07/06/2006 10:36 FAX 18185766202 ☑ 002/012 Medtronic MiniMed Inc. U.S. DEPARTMENT OF COMMERCE Form PTO-1595 (Rev. 08/05) United States Patent and Trademark Office OMB No. 0651-0027 (exp. 6/30/2008) RECORDATION FORM COVER SHEET PATENTS ONLY P22445 US To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below. 1. Name of conveying party(ies); 2. Name and address of receiving party(ies): ANDREW C. HAYES MEDTRONIC MINIMED, INC. JOHN J. MASTROTOTARO SHELDON B. MOBERG 18000 Devonshire Street Northridge, CA 913251219 JOHN C. MUELLER, JR. H. BUD CLARK MIKE CHARLES VALLET TOLLE Additional name(s) & address(es) attached? ☐ Yes ■ No **GARY L, WILLIAMS** BIHONG WU GARRY M. STEIL Additional name(s) of conveying party(les) attached? ☐ Yes ■ No. 3. Nature of conveyance: Assignment Security Agreement ☐ Change of Name Other ___ Execution Date March 10, 27, 28 ft 30, 2006 Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: B. Patent No.(s) A. Patent Application No.(s) 11/322,489 Additional numbers attached? Yes No 5. Name and address of party to whom correspondence 6. Total number of applications and patents involved: [1] concerning document should be mailed: Ajit S. Narang, Esq. MEDTRONIC MINIMED, INC. 18000 Devonshire Street Northridge, CA 91325-1219 ☐ Enclosed ■ Authorized to be charged to deposit account 8. Deposit account number: 50-0621 (Attach copy of this page if paying by deposit account) 9. Statement and signature. To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true copy of the original document.

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> PATENT REEL: 017890 FRAME: 0554

Ajit S. Narang Name of Person Signing

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To the Director of the U.S. Patest and Trade talk Office: Please	se record the attached documents or the new a	ddress(es) below.	
Name of conveying party(ies): ANDREW C. HAYES		2. Name and address of receiving party(les): MEDTRONIC MINIMED, INC. 18000 Devonshire Street	
JOHN J. MASTROTOTARO SHELDON B. MOBERG	18000 Devonshire Street		
JOHN C. MUELLER, JR. H. BUD CLARK	Northridge, CA 91325121	19	
MIKE CHARLES VALLET TOLLE GARY L. WILLIAMS	Additional name(s) & address(es) attached? □ Yes ■ No	
BIHONG WU GARRY M. STEIL			
Additional name(s) of conveying party(ies) attached?	■ No		
Nature of conveyance:			
■ Aşşignment □ Merger			
☐ Security Agreement ☐ Change of Name			
Other		Í	
Execution Date <u>March 10, 27, 28 & 30, 2006</u>			
4. Application number(s) or patent number(s):			
If this document is being filed together with a new application	n, the execution date of the application is:		
A. Patent Application No.(5)	6. Patent No.(s)		
Additi	onal numbers attached? 🔲 Yes 🔳 No	l	
Name and address of party to whom correspondence concerning document should be mailed:		ns and patents involved: [1]	
Ajit S. Narang, Esq. MEDTRONIC MINIMED, INC.			
18000 Devonshire Street Northridge, CA 913251219			
		\$ <u>40</u>	
	☐ Enclosed ■ Authorized to be charged to	o deposit account	
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	·	his page if paying by deposit appunt)	
9. Statement and signature.	(Access copy of C	ms page in paying by deposit apposits)	
To the best of my knowledge and belief, the foregoing is true	e and correct and any attached convis a true co	ov of the original document.	
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Ajit S. Narang Name of Person Signing Ajit S. Narang Signature	//2/	SL E	
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PATENT REEL: 017890 FRAME: 0555

ASSIGNMENT

Attorney [Docket I	No.:	<u>P22445 US</u>

(1-9) Insert Name(s) of Inventor(s)

- (1) ANDREW C. HAYES
- (2) JOHN J. MASTROTOTARO
- (3) SHELDON B. MOBERG
- (4) JOHN C. MUELLER, JR.
- (5) H. BUD CLARK
- (6) MIKE CHARLES VALLET TOLLE
- (7) GARY L. WILLIAMS
- (8) BIHONG WU
- (9) GARRY M. STEIL

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

- (10) Insert name of Assignee
- (11) Insert state of Incorporation of Assignee
- (12) Insert address of Assignee
- (13) Insert identification of Invention, such as Title, Case Number or Foreign Application Number
- (14) Insert Date of Signing of Application

(10) MEDTRONIC MINIMED, INC.

(11) Delaware

(12) of _____18000 Devonshire Street, Northridge, CA 91325-1219 (hereinafter designated as the Assignee) the entire worldwide right, title and interest in the invention known as

(13) ALGORITHM SENSOR AUGMENTED BOLUS ESTIMATOR FOR SEMI-CLOSED LOOP INFUSION SYSTEM, U.S. Patent Application Serial No. 11/322,489 filed December 30, 2005

for which the undersigned has (have) executed an application for patent in the United States of America

- (14) on March 10, 27, 28 4 30, 2006
- 1) The undersigned agree(s) to execute all papers necessary in connection with an application in any country of the world and any continuing or divisional applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.
- 2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation or division thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.
- 3) The undersigned agree(s) 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.
- 4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.
- 5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not execute, any agreement in conflict herewith.

PATENT REEL: 017890 FRAME: 0556

6) The undersigned hereby appoints:

Paul H. Kovelman, Reg. No. 35,228; Richard K. Yoon, Reg. No. 42,247; Vivian S. Shin, Reg. No. 43,919; Ajit S. Narang, Reg. No. 55,480;

and all of the firm of Foley & Lardner LLP:

Ted R. Rittmaster, Reg. No. 32,933; David A. Blumenthal, Reg. No. 26,257; Richard D. Malone, Reg. No. 51,991; William J. Robinson, Reg. No. 29,430; Victor deGyarfas, Reg. No. 40,583

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: 3/28/06

Signature of Inventor

Andrew C. Hayes

State of California

County of Los Angeles

On this <u>March 28, 2006</u>, before me, <u>Christine</u>, <u>Pineiro</u>, a Notary Public, personally appeared <u>Andrew C. Haves</u>, 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 acknowledge to me that he executed the same in his authorized capacity, and that by his 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.

Notary Public

CHRISTINE PINEIRO
Commission # 1467528
Notary Public - California
Los Angeles County
My Comm. Expires Feb 26, 2008

Date: 3/27/06 Signature of Inventor

State of California

County of Los Angeles

On this 321 6. before me, Rowena A. Cruz, a Notary Public, personally appeared John J. Mastrototaro __, 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 acknowledge to me that he executed the same in his authorized capacity, and that by his 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.

ROWENA A. CRUZ Commission # 1407079 Notary Public - California Los Angeles County

Date: 3/10/04 Signature of Inventor Sheldon B. Moberg

State of California

County of Los Angeles

On this March 10, 2000, before me, Christine Pinero, a Notary Public, personally appeared Sheldon B. Moberg , 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 acknowledge to me that he executed the same in his authorized capacity, and that by his 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.

Notary Public

CHRISTINE PINEIRO Commission # 1467528 Notary Public - California Los Angeles County My Comm. Expires Feb 26, 2008 Date: 3/28/06 Signature of Inventor

John C. Mueller, Jr.

State of California

County of Los Angeles

On this Harch 28 2000, before me, Christine Pineiro, a Notary Public, personally appeared John C. Mueller, Jr., 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 acknowledge to me that he executed the same in his authorized capacity, and that by his 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.

Notary Public

CHRISTINE PINEIRO Commission # 1467528 Notary Public - California Los Angeles County My Comm. Expires Feb 26, 2008 Date: 3 21/06 Signature of Inventor H. Bud Clark

State of California

County of Los Angeles

WITNESS, my hand and official seal.

Notary Public

ROWENA A. CRUZ
Commission # 1407079
Notary Public - Castomia
Los Angeles County
My Comm. Expires Apr 10, 2007

Date: 3.28.06 Signature of Inventor _

Mike Charles Vallet Tolle

State of California

County of Los Angeles

On this March 28, 2000, before me, Christine, Pineiro, a Notary Public, personally appeared Mike Charles Vallet Tolle, 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 acknowledge to me that he executed the same in his authorized capacity, and that by his 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.

Notary Public



Date: 3/25/06 Signature of Inventor Many Z Williams

Gary L. Williams

State of California

County of Los Angeles

On this <u>Harch 28, 2000</u>, before me, <u>Christine Pinero</u>, a Notary Public, personally appeared <u>Gary L. Williams</u>; 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 acknowledge to me that he executed the same in his authorized capacity, and that by his 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.

Notary Public



Date: Signature of Inventor
Bihong Wu
State of California
County of Los Angeles
On this March 30, 2005, before me, Christine, Pinero, a Notary Public, personally appeared Bihong Wu, 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 acknowledge to me that she executed the same in her authorized capacity, and that by 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. CHRISTINE PINEIRO Commission # 1467528 Notary Public - Collifornia
Los Angeles County My Comm. Expires Feb 26, 2008
Notary Public
Date: Krd 23/06 Signature of Inventor C. S. Garry M. Stell
State of California
County of Los Angeles
On this, before me,
in his authorized capacity, and that by his 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. ROWENA A. CRUZ Commission # 1407079 Notary Public - California Z

Los Angeles County
My Comm. Expires Apr 10, 2007

mum a. my Notary Public

ACCEPTANCE:

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

SIGNED AND SEALED this 30th day of March , 2006.

ASSIGNEE:

MEDTRONIC MINIMED, INC.,

a Delaware Corporation

Ву:

Name: Eric P. Geismar

Title:

Vice President and Senior Counsel

State of California

County of Los Angeles

On this <u>March 30, 2000</u>, before me, <u>Christine</u> fine for the basis of satisfactory personally appeared <u>Eric P. Geismar</u>, 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 acknowledge to me that he executed the same in his authorized capacity, and that by his 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.

Notary Public

RECORDED: 04/10/2006



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PATENT REEL: 017890 FRAME: 0563