PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5677356

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DOUGLAS GODSHALL	01/15/2016
MUSTAFA ERTAN TASKIN	01/12/2016
JEFFREY A. LAROSE	01/11/2016
NICK YOUKER	01/14/2016
ANDRE SIMON	06/21/2016

RECEIVING PARTY DATA

Name:	HEARTWARE, INC.
Street Address:	14420 NW 60TH AVENUE
City:	MIAMI LAKES
State/Country:	FLORIDA
Postal Code:	33014

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16528730

CORRESPONDENCE DATA

Fax Number:

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.

Phone: (305) 364-1533

Email: magali.martinez@medtronic.com

Correspondent Name: HEARTWARE, INC.

Address Line 1: 14420 NW 60TH AVENUE

Address Line 2: MAGALI MARTINEZ

Address Line 4: MIAMI LAKES, FLORIDA 33014

ATTORNEY DOCKET NUMBER:	C00016760.US01DIV
NAME OF SUBMITTER:	SEAN J. EDMAN
SIGNATURE:	/Sean J. Edman/
DATE SIGNED:	08/20/2019

Total Attachments: 5

PATENT REEL: 050105 FRAME: 0482

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PATENT REEL: 050105 FRAME: 0483

	PTO/SB/15 (8-00) Modified
ASSIGNMENT OF PROVISIONAL APPLICATION	Docket Number (Optional)
	HEARTW 3.8F-152 (E)
Whereas, I, Douglas Godshall	of
8 Overfield Drive; Medfield, Massachusetts 02052	
hereafter referred to as Assignor, have with others invented certain new and us	seful improvements in
-	•
IMPLANTABLE MECHANICAL CIRCULATORY SUPPORT DEVICES	5
X for which a provisional application for a United States Patent was filed or	December 21, 2015
Application Number 62/270,156	
for which a provisional application for a United States Patent was executed	d on
and Whereas, HeartWare, Inc.	
a corporation of <u>Delaware</u> herein referred to as "assignee" whose mailing address	is
14420 NW 60th Avenue; Miami Lakes, Florida 33014	
is desirous of acquiring the entire right, title and interest in the same;	1
NOW, THEREFORE, in consideration of the sum of one dollar (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid provisional patent application and all original, divisional, continuation, continuation-in-part, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid provisional application pursuant to any law or treaty, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.	
And I do hereby authorize my attorneys, to Insert on this deed the filing date	and application number of said
application when known.	7 1
15 January 2016	
(Date)	(Signature)
State of <u>MassachuseHs</u>) ss: County of <u>MiddleseX</u>)	
On this 15 day of January, 2016 before me personally car Godshall, to me personally known as the individual who executed the foregoing is me that the same was executed by him/her of his/her own free will for the purpose	instrument, who acknowledged to
140000 OF THE PARTY OF THE PART	ATHER D. METERPAREL Notary Public MONWEALTH OF MASSACHUSETTS My Commission Expires July 17, 2020

ASSIGNMENT OF PROVISIONAL APPLICATION	PTO/SB/15 (8-00) Modified Docket Number (Optional)
	HEARTW 3.8F-152 (E)
Whereas, I, _Mustafa Ertan Taskin _3596 NW 83rd Way; Cooper City, Florida 33024	of
hereafter referred to as Assignor, have with others invented certain new and use IMPLANTABLE MECHANICAL CIRCULATORY SUPPORT DEVICES X for which a provisional application for a United States Patent was filed or Application Number 62/270,156	S
for which a provisional application for a United States Patent was executed	d on,
and Whereas, HeartWare, Inc. a corporation of Delaware herein referred to as "assignee" whose mailing address in 14420 NW 60th Avenue; Miami Lakes, Florida 33014 is desirous of acquiring the entire right, title and interest in the same; NOW, THEREFORE, in consideration of the sum of one dollar (\$ 1.00 is acknowledged, and other good and valuable consideration, I as assignor hereby assignee my entire right, title and interest for the United States of America and invention and the aforesaid provisional patent application and all original, division part, substitute or reissue applications and patents applied for or granted therefor and all other countries, for said invention, including without limitation all application claiming priority or benefit of the aforesaid provisional application pursuant to an right to claim such priority or benefit and the Commissioner of Patents and Trad requested to issue all patents on said improvements or resulting therefrom to said the entire interest therein; and the undersigned for me and my legal representative agree and covenant without further remuneration, to execute and deliver all reissue and other applications for Letters Patent on said improvements and assignee or its assigns, to communicate to said assignee or its representatives all respecting said improvements, whenever requested, to testify in any interference which any of said applications or patents may become involved, to sign all lawful and to do generally everything necessary to aid assignee, its successors, assign protection for said improvements in all countries, the expenses incident to said aby said assignee.	y sell, assign and set over to said all other countries in and to said nal, continuation, continuation-inr in the United States of America ons and patents for said invention y law or treaty, and including the emarks is hereby authorized and d assignee herein, as assignee of ves, heirs and assigns do hereby original, divisional, continuation, all assignments thereof to said if facts known to the undersigned less or other legal proceedings in all papers, make all rightful oaths, as and nominees to obtain patent applications to be borne and paid
And I do hereby authorize my attorneys, to insert on this deed the filing date application when known.	
01/12/2016 (Date)	Signature)
State of Florida) SS: County of Minmi-Dade)	
On this 12 47 day of 1914 day of 1914 and 1915 before me personally car Ertan Taskin, to me personally known as the individual who executed acknowledged to me that the same was executed by him/her of his/her own free forth.	the above-named Mustafa the foregoing instrument, who will for the purposes therein set
Mynde C Cerulia Com (Notary Public) Notary Public)	AGALI C. MARTINEZ / Public - State of Florida malesion - FF 207176 mm. Expires Mar 22, 2019 (Arough Hational Notary Assn.

ASSIGNMENT OF PROVISIONAL APPLICATION	PTO/SB/15 (B-00) Modifier Docket Number (Optional)
	HEARTW 3.8F-152 (E)
Whereas, I, <u>Jeffrey A. LaRose</u> 2641 N. Flamingo Road; Apt. 1804; Sunrise, Florida 33323	of
hereafter referred to as Assignor, have with others invented certain new and us IMPLANTABLE MECHANICAL CIRCULATORY SUPPORT DEVICES X for which a provisional application for a United States Patent was filed or Application Number 62/270,156 tor which a provisional application for a United States Patent was executed.	S
and Whereas, HeartWare, Inc. a corporation of Delaware herein referred to as "assignee" whose mailing address in 14420 NW 60th Avenue; Miami Lakes, Florida 33014 is desirous of acquiring the entire right, title and interest in the same;	is
NOW, THEREFORE, in consideration of the sum of one dollar (\$ 1.00 is acknowledged, and other good and valuable consideration, I as assignor hereb assignee my entire right, title and interest for the United States of America and invention and the aforesaid provisional patent application and all original, division part, substitute or reissue applications and patents applied for or granted therefor and all other countries, for said invention, including without limitation all application claiming priority or benefit of the aforesaid provisional application pursuant to an right to claim such priority or benefit and the Commissioner of Patents and Tradirequested to issue all patents on said improvements or resulting therefrom to said the entire interest therein; and the undersigned for me and my legal representativagree and covenant without further remuneration, to execute and deliver all reissue and other applications for Letters Patent on said improvements and respecting said improvements, whenever requested, to testify in any interference which any of said applications or patents may become involved, to sign all lawful and to do generally everything necessary to aid assignee, its successors, assign protection for said improvements in all countries, the expenses incident to said aby said assignee.	y sell, assign and set over to said all other countries in and to said nal, continuation, continuation-in- r in the United States of America ans and patents for said invention by law or treaty, and including the emarks is hereby authorized and dissignee herein, as assignee of eves, heirs and assigns do hereby original, divisional, continuation, all assignments thereof to said ill facts known to the undersigned less or other legal proceedings in all papers, make all rightful oaths, is and nominees to obtain patent
And I do hereby authorize my attorneys, to insert on this deed the filling date application when known. // JANUARY ZOIG (Date) State of Florida) SS: County of Hiami-Dade	and application number of said Signature)
On this It day of Jan wary, 2016 before me personally came LaRose, to me personally known as the individual who executed the foregoing in that the same was executed by him/her of his/her own free will for the purpose (Notary Public)	istrument, who acknowledged to [

	PTO/SB/15 (8-00) Modified
ASSIGNMENT OF PROVISIONAL APPLICATION	Docket Number (Optional)
	HEARTW 3.8F-152 (E)
Whereas, I, <u>Nick Youker</u> 578 Country Oaks Lane; River Falls, Wisconsin 54022	of
hereafter referred to as Assignor, have with others invented certain new and u IMPLANTABLE MECHANICAL CIRCULATORY SUPPORT DEVICE:	
x for which a provisional application for a United States Patent was filed or Application Number 62/270,156	December 21, 2015
for which a provisional application for a United States Patent was executed	ion,
and Whereas, HeartWare, Inc.	
a corporation of <u>Delaware</u> herein referred to as "assignee" whose mailing address 14420 NW 60th Avenue; Miami Lakes, Florida 33014 is desirous of acquiring the entire right, title and interest in the same;	is
NOW, THEREFORE, in consideration of the sum of one dollar (\$ 1.0 is acknowledged, and other good and valuable consideration, I as assignor hereb assignee my entire right, title and interest for the United States of America and invention and the aforesaid provisional patent application and all original, divisio part, substitute or reissue applications and patents applied for or granted therefo and all other countries, for said invention, including without limitation all application claiming priority or benefit of the aforesaid provisional application pursuant to an right to claim such priority or benefit and the Commissioner of Patents and Trad requested to issue all patents on said improvements or resulting therefrom to said the entire Interest therein; and the undersigned for me and my legal representative agree and covenant without further remuneration, to execute and deliver all reissue and other applications for Letters Patent on said improvements and assignee or its assigns, to communicate to said assignee or its representatives all respecting said improvements, whenever requested, to testify in any interference which any of said applications or patents may become involved, to sign all lawful and to do generally everything necessary to aid assignee, its successors, assign protection for said improvements in all countries, the expenses incident to said aby said assignee.	y sell, assign and set over to said all other countries in and to said nal, continuation, continuation-in- r in the United States of America ons and patents for said invention y law or treaty, and including the emarks is hereby authorized and diassignee herein, as assignee of ves, heirs and assigns do hereby original, divisional, continuation, all assignments thereof to said ill facts known to the undersigned less or other legal proceedings in all papers, make all rightful oaths, as and nominees to obtain patent applications to be borne and paid
And I do hereby authorize my attorneys, to insert on this deed the filing date application when known. Savuary 14th 2016 (Date)	bou
State of <u>(MSC NSW)</u>) SS: County of <u>ST CAOIX</u>)	Signature)
On this 14 day of 10 May 12016 before me personally Youker, to me personally known as the individual who executed the foregoing in that the same was executed by him/her of his/her own free will for the purpose	nstrument, who acknowledged to
NOTARY Public) PUBLIC	2 /2/1/lb

PTO/SB/15 (8-00) Modified Docket Number (Optional) ASSIGNMENT OF PROVISIONAL APPLICATION HEARTW 3.8F-152 (E) Whereas, I, Andre Simon Royal Brompton Hospital at Harefield: Hill End Road: HAREFIELD: Middlesex UB9 6JH: hereafter referred to as Assignor, have invented certain new and useful improvements in IMPLANTABLE MECHANICAL CIRCULATORY SUPPORT DEVICES December 21, 2015 X for which a provisional application for a United States Patent was filed on Application Number 62/270,156 for which a provisional application for a United States Patent was executed on Whereas. HeartWare, Inc. a corporation of Delaware herein referred to as "assignee" whose mailing address is 14420 NW 60th Avenue; Miami Lakes, Florida 33014 is desirous of acquiring the entire right, title and interest in the same; NOW, THEREFORE, in consideration of the sum of one dollar (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee the entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid provisional patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid provisional application pursuant to any law or treaty, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee. And I do hereby authorize my attorneys, to insert on this deed the filing date and application number of said application when known, 16-64 6-65-6-Printed Name of Witness

> PATENT REEL: 050105 FRAME: 0488

RECORDED: 08/20/2019