

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
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EPAS ID: PAT4622035

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	JAMES A. REITZ	09/27/2017
	RAYMOND M. RUSSELL	09/27/2017
	ANTHONY C. CANNISTRACI	09/27/2017
	DAVID PAVELL	09/27/2017
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	Medtronic MiniMed, Inc.	
<b>Street Address:</b>	18000 Devonshire Street	
<b>City:</b>	Northridge	
<b>State/Country:</b>	CALIFORNIA	
<b>Postal Code:</b>	91325-1219	
<b>PROPERTY NUMBERS Total: 1</b>		
	<b>Property Type</b>	<b>Number</b>
	Application Number:	15719359
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(480)385-5061	
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<b>Correspondent Name:</b>	LORENZ & KOPF, LLP	
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<b>ATTORNEY DOCKET NUMBER:</b>	009.5158	
<b>NAME OF SUBMITTER:</b>	JAMES P. DELANEY	
<b>SIGNATURE:</b>	/JAMES P. DELANEY, REG. NO. 45,578/	
<b>DATE SIGNED:</b>	10/02/2017	
<b>Total Attachments: 3</b>		
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## ASSIGNMENT

Attorney Docket No.: 009.5158

(1-4) Insert Name(s) of  
Inventor(s)

- (1) JAMES A. REITZ
- (2) RAYMOND M. RUSSELL
- (3) ANTHONY C. CANNISTRACI
- (4) DAVID PAVELL

In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned (the receipt of which is hereby acknowledged), the undersigned agree(s) to assign, and hereby does assign, transfer, sell and set over to

(5) Insert name of Assignee

(5) MEDTRONIC MINIMED, INC.

(6) Insert state of  
Incorporation of Assignee

(6) Delaware

(7) Insert address of  
Assignee

(7) of 18000 Devonshire Street, Northridge, CA 91325-1219  
(hereinafter designated as the Assignee), its successors and assigns, the entire worldwide right, title and interest in the invention (and any and all applications and all patents which may be granted on the invention) known as

(8) Insert identification of  
Invention, such as Title,  
Case Number or Foreign  
Application Number

(8) **MEDICAL DEVICES WITH MICRONEEDLE ARRAYS AND METHODS  
FOR OPERATING SUCH MEDICAL DEVICES**  
for which the undersigned has (have) executed an application for patent in the United States of America as the inventor (inventors)

(9) Insert Date of Signing of  
Application

(9) on September 27, 2017

For the aforementioned consideration, the undersigned does (do) materially represent to the Assignee, its successors and assigns, that at the time of the execution of this assignment that the undersigned is (are) a lawful owner(s) of the entire right, title and interest in and to the invention and the above-identified application for patent, and that the same is unencumbered, and that the undersigned has (have) good right(s) and lawful authority to sell and convey the same in the manner set forth herein.

The undersigned further agree(s):

- a) to execute all papers necessary in connection with an application in any country of the world and any extension, reissue, reexamination, continuation-in-part, continuation or divisional applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient;
- b) to execute all papers necessary in connection with any interference which may be declared concerning this application or extension, reissue, reexamination, continuation-in-part, continuation or divisional applications thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference;
- c) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements (including the Patent Cooperation Treaty, Paris Convention, etc.) for any application filed in a foreign country claiming priority to the invention;

d) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States Patent or other international application or foreign country patent to the Assignee;

e) to hereby authorize(s) and request(s) the Director of the United States Patent and Trademark Office to issue any and all Letters Patents of the United States resulting from the application or any extension, reissue, reexamination, continuation-in-part, continuation or divisional applications thereof to the Assignee, as Assignee of the entire right, title and interest in and to the same, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, any agreement in conflict herewith; and

f) to hereby appoint:

Paul H. Kovelman, Reg. No. 35,228  
Eric S. Chen, Reg. No. 43,542  
Alma P. Levy, Reg. No. 43,751  
Sharon E. Mughal, Reg. No. 59,816  
Ajit S. Narang, Reg. No. 55,480  
Vivian S. Shin, Reg. No. 43,919

and all of the firm of Lorenz & Kopf, LLP:

Vincent B. Ingrassia, Reg. No. 25,732  
Mark M. Takahashi, Reg. No. 38,631  
Erica K. Schaefer, Reg. No. 55,861  
James R. Walters, Reg. No. 61,523

the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

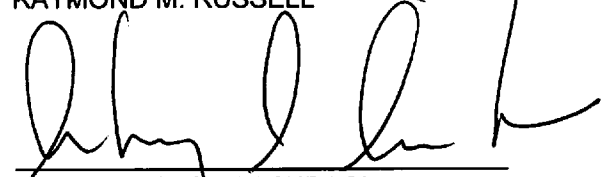
Date: 9/27/17

Signature of Inventor (1):   
Name of Inventor: JAMES A. REITZ

Date: 9/27/2017

Signature of Inventor (2):   
Name of Inventor: RAYMOND M. RUSSELL

Date: 9/27/2017

Signature of Inventor (3):   
Name of Inventor: ANTHONY C. CANNISTRACI

Date: 9/27/17

Signature of Inventor (4):   
Name of Inventor: DAVID PAVELL

ACCEPTANCE:

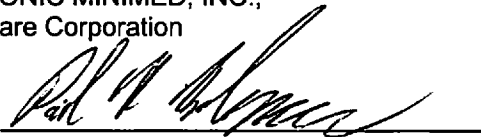
The undersigned, MEDTRONIC MINIMED, INC., a Delaware corporation, hereby declares that it has accepted the foregoing assignment.

SIGNED AND SEALED this 27<sup>th</sup> day of September, 2017.

ASSIGNEE:

MEDTRONIC MINIMED, INC.,  
a Delaware Corporation

By:



Name: Paul H. Kovelman

Title: Chief Patent Counsel