504451905 07/11/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4498606

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
RANDOPLH E CRUTCHFIELD	06/02/2017
GERARD A. BAST	06/06/2017
DAVID A. CANO	05/31/2017
LISA ANNE HARNESS MESIAS	06/01/2017
CLARK B NORGAARD	05/31/2017
MARK E. PORTER	06/27/2017
JEROME SIMS II	07/10/2017
PHILIP TIMSON	06/02/2017

RECEIVING PARTY DATA

Name:	MEDTRONIC, INC.
Street Address:	710 MEDTRONIC PARKWAY N.E.
City:	MINNEAPOLIS
State/Country:	MINNESOTA
Postal Code:	55432-5604

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15646901

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: 763-505-5000

Email: medtronic_crdm_docketing@cardinal-ip.com

Correspondent Name: MEDTRONIC, INC. (CRDM)
Address Line 1: 710 MEDTRONIC PARKWAY NE
Address Line 2: MS: LC340 LEGAL PATENTS

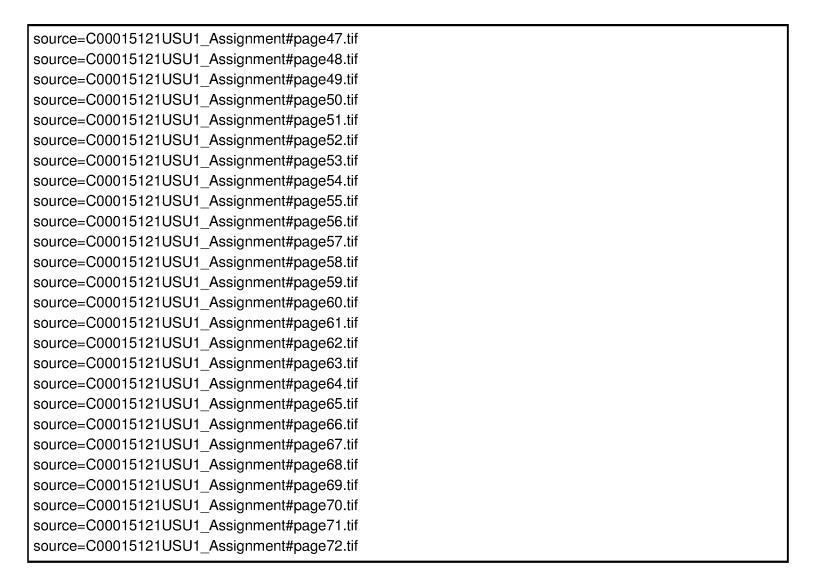
Address Line 4: MINNEAPOLIS, MINNESOTA 55432-9924

ATTORNEY DOCKET NUMBER:	C00015121.USU1/1111-575US
NAME OF SUBMITTER:	LYNSEY D. DAVIS
SIGNATURE:	/Lynsey D. Davis/

504451905 PATENT REEL: 043157 FRAME: 0802

DATE SIGNED: 07/11/2017 **Total Attachments: 72** source=C00015121USU1 Assignment#page1.tif source=C00015121USU1 Assignment#page2.tif source=C00015121USU1 Assignment#page3.tif source=C00015121USU1 Assignment#page4.tif source=C00015121USU1 Assignment#page5.tif source=C00015121USU1 Assignment#page6.tif source=C00015121USU1 Assignment#page7.tif source=C00015121USU1_Assignment#page8.tif source=C00015121USU1 Assignment#page9.tif source=C00015121USU1 Assignment#page10.tif source=C00015121USU1 Assignment#page11.tif source=C00015121USU1_Assignment#page12.tif source=C00015121USU1 Assignment#page13.tif source=C00015121USU1 Assignment#page14.tif source=C00015121USU1 Assignment#page15.tif source=C00015121USU1_Assignment#page16.tif source=C00015121USU1 Assignment#page17.tif source=C00015121USU1 Assignment#page18.tif source=C00015121USU1 Assignment#page19.tif source=C00015121USU1_Assignment#page20.tif source=C00015121USU1 Assignment#page21.tif source=C00015121USU1 Assignment#page22.tif source=C00015121USU1 Assignment#page23.tif source=C00015121USU1 Assignment#page24.tif source=C00015121USU1 Assignment#page25.tif source=C00015121USU1 Assignment#page26.tif source=C00015121USU1 Assignment#page27.tif source=C00015121USU1 Assignment#page28.tif source=C00015121USU1 Assignment#page29.tif source=C00015121USU1 Assignment#page30.tif source=C00015121USU1 Assignment#page31.tif source=C00015121USU1 Assignment#page32.tif source=C00015121USU1_Assignment#page33.tif source=C00015121USU1_Assignment#page34.tif source=C00015121USU1_Assignment#page35.tif source=C00015121USU1 Assignment#page36.tif source=C00015121USU1_Assignment#page37.tif source=C00015121USU1_Assignment#page38.tif source=C00015121USU1 Assignment#page39.tif source=C00015121USU1 Assignment#page40.tif source=C00015121USU1_Assignment#page41.tif source=C00015121USU1_Assignment#page42.tif source=C00015121USU1 Assignment#page43.tif source=C00015121USU1 Assignment#page44.tif source=C00015121USU1 Assignment#page45.tif source=C00015121USU1 Assignment#page46.tif

> PATENT REEL: 043157 FRAME: 0803



PATENT REEL: 043157 FRAME: 0804

ASSIGNMENT OF APPLICATION(S)

Whereas I/we, the below named inventor(s), with residence and citizenship as indicated below, have made an invention in

	EXTERNAL DEFIBRILLATION ELECTRODE CONDUCTIVE ELECTROLYTE DISPERSAL PAD
\boxtimes	for which an application for a United States Patent or a U.S. Provisional Application is being filed contemporaneously herewith;
	for which an application for a United States Patent identified as U.S. Patent Application No. ; was filed on ;
	for which an application for a U.S. Provisional Application No. ; was filed on ;
	for which above application claims priority to U.S. Provisional Patent Application No. ; filed on ;
	which application is identified as PCT International Patent Application No.; filed;
refe Uni	Whereas, <u>Medtronic, Inc.</u> , a corporation organized and existing under the laws of the State of Minnesota and ing a principle place of business at <u>710 Medtronic Parkway N.E.</u> , <u>Minneapolis</u> , <u>Minnesota 55432-5604</u> , hereinafter tred to as "Corporation," is desirous of acquiring the entire right, title and interest in and to said invention for the ted States and for all foreign countries and in and to any and all foreign and domestic Letters Patent which may be need therefore;

NOW, Therefore, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, we have sold, assigned, transferred and set over and by these presents do sell, assign, transfer and set over unto Corporation, its successors and assigns, the entire right, title and interest in and to said invention and the application(s) identified above and in and to any application claiming benefit thereto and the entire right, title and interest in and to any and all Letters Patent of the United States and any foreign countries which may be granted therefore including our rights under the International Convention for the Protection of Industrial Property, which include the right to claim priority based on the filing date of said applications(s), and in and to any and all extensions, divisions, continuations, continuations-in-part or reissues of said Letters Patent that may be granted, the same to be held and enjoyed by Corporation for its own use and benefit and use and benefit of its successors and assigns to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me had this assignment and sale not been made, including the right to enforce such Letters Patent as fully and entirely as the same would have been held and enjoyed by the assignors if this assignment had not been made; together with all claims by assignors for damages by reason of past infringement or for provisional rights and including the right to sue for, and collect the same for its own use and benefit, and for the use and benefit of its successors, assigns, and other legal representatives;

AND, for the consideration aforesaid, we materially represent to Corporation, its successors and assigns, that at the time of the execution and delivery of these presents, we are the sole lawful owners of the entire right, title and interest in and to the invention, application and Letters Patent above mentioned, and that the same are unencumbered, and that we have good right and lawful authority to sell and convey the same in the manner herein set forth;

AND, for the consideration aforesaid, we hereby individually covenant and agree to and with Corporation, its successors and assigns, that whenever its counsel or the counsel of its successors or assigns, learned in the law, shall advise that an amendment or division of, or continuation or any continuation-in-part thereof, or any other proceeding in connection with the filing or prosecution of said domestic or foreign patent applications, including interference proceedings, is lawful and desirable, or that a reissue of extension of said Letters Patent is lawful and desirable, we, or our executors, administrators or assigns will sign all papers and drawings, take all rightful oaths, and do all acts necessary or

Assignment

Page 1 of 9 Attorney Docket No.: C00015121.USU1/1111-575US01

Medtronic, Inc., 710 Medtronic Parkway, Minneapolis, MN 55432

I/We do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of the said applications, to said Medtronic, Inc., as the assignee of the entire right, title, and interest therein.

Given Name (first and middle initial [if any]): Randolph E.	any]): Family Name or Surname (last name): Crutchfield		
Inventor's Signature:	Date: 2 June 2	Date: 2012	
City and State:	Country:	Citizenship:	
Scottsdale, AZ	USA	USA	
STATE OF ARIZONA) ss. COUNTY OF MARICOPA) On this			
(Seal) DENISE CIPRESSI MARICOPA COUNTY NA Commission Express Sady 31, 2018 Notary Public			

Given Name (first and middle initial [if any]): Gerard A.	Family Name or Surname (last name): Bast			
Inventor's Signature:	Date:	Date:		
Residence (City and State): Chandler, AZ	Country; USA	Citizenship: USA		
STATE OF ARIZONA)) ss. COUNTY OF MARICOPA)				
On this day of Gerard A. Bast, and who executed the foregoing i		e personally appeared the above-named act and deed, on the day and year aforesaid.		
(Seal)	Notary Public			

Given Name (first and middle initial [if any]): David A.	Family Name or Surname (last name): Cano			
Inventor's Signature:		Date:		
Residence (City and State): Phoenix, AZ		Country: USA	Citizenship: USA	
STATE OF ARIZONA)) ss. COUNTY OF MARICOPA)				
On this day of David A. Cano, and who executed the foregoing in	nstrument, i	, 2017, before me as said person's free	personally appeared the above-named act and deed, on the day and year aforesaid.	
(Seal)		Notary Public		

Given Name (first and middle initial [if any]): Lisa Anne Harness	Family Name or Surname (last name): Mesias			
Inventor's Signature:		Date:		
Residence (City and State): Chandler, AZ		Country: USA		Citizenship: USA
STATE OF ARIZONA)) ss. COUNTY OF MARICOPA)				
On this day of, 2017, before me personally appeared the above-named Lisa Anne Harness Mesias, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.				
(Seal)		Notary Public		

Given Name (first and middle initial [if any]): Clark B.	Family Name or Sumanie (last name): Norgaard			
Inventor's Signature:		Date:		
Residence (City and State): Phoenix, AZ		Country: USA		Citizenship: USA
STATE OF ARIZONA)) ss. COUNTY OF MARICOPA)				
On this day of Clark B. Norgaard, and who executed the foregoin aforesaid.	ng instrumer	, 2017, before me nt, as saíd person's	e personally free act and	appeared the above-named deed, on the day and year
(Seal)		Notary Public		

Given Name (first and middle initial [if any]): Mark E.	Family Name or Surname (last name): Porter			
Inventor's Signature:	Date:			
Residence (City and State): Phoenix, AZ	Country: USA	Citizenship: USA		
STATE OF ARIZONA) ss. COUNTY OF MARICOPA)				
On this day of E. Porter, and who executed the foregoing instrun	,2017, before me nent, as said person's free act an	personally appeared the above-named Mark deed, on the day and year aforesaid.		
(Seal)	Notary Public	Notary Public		

Given Name (first and middle initial [if any]): Jerome	Family Name or Surname (last name): Sims II		
Inventor's Signature:		Date:	
Residence (City and State): Phoenix, AZ	ate):		Citizenship: USA
STATE OF ARIZONA) ss. COUNTY OF MARICOPA)			
On this day of Jerome Sims II, and who executed the foregoing i aforesaid.	instrument,	,2017, before me as said person's free	personally appeared the above-named act and deed, on the day and year
(Seal)	Notary Public		

Page 8 of 9 Attorney Docket No.: C00015121.USU1/1111-575US01 Medironic, Inc., 710 Medironic Parkway, Minneapolis, MN 55432

Given Name (first and middle initial [if any]): Philip	Family Name or Surname (last name): Timson		
Inventor's Signature:	Date:		
Residence (City and State): Phoenix, AZ	Country: USA	Citizenship: USA	
STATE OF ARIZONA) SS. COUNTY OF MARICOPA)			
On this day of Philip Timson, and who executed the foregoing in	,2017, before me penstrument, as said person's free act	ersonally appeared the above-named t and deed, on the day and year aforesaid.	
(Seal)	Notary Public		

ASSIGNMENT OF APPLICATION(S)

Whereas I/we, the below named inventor(s), with residence and citizenship as indicated below, have made an invention in

	EXTERNAL DEFIBRILLATION ELECTRODE CONDUCTIVE ELECTROLYTE DISPERSAL PAD
\boxtimes	for which an application for a United States Patent or a U.S. Provisional Application is being filed contemporaneously herewith;
	for which an application for a United States Patent identified as U.S. Patent Application No. ; was filed on ;
	for which an application for a U.S. Provisional Application No. ; was filed on ;
	for which above application claims priority to U.S. Provisional Patent Application No. ; filed on ;
	which application is identified as PCT International Patent Application No.; filed;
	Whereas, Medtronic. Inc., a corporation organized and existing under the laws of the State of Minnesota and
hav:	ing a principle place of business at 710 Medtronic Parkway N.E., Minneapolis, Minnesota 55432-5604, hereinafte
refe	arred to as "Corporation," is desirous of acquiring the entire right, title and interest in and to said invention for the
Uni	ted States and for all foreign countries and in and to any and all foreign and domestic Letters Patent which may be

NOW, Therefore, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, we have sold, assigned, transferred and set over and by these presents do sell, assign, transfer and set over unto Corporation, its successors and assigns, the entire right, title and interest in and to said invention and the application(s) identified above and in and to any application claiming benefit thereto and the entire right, title and interest in and to any and all Letters Patent of the United States and any foreign countries which may be granted therefore including our rights under the International Convention for the Protection of Industrial Property, which include the right to claim priority based on the filing date of said applications(s), and in and to any and all extensions, divisions, continuations, continuations-in-part or reissues of said Letters Patent that may be granted, the same to be held and enjoyed by Corporation for its own use and benefit and use and benefit of its successors and assigns to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me had this assignment and sale not been made, including the right to enforce such Letters Patent as fully and entirely as the same would have been held and enjoyed by the assignors if this assignment had not been made; together with all claims by assignors for damages by reason of past infringement or for provisional rights and including the right to sue for, and collect the same for its own use and benefit, and for the use and benefit of its successors, assigns, and other legal representatives;

AND, for the consideration aforesaid, we materially represent to Corporation, its successors and assigns, that at the time of the execution and delivery of these presents, we are the sole lawful owners of the entire right, title and interest in and to the invention, application and Letters Patent above mentioned, and that the same are unencumbered, and that we have good right and lawful authority to sell and convey the same in the manner herein set forth;

AND, for the consideration aforesaid, we hereby individually covenant and agree to and with Corporation, its successors and assigns, that whenever its counsel or the counsel of its successors or assigns, learned in the law, shall advise that an amendment or division of, or continuation or any continuation-in-part thereof, or any other proceeding in connection with the filing or prosecution of said domestic or foreign patent applications, including interference proceedings, is lawful and desirable, or that a reissue of extension of said Letters Patent is lawful and desirable, we, or our executors, administrators or assigns will sign all papers and drawings, take all rightful oaths, and do all acts necessary or

Assignment

granted therefore:

Page 1 of 9 Attorney Docket No.: C00015121,USU1/1111-575US01 Medironic, Inc., 710 Medironic Parkway, Minneapolis, MN 55432

I/We do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of the said applications, to said Medtronic, Inc., as the assignee of the entire right, title, and interest therein.

Given Name (first and middle initial [if any]): Randolph E.	Family Name or Surname (last name): Crutchfield	
Inventor's Signature:	Date:	
City and State: Scottsdale, AZ	Country: USA	Citizenship: USA
STATE OF ARIZONA)) ss. COUNTY OF MARICOPA) On this day of Randolph E. Crutchfield, and who executed the f	, 2017, before me pe	rsonally appeared the above-named
aforesaid.	oregonis nom more, an ama posses	,
(Seal) Notary Public		

Given Name (first and middle initial [if any]): Gerard A.	Family Name or Surname (last name): Bast		
Inventor's Signature:	Date: 4 / 10 / 17		
Residence (City and State): Chandler, AZ	Country; USA	Citizenship: USA	
STATE OF ARIZONA) ss. COUNTY OF MARICOPA) On this Athan day of June	2017 hofore ma		
Gerard A. Bast, and who executed the foregoing i	, 2017, before me per instrument, as said person's free act	and deed, on the day and year aforesaid.	
(Seal MARICOPA COUNTY My Commission Expires June 24, 2019	Notary Public		

Given Name (first and middle initial [if any]): David A.	Family Name or Surname (last name): Cano				
Inventor's Signature:	Inventor's Signature:		Daie:		
Residence (City and State): Phoenix, AZ	y and State);		Citizenship: USA		
STATE OF ARIZONA) SS. COUNTY OF MARICOPA)					
On this day of David A. Cano, and who executed the foregoing in	nstrument, a	, 2017, before me as said person's free	e personally appeared the above-named act and deed, on the day and year aforesaid.		
(Seal)		Notary Public			

Given Name (first and middle initial [if any]): Lisa Anne Harness	Family Name or Surname (last name): Mesias			
Inventor's Signature:		Date:		
Residence (City and State): Chandler, AZ		Country: USA	Citizenshij USA	p:
STATE OF ARIZONA)) ss. COUNTY OF MARICOPA)				
On this day of			te above-named Lisa the day and year	
(Seal)		Notary Public		

Given Name (first and middle initial [if any]): Clark B.	Family Name or Surname (last name): Norgaard				
Inventor's Signature:	itor's Signature:		Date:		
Residence (City and State): Phoenix, AZ	•			Citizenship: USA	
STATE OF ARIZONA)) ss. COUNTY OF MARICOPA)					
On this day of		appeared the above-named deed, on the day and year			
(Seal)		Notary Public			

Page 6 of 9 Attorney Docket No.: C00015121.USU1/1111-575US01 Medironic, Inc., 710 Medironic Parkway, Minneapolis, MN 55432

Given Name (first and middle initial [if any]): Mark E.	Family Name or Surname (last name): Porter		
Inventor's Signature:	Date	,	
Residence (City and State): Phoenix, AZ	Cour USA	itry:	Citizenship: USA
STATE OF ARIZONA) ss. COUNTY OF MARICOPA)			
On thisday of E. Porter, and who executed the foregoing instrum	,201 nent, as said persor	7, before me p i's free act and	ersonally appeared the above-named Mark deed, on the day and year aforesaid.
(Seal)	Notai	y Public	

Given Name (first and middle initial [if any]): Jerome	Family Name or Surname (last name): Sims II		
Inventor's Signature:		Date:	
Residence (City and State): Phoenix, AZ	ate):		Citizenship: USA
STATE OF ARIZONA) ss. COUNTY OF MARICOPA)			
On this day of Jerome Sims II, and who executed the foregoing i aforesaid.	instrument,	,2017, before me as said person's free	personally appeared the above-named act and deed, on the day and year
(Seal)	Notary Public		

Page 8 of 9 Attorney Docket No.: C00015121.USU1/1111-575US01 Medironic, Inc., 710 Medironic Parkway, Minneapolis, MN 55432

Given Name (first and middle initial [if any]): Philip	Family Name or Surname (last name): Timson		
Inventor's Signature:		Date:	
Residence (City and State): Phoenix, AZ		Country: USA	Citizenship: USA
STATE OF ARIZONA)) ss. COUNTY OF MARICOPA)			
On this day of Philip Timson, and who executed the foregoing ir	nstrument, as	ூ2017, before me said person's free	e personally appeared the above-named sact and deed, on the day and year aforesaid.
(Seal)	Notary Public		

ASSIGNMENT OF APPLICATION(S)

Whereas I/we, the below named inventor(s), with residence and citizenship as indicated below, have made an invention in

EXTERNAL DEFIBRILLATION ELECTRODE CONDUCTIVE ELECTROLYTE DISPERSAL PAD
for which an application for a United States Patent or a U.S. Provisional Application is being filed contemporaneously herewith;
for which an application for a United States Patent identified as U.S. Patent Application No. ; was filed on ;
for which an application for a U.S. Provisional Application No. ; was filed on ;
for which above application claims priority to U.S. Provisional Patent Application No. ; filed on ;
which application is identified as PCT International Patent Application No.; filed;
Whereas, Medtronic, Inc., a corporation organized and existing under the laws of the State of Minnesota and having a principle place of business at 710 Medtronic Parkway N.E., Minneapolis, Minnesota 55432-5604, hereinafter referred to as "Corporation," is desirous of acquiring the entire right, title and interest in and to said invention for the United States and for all foreign countries and in and to any and all foreign and domestic Letters Patent which may be granted therefore;

NOW, Therefore, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, we have sold, assigned, transferred and set over and by these presents do sell, assign, transfer and set over unto Corporation, its successors and assigns, the entire right, title and interest in and to said invention and the application(s) identified above and in and to any application claiming benefit thereto and the entire right, title and interest in and to any and all Letters Patent of the United States and any foreign countries which may be granted therefore including our rights under the International Convention for the Protection of Industrial Property, which include the right to claim priority based on the filing date of said applications(s), and in and to any and all extensions, divisions, continuations, continuations-in-part or reissues of said Letters Patent that may be granted, the same to be held and enjoyed by Corporation for its own use and benefit and use and benefit of its successors and assigns to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me had this assignment and sale not been made, including the right to enforce such Letters Patent as fully and entirely as the same would have been held and enjoyed by the assignors if this assignment had not been made; together with all claims by assignors for damages by reason of past infringement or for provisional rights and including the right to sue for, and collect the same for its own use and benefit, and for the use and benefit of its successors, assigns, and other legal representatives;

AND, for the consideration aforesaid, we materially represent to Corporation, its successors and assigns, that at the time of the execution and delivery of these presents, we are the sole lawful owners of the entire right, title and interest in and to the invention, application and Letters Patent above mentioned, and that the same are unencumbered, and that we have good right and lawful authority to sell and convey the same in the manner herein set forth;

AND, for the consideration aforesaid, we hereby individually covenant and agree to and with Corporation, its successors and assigns, that whenever its counsel or the counsel of its successors or assigns, learned in the law, shall advise that an amendment or division of, or continuation or any continuation-in-part thereof, or any other proceeding in connection with the filing or prosecution of said domestic or foreign patent applications, including interference proceedings, is lawful and desirable, or that a reissue of extension of said Letters Patent is lawful and desirable, we, or our executors, administrators or assigns will sign all papers and drawings, take all rightful oaths, and do all acts necessary or

Page 1 of 9 Attorney Docket No.: C00015121.USU1/1111-575US01 Medironic, Inc., 710 Medironic Parkway, Minneapolis, MN 55432

I/We do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of the said applications, to said Medtronic, Inc., as the assignee of the entire right, title, and interest therein.

Given Name (first and middle initial [if any]): Randolph E.	Family Name or Surname (last name): Crutchfield			
Inventor's Signature:	Date:			
City and State: Scottsdale, AZ	Country: USA	Citizenship: USA		
STATE OF ARIZONA)) ss. COUNTY OF MARICOPA)				
On this day of Randolph E. Crutchfield, and who executed the fo aforesaid.	, 2017, before me pe bregoing instrument, as said person	rsonally appeared the above-named a's free act and deed, on the day and year		
(Seal)	Notary Public			

Given Name (first and middle initial [if any]): Gerard A.	Family Name or Surname (last name): Bast				
Inventor's Signature:		Date:			
Residence (City and State): Chandler, AZ		Country: USA	Citizenship: USA		
STATE OF ARIZONA)) ss. COUNTY OF MARICOPA)					
On this day of, 2017, before me personally appeared the above-named Gerard A. Bast, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.					
(Scal) Notary Public					

Given Name (first and middle initial [if any]): David A.	dle initial [if any]): Family Name or Surname (last name): Cano			
Inxentor's Signature:	Date:	Y Z017		
Residence (City and State): Phoenix, AZ	Country: USA	Citizenship: USA		
STATE OF ARIZONA)) ss. COUNTY OF MARICOPA)				
On this <u>3\</u> day of <u>MAU</u> David A. Cano, and who executed the foregoing	2017, before me p instrument, as said person's free a	personally appeared the above-named ct and deed, on the day and year aforesaid.		
Mericary Public State Branzons Mericapa County My Commission Expires May 15, 2020 (leas)	Notary Public	Dugham.		
MAHAIRA NIBAOR 🕺		and the state of t		

Given Name (first and middle initial [if any]): Lisa Anne Harness	Family Name or Surname (last name): Mesias		
Inventor's Signature:	Date:		
Residence (City and State): Chandler, AZ	Country: USA	Citizenship: USA	
STATE OF ARIZONA)) ss. COUNTY OF MARICOPA)			
On this day of Anne Harness Mesias, and who executed the fore aforesaid.	, 2017, before me p egoing instrument, as said person's	personally appeared the above-named Lisa sfree act and deed, on the day and year	
(Seal)	Notary Public		

Given Name (first and middle initial [if any]): Clark B.	Family Name or Surname (last name): Norgaard		
Inventor's Signature:	Date:		
Residence (City and State): Phoenix, AZ	Country: USA	Citizenship: USA	
STATE OF ARIZONA)) ss. COUNTY OF MARICOPA)			
On this day of Clark B. Norgaard, and who executed the foregoi aforesaid.	, 2017, before me p ing instrument, as said person's fre	ersonally appeared the above-named ee act and deed, on the day and year	
(Seal)	Notary Public		

Given Name (first and middle initial [if any]): Mark E.	Family Name or Surname (last name): Porter Date:		
Inventor's Signature:			
Residence (City and State): Phoenix, AZ	Country: USA	Citizenship: USA	
STATE OF ARIZONA)) ss. COUNTY OF MARICOPA)	2017 hefore we re	ersonally appeared the above-named Mark	
On this day of			
(Scal)	Notary Public		

Given Name (first and middle initial [if any]): Jerome	Family Name or Surname (last name): Sims II		
Inventor's Signature:		Date:	
Residence (City and State): Phoenix, AZ		Country: USA	Citizenship: USA
STATE OF ARIZONA)) ss. COUNTY OF MARICOPA) On this day of Jerome Sims II, and who executed the foregoing aforesaid.	instrument,		personally appeared the above-named eact and deed, on the day and year
(Seal)		Notary Public	

Given Name (first and middle initial [if any]): Philip	Family Name or Surname (last name): Timson		
Inventor's Signature:	Date:		
Residence (City and State): Phoenix, AZ	1 1 1 1 1 1		
STATE OF ARIZONA)) ss. COUNTY OF MARICOPA)			
On this day of Philip Timson, and who executed the foregoing in		fore me personally appeared the above-named his free act and deed, on the day and year aforesaid.	
(Seal)	Notary Publ	blic	

ASSIGNMENT OF APPLICATION(S)

Whereas I/we, the below named inventor(s), with residence and citizenship as indicated below, have made an invention in

EXTERNAL DEFIBRILLATION ELECTRODE CONDUCTIVE ELECTROLYTE DISPERSAL PAD
for which an application for a United States Patent or a U.S. Provisional Application is being filed contemporaneously herewith;
for which an application for a United States Patent identified as U.S. Patent Application No. ; was filed on
for which an application for a U.S. Provisional Application No. ; was filed on ; for which above application claims priority to U.S. Provisional Patent Application No. ; filed on ;
which application is identified as PCT International Patent Application No.; filed;
Whereas, <u>Medtronic</u> . Inc., a corporation organized and existing under the laws of the State of Minnesota and having a principle place of business at <u>710 Medtronic Parkway N.E.</u> , <u>Minneapolis</u> , <u>Minnesota 55432-5604</u> , hereinaftered to as "Corporation," is desirous of acquiring the entire right, title and interest in and to said invention for the United States and for all foreign countries and in and to any and all foreign and domestic Letters Patent which may granted therefore;

NOW, Therefore, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, we have sold, assigned, transferred and set over and by these presents do sell, assign, transfer and set over unto Corporation, its successors and assigns, the entire right, title and interest in and to said invention and the application(s) identified above and in and to any application claiming benefit thereto and the entire right, title and interest in and to any and all Letters Patent of the United States and any foreign countries which may be granted therefore including our rights under the International Convention for the Protection of Industrial Property, which include the right to claim priority based on the filing date of said applications(s), and in and to any and all extensions, divisions, continuations, continuations-in-part or reissues of said Letters Patent that may be granted, the same to be held and enjoyed by Corporation for its own use and benefit and use and benefit of its successors and assigns to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me had this assignment and sale not been made, including the right to enforce such Letters Patent as fully and entirely as the same would have been held and enjoyed by the assignors if this assignment had not been made; together with all claims by assignors for damages by reason of past infringement or for provisional rights and including the right to sue for, and collect the same for its own use and benefit, and for the use and benefit of its successors, assigns, and other legal representatives;

AND, for the consideration aforesaid, we materially represent to Corporation, its successors and assigns, that at the time of the execution and delivery of these presents, we are the sole lawful owners of the entire right, title and interest in and to the invention, application and Letters Patent above mentioned, and that the same are unencumbered, and that we have good right and lawful authority to sell and convey the same in the manner herein set forth;

AND, for the consideration aforesaid, we hereby individually covenant and agree to and with Corporation, its successors and assigns, that whenever its counsel or the counsel of its successors or assigns, learned in the law, shall advise that an amendment or division of, or continuation or any continuation-in-part thereof, or any other proceeding in connection with the filing or prosecution of said domestic or foreign patent applications, including interference proceedings, is lawful and desirable, or that a reissue of extension of said Letters Patent is lawful and desirable, we, or our executors, administrators or assigns will sign all papers and drawings, take all rightful oaths, and do all acts necessary or

Page 1 of 9 Attorney Docket No.: C00015121.USU1/1111-575US01

Medtronic, Inc., 710 Medtronic Parkway, Minneapolis, MN 55432

I/We do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of the said applications, to said Medtronic, Inc., as the assignee of the entire right, title, and interest therein.

Given Name (first and middle initial [if any]): Randolph E.	Family Name or Surname (last name): Crutchfield			
Inventor's Signature:		Date:		
City and State: Scottsdale, AZ		Country: USA		Citizenship: USA
STATE OF ARIZONA) ss. COUNTY OF MARICOPA)				
On this day of Randolph E. Crutchfield, and who executed the fo aforesaid.				y appeared the above-named act and deed, on the day and year
(Seal)		Notary Public		

Given Name (first and middle initial [if any]): Gerard A.	Family Name or Surname (last name): Bast			
Inventor's Signature:		Date:		
Residence (City and State):		Country:	i	Citizenship:
Chandler, AZ		USA		USA
STATE OF ARIZONA)) ss. COUNTY OF MARICOPA)				
On this day of, 2017, before me personally appeared the above-named Gerard A. Bast, and who executed the foregoing instrument, as said person's free act and deed, on the day and year afore			appeared the above-named	
(Seal)	instrument,	as said person's fre	e act and deed	a, on the day and year aforesaid.
Notary Public				

Given Name (first and middle initial [if any]): David A.	Family Name or Surname (last name): Cano			
Inventor's Signature:		Date:		
Residence (City and State): Phoenix, AZ		Country: Citizenship: USA USA		
STATE OF ARIZONA)) ss. COUNTY OF MARICOPA)		1		
On this day of David A. Cano, and who executed the foregoing i	instrument,	, 2017, before m as said person's fre	e personally e act and de	y appeared the above-named ed, on the day and year aforesaid.
(Scal) Notary Public				

Given Name (first and middle initial [if any]): Family Lisa Anne Harness Mesias		Name or Surname (last name):				
Inventor Signature: Hon anne Harnest Mesias		Date: 1- JUN - 2017				
Residence (City and State):		Country:	Citizenship:			
Chandler, AZ		USA	USA			
STATE OF ARIZONA) ss. COUNTY OF MARICOPA) On this / day of						
(Seal) PAMELA J. WALKER Notary Public State of Arizana Maricopa County My Commission Expires July 11, 2019 Notary Public						

Given Name (first and middle initial [if any]): Clark B.	Family Name or Surname (last name): Norgaard					
Inventor's Signature:		Date:				
Residence (City and State): Phoenix, AZ		Country: USA		Citizenship: USA		
STATE OF ARIZONA) ss. COUNTY OF MARICOPA)						
On this day of, 2017, before me personally appeared the above-named Clark B. Norgaard, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.						
(Seal)		Notary Public				

Given Name (first and middle initial [if any]): Mark E.	Family Name or Surname (last name): Porter			
Inventor's Signature:		Date:		
Residence (City and State): Phoenix, AZ		Country: USA		Citizenship: USA
				03A
STATE OF ARIZONA)) ss. COUNTY OF MARICOPA)				
On this day of E. Porter, and who executed the foregoing instrur	ment, as saic	,2017, before mo i person's free act a	e personally nd deed, on	appeared the above-named Mark the day and year aforesaid.
(Seal)		Notary Public		

Given Name (first and middle initial [if any]): Jerome	Family Name or Surname (last name): Sims II			
Inventor's Signature:		Date:		
Residence (City and State):		Country:		Citizenship:
Phoenix, AZ		USA		USA
STATE OF ARIZONA) ss. COUNTY OF MARICOPA) On this day of,2017, before me personally appeared the above-named Jerome Sims II, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.				
(Scal)		Notary Public		

Given Name (first and middle initial [if any]): Philip	Family Name or Surname (last name): Timson			
Inventor's Signature:		Date:		
Residence (City and State):		Country:		Citizenship:
Phoenix, AZ		USA		USA
STATE OF ARIZONA)) ss. COUNTY OF MARICOPA) On this day of,2017, before me personally appeared the above-named Philip Timson, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforest.		appeared the above-nameded, on the day and year aforesaid.		
(Scal)		Notary Public		

ASSIGNMENT OF APPLICATION(S)

Whereas I/we, the below named inventor(s), with residence and citizenship as indicated below, have made an invention in

	MA COLOR DE LA COL
L	EXTERNAL DEFIBRILLATION ELECTRODE CONDUCTIVE ELECTROLYTE DISPERSAL PAD
\boxtimes	for which an application for a United States Patent or a U.S. Provisional Application is being filed contemporaneously herewith;
	for which an application for a United States Patent identified as U.S. Patent Application No. ; was filed on ;
	for which an application for a U.S. Provisional Application No. ; was filed on ;
	for which above application claims priority to U.S. Provisional Patent Application No. ; filed on ;
	which application is identified as PCT International Patent Application No.; filed;
refe Un	Whereas, Medtronic, Inc., a corporation organized and existing under the laws of the State of Minnesota and ring a principle place of business at 710 Medtronic Parkway N.E., Minneapolis, Minnesota 55432-5604, hereinafter erred to as "Corporation," is desirous of acquiring the entire right, title and interest in and to said invention for the ited States and for all foreign countries and in and to any and all foreign and domestic Letters Patent which may be need therefore;

NOW, Therefore, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, we have sold, assigned, transferred and set over and by these presents do sell, assign, transfer and set over unto Corporation, its successors and assigns, the entire right, title and interest in and to said invention and the application(s) identified above and in and to any application claiming benefit thereto and the entire right, title and interest in and to any and all Letters Patent of the United States and any foreign countries which may be granted therefore including our rights under the International Convention for the Protection of Industrial Property, which include the right to claim priority based on the filing date of said applications(s), and in and to any and all extensions, divisions, continuations, continuations-in-part or reissues of said Letters Patent that may be granted, the same to be held and enjoyed by Corporation for its own use and benefit and use and benefit of its successors and assigns to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me had this assignment and sale not been made, including the right to enforce such Letters Patent as fully and entirely as the same would have been held and enjoyed by the assignors if this assignment had not been made; together with all claims by assignors for damages by reason of past infringement or for provisional rights and including the right to sue for, and collect the same for its own use and benefit, and for the use and benefit of its successors, assigns, and other legal representatives;

AND, for the consideration aforesaid, we materially represent to Corporation, its successors and assigns, that at the time of the execution and delivery of these presents, we are the sole lawful owners of the entire right, title and interest in and to the invention, application and Letters Patent above mentioned, and that the same are unencumbered, and that we have good right and lawful authority to sell and convey the same in the manner herein set forth;

AND, for the consideration aforesaid, we hereby individually covenant and agree to and with Corporation, its successors and assigns, that whenever its counsel or the counsel of its successors or assigns, learned in the law, shall advise that an amendment or division of, or continuation or any continuation-in-part thereof, or any other proceeding in connection with the filing or prosecution of said domestic or foreign patent applications, including interference proceedings, is lawful and desirable, or that a reissue of extension of said Letters Patent is lawful and desirable, we, or our executors, administrators or assigns will sign all papers and drawings, take all rightful oaths, and do all acts necessary or

Page 1 of 9 Attorney Docket No.: C00015121.USU1/1111-575US01 Medironic, Inc., 710 Medironic Parkway, Minneapolis, MN 55432

I/We do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of the said applications, to said Medtronic, Inc., as the assignee of the entire right, title, and interest therein.

Given Name (first and middle initial [if any]): Randolph E.	Family Name or Surname (last name): Crutchfield	
Inventor's Signature:	Date:	
City and State: Scottsdale, AZ	Country: USA	Citizenship: USA
STATE OF ARIZONA)) ss. COUNTY OF MARICOPA) On this day of Randolph E. Crutchfield, and who executed the f	, 2017, before me pe	rsonally appeared the above-named
aforesaid.	oregonis nom more, an ama posses	,
(Seal)	Notary Public	

Given Name (first and middle initial [if any]): Gerard A.	Family Name or Surname (last name): Bast		
Inventor's Signature:	<u> </u>	Date:	
Residence (City and State): Chandler, AZ		Country: USA	Citizenship: USA
STATE OF ARIZONA)) ss. COUNTY OF MARICOPA)			
On this day of Gerard A. Bast, and who executed the foregoing i	nstrument,	, 2017, before me as said person's free	ne personally appeared the above-named the act and deed, on the day and year aforesaid.
(Seal)	Notary Public		

Given Name (first and middle initial [if any]): David A.	Family Name or Surname (last name): Cane	
Inventor's Signature:	Date:	
Residence (City and State): Phoenix, AZ	Country: USA	Citizenship: USA
STATE OF ARIZONA) ss. COUNTY OF MARICOPA) On this day of David A. Cano, and who executed the foregoing	, 2017, before m instrument, as said person's free	e personally appeared the above-named e act and deed, on the day and year aforesaid.
(Seal)	Notary Public	

Given Name (first and middle initial [if any]): Lisa Anne Harness	Family Name or Surname (last name): Mesias	
Inventor's Signature:	Date:	
Residence (City and State): Chandler, AZ	Country: USA	Citizenship: USA
STATE OF ARIZONA)) ss. COUNTY OF MARICOPA)		
On this day of Anne Harness Mesias, and who executed the fore aforesaid.		e personally appeared the above-named Lisa n's free act and deed, on the day and year
(Seal)	Notary Public	

Given Name (first and middle initial [if any]): Clark B.	Family Name or Surname (last name): Norgaard		
Inventor's Signature:	Date: May 31	, 2017	
Residence (City and State). Phoenix, AZ	Country: USA	Citizenship: USA	
STATE OF ARIZONA) ss. COUNTY OF MARICOPA)			
On this 31 day of <u>M&4</u> Clark B. Norgaard, and who executed the foregor aforesaid.	, 2017, before me pe ing instrument, as said person's free	ersonally appeared the above-named eact and deed, on the day and year	
(Scal) (Scal) Notary Public, State of A Maricopa Count My Commission Ex	Notary Public	3	

Given Name (first and middle initial [if any]): Mark E.	Family Name or Surname (last name): Porter		
Inventor's Signature:	Date:		
Residence (City and State): Phoenix, AZ	Country: USA	Citizensi USA	hip:
STATE OF ARIZONA)) ss. COUNTY OF MARICOPA) On this day of, 2017, before me personally appeared the above-named Ma			
E. Porter, and who executed the foregoing instrur (Seal)	nent, as said person's free	e act and deed, on the day ar	nd year aforesaid.
(ocai)	Notary Pub	olic	00000000000000000000000000000000000000

Given Name (first and middle initial [if any]): Jerome	Family Name or Surname (last name): Sims II		
Inventor's Signature:		Date:	
Residence (City and State): Phoenix, AZ		Country: USA	Citizenship: USA
STATE OF ARIZONA)) ss. COUNTY OF MARICOPA) On this day of Jerome Sims II, and who executed the foregoing aforesaid.	instrument,		personally appeared the above-named eact and deed, on the day and year
(Seal)		Notary Public	

Given Name (first and middle initial [if any]): Philip	Family Name or Surname (last name): Timson		
Inventor's Signature:	Da	te:	
Residence (City and State): Phoenix, AZ	Co US	untry: A	Citizenship: USA
STATE OF ARIZONA)) ss. COUNTY OF MARICOPA)			
On thisday of Philip Timson, and who executed the foregoing in			ersonally appeared the above-named t and deed, on the day and year aforesaid.
(Seal)	No	tary Public	

ASSIGNMENT OF APPLICATION(S)

Whereas I/we, the below named inventor(s), with residence and citizenship as indicated below, have made an invention in

	The angles of the property of
L	EXTERNAL DEFIBRILLATION ELECTRODE CONDUCTIVE ELECTROLYTE DISPERSAL PAD
\boxtimes	for which an application for a United States Patent or a U.S. Provisional Application is being filed contemporaneously herewith;
	for which an application for a United States Patent identified as U.S. Patent Application No. ; was filed on ;
	for which an application for a U.S. Provisional Application No. ; was filed on ;
	for which above application claims priority to U.S. Provisional Patent Application No. ; filed on ;
	which application is identified as PCT International Patent Application No.; filed;
refe Un	Whereas, Medtronic, Inc., a corporation organized and existing under the laws of the State of Minnesota and ving a principle place of business at 710 Medtronic Parkway N.E., Minneapolis, Minnesota 55432-5604, hereinafter erred to as "Corporation," is desirous of acquiring the entire right, title and interest in and to said invention for the ited States and for all foreign countries and in and to any and all foreign and domestic Letters Patent which may be inted therefore;

NOW, Therefore, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, we have sold, assigned, transferred and set over and by these presents do sell, assign, transfer and set over unto Corporation, its successors and assigns, the entire right, title and interest in and to said invention and the application(s) identified above and in and to any application claiming benefit thereto and the entire right, title and interest in and to any and all Letters Patent of the United States and any foreign countries which may be granted therefore including our rights under the International Convention for the Protection of Industrial Property, which include the right to claim priority based on the filing date of said applications(s), and in and to any and all extensions, divisions, continuations-in-part or reissues of said Letters Patent that may be granted, the same to be held and enjoyed by Corporation for its own use and benefit and use and benefit of its successors and assigns to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me had this assignment and sale not been made, including the right to enforce such Letters Patent as fully and entirely as the same would have been held and enjoyed by the assignors if this assignment had not been made; together with all claims by assignors for damages by reason of past infringement or for provisional rights and including the right to sue for, and collect the same for its own use and benefit, and for the use and benefit of its successors, assigns, and other legal representatives;

AND, for the consideration aforesaid, we materially represent to Corporation, its successors and assigns, that at the time of the execution and delivery of these presents, we are the sole lawful owners of the entire right, title and interest in and to the invention, application and Letters Patent above mentioned, and that the same are unencumbered, and that we have good right and lawful authority to sell and convey the same in the manner herein set forth;

AND, for the consideration aforesaid, we hereby individually covenant and agree to and with Corporation, its successors and assigns, that whenever its counsel or the counsel of its successors or assigns, learned in the law, shall advise that an amendment or division of, or continuation or any continuation-in-part thereof, or any other proceeding in connection with the filing or prosecution of said domestic or foreign patent applications, including interference proceedings, is lawful and desirable, or that a reissue of extension of said Letters Patent is lawful and desirable, we, or our executors, administrators or assigns will sign all papers and drawings, take all rightful oaths, and do all acts necessary or

Page 1 of 9 Allomey Docket No.: C00015121.USU1/1111-575US01 Medironic, Inc., 710 Medironic Parkway, Minneapolis, MN 55432

I/We do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of the said applications, to said Medtronic, Inc., as the assignee of the entire right, title, and interest therein.

Given Name (first and middle initial [if any]): Randolph E.		
Inventor's Signature:	Date:	
City and State: Scottsdale, AZ	Country: USA	Citizenship: USA
STATE OF ARIZONA) ss. COUNTY OF MARICOPA) On this day of Randolph E. Crutchfield, and who executed the f aforesaid.	, 2017, before me p oregoing instrument, as said perso	ersonally appeared the above-named n's free act and deed, on the day and year
(Seal)	Notary Public	

Given Name (first and middle initial [if any]): Gerard A.	Family Name or Surname (last name): Bast			
Inventor's Signature:	<u> </u>	Date:		
Residence (City and State): Chandler, AZ		Country: USA	Citizenship: USA	
STATE OF ARIZONA)) ss. COUNTY OF MARICOPA)				
On this day of, 2017, before me personally appeared the above-named Gerard A. Bast, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.				
(Seal)		Notary Public		

Given Name (first and middle initial [if any]): David A.	Family Name or Surname (Cano	last name):		
Inventor's Signature:	Date:			
Residence (City and State): Phoenix, AZ	Country: USA	Citizenship: USA		
STATE OF ARIZONA)) ss. COUNTY OF MARICOPA)				
On this, day of, 2017, before me personally appeared the above-named David A. Cano, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.				
(Seal)	Notary Public			

Given Name (first and middle initial [if any]): Lisa Anne Harness				
Inventor's Signature:	Date:			
Residence (City and State): Chandler, AZ	Country: USA	Citizenship: USA		
STATE OF ARIZONA)) ss. COUNTY OF MARICOPA)				
On this day of, 2017, before me personally appeared the above-named Lisa Anne Harness Mesias, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.				
(Seal)	Notary Public			

Given Name (first and middle initial [if any]): Clark B.	middle initial [if any]): Family Name or Surname (last name): Norgaard			
Inventor's Signature:	Date:			
Residence (City and State): Phoenix, AZ	Country: USA	Citizenship: USA		
STATE OF ARIZONA) SS. COUNTY OF MARICOPA)				
On this				
(Seal)	Notary Public			

Given Name (first and middle initial [if any]): Mark E.	Family Name or Surname (last in Porter	name):
Inventor's Signature: Mak Pat	Date: June 27	1, 2017
Residence (City and State): Phoenix, AZ	Country: USA	Citizenship: USA
STATE OF ARIZONA) ss. COUNTY OF MARICOPA) On this A T day of 1 (1 y). E. Porter, and who executed the foregoing instru		rsonally appeared the above-named Mark deed, on the day and year aforesaid.
(Seal) OENISE CIPRES None Palls - Same of Art MARICON COLUMN NO COMMON Expens No 201	SI Notary Public	Ciprissi

Given Name (first and middle initial [if any]): Jerome	Family Name or Surname (last name): Sims II			
Inventor's Signature:		Date:		
Residence (City and State): Phoenix, AZ		Country: USA	Citizenship: USA	
STATE OF ARIZONA)) ss. COUNTY OF MARICOPA)				
On this day of				
(Seal)		Notary Public		

Given Name (first and middle initial [if any]): Philip	Family Name or Surname (last name): Timson			
Inventor's Signature:		Date:		
Residence (City and State): Phoenix, AZ		Country: USA	Citizenship: USA	
STATE OF ARIZONA)) ss. COUNTY OF MARICOPA)				
On this day of,2017, before me personally appeared the above-named Philip Timson, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.				
(Seal)		Notary Public		

ASSIGNMENT OF APPLICATION(S)

Whereas I/we, the below named inventor(s), with residence and citizenship as indicated below, have made an invention in

	AL OF A HIGH A. S. COOCO ON A O. S. P. A. P.
	EXTERNAL DEFIBRILLATION ELECTRODE CONDUCTIVE ELECTROLYTE DISPERSAL PAD
	for which an application for a United States Patent or a U.S. Provisional Application is being filed contemporaneously herewith;
	for which an application for a United States Patent identified as U.S. Patent Application No. ; was filed on ;
	for which an application for a U.S. Provisional Application No. ; was filed on ;
	for which above application claims priority to U.S. Provisional Patent Application No. ; filed on ;
	which application is identified as PCT International Patent Application No.; filed;
refe Un	Whereas, <u>Medtronic, Inc.</u> , a corporation organized and existing under the laws of the State of Minnesota and ring a principle place of business at <u>710 Medtronic Parkway N.E.</u> , <u>Minneapolis</u> , <u>Minnesota 55432-5604</u> , hereinafter erred to as "Corporation," is desirous of acquiring the entire right, title and interest in and to said invention for the ited States and for all foreign countries and in and to any and all foreign and domestic Letters Patent which may be nated therefore;

NOW, Therefore, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, we have sold, assigned, transferred and set over and by these presents do sell, assign, transfer and set over unto Corporation, its successors and assigns, the entire right, title and interest in and to said invention and the application(s) identified above and in and to any application claiming benefit thereto and the entire right, title and interest in and to any and all Letters Patent of the United States and any foreign countries which may be granted therefore including our rights under the International Convention for the Protection of Industrial Property, which include the right to claim priority based on the filing date of said applications(s), and in and to any and all extensions, divisions, continuations, continuations-in-part or reissues of said Letters Patent that may be granted, the same to be held and enjoyed by Corporation for its own use and benefit and use and benefit of its successors and assigns to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me had this assignment and sale not been made, including the right to enforce such Letters Patent as fully and entirely as the same would have been held and enjoyed by the assignors if this assignment had not been made; together with all claims by assignors for damages by reason of past infringement or for provisional rights and including the right to sue for, and collect the same for its own use and benefit, and for the use and benefit of its successors, assigns, and other legal representatives;

AND, for the consideration aforesaid, we materially represent to Corporation, its successors and assigns, that at the time of the execution and delivery of these presents, we are the sole lawful owners of the entire right, title and interest in and to the invention, application and Letters Patent above mentioned, and that the same are unencumbered, and that we have good right and lawful authority to sell and convey the same in the manner herein set forth;

AND, for the consideration aforesaid, we hereby individually covenant and agree to and with Corporation, its successors and assigns, that whenever its counsel or the counsel of its successors or assigns, learned in the law, shall advise that an amendment or division of, or continuation or any continuation-in-part thereof, or any other proceeding in connection with the filing or prosecution of said domestic or foreign patent applications, including interference proceedings, is lawful and desirable, or that a reissue of extension of said Letters Patent is lawful and desirable, we, or our executors, administrators or assigns will sign all papers and drawings, take all rightful oaths, and do all acts necessary or

Page 1 of 9 Attorney Docket No.: C00015121.USU1/1111-575US01 Medironic, Inc., 710 Medironic Parkway, Minneapolis, MN 55432

I/We do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of the said applications, to said Medtronic, Inc., as the assignee of the entire right, title, and interest therein.

Given Name (first and middle initial [if any]): Randolph E.	Family Name or Surname (last Crutchfield	name):		
Inventor's Signature:	Date:			
City and State: Scottsdale, AZ	Country: USA	Citizenship: USA		
STATE OF ARIZONA)) ss. COUNTY OF MARICOPA)	2017 hefore me n	ersonally appeared the above-named		
On this day of, 2017, before me personally appeared the above-named Randolph E. Crutchfield, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.				
(Seal)	Notary Public	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		

Given Name (first and middle initial [if any]): Gerard A.	Family N Bast	lame or Surname (la	st name):	
Inventor's Signature:		Date:		
Residence (City and State): Chandler, AZ		Country: USA	Citizenship: USA	
STATE OF ARIZONA)) ss. COUNTY OF MARICOPA)				
On this day of, 2017, before me personally appeared the above-named Gerard A. Bast, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.				
(Seal)		Notary Public		

Given Name (first and middle initial [if any]): David A.	Family Name or Surname (last name): Cane		
Inventor's Signature:	Date:		
Residence (City and State): Phoenix, AZ	Country: USA	Citizenship: USA	
STATE OF ARIZONA) ss. COUNTY OF MARICOPA) On this day of David A. Cano, and who executed the foregoing	, 2017, before m instrument, as said person's free	e personally appeared the above-named e act and deed, on the day and year aforesaid.	
(Seal)	Notary Public		

Given Name (first and middle initial [if any]): Lisa Anne Harness	Family Name or Surname (last name): Mesias		
Inventor's Signature:	Date:		
Residence (City and State): Chandler, AZ	Country: USA	Citizenship: USA	
STATE OF ARIZONA)) ss. COUNTY OF MARICOPA)			
On this day of Anne Harness Mesias, and who executed the fore aforesaid.	, 2017, before me p egoing instrument, as said person's	personally appeared the above-named Lisa sfree act and deed, on the day and year	
(Seal)	Notary Public		

Given Name (first and middle initial [if any]): Clark B.	Family Name or Surname (last name): Norgaard		
Inventor's Signature:	Date:		
Residence (City and State): Phoenix, AZ	Country: USA	Citizenship: USA	
STATE OF ARIZONA)) ss. COUNTY OF MARICOPA)			
On this day of Clark B. Norgaard, and who executed the foregoinal aforesaid.	, 2017, before me p ing instrument, as said person's fre	ersonally appeared the above-named ee act and deed, on the day and year	
(Seal)	Notary Public		

Given Name (first and middle initial [if any]): Mark E.	Family Name or Surname (last name): Porter		
Inventor's Signature:	Date:		
Residence (City and State): Phoenix, AZ	Country: USA	Citizensi USA	hip:
STATE OF ARIZONA)) ss. COUNTY OF MARICOPA) On this day of		ore me personally appeared	
E. Porter, and who executed the foregoing instrur (Seal)	nent, as said person's free	e act and deed, on the day ar	nd year aforesaid.
(ocai)	Notary Pub	olic	00000000000000000000000000000000000000

Given Name (first and middle initial [if any]): Jerome	Family Name or Surname (last name): Sims II	
Inventor's Signature:	Date: 7//0/17	
Residence (City and State): Phoenix, AZ	Country: Citizenship: USA USA	
STATE OF ARIZONA) ss. COUNTY OF MARICOPA) On this 10 day of 30 y	,2017, before me personally appeared the above-na instrument, as said person's free act and deed, on the day and year	
Arithony Wesson Notary Public Mericopa County, Arizona (Seal My Comm. Expires 02-19-2021	Notary Public	

Given Name (first and middle initial [if any]): Philip	Family Name or Surname (last name): Timson		
Inventor's Signature:	Date:		
Residence (City and State): Phoenix, AZ	Country: USA	Citizenship: USA	
STATE OF ARIZONA)) ss. COUNTY OF MARICOPA)			
On this day of Philip Timson, and who executed the foregoing in		fore me personally appeared the above-named his free act and deed, on the day and year aforesaid.	
(Seal)	Notary Publ	blic	

ASSIGNMENT OF APPLICATION(S)

Whereas I/we, the below named inventor(s), with residence and citizenship as indicated below, have made an invention in

	EXTERNAL DEFIBRILLATION ELECTRODE CONDUCTIVE ELECTROLYTE DISPERSAL PAD
\boxtimes	for which an application for a United States Patent or a U.S. Provisional Application is being filed contemporaneously herewith;
	for which an application for a United States Patent identified as U.S. Patent Application No. ; was filed on ;
	for which an application for a U.S. Provisional Application No. ; was filed on ;
	for which above application claims priority to U.S. Provisional Patent Application No. ; filed on ;
	which application is identified as PCT International Patent Application No.; filed;
refe Uni	Whereas, <u>Medtronic, Inc.</u> , a corporation organized and existing under the laws of the State of Minnesota and ing a principle place of business at <u>710 Medtronic Parkway N.E.</u> , <u>Minneapolis</u> , <u>Minnesota 55432-5604</u> , hereinafter tred to as "Corporation," is desirous of acquiring the entire right, title and interest in and to said invention for the ted States and for all foreign countries and in and to any and all foreign and domestic Letters Patent which may be need therefore;

NOW, Therefore, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, we have sold, assigned, transferred and set over and by these presents do sell, assign, transfer and set over unto Corporation, its successors and assigns, the entire right, title and interest in and to said invention and the application(s) identified above and in and to any application claiming benefit thereto and the entire right, title and interest in and to any and all Letters Patent of the United States and any foreign countries which may be granted therefore including our rights under the International Convention for the Protection of Industrial Property, which include the right to claim priority based on the filing date of said applications(s), and in and to any and all extensions, divisions, continuations, continuations-in-part or reissues of said Letters Patent that may be granted, the same to be held and enjoyed by Corporation for its own use and benefit and use and benefit of its successors and assigns to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me had this assignment and sale not been made, including the right to enforce such Letters Patent as fully and entirely as the same would have been held and enjoyed by the assignors if this assignment had not been made; together with all claims by assignors for damages by reason of past infringement or for provisional rights and including the right to suc for, and collect the same for its own use and benefit, and for the use and benefit of its successors, assigns, and other legal representatives;

AND, for the consideration aforesaid, we materially represent to Corporation, its successors and assigns, that at the time of the execution and delivery of these presents, we are the sole lawful owners of the entire right, title and interest in and to the invention, application and Letters Patent above mentioned, and that the same are unencumbered, and that we have good right and lawful authority to sell and convey the same in the manner herein set forth:

AND, for the consideration aforesaid, we hereby individually covenant and agree to and with Corporation, its successors and assigns, that whenever its counsel or the counsel of its successors or assigns, learned in the law, shall advise that an amendment or division of, or continuation or any continuation-in-part thereof, or any other proceeding in connection with the filing or prosecution of said domestic or foreign patent applications, including interference proceedings, is lawful and desirable, or that a reissue of extension of said Letters Patent is lawful and desirable, we, or our executors, administrators or assigns will sign all papers and drawings, take all rightful oaths, and do all acts necessary or

Assignment

Page 1 of 9 Attorney Docket No.: C00015121.USU1/1111-575US01

I/We do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of the said applications, to said Medtronic, Inc., as the assignee of the entire right, title, and interest therein.

Given Name (first and middle initial [if any]): Randolph E.	Family Name or Surname (last name): Crutchfield		
Inventor's Signature:	Date:		
City and State: Scottsdale, AZ	Country: USA	Citizenship: USA	
STATE OF ARIZONA)) ss. COUNTY OF MARICOPA) On this day of Randolph E. Crutchfield, and who executed the f	, 2017, before me pe	rsonally appeared the above-named	
aforesaid.	oregonis nom more, an ama posses	,	
(Seal)	Notary Public		

Given Name (first and middle initial [if any]): Gerard A.	Family Name or Surname (last name): Bast				
Inventor's Signature:		Date:			
Residence (City and State): Chandler, AZ	1	Country: USA	Citizenship: USA		
STATE OF ARIZONA)) ss. COUNTY OF MARICOPA)					
On this day of Gerard A. Bast, and who executed the foregoing i	nstrument, as	, 2017, before m said person's fre	e personally appeared the above-named act and deed, on the day and year aforesaid.		
(Seal) Notary Public					

Given Name (first and middle initial [if any]): David A.	Family Name or Surname (last name): Cano				
Inventor's Signature:	***************************************	Date:			
Residence (City and State): Phoenix, AZ		Country: USA	Citizenship: USA		
STATE OF ARIZONA)) ss. COUNTY OF MARICOPA)					
On this day of David A. Cano, and who executed the foregoing is	nstrument,	, 2017, before me as said person's free	e personally appeared the above-named act and deed, on the day and year aforesaid.		
(Seal)		Notary Public			

Given Name (first and middle initial [if any]): Lisa Anne Harness	Family Name or Surname (last name): Mesias			
Inventor's Signature:		Date:		
Residence (City and State): Chandler, AZ		Country: USA	Citizenshij USA	p:
STATE OF ARIZONA)) ss. COUNTY OF MARICOPA)				
On thisday of Anne Harness Mesias, and who executed the foregaforesaid.	going instru	, 2017, before me ment, as said persor	personally appeared th t's free act and deed, on	te above-named Lisa the day and year
(Seal)		Notary Public		

Given Name (first and middle initial [if any]): Clark B.	Family Name or Sumame (last name): Norgaard			
Inventor's Signature:		Date:		
Residence (City and State): Phoenix, AZ	:	Country: JSA	Citizenship: USA	
STATE OF ARIZONA)) ss. COUNTY OF MARICOPA)				
On this day of Clark B. Norgaard, and who executed the foregoir aforesaid.	ng instrument,	, 2017, before me as said person's f	e personally appeared the above-named free act and deed, on the day and year	
(Seal)	Notary Public			

Given Name (first and middle initial [if any]): Mark E.	Family Name or Surname (last name): Porter				
Inventor's Signature:	Date:				
Residence (City and State): Phoenix, AZ	Country: USA	Citizenship: USA			
STATE OF ARIZONA) ss. COUNTY OF MARICOPA)					
On thisday of,2017, before me personally appeared the above-named Mark E. Porter, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.					
(Seal)	Notary Public				

Given Name (first and middle initial [if any]): Jerome	Family Name or Surname (last name): Sims II				
Inventor's Signature:		Date:			
Residence (City and State): Phoenix, AZ		Country: USA	Citizenship: USA		
STATE OF ARIZONA)) ss. COUNTY OF MARICOPA)					
On this day of,2017, before me personally appeared the above-named Jerome Sims II, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.					
(Seal)	Notary Public				

Given Name (tirst and middle initial [it any]): Philip	Family Name or Surname (last	i name):
Inventor's Signature:	Date: 6/2/	12017
Residence (City and State): Phoenix, AZ	Country: USA	Citizenship: USA
STATE OF ARIZONA) SS. COUNTY OF MARICOPA) On this 2 day of 300 \$ Philip Timson, and who executed the foregoing in the solution of the so	nstrument, as said person's free at	personally appeared the above-named ct and deed, on the day and year aforesaid.
Notary Public, Siste of J Maricopa Count My Commission Ex May 15, 2020	Arizons Notary Public V Mateus	

RECORDED: 07/11/2017