

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5944634

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	MERGER AND CHANGE OF NAME	
EFFECTIVE DATE:	01/26/2019	
CONVEYING PARTY DATA		
	Name	Execution Date
	TYRX, INC.	01/09/2020
NEWLY MERGED ENTITY DATA		
	Name	Execution Date
	MEDTRONIC, INC.	01/10/2020
MERGED ENTITY'S NEW NAME (RECEIVING PARTY)		
Name:	MEDTRONIC, INC.	
Street Address:	710 MEDTRONIC PARKWAY	
City:	MINNEAPOLIS	
State/Country:	MINNESOTA	
Postal Code:	55432	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Patent Number:	9127124
CORRESPONDENCE DATA		
Fax Number:	(303)305-2224	
<i>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.</i>		
Phone:	303-305-2476	
Email:	rs.patents.five@medtronic.com	
Correspondent Name:	JOAN SCHUBERT	
Address Line 1:	6135 GUNBARREL AVENUE	
Address Line 4:	BOULDER, COLORADO 80301	
ATTORNEY DOCKET NUMBER:	C00008000.USC10	
NAME OF SUBMITTER:	STEPHEN WALTER BAUER	
SIGNATURE:	/steve bauer/	
DATE SIGNED:	02/04/2020	
Total Attachments: 7		

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ASSIGNMENT

This Assignment is made this 9th day of January, 2020

BETWEEN TYRX, INC., a Delaware Corporation of 1 Deer Park Drive, Suite G, Monmouth Junction, NJ 08852 (hereinafter referred to as ASSIGNOR) of one part

AND MEDTRONIC, INC., a corporation organized and existing under the laws of the State of Minnesota of 710 Medtronic Parkway, Minneapolis, Minnesota, 55432 (hereinafter referred to as ASSIGNEE) of the other part

WHEREAS the Assignor is the owner of the applications for patents and the patents listed in the Attached SCHEDULE OF PATENT APPLICATIONS AND PATENTS:

And whereas the Assignors have agreed to assign all its right, title and interest in the said patents to the Assignees through a Plan of Merger having an effective date of January 26, 2019.

NOW THIS DEED WITNESSETH that in consideration of the sum of one dollar (\$1.00 USD) now paid by the Assignee to the Assignor (the receipt whereof the Assignor hereby acknowledges) Assignor has sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid applications, and in and to the applications, all divisionals, continuations, or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the inventions and improvements, including an assignment of all rights under the provisions of the International Convention, all rights to claim priority to an earlier application, and all Letters Patent of foreign countries which may be granted therefrom, the same to be held and enjoyed by Assignee for its own use and behoof and use and behoof 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 Assignor had this assignment and sale not been made, including without limitation, 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 Assignor does hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the Assignee, its successors and assigns.

AND, for the consideration aforesaid, Assignor does hereby agree that Assignor and its executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to Assignor relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore Assignor covenants and agrees with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by Assignor and that full right to convey the same as herein expressed is possessed by me.

IN WITNESS THEREOF these presents have been executed by the parties, hereto in accordance with their respective constitutions the day the first above written.

EXECUTED this 9th day of January, 2020

On Behalf of **TYRX, INC.**
by the undersigned authorized officer thereof in the presence of the undersigned competent witnesses.

Sign: 

Name: Elizabeth A. O'Brien

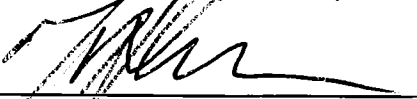
Designation: VP, IP, CVG

Witness Signature: 
MICHELE A. PARKER

Witness Signature: 
Tina Silva-Urbaek

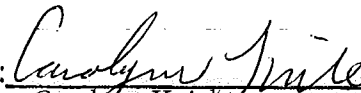
EXECUTED this 10th day of January, 2020

On Behalf of **MEDTRONIC, INC.**
by the undersigned authorized officer thereof in the presence of the undersigned competent witnesses.

Sign: 

Name: Thomas C. Hughes

Designation: Vice President of Covidien LP.

Witness Signature: 
Carolynn Knight

Witness Signature: 
Christine Girgasky

SCHEDULE OF US PATENT APPLICATIONS AND PATENTS

Country	Patent No.	Application Number
United States of America	9,127,124	14/491,102
United States of America	8,952,106	13/766,136
United States of America	8,445,603	12/564,736
United States of America	8,471,054	13/414,090
United States of America	8,927,659	13/867,225
United States of America	8,153,837	12/279,539
United States of America	9,457,129	14/033,979
United States of America	9,987,116	15/219,780
United States of America		15/975,273
United States of America	8,315,700	12/648,126
United States of America	8,591,531	11/936,054
United States of America	8,636,753	11/672,929
United States of America	8,911,765	12/058,060
United States of America	9,233,192	14/090,158
United States of America	8,629,233	12/641,996
United States of America	9,491,966	12/598,559
United States of America	8,652,525	12/499,399
United States of America	8,617,607	12/500,852
United States of America	9,737,644	14/861,597
United States of America	9,155,735	13/218,096
United States of America	10,086,115	14/045,991
United States of America	9,585,988	13/293,816
United States of America	9,839,628	12/791,586
United States of America	9,023,114	11/936,051
United States of America	9,848,955	14/643,182
United States of America	9,381,281	14/233,856
United States of America		15/972,836
United States of America		15/972,855
United States of America		15/583,153
United States of America		15/582,935
United States of America		15/583,086
United States of America		15/583,124
United States of America		15/854,284
United States of America	9,919,080	15/795,567
United States of America		14/045,991

SCHEDULE OF OUS PATENT APPLICATIONS AND PATENTS

Country	Patent No.	Application Number
Australia	2009292949	2009292949
Australia	2006311893	2006311893
Australia	2012202056	2012202056
Australia	2007344645	2007344645
Australia	2007351374	2007351374
Australia	2013200515	2013200515
Australia	2008232682	2008232682
Australia	2008265586	2008265586
Australia	2008247455	2008247455
Australia	2011293344	2011293344
Australia	2015264956	2015264956
Australia	2010256750	2010256750
Australia	2007352548	2007352548
Australia	2013200627	2013200627
Australia	2012283875	2012283875
Belgium	2733158	14150076.9
Belgium	2944666	14198131.6
Belgium	2079387	07873600.6
Belgium	2609162	11754961.8
Canada	2737769	2737769
Canada	2,833,960	2833960
Canada	2628232	2628232
Canada	2637578	2637578
Canada	2682190	2682190
Canada	2691443	2691443
Canada	2686214	2686214
Canada	2853772	2853772
Canada	2,809,176	2809176
Canada	2,816,343	2816343
Canada	2764134	2764134
Canada	2841499	2841499
Canada	2667867	2667867
Canada	2842107	2842107
China		201880032572.4
China		201880032567.3
China		201880033217.9
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European Patent	2346537	09815387.7
European Patent	2733158	14150076.9
European Patent	2944666	14198131.6
European Patent		07756801.2

European Patent	2079387	07873600.6
European Patent	2129339	08799713.6
European Patent	2166981	08780892.9
European Patent	2150119	08747608.1
European Patent		18211643.4
European Patent	2609162	11754961.8
European Patent	2637713	11785876.1
European Patent	2437724	10783928.4
European Patent	2079389	07874257.4
European Patent	2734248	12746171.3
European Patent		14815478.4
European Patent		17723824.3
European Patent		17723206.3
European Patent		17726393.6
European Patent		17723207.1
European Patent		17723823.5
European Patent		17835543.4
France	2346537	09815387.7
France	2733158	14150076.9
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Germany (Federal Republic of)	602009042333.9	09815387.7
Germany (Federal Republic of)	60 2006 056 403.1	14150076.9
Germany (Federal Republic of)	602006057581.5	14198131.6
Germany (Federal Republic of)	602007050620.4	07873600.6
Germany (Federal Republic of)	602008036986.2	08799713.6
Germany (Federal Republic of)	602008046164.5	08780892.9
Germany (Federal Republic of)	602008054782.5	08747608.1
Germany (Federal Republic of)	60 2011 054 754.2.	11754961.8
Germany (Federal Republic of)	602011025699.8	11785876.1
Germany (Federal Republic of)	602010027921.9	10783928.4
Germany (Federal Republic of)	602007053731.2	07874257.4
Germany (Federal Republic of)	60 2012 052 326.3	12746171.3
Italy	2733158	14150076.9
Italy	502019000026746	14198131.6
Italy	2079387	07873600.6
Italy	502019000019703	11754961.8
Japan	5671463	2011-528070
Japan	5339913	2008-539055
Japan		2009-535509
Japan	5367692	2010-502992

Japan	5796911	2013-147882
Japan	5400029	2010-501255
Japan	5774074	2013-221455
Japan	6046331	2010-513454
Japan	5925866	2014-236464
Japan	5581202	2010-506705
Japan	6031033	2013-526151
Japan	6397190	2013-538890
Japan	5847706	2012-514044
Japan	5398535	2009-535508
Japan	5852952	2012-274044
Japan		2014-521814
Netherlands	2733158	14150076.9
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Netherlands	2079387	07873600.6
Netherlands	2609162	11754961.8
Patent Cooperation Treaty		PCT/US2018/031575
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Patent Cooperation Treaty		PCT/US2018/031581
Patent Cooperation Treaty		PCT/US2017/030504
Patent Cooperation Treaty		PCT/US2017/030510
Patent Cooperation Treaty		PCT/US2017/030513
Patent Cooperation Treaty		PCT/US2017/030517
Patent Cooperation Treaty		PCT/US2017/030530
Patent Cooperation Treaty		PCT/US2017/068407
Patent Cooperation Treaty		PCT/US2018/053932
Spain	2733158	14150076.9
Spain	2944666	14198131.6
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United Kingdom	2733158	14150076.9
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United Kingdom	2079387	07873600.6
United Kingdom	2609162	11754961.8