# 505362889 03/07/2019

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5409679

SUBMISSION TYPE:		NEW ASSIGNMENT	NEW ASSIGNMENT	
NATURE OF CONVEYAN	ICE:	ASSIGNMENT	ASSIGNMENT	
CONVEYING PARTY DA	ТА			
		Name	Execution Date	
RAHUL AGARWAL			04/24/2018	
ALLISON CONNOLLY			04/24/2018	
YELENA NABUTOVSKY			04/20/2018	
JULIE PRILLINGER			04/24/2018	
RECEIVING PARTY DAT	ГА			
Name:	TC1 LLC	<u>}</u>		
Street Address:	ONE ST.	. JUDE MEDICAL DRIVE		
City:	ST. PAU	IL		
State/Country:	MINNESOTA			
Postal Code:	55117			
Property Type		Number		
Application Number:	1	6295375	-	
Application Number:	1	6295375		
Application Number: CORRESPONDENCE DA		6295375		
CORRESPONDENCE DA	ATA (6	650)326-2422		
CORRESPONDENCE DA Fax Number: <i>Correspondence will be</i>	ATA (6 e sent to t			
CORRESPONDENCE DA Fax Number: <i>Correspondence will be</i> <i>using a fax number, if p</i> Phone:	ATA (6 e sent to t provided; 6	650)326-2422 the e-mail address first; if that is un if that is unsuccessful, it will be ser 50-326-2400		
CORRESPONDENCE DA Fax Number: <i>Correspondence will be using a fax number, if p</i> Phone: Email:	ATA (6 e sent to a provided; 6 lv	650)326-2422 the e-mail address first; if that is una if that is unsuccessful, it will be ser 50-326-2400 veaver@kilpatricktownsend.com		
CORRESPONDENCE DA Fax Number: <i>Correspondence will be using a fax number, if p</i> Phone: Email: Correspondent Name:	ATA (6 e sent to t provided; 6 lv R	650)326-2422 <b>the e-mail address first; if that is un</b> <b>if that is unsuccessful, it will be ser</b> 50-326-2400 weaver@kilpatricktownsend.com RICHARD B. CHRISTIANSEN	nt via US Mail.	
CORRESPONDENCE DA Fax Number: <i>Correspondence will be using a fax number, if p</i> Phone: Email:	ATA (6 e sent to t provided; 6 Iv R K	650)326-2422 the e-mail address first; if that is una if that is unsuccessful, it will be ser 50-326-2400 veaver@kilpatricktownsend.com	nt via US Mail. KTON LLP	
CORRESPONDENCE DA Fax Number: <i>Correspondence will be using a fax number, if p</i> Phone: Email: Correspondent Name: Address Line 1:	ATA e sent to t provided; 6 lv R K 1	650)326-2422 the e-mail address first; if that is un if that is unsuccessful, it will be ser 50-326-2400 weaver@kilpatricktownsend.com RICHARD B. CHRISTIANSEN KILPATRICK TOWNSEND AND STOC	nt via US Mail. KTON LLP	
CORRESPONDENCE DA Fax Number: <i>Correspondence will be using a fax number, if p</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 2:	ATA (6 e sent to t forovided; 6 Iv R K 1 A	650)326-2422 <b>the e-mail address first; if that is un</b> <b>if that is unsuccessful, it will be ser</b> 50-326-2400 weaver@kilpatricktownsend.com RICHARD B. CHRISTIANSEN KILPATRICK TOWNSEND AND STOC 100 PEACHTREE STREET, SUITE 28	nt via US Mail. KTON LLP	
CORRESPONDENCE DA Fax Number: Correspondence will be using a fax number, if p Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4:	ATA (6 e sent to t forovided; 6 Iv R K 1 A	650)326-2422 the e-mail address first; if that is un- if that is unsuccessful, it will be ser 50-326-2400 weaver@kilpatricktownsend.com RICHARD B. CHRISTIANSEN KILPATRICK TOWNSEND AND STOC 100 PEACHTREE STREET, SUITE 28 TLANTA, GEORGIA 30309	nt via US Mail. KTON LLP	
CORRESPONDENCE DA Fax Number: Correspondence will be using a fax number, if p Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4:	ATA (6 e sent to t forovided; 6 Iv R K 1 A	650)326-2422 the e-mail address first; if that is un- if that is unsuccessful, it will be ser 50-326-2400 weaver@kilpatricktownsend.com RICHARD B. CHRISTIANSEN RICHARD B. CHRISTIANSEN CILPATRICK TOWNSEND AND STOC 100 PEACHTREE STREET, SUITE 28 ATLANTA, GEORGIA 30309 096205-037010US-1123220	nt via US Mail. KTON LLP	

PATENT REEL: 048530 FRAME: 0109

#### ASSIGNMENT

#### (Patent Application)

We [I], the undersigned, have invented certain inventions and improvements disclosed in a utility (provisional or non-provisional) or design patent application entitled

"COORDINATED VENTRICULAR ASSIST AND CARDIAC RHYTHM MANAGEMENT DEVICES AND METHODS,"

filed with the U.S. Patent & Trademark Office on March 19, 2018 and assigned serial no. 62/644,858.

For one dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which we [I] acknowledge, we [I]:

- Agree to assign, transfer, convey, and sell, hereby assign, transfer, convey, and sell and have assigned, transferred, conveyed, and sold to TC1 LLC, a limited liability company of the State of Delaware having a principal place of business at One St. Jude Medical Drive, St. Paul, Minnesota 55117 ("Assignee"), the entire right, title, and interest in and to:
  - (a) all intellectual property (including, without limitation, any innovation, information, invention, discovery, product, process, work or design) disclosed, embodied, shown, or claimed in the above-referenced patent application, implicitly or explicitly;
    - (b) the above-referenced patent application, and all applications based in whole or in part upon the above-referenced patent application, 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 application or application for other rights based in whole or in part on the above-referenced patent application;
    - (c) the right to claim priority to the above-referenced patent application, and any and all applications referenced in subsection (b); and
    - (d) 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
    - (e) 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

### PATENT REEL: 048530 FRAME: 0110

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.

- 2. Authorize and request 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 paragraph 1 of this Assignment.
- 3. Agree 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 paragraph 1 of this Assignment and the enforcement of patent(s) or other rights resulting from such patent application(s) or intellectual property.
- 4. Agree that the terms, covenants, and conditions of this Assignment shall inure to the benefit of the Assignee, its successors, assigns and other legal representative, and shall be binding upon us [me], as well as our [my] heirs, legal representatives, and assigns.
- 5. Promise and affirm that we [I] have not entered, and will not enter, into any assignment, contract, or understanding that conflicts with this Assignment.
- 6. Authorize Kilpatrick Townsend & Stockton to insert above the application number and filing date of the above-described patent application when known.

Signed on the dates indicated beside our [my] signatures [signature].

Signature:	Rahul Agawal	Date: 04/24/2018
Signature:	Allison Connolly	Date:
Signature:	Yelena Nabutovsky	Date:
Signature:	Julie Prillinger	Date:

ASSIGNMENT COORDINATED VENTRICULAR ASSIST AND CARDIAC RHYTHM MANAGEMENT DEVICES AND METHODS Attorney Docket No. 096205-037000US-1039600 Page 2 of 2

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.

- Authorize and request 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 paragraph 1 of this Assignment.
- 3. Agree 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 paragraph 1 of this Assignment and the enforcement of patent(s) or other rights resulting from such patent application(s) or intellectual property.
- 4. Agree that the terms, covenants, and conditions of this Assignment shall inure to the benefit of the Assignee, its successors, assigns and other legal representative, and shall be binding upon us [me], as well as our [my] heirs, legal representatives, and assigns.
- 5. Promise and affirm that we [1] have not entered, and will not enter, into any assignment, contract, or understanding that conflicts with this Assignment.
- 6. Authorize Kilpatrick Townsend & Stockton to insert above the application number and filing date of the above-described patent application when known.

Signed on the dates indicated beside our [my] signatures [signature].

Signature:		Date:
	Rahul Agarwal	
Signature:	Mia Low	Date: Apr 24 2018
Signature:	Yung Yelena Nabutovsky	Date: Apr 20 2018
Signature:	Julie Prillinger	Date: AQT 24,2018

PATENT REEL: 048530 FRAME: 0112

RECORDED: 03/07/2019