

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5243656

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
GERALD G. LINDNER	05/23/2011
WILLIAM C. PHILLIPS	05/23/2011
DOMINIQUE PIGUET	05/25/2011
DANIEL T. PYNE	05/31/2011
MICAH A. LITOW	06/02/2011
JAMES STROM	06/30/2011
MARK G. WOSMEK	06/30/2011
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:	15217998
CORRESPONDENCE DATA	
Fax Number:	(770)643-8913
<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:	7706438912
Email:	jeramie@witherskeys.com
Correspondent Name:	MEDTRONIC-WK
Address Line 1:	P.O. BOX 71355
Address Line 4:	MARIETTA, GEORGIA 30007-1355
ATTORNEY DOCKET NUMBER:	P0031587.USC3
NAME OF SUBMITTER:	JERAMIE J. KEYS
SIGNATURE:	/Jeramie J. Keys/
DATE SIGNED:	11/19/2018

Total Attachments: 19

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ASSIGNMENT

WHEREAS, WE,

- (1) Gerald G. Lindner, residing at 7413 Peltier Lake Drive, Lino Lakes, MN 55038;
- (2) William C. Phillips, residing at 8906 Telford Crossing, Brooklyn Park, MN 55443;
- (3) Dominique Piguet, residing at Ch. due Chaugand 47, Epalinges, CH 1066;
- (4) Daniel T. Pyne, residing at 500 North Roosevelt Avenue, #20, Chandler, AZ 85226; and
- (5) Micah A. Litow, residing at 1501 Maple Avenue, #704, Evanston, IL 60201,

have made an invention relating to MEDICAL DEVICE INCLUDING FLEXIBLE CIRCUIT BODIES WITH EXPOSED PORTIONS OF CIRCUIT TRACES ATTACHED TO ELECTRICAL CONTACTS OF COMPONENTS, for which we have executed an application for Letters Patent of United States of America,

☐ on even date herewith; and

☒ was filed on March 22, 2011, as United States Application No. 13/069,019, and Provisional Application No. 61/319,861 filed March 31, 2010; and

WHEREAS we hereby authorize and request the assignee, Medtronic, Inc., to insert the filing date and application number of said application when known; and

WHEREAS, MEDTRONIC, INC. a corporation organized and existing under the laws of the State of Minnesota and having a principal place of business at 710 Medtronic Parkway NE, 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 therefor;

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 the above-identified invention and applications and the entire right, title and interest in and to any and all Letters Patent of the United States (including, without limitation, every patent application identified above) and any foreign countries which may be granted therefor including our rights under the International Convention for the Protection of Industrial Property, and in and to any and all extensions, divisions, continuations, continuations-in-part or reissues that may be filed with respect to the above-identified invention and applications and 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 each of us had this assignment and sale not been made;

Given Name (first and middle initial): William C.	Family Name or Surname (last name): Phillips	
Inventor's Signature: 	Date: 23 May 2011	
Residence (City and State): Brooklyn Park, MN	Country: USA	Citizenship: US

STATE OF MINNESOTA)
) ss.
COUNTY OF ANOKA)

On this 23rd day of May, 2011, before me personally appeared the above-named William C. Phillips, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.

(Seal) THERESA C. TO
 Notary Public-Minnesota
 My Commission Expires Jan 31, 2015

Theresa C. To
 Notary Public

Given Name (first and middle initial): Dominique		Family Name or Surname (last name): Piguet	
Inventor's Signature:		Date:	
Residence (City and State): Epalinges		Country: CH	Citizenship: CH
Witness Signature		Witness Signature	
Witness Printed Name		Witness Printed Name	

Given Name (first and middle initial): Daniel T.		Family Name or Surname (last name): Pyne	
Inventor's Signature:		Date:	
Residence (City and State): Chandler, AZ		Country: USA	Citizenship: US
STATE OF ARIZONA)) ss. COUNTY OF _____)			
On this _____ day of _____, 2011, before me personally appeared the above-named Daniel T. Pyne, 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): Micah A.	Family Name or Surname (last name): Litow	
Inventor's Signature:	Date:	
Residence (City and State): Evanston, IL	Country: USA	Citizenship: US
STATE OF ILLINOIS)) ss. COUNTY OF _____)		
On this _____ day of _____, 2011, before me personally appeared the above-named Micah A. Litow, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.		
<div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="width: 45%;"> (Seal) </div> <div style="width: 50%; text-align: center;"> <div style="border-top: 1px solid black; margin-bottom: 5px;"></div> Notary Public </div> </div>		

ASSIGNMENT

WHEREAS, WE,

- (1) Gerald G. Lindner, residing at 7413 Peltier Lake Drive, Lino Lakes, MN 55038;
- (2) William C. Phillips, residing at 8906 Telford Crossing, Brooklyn Park, MN 55443;
- (3) Dominique Piguet, residing at Ch. due Chaugand 47, Epalinges, CH 1066;
- (4) Daniel T. Pyne, residing at 500 North Roosevelt Avenue, #20, Chandler, AZ 85226; and
- (5) Micah A. Litow, residing at 1501 Maple Avenue, #704, Evanston, IL 60201,

have made an invention relating to MEDICAL DEVICE INCLUDING FLEXIBLE CIRCUIT BODIES WITH EXPOSED PORTIONS OF CIRCUIT TRACES ATTACHED TO ELECTRICAL CONTACTS OF COMPONENTS, for which we have executed an application for Letters Patent of United States of America,

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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 the above-identified invention and applications and the entire right, title and interest in and to any and all Letters Patent of the United States (including, without limitation, every patent application identified above) and any foreign countries which may be granted therefor including our rights under the International Convention for the Protection of Industrial Property, and in and to any and all extensions, divisions, continuations, continuations-in-part or reissues that may be filed with respect to the above-identified invention and applications and 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 each of us had this assignment and sale not been made;

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 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;

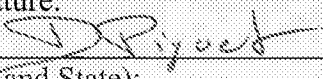

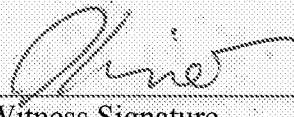
AND, for the consideration aforesaid, we hereby individually covenant and agree to and with Corporation, its successors and assigns, that whenever its counsel or the counsel of its successors or assigns, learned in the law, shall advise that an amendment or division of, or continuation or any continuation-in-part 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 my executors, administrators or assigns will sign all papers and drawings, take all rightful oaths, and do all acts necessary or required to be done for the procurement of valid Letters Patent for said invention, or for the reissue or extension of the same, without charge to Corporation, its successors or assigns, but at Corporation's expense.

We hereby request the Honorable Commissioner of Patents and Trademarks to issue the Letters Patent to Corporation in accordance with this instrument.

In witness whereof, I/we have signed my/our name(s) on the day and year set forth below.

Given Name (first and middle initial) : Gerald G.		Family Name or Surname (last name): Lindner	
Inventor's Signature:		Date:	
City and State: Lino Lakes, MN		Country: USA	Citizenship: US
STATE OF MINNESOTA)) ss. COUNTY OF ANOKA)			
On this ____ day of _____, 2011, before me personally appeared the above-named Gerald G. Lindner, 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): William C.		Family Name or Surname (last name): Phillips	
Inventor's Signature:		Date:	
Residence (City and State): Brooklyn Park, MN		Country: USA	Citizenship: US
STATE OF MINNESOTA)) ss. COUNTY OF ANOKA)			
On this _____ day of _____, 2011, before me personally appeared the above-named William C. Phillips, 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): Dominique		Family Name or Surname (last name): Piguet	
Inventor's Signature: 		Date: 25-MAY-2011	
Residence (City and State): Epalinges		Country: CH	Citizenship: CH
 _____ Witness Signature		 _____ Witness Signature	
FAVRE Sébastien _____ Witness Printed Name		MÜLLER David _____ Witness Printed Name	

Given Name (first and middle initial): Daniel T.	Family Name or Surname (last name): Pyne	
Inventor's Signature:	Date:	
Residence (City and State): Chandler, AZ	Country: USA	Citizenship: US
STATE OF ARIZONA)) ss. COUNTY OF _____)		
On this ____ day of _____, 2011, before me personally appeared the above-named Daniel T. Pyne, 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): Micah A.		Family Name or Surname (last name): Litow	
Inventor's Signature:		Date:	
Residence (City and State): Evanston, IL		Country: USA	Citizenship: US
STATE OF ILLINOIS)) ss. COUNTY OF _____)			
On this _____ day of _____, 2011, before me personally appeared the above-named Micah A. Litow, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.			
(Seal)		_____ Notary Public	

ASSIGNMENT

WHEREAS, WE,

- (1) Gerald G. Lindner, residing at 7413 Peltier Lake Drive, Lino Lakes, MN 55038;
- (2) William C. Phillips, residing at 8906 Telford Crossing, Brooklyn Park, MN 55443;
- (3) Dominique Piguet, residing at Ch. due Chaugand 47, Epalinges, CH 1066;
- (4) Daniel T. Pyne, residing at 500 North Roosevelt Avenue, #20, Chandler, AZ 85226; and
- (5) Micah A. Litow, residing at 1501 Maple Avenue, #704, Evanston, IL 60201,

have made an invention relating to MEDICAL DEVICE INCLUDING FLEXIBLE CIRCUIT BODIES WITH EXPOSED PORTIONS OF CIRCUIT TRACES ATTACHED TO ELECTRICAL CONTACTS OF COMPONENTS, for which we have executed an application for Letters Patent of United States of America,

☐ on even date herewith; and

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WHEREAS we hereby authorize and request the assignee, Medtronic, Inc., to insert the filing date and application number of said application when known; and

WHEREAS, MEDTRONIC, INC. a corporation organized and existing under the laws of the State of Minnesota and having a principal place of business at 710 Medtronic Parkway NE, 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 therefor;

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 the above-identified invention and applications and the entire right, title and interest in and to any and all Letters Patent of the United States (including, without limitation, every patent application identified above) and any foreign countries which may be granted therefor including our rights under the International Convention for the Protection of Industrial Property, and in and to any and all extensions, divisions, continuations, continuations-in-part or reissues that may be filed with respect to the above-identified invention and applications and 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 each of us had this assignment and sale not been made;

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 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 my executors, administrators or assigns will sign all papers and drawings, take all rightful oaths, and do all acts necessary or required to be done for the procurement of valid Letters Patent for said invention, or for the reissue or extension of the same, without charge to Corporation, its successors or assigns, but at Corporation's expense.

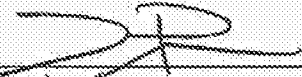
We hereby request the Honorable Commissioner of Patents and Trademarks to issue the Letters Patent to Corporation in accordance with this instrument.

In witness whereof, I/we have signed my/our name(s) on the day and year set forth below.

Given Name (first and middle initial) : Gerald G.		Family Name or Surname (last name): Lindner	
Inventor's Signature:		Date:	
City and State: Lino Lakes, MN		Country: USA	Citizenship: US
STATE OF MINNESOTA)) ss. COUNTY OF ANOKA)			
On this ____ day of _____, 2011, before me personally appeared the above-named Gerald G. Lindner, 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): William C.		Family Name or Surname (last name): Phillips	
Inventor's Signature:		Date:	
Residence (City and State): Brooklyn Park, MN		Country: USA	Citizenship: US
STATE OF MINNESOTA)) ss. COUNTY OF ANOKA)			
On this _____ day of _____, 2011, before me personally appeared the above-named William C. Phillips, 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): Dominique		Family Name or Surname (last name): Piguet	
Inventor's Signature:		Date:	
Residence (City and State): Epalinges		Country: CH	Citizenship: CH
_____ Witness Signature		_____ Witness Signature	
_____ Witness Printed Name		_____ Witness Printed Name	

Given Name (first and middle initial): Daniel T.		Family Name or Surname (last name): Pyne	
Inventor's Signature: 		Date: 31-MAY, 2011	
Residence (City and State): Chandler, AZ		Country: USA	Citizenship: US

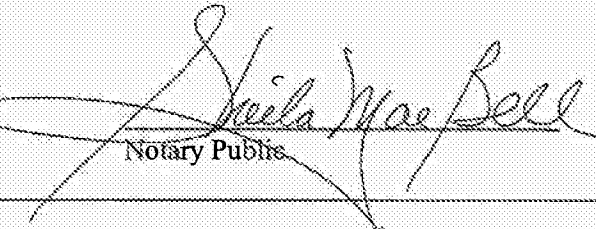
STATE OF ARIZONA)
) ss.
 COUNTY OF Maricopa)

On this 31st day of May, 2011, before me personally appeared the above-named Daniel T. Pyne, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.

(Seal)



SHEILA MAE SELL
 NOTARY PUBLIC - ARIZONA
 MARICOPA COUNTY
 My Commission Expires
 November 30, 2011



Notary Public

Given Name (first and middle initial): Micah A.		Family Name or Surname (last name): Litow	
Inventor's Signature:		Date:	
Residence (City and State): Evanston, IL		Country: USA	Citizenship: US
STATE OF ILLINOIS)) ss. COUNTY OF _____)			
On this _____ day of _____, 2011, before me personally appeared the above-named Micah A. Litow, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.			
(Seal)		_____ Notary Public	

ASSIGNMENT

WHEREAS, WE,

- (1) Gerald G. Lindner, residing at 7413 Peltier Lake Drive, Lino Lakes, MN 55038;
- (2) William C. Phillips, residing at 8906 Telford Crossing, Brooklyn Park, MN 55443;
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- (4) Daniel T. Pyne, residing at 500 North Roosevelt Avenue, #20, Chandler, AZ 85226; and
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have made an invention relating to MEDICAL DEVICE INCLUDING FLEXIBLE CIRCUIT BODIES WITH EXPOSED PORTIONS OF CIRCUIT TRACES ATTACHED TO ELECTRICAL CONTACTS OF COMPONENTS, for which we have executed an application for Letters Patent of United States of America,

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WHEREAS, MEDTRONIC, INC. a corporation organized and existing under the laws of the State of Minnesota and having a principal place of business at 710 Medtronic Parkway NE, 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 therefor;

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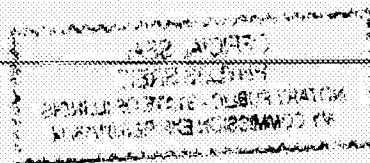
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In witness whereof, I/we have signed my/our name(s) on the day and year set forth below.

Given Name (first and middle initial) : Gerald G.		Family Name or Surname (last name): Lindner	
Inventor's Signature:		Date:	
City and State: Lino Lakes, MN		Country: USA	Citizenship: US
STATE OF MINNESOTA)) ss. COUNTY OF ANOKA)			
On this ____ day of _____, 2011, before me personally appeared the above-named Gerald G. Lindner, 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): William C.		Family Name or Surname (last name): Phillips	
Inventor's Signature:		Date:	
Residence (City and State): Brooklyn Park, MN		Country: USA	Citizenship: US
STATE OF MINNESOTA)) ss. COUNTY OF ANOKA)			
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(Seal)		_____ Notary Public	

Given Name (first and middle initial): Dominique		Family Name or Surname (last name): Piguet	
Inventor's Signature:		Date:	
Residence (City and State): Epalinges		Country: CH	Citizenship: CH
_____ Witness Signature		_____ Witness Signature	
_____ Witness Printed Name		_____ Witness Printed Name	



Given Name (first and middle initial): Daniel T.		Family Name or Surname (last name): Pyne	
Inventor's Signature:		Date:	
Residence (City and State): Chandler, AZ		Country: USA	Citizenship: US
STATE OF ARIZONA)) ss. COUNTY OF _____)			
On this _____ day of _____, 2011, before me personally appeared the above-named Daniel T. Pyne, 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): Micah A.		Family Name or Surname (last name): Litow	
Inventor's Signature: <i>[Signature]</i>		Date: 6/2/11	
Residence (City and State): Evanston, IL		Country: USA	Citizenship: US

STATE OF ILLINOIS)
) ss.
COUNTY OF **COOK**)

On this **2ND** day of **JUNE**, 2011, before me personally appeared the above-named Micah A. Litow, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.

(Seal)

[Signature]

Notary Public

ASSIGNMENT

WHEREAS, WE,

James Strom, residing at 3740 McCracken Lane, Arden Hills, MN 55112; and (2) Mark G. Wosmek, residing at 7120 163rd Avenue, Ramsey, MN 55303;

have made an invention relating to MEDICAL DEVICE INCLUDING FLEXIBLE CIRCUIT BODIES WITH EXPOSED PORTIONS OF CIRCUIT TRACES ATTACHED TO ELECTRICAL CONTACTS OF COMPONENTS, for which we have executed an application for Letters Patent of United States of America,

☐ on even date herewith; and

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WHEREAS we hereby authorize and request the assignee, Medtronic, Inc., to insert the filing date and application number of said application when known; and

WHEREAS, MEDTRONIC, INC. a corporation organized and existing under the laws of the State of Minnesota and having a principal place of business at 710 Medtronic Parkway NE, 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 therefor;

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 the above-identified invention and applications and the entire right, title and interest in and to any and all Letters Patent of the United States (including, without limitation, every patent application identified above) and any foreign countries which may be granted therefor including our rights under the International Convention for the Protection of Industrial Property, and in and to any and all extensions, divisions, continuations, continuations-in-part or reissues that may be filed with respect to the above-identified invention and applications and 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 each of us had this assignment and sale not been made;

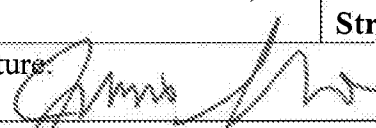
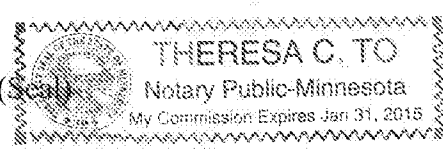
AND, for the consideration aforesaid, we materially represent to Corporation, its successors and assigns, that at the time of the execution and delivery of these presents, we are the lawful owners of the entire right, title and interest in and to the invention, application and Letters Patent

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 my executors, administrators or assigns will sign all papers and drawings, take all rightful oaths, and do all acts necessary or required to be done for the procurement of valid Letters Patent for said invention, or for the reissue or extension of the same, without charge to Corporation, its successors or assigns, but at Corporation's expense.

We hereby request the Honorable Commissioner of Patents and Trademarks to issue the Letters Patent to Corporation in accordance with this instrument.

In witness whereof, I/we have signed my/our name(s) on the day and year set forth below.

Given Name (first and middle initial) : James		Family Name or Surname (last name): Strom	
Inventor's Signature: 		Date: <u>6/30/11</u>	
City and State: Arden Hills, MN		Country: USA	Citizenship: US
STATE OF MINNESOTA)) ss. COUNTY OF ANOKA)			
On this <u>30th</u> day of <u>June</u> , 2011, before me personally appeared the above-named James Strom, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.			
 THERESA C. TO Notary Public-Minnesota My Commission Expires Jan 31, 2015		<u>Theresa C. To</u> Notary Public	

