

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4216078

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
SHAILESHKUMAR V. MUSLEY	10/17/2016
MANEESH SHRIVASTAV	11/08/2016
STACIE VILENDRER	11/02/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	MEDTRONIC MONITORING, INC.
<b>Street Address:</b>	2033 GATEWAY PLACE
<b>Internal Address:</b>	SUITE 100
<b>City:</b>	SAN JOSE
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	95110-9300
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15342443
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(952)697-2631
<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>	
<b>Phone:</b>	9526972630
<b>Email:</b>	wskelly@billionarmitage.com, docketing@billionarmitage.com
<b>Correspondent Name:</b>	MICHAEL A. COLLINS
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<b>Address Line 4:</b>	MINNEAPOLIS, MINNESOTA 55439
<b>ATTORNEY DOCKET NUMBER:</b>	4056.069US1
<b>NAME OF SUBMITTER:</b>	MICHAEL A. COLLINS
<b>SIGNATURE:</b>	/Michael A. Collins/
<b>DATE SIGNED:</b>	01/09/2017
<b>Total Attachments: 4</b>	
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## ASSIGNMENT

WHEREAS, WE,

**ShaileshKumar V. MUSLEY**, residing at **833 96th Lane NE, Blaine, MN 55434**, and a citizen of **United States of America**;

**Maneesh SHRIVASTAV**, residing at **3002 117th Avenue NE, Blaine, MN 55449**, and a citizen of **United States of America** and

**Stacie VILENDRER**, residing at **1481 King Street, Santa Rosa, CA 95404**, and a citizen of **United States of America**.

have made certain new and useful inventions and certain improvements as described and set forth below;

Whereas, **Medtronic Monitoring, Inc.**, a Corporation having a place of business at **2033 Gateway Place, Suite 100, San Jose, CA 95110-9300, US** (hereinafter referred to as "ASSIGNEE"), desires to acquire the entire right, title, and interest to said invention and to any United States and foreign patents to be obtained therefore;

Now therefore, I/WE, the undersigned inventors, hereby sell, assign, and transfer to ASSIGNEE, its successors and assigns, the entire right, title and interest in the invention entitled:

### **METHOD AND APPARATUS FOR DETECTING ELECTROCARDIOGRAPHIC ABNORMALITIES BASED ON MONITORED HIGH FREQUENCY QRS POTENTIALS**

and described in the application for United States patent Application No. 15/342,443, filed on November 3, 2016 executed by Me/Us concurrently herewith, and any and all applications for patent and patents in any and all countries, including all divisions, continuations, reissues, and extensions thereof and all rights of priority resulting from the filing of said United States patent application; and hereby authorize and request that the Attorney(s) for ASSIGNEE to insert in this ASSIGNMENT document the application number and filing date of said United States patent application when known and authorize the Attorney(s) for ASSIGNEE to append to this ASSIGNMENT document application numbers and filing dates of any and all applications for patent and patents in any and all countries, resulting from the filing of said United States patent application. I/We request the Commissioner of Patents issue any Letters Patent granted upon the inventions set forth in said application to ASSIGNEE, its successors and assigns; and we hereby agree that ASSIGNEE may apply for foreign Letters Patent on said invention and I/We will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by ASSIGNEE.

I/We do hereby agree that upon request and without further consideration I/We and our respective executors and legal representatives will communicate to ASSIGNEE or its representatives or nominees any facts known to Me/Us respecting said improvements and testify in any legal proceedings, sign and deliver all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths, and generally aid the ASSIGNEE, its successors, assigns, and nominees to obtain and enforce proper patent protection for said invention in all countries.

IN TESTIMONY WHEREOF, I, Shaillesh Kumar V. MUSLEY, have caused this ASSIGNMENT to be signed this 17<sup>th</sup> day of October 2014

**ShaileshKumar V. MUSLEY**

STATE OF Minnesota )  
COUNTY OF Ramsey ) ss.

On this 17<sup>th</sup> day of October, 2016, before me personally appeared **Shailesh Kumar V. MUSLEY**, personally known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/she executed the same of his/her authorized capacity, and that by his/her signature on the instrument, the person, or the entity upon behalf of which the person acted, executed the instrument.

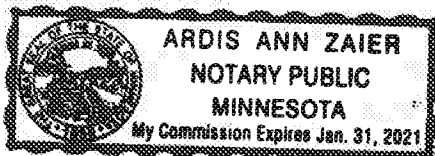
WITNESS my hand and official seal:

Ardie Ann Zaiser  
Notary Public

[SEAL]

My Commission expires:

Jan. 31, 2021



IN TESTIMONY WHEREOF, I, **Maneesh SHRIVASTAV**, have caused this ASSIGNMENT to be signed this 8 day of November, .....

Maneesh Shrivastav  
**Maneesh SHRIVASTAV**

STATE OF )  
 ) ss.  
COUNTY OF )

On this 8<sup>th</sup> day of November 2016, before me personally appeared **Maneesh SHRIVASTAV**, personally known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/she executed the same of his/her authorized capacity, and that by his/her signature on the instrument, the person, or the entity upon behalf of which the person acted, executed the instrument.

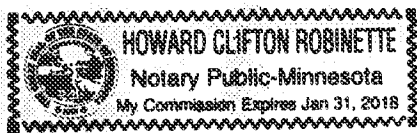
WITNESS my hand and official seal:

Howard Clifton Robinette  
Notary Public

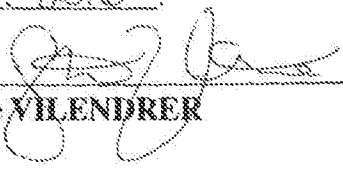
[SEAL]

My Commission expires:

1/31/2018



IN TESTIMONY WHEREOF, I, **Stacie VILENDRER**, have caused this ASSIGNMENT to be signed this 2 day of November, 2016.

  
Stacie VILENDRER

STATE OF \_\_\_\_\_ )  
 ) ss.  
COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, before me personally appeared **Stacie VILENDRER**, personally known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/she executed the same of his/her authorized capacity, and that by his/her signature on the instrument, the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal:

See California Notary Certificate below.  
Notary Public

[SEAL]

My Commission expires:  
\_\_\_\_\_

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California )  
County of SAN FRANCISCO )

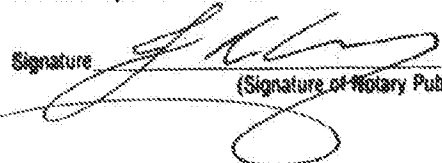
On 11/02/2016 before me, Francisco Jose Nakasone, Notary Public,  
(Date) (Here Insert Name and Title of the Officer)

personally appeared Stacie Marie Vileندرer  
(Name(s) of Signer(s))

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature  (Seal)  
(Signature of Notary Public)

