PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT5597148

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ROBERT B. STODDARD	02/23/2017
ERIC R. LARSON	03/18/2017
SCOTT E.M. FRUSHOUR	03/03/2017
DAVID N. HEARD	03/09/2017

RECEIVING PARTY DATA

Name:	COVIDIEN LP
Street Address:	15 HAMPSHIRE STREET
City:	MANSFIELD
State/Country:	MASSACHUSETTS
Postal Code:	02048

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16456646

CORRESPONDENCE DATA

Fax Number: (303)581-6632

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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elizabeth.e.burlingame@medtronic.com

Correspondent Name: COVIDIEN LP

Address Line 1: 5920 LONGBOW DRIVE

Address Line 2: ATTN: IP LEGAL

Address Line 4: **BOULDER, COLORADO 80301**

ATTORNEY DOCKET NUMBER:	H-EB-00827US01CON
NAME OF SUBMITTER:	STEPHEN B. PERKINS
SIGNATURE:	/Stephen B. PERKINS/
DATE SIGNED:	06/28/2019

Total Attachments: 4

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PATENT REEL: 049624 FRAME: 0324

Attorney Docket No. H-EB-00827.USU2 (203-10362B)

PATENT

For: [X] U.S. and/or [X] Foreign Rights
For: [X] U.S. Application or [] U.S. Patent
By: [X] Inventor or [] Present Owner

ASSIGNMENT OF INVENTION

In consideration of the payment by ASSIGNEE to ASSIGNORS of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSI	SNORS:	
		Robert B. Stoddard Eric R. Larson Scott E.M. Frushour David N. Heard
PTO a	add the fo	Recorded on: Reel Frame
nereb	y selis, a:	ssigns and transfers to
ASSIC	SNEE:	Covidien LP 15 Hampshire Street Mansfield, MA 02048 US
and th	e succes	sors, assigns and legal representatives of the ASSIGNEE
[X] th	e entire r	ight, title and interest
[] an posse	undivide ssions	d percent (%) interest for the United States and its territorial
future	infringen	preign countries, including all rights to claim priority, the right to sue for present, past and nent, in the United States, its territorial possessions, and in all foreign countries, including all rention rights in and to the invention and any and all improvements entitled:
	DEVI	CES, SYSTEMS, AND METHODS FOR COOLING A SURGICAL INSTRUMENT
and w	hich is fo	(Title) und in
(a) (b)	[x]	U.S. application Serial No. 15/462,815 filed on March 18,2017. U.S. provisional application No. 62/314,650 filed on March 29, 2016 and U.S. provisional application No. 62/314,633 filed on March 29, 2016.
(d)	[] []	U.S. Patent No issued PCT application No filed on A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately.
(e)	[x]	and any legal equivalent thereof in a foreign country, including the right to claim priority and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, continuation-in-part, divisional, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof.

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ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue all such Letters Patent to ASSIGNEE:

ASSIGNORS further covenant to promptly provide all pertinent facts and documents known and accessible to ASSIGNORS relating to said invention and said Letters Patent and legal equivalents; to testify as to the same in any interference, litigation or proceeding related thereto; to execute and deliver any and all papers that may be necessary or desirable to perfect the title to said invention or any Letters Patents which may be granted therefore in said ASSIGNEE, its successors, assigns or other legal representatives; to execute any additional or divisional applications for patents for said invention, or any part or parts thereof, and for the reissue of any Letters Patents to be granted therefore; and to make all rightful oaths and do all lawful acts requisite for procuring the same or for aiding therein, all without further compensation, but at the sole expense of ASSIGNEE, its successors, assigns, or other legal representatives.

ASSIGNORS hereby grant ASSIGNEE and Assignee's attorneys the power to insert the Serial No. and/or filing date of the above-described application(s) after such information becomes known to them.

IN WITNESS WHEREOF, I/We have hereunto set hand and seal.

Robert B. Stoddard (Date)

State of Colorado)

County of) ss

Before me this 23rd day of February 2017, personally appeared **Robert B.**Stoddard, to me personally known to be the person described in and who executed the above instrument, and acknowledged to me that he/she executed the same of his own free will for the purposes therein set forth

Notary Public

AFFIX SEAL

CARMEN G CORONA NOTARY PUBLIC STATE OF COLORADO NOTARY ID 20154032958 MY COMMISSION EXPIRES SEPTEMBER 22, 2019

Eric R. Larson	-	3/18/17 (Date)
State of Colorado)) ss County of)		
to me personally known to be the persor	n described in and who	2017, personally appeared Eric R. Larson , executed the above instrument, and free will for the purposes therein set forth.
ELIZABETH BURI Notary Pub State of Colo Notary ID 20034 My Commission Expire	olic orado	Elyaboth Burligam, Notary Public
Scott E.M. Frushour	-	3/3/2017 (Date)
State of Colorado)) ss		
Before me this 3 rd da Frushour, to me personally known to be and acknowledged to me that he/she exertorth.	the person described i	2017, personally appeared Scott E.M. n and who executed the above instrument, own free will for the purposes therein set
MARY No State AFFIX SEAL Notary I	Y JO MILACEK stary Public e of Colorado D 19874137165 n Expires Feb 28, 2019	Many Mulanek Notary Public

	iMar 17
David N. Heard	1 Mar / 7 (Date)
State of Colorado)) ss	
County of Boulder) ss	
Before me this 44 day of March 2017, p Heard, to me personally known to be the person described in and who acknowledged to me that he/she executed the same of his own free will	executed the above instrument, and
ELIZABETH BURLINGAME	nbook Berleuns Notary Public
Notary Public State of Colorado AFFIX SEAL Notary ID 20034036936 My Commission Expires Apr 14, 2019	