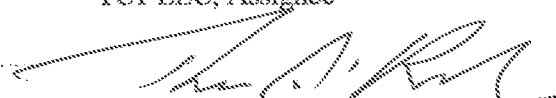

Thomas A. Rendos
Title: Division Counsel
Thoratec LLC, Assignor

Exhibit A

IPG Ref. 208151-	Thoratec Ref.	City	Title	Application No.	Filing Date	Patent No.	Issue Date	Current Owner
500	THOR-P02015	US	Rotary Blood Pump	10/940,419	09/14/2004	7,431,688	10/7/2008	Thoratec Corporation
500 ¹	THOR-P02015WO	PCT	Rotary Blood Pump	PCT/US2004/023842	09/14/2004			Thoratec Corporation
500/AU	THOR-P02015AU	AU	Rotary Blood Pump	2004/273831	09/14/2004 AU entry: 4/18/06	2004273831	09/30/2010	Thoratec Corporation
500/AU-DIV	THOR-P02015AU2	AU	Rotary Blood Pump	2010221783	09/14/2004 AU entry: 09/15/10	2010221783	04/26/2012	Thoratec Corporation
500/AU-DIV2	THOR-P02015AU3	AU	Rotary Blood Pump	2012202128	09/14/2004 AU entry: 04/12/2012	2,012,202,129	08/20/2015	Thoratec Corporation
500/CA	THOR-P02015CA	CA	Rotary Blood Pump	2,579,637	09/14/2004 CA entry: 03/14/2007	2,579,637	08/14/2016	Thoratec Corporation
500/CN	THOR-P02015CN	CN	Rotary Blood Pump	200480034041.7	09/14/2004 CN entry: 05/18/2006	ZL200480034041.7	05/26/2010	Thoratec Corporation
500/CN-DIV	THOR-P02015CN2	CN	Rotary Blood Pump	201010119502.8	09/14/2004 CN entry: 02/05/2010	ZL201010119502.8	04/18/2012	Thoratec Corporation
500/EP	THOR-P02015EP	EPO	Rotary Blood Pump	04763894.1	09/14/2004 EPO entry: 04/18/06			Thoratec Corporation
500/IL	THOR-P02015IL	IL	Rotary Blood Pump	174362	09/14/2004 IL entry: 03/16/2006	174362	02/01/2011	Thoratec Corporation
500/JP2	THOR-P02015JP1	JP	Rotary Blood Pump	2006-536958	09/14/2004 JP entry: 03/17/2006			Thoratec Corporation
500/JP-DIV	THOR-P02015JP2	JP	Rotary Blood Pump	2007-0242976	09/14/2004 JP entry: 09/19/2007	4892391	09/30/2011	Thoratec Corporation
500/JP-DIV2	THOR-P02015JP3	JP	Rotary Blood Pump	2010-258401	09/14/2004 JP entry: 09/19/2007	5411836	11/15/2013	Thoratec Corporation
500/JP-DIV3	THOR-P02015JP3	JP	Rotary Blood Pump	2012-248333	09/14/2004 JP entry: 11/18/2010	5726152	04/10/2005	Thoratec Corporation
500/JP-DIV4 ³	THOR-P02015JP5	JP	Rotary Blood Pump	2014-79320	09/14/2004 JP entry: 11/12/2012	5726152	04/10/2015	Thoratec Corporation
500/JP-DIV5 ⁴	THOR-P02015JP6	JP	Rotary Blood Pump	2016-15199	09/14/2004 JP entry: 11/12/2012			Thoratec Corporation
500/KR	THOR-P02015KR	KR	Rotary Blood Pump	2006-7006962	09/14/2004 KR entry: 04/11/2006	1229384	01/29/2013	Thoratec Corporation
500/MX	THOR-P02015MX	MX	Rotary Blood Pump	PA/06/2006/003132	09/14/2004 MX entry: 03/17/2006	271234	10/23/2009	Thoratec Corporation
500/SG	THOR-P02015SG	SG	Rotary Blood Pump	200601784-2	09/14/2004 SG entry: 03/17/2006	3/12230	08/29/2008	Thoratec Corporation
500/TW	THOR-P02015TW	TW	Rotary Blood Pump	93128212	09/14/2004 TW entry: 03/17/2006	1354071	12/11/2011	Thoratec Corporation
501 ⁶	THOR-P02016	US	Rotary Blood Pump	11/694,761	03/30/2007			Thoratec Corporation
501 ⁶	THOR-P02016WO	PCT	Rotary Blood Pump	PCT/US07/65717	03/30/2007			Thoratec Corporation

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IPG Ref. 208151-	Thoratec Ref.	Ctry	Title	Application No.	Filing Date	Patent No.	Issue Date	Current Owner
501/AU7	THOR-P02016AU	AU	Rotary Blood Pump	2007233078	03/30/2007 AU entry: 09/26/2008	2007233078	03/08/2012	Thoratec Corporation
501/AU-DIV7	THOR-P02016AU2	AU	Rotary Blood Pump	2012201061	03/30/2007 AU entry: 02/23/2012			Thoratec Corporation
501/CA7	THOR-P02016CA	CA	Rotary Blood Pump	2,647,151	03/30/2007 CA entry: 09/22/2008			Thoratec Corporation
501/CN6	THOR-P02016CN	CN	Rotary Blood Pump	200780020212.4	03/30/2007 CN entry: 12/01/2008			Thoratec Corporation
501/CN-DIV7	THOR-P02016CN2	CN	Rotary Blood Pump	201210489638.7	03/30/2007 CN entry: 11/27/2012			Thoratec Corporation
501/EP7	THOR-P02016EP	EP	Rotary Blood Pump	775887.7	03/30/2007 EP entry: 10/15/2008			Thoratec Corporation
501/HK7	Unknown	HK	Rotary Blood Pump	11105759.7	03/30/2007 HK entry: 06/08/2011			Thoratec Corporation
501/IL7	THOR-P02016IL	IL	Rotary Blood Pump	194386	03/30/2007 IL entry: 10/15/2008			Thoratec Corporation
501/JP7	THOR-P02016JP	JP	Rotary Blood Pump	2009-503322	03/30/2007 JP entry: 09/30/2008			Thoratec Corporation
501/JP-DIV7	THOR-P02016JP2	JP	Rotary Blood Pump	2012-236384	03/30/2007 JP entry: 10/26/2012			Thoratec Corporation
501/KR7	THOR-P02016KR	KR	Rotary Blood Pump	2008-7026573	03/30/2007 KR entry: 10/30/2006			Thoratec Corporation
501/SG7	THOR-P02016SG	SG	Rotary Blood Pump	200807202-7	03/30/2007 SG entry: 09/26/2008	201102313-2	03/31/2011	Thoratec Corporation
501/SG-DIV7	THOR-P02016SG2	SG-DIV	Rotary Blood Pump	201102313-2	03/30/2007 SG entry: 03/11/2011			Thoratec Corporation
501-CON	THOR-P02016C	US	Rotary Blood Pump	13739,814	01/11/2013	9,513,852	12/06/2016	Thoratec Corporation
501-CON2	THOR-P02016C2	US	Rotary Blood Pump	15,035,369	10/26/2016			Thoratec Corporation
502	THOR-P02017	US	Rotary Blood Pump	10,937,091	09/09/2004	7,416,525	08/26/2008	Thoratec Corporation
503	THOR-P02019	US	Rotary Blood Pump	10,937,109	09/09/2004	7,582,301	03/23/2010	Thoratec Corporation
504	THOR-P02015D1	US	(Div of 500) Rotary Blood Pump With Opposing Spindle Magnets	11,950,318	12/04/2007	8,684,902	04/01/2014	Thoratec Corporation
505	THOR-P02015D2	US	(Div of 500) Rotary Blood Pump With Opposing Spindle Magnets, Bore and Drive Windings	11,950,328	12/04/2007	8,579,607	11/12/2013	Thoratec Corporation
505-CON	THOR-P02015D2C	US	Rotary Blood Pump With Opposing Spindle Magnets, Bore and Drive Windings	14,047,717	10/07/2013	8,807,968	08/19/2014	Thoratec Corporation
505-CON2	THOR-P02015D2C2	US	Rotary Blood Pump With Opposing Spindle Magnets, Bore and Drive Windings	14,037,454	07/09/2014	9,545,467	01/17/2017	Thoratec Corporation

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HPG Ref. 200151-	Thoratec Ref.	City	Title	Application No.	Filing Date	Patent No.	Issue Date	Current Owner
505-CON3	THOR-P02015D2C3	US	Rotary Blood Pump With Opposing Spindle Magnets, Bore and Drive Windings	15,385,364	12/20/2016			Thoratec Corporation
506	THOR-P02015D3	US	(Div of 503) Rotary Blood Pump With Opposing Spindle Magnets And Contoured Housing	11,850,342	12/04/2007	7,753,645	07/13/2010	Thoratec Corporation
507	THOR-P02015D4	US	(Div of 500) Rotary Blood Pump With Opposing Spindle Magnets and Hydrodynamic Bearings	11,850,349	12/04/2007	8,118,724	02/21/2012	Thoratec Corporation
507/DIV ¹		US	(Div of 507) Rotary Blood Pump	13,356,486	01/23/2012			Thoratec Corporation
508	THOR-P02015D5	US	(Div of 500) Rotary Blood Pump With Lifts	11,850,353	12/04/2007	7,802,966	09/23/2010	Thoratec Corporation
509	THOR-P02017D	US	(Div of 502) Rotary Blood Pump	12,197,237	08/23/2006	8,834,342	09/16/2014	Thoratec Corporation
509-CON	THOR-P02017DC	US	Methods Of Operating A Rotary Blood Pump (as amended)	14,328,610	07/10/2014	9,533,083	01/03/2017	Thoratec Corporation
509-CON2	THOR-P02017DC	US	Methods Of Operating A Rotary Blood Pump	15,370,254	12/08/2016			Thoratec Corporation
512 ¹⁰	THOR-P02019D	US	(Div. of 503) Rotary Blood Pump	12,639,754	02/03/2010			Thoratec Corporation

¹ Expired 03/18/2006.

² Abandoned 08/13/2012.

³ Abandoned 02/12/2016.

⁴ Abandoned 03/24/2017.

⁵ Abandoned 05/08/2013.

⁶ Expired 09/31/2008.

⁷ Abandoned 08/14/2013.

⁸ Abandoned 11/12/2012.

⁹ Abandoned 10/16/2012.

¹⁰ Abandoned 01/03/2013.

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