502111726 10/30/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
James M. Owen	01/23/2004
Cynthia P. Jayne	01/23/2004
William E. Crone	01/13/2004

RECEIVING PARTY DATA

Name:	Medtronic Physio-Control Corp.	
Street Address:	11811 Willows Road NE	
Internal Address:	South Bldg	
City:	Redmond	
State/Country:	WASHINGTON	
Postal Code:	98052	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13664205

CORRESPONDENCE DATA

Fax Number: 5032744622

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 503-222-3613

Email: docketing@techlaw.com,amandabernardy@techlaw.com

Correspondent Name: Marger Johnson & McCollom PC

Address Line 1: 210 SW Morrison Street

Address Line 2: Suite 400

Address Line 4: Portland, OREGON 97204

ATTORNEY DOCKET NUMBER:	7257-0320
NAME OF SUBMITTER:	Amanda K. Bernardy

Total Attachments: 2

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PATENT REEL: 029213 FRAME: 0735 OF \$40.00 13664205

Attorney Docket No.: 1023-280US01/PB9061.05

ASSIGNMENT

For valuable consideration, we, James M. Owen of 13112 184th Ave. N.E., Redmond, WA 98052, Cynthia P. Jayne of 5524 161 Pl NE, Redmond, WA 98052 and William E. Crone of 7500 329th Ave. S.E., Fall City, WA 98024, hereby assign to: Medtronic Physio-Control Corp., having a place of business at: 11811 Willows Road NE, South Bldg, Redmond WA 98052; and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are the subject of an application for United States Patent signed by us, entitled PULSE DETECTION USING PATIENT PHYSIOLOGICAL SIGNALS, filed September 2, 2003, and assigned U.S. Serial Number 10/654,270; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

On this 23 day of Owward, 2004, before me, Charlene Lepter, Notary Public, personally appeared James M. Owen personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity, and that by his/her/their signature on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

CHARLIENE! STATE OF WASHINGTON COMMISSION EXPIRES DECEMBER 5, 2007

WITNESS my hand and official seal.

Signature of Notary Public

My Commission Expires: /s

PATENT

REEL: 014922 FRAME: 0527

PATENT

REEL: 029213 FRAME: 0736

Date: 01/2364 Cynth P. Jayr
Cyńthia P. Jayne
State of Washington) ss:
On this 23 day of 11 Many, 2004, before me, Charlene L. Tepfer Notary Public, personally appeared Cynthia P. Jayne personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity, and that by his/her/their signature on the instrument the person(s), or the entity upon behalf of which the person(s)
acted, executed the instrument.
CHARLIENE L. TEPFER WITNESS my hand and official seal.
STATE OF WASHINGTON COMMISSION EXPIRES DECEMBER 5, 2007 Signature of Notary Public My Commission Expires: 12/5/07
Date: Jan 13 2004 William E. Crone William E. Crone
11 Vachuschen
State of Washington, County of Ping ss:
County of The Charles I Tester
On this 13 day of awary 2004 before me har leve L-Tenev Notary Public, personally appeared William E. Grone personally known to me (or proved to me on the
hasis of satisfactory evidence) to be the person(s) whose name is/are subscribed to the within insumment
and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity, and that by his/her/their signature on the instrument the person(s), or the entity upon behalf of which the person(s)
acted, executed the instrument.
WITNESS my hand and official seal.
NOTARY PUBLIC Charliere & Oppler
STATE OF WASHINGTON COMMISSION EXPIRES DECEMBER 5, 2007 Signature of Notary Public My Commission Expires: 2/5/07

RECORDED: 01/26/2004

RECORDED: 10/30/2012

PATENT REEL: 014922 FRAME: 0528

PATENT

REEL: 029213 FRAME: 0737