Form PTO-1595 RECORD/ (27) - (Rev. 10/02)	20 - 2004 U.S. DEPARTMENT OF COMMER U.S. Patent and Trademark Offi
OMB No. 0651-0027 (exp. 6/30/2005)	U.S. Patent and Tragemark On
	2725384
To the Honorable Commissioner of Patents and Trademarks:	Please Record the attached original documents or copy thereof.
1. Name of conveying party(ies):	2. Name and address of receiving party(ies)
Mark G. Frei Naresh C. Bhavaraju	Name: Medtronic, Inc.
Thomas E. Peters	Internal Address:
Randy M. Jensen	i 2
Additional name of conveying party(ies) attached? Yes No	
3. Nature of conveyance:	Street Address: 710 Medtronic Parkway
🛛 Assignment 🗌 Merger	
Security Agreement Change of Name	City: <u>Minneapolis</u> State: <u>MN</u> Zip: <u>55432</u>
Other	Additional Name(s) & address(es) attached? Yes X No
Execution Date: <u>03/01/04; 03/01/04; 03/01/04; 03/01/04;</u> <u>02/17/04</u>	
4. Application number(s) or patent number(s):	
A. Patent Application No.(s) 10/687,135	B. Patent No.(s)
Additional numbers at	ached? 🗌 Yes 🛛 No
Name and address of party to whom correspondence concerning this document should be mailed:	6. Total number of applications and patents involved:
Name: Binal J. Patel	7. Total fee (37 CFR 3.41) \$ <u>40.00</u>
Internal Address: Banner & Witcoff, Ltd.	
Internal Address: Banner & Witcoff, Ltd.	
Internal Address: <u>Banner & Witcoff. Ltd.</u>	 Enclosed Authorized to be charged to deposit account
Street Address: 10 South Wacker Drive	Authorized to be charged to deposit account
Street Address: <u>10 South Wacker Drive</u> Suite 3000	 Authorized to be charged to deposit account 8. Deposit account number: 19-0733
Street Address: <u>10 South Wacker Drive</u> 	 Authorized to be charged to deposit account 8. Deposit account number: 19-0733 (Attach duplicate copy of this page if paying by deposit account)
Street Address: <u>10 South Wacker Drive</u> 	 Authorized to be charged to deposit account 8. Deposit account number: 19-0733
Street Address: <u>10 South Wacker Drive</u> 	 Authorized to be charged to deposit account 8. Deposit account number: 19-0733 (Attach duplicate copy of this page if paying by deposit account
Street Address: <u>10 South Wacker Drive</u> <u>Suite 3000</u> City: Chicago State: IL Zip: 60606 DO NOT USI 9. Statement and signature. <i>To the best of my knowledge and belief, the foregoing,inform</i>	Authorized to be charged to deposit account 8. Deposit account number: 19-0733 (Attach duplicate copy of this page if paying by deposit accourt E THIS SPACE
Street Address: <u>10 South Wacker Drive</u> <u>Suite 3000</u> City: Chicago State: IL Zip: 60606 DO NOT USI 9. Statement and signature. To the best of my knowledge and belief, the foregoing inform is a true copy of the original document. Binal J. Patel	Authorized to be charged to deposit account 8. Deposit account number: 19-0733 (Attach duplicate copy of this page if paying by deposit accourt E THIS SPACE
Street Address: <u>10 South Wacker Drive</u> <u>Suite 3000</u> City: Chicago State: IL Zip: 60606 DO NOT USI 9. Statement and signature. To the best of my knowledge and belief, the foregoing infom is a true copy of the original document.	Authorized to be charged to deposit account Authorized to be charged to deposit account Authorized to be charged to deposit account (Attach duplicate copy of this page if paying by deposit account THIS SPACE mation is true and correct and any attached copy TUE Authorized to be charged to deposit account
Street Address: 10 South Wacker Drive Suite 3000 State: City: Chicago State: IL Zip: 60606 DO NOT USI 9. Statement and signature. To the best of my knowledge and belief, the foregoing infom is a true copy of the original document. Binal J. Patel Name of Person Signing Total number of pages including	Authorized to be charged to deposit account Authorized to deposit account
Street Address: <u>10 South Wacker Drive</u> <u>Suite 3000</u> City: Chicago State: IL Zip: 60606 DO NOT USI 9. Statement and signature. To the best of my knowledge and belief, the foregoing infom is a true copy of the original document. Binal J. Patel Name of Person Signing Total number of pages including Mail Stop Assignment, Recordation Services, I PO Box 1450, Alexa	Authorized to be charged to deposit account Authorized to be charged to deposit account Authorized to be charged to deposit account (Attach duplicate copy of this page if paying by deposit account THIS SPACE THIS SPACE Mathematical and correct and any attached copy April 15, 2004 Signature Date
Street Address: <u>10 South Wacker Drive</u> <u>Suite 3000</u> City: Chicago State: IL Zip: 60606 DO NOT USI 9. Statement and signature. To the best of my knowledge and belief, the foregoing infom is a true copy of the original document. Binal J. Patel Name of Person Signing Total number of pages including Mail Stop Assignment, Recordation Services, I	Authorized to be charged to deposit account Authorized

PAIENI REEL: 015219 FRAME: 0449

ASSIGNMENT

Inventors: Ivan Osorio Mark G. Frei Naresh C. Bhavaraju Thomas E. Peters Randy M. Jensen

Application Nos. US Non-provisional - 10/687,135 PCT/US03/33000 US Provisional - 60/503,817 US Provisional - 60/418,623 Date of Execution of Application:

Filing Date: October 15, 2003 Filing Date: October 15, 2003 Filing Date: September 19, 2003 Filing Date: October 15, 2002

In consideration of One Dollar (\$1.00) and other good and valuable considerations in hand paid, the receipt and sufficiency whereof are hereby acknowledged, the undersigned hereby assign to:

MEDTRONIC, INC., a corporation of the State of Minnesota

its successors and assigns, the entire right, title and interest in the invention or improvements of the undersigned disclosed in an application for Letters Patent of the United States, entitled:

CONFIGURING AND TESTING TREATMENT THERAPY PARAMETERS FOR A MEDICAL DEVICE SYSTEM

and identified as:

Attorney Docket No. 11738.00133

in the offices of Banner & Witcoff, Ltd. and in said application and any and all other applications, both United States and foreign, which the undersigned may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications, and in any reissue or extension of such patents, and further assigns to said assignee the priority right provided by the International Convention.

The undersigned hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.

The undersigned hereby authorize and request the attorneys of record in said application to insert in this assignment the filing date and serial number of said application when officially known, and the date of execution of the application.

The undersigned warrant themselves to be the owners of the entire right, title and interest in said invention or improvements and to have the right to make this assignment, and further warrant that there are no outstanding prior assignments, licenses, or other encumbrances on the interest herein assigned.

For said considerations the undersigned hereby agree, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all divisional, continuation and substitute applications for said invention or improvements, and any necessary oath, affidavit or declaration relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application and any and all applications and other documents for Letters Patent in foreign countries on said invention or improvements, that said assignee, its successors or assigns may deem necessary or expedient, and for the said considerations the undersigned authorize said assignee to apply for patents for said invention or improvements in its own name in such countries where such procedure is proper and further agree, upon the request of said assignees, its successors and assigns, to cooperate to

PATENT REEL: 015219 FRAME: 0450

Client Ref. P-10947.00

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Attorney Docket No. 11738.00133

, 2004	·
Date	Naresh C. Bhavaraju
State of Kansas)	
) ss:	
County of)	
This day of 2004 Bhavaraju, came to me personally know as the acknowledged to me that he executed the same of his	b, before me personally came the above-named, Naresh C. e individual who executed the foregoing assignment, who s own free will for the purposes herein set forth.
	Notary Public
	My Commission Expires:
. 2004	
Date	Thomas P. Peters
State of Kansas)	
) ss: County of)	
This day of 2004, be came to me personally know as the individual who that he executed the same of his own free will for the	efore me personally came the above-named, Thomas P. Peters, executed the foregoing assignment, who acknowledged to me purposes herein set forth.
	Notary Public
	My Commission Expires:
	al 1 mal -
2004	Kandy/11 (Juse
Date	Randy M. Jensen
State of Minnesota)	
County of Anoka) ss:	
This \square day of $FEOMOMp004$, be came to me personally know as the individual who that he executed the same of his own free will for the	efore me personally came the above-named, Randy M. Jensen, executed the foregoing assignment, who acknowledged to me purposes herein set forth.
TANMY KAYE WATEFIMAN	Janutaye Waternan Robary Public My Commission Expires: 1-3205 -3-

PATENT REEL: 015219 FRAME: 0451

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EXHIBIT 11.2

ASSIGNMENT

This Agreement is by and between Flint Hills Scientific, L.L.C., a for-profit limited liability company, with offices at 5020 West 15th Street, Suite A, Lawrence, Kansas, 66049 (hereinafter "FHS"), and Ivan Osorio, Mark G. Frei, Naresh C. Bhavaraju, Thomas E. Peters ("Inventors") (FHS and the Inventors collectively constituting the "Assignors"), and 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, Minneapolis, Minnesota 55432-5604 ("Medtronic").

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Assignors hereby sell and assign to Medtronic, its successors and assigns, any and all right title and interest the Assignors may have in and to the patent applications identified in the attached Schedule 11.2 and any invention described or claimed in such patent applications, and any non-provisional, foreign or international patent applications claiming priority to the applications set forth in Schedule 11.2, including any continuation, divisional, continuation-in-part, or reissue applications, or any patent applications or patents claiming any of the inventions set forth in the claims or specifications of the applications in Schedule 11.2, and any patents issuing from any of the above patent applications, the same to be held and enjoyed by Medtronic for its own use and benefit and use and benefit of its successors and assigns to the full end of the term for which the patent may be granted, as fully and entirely as the same would have been held and enjoyed by Assignors had this assignment and sale not been made, including without limitation the right to enforce the patent and collect damages for past or future infringement.

And, for the consideration aforesaid, Assignors represent and warrant to Medtronic, its successors and assigns, that at the time of the execution and delivery of these presents, Assignors are the lawful owners of our full interests as inventors of the inventions, applications and patents mentioned above.

For the consideration aforesaid, the Assignors hereby individually covenant and agree to and with Medtronic, its successors and assigns, that whenever Medtronic's 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 or extension is lawful and desirable, we, or our executors, administrators or assigns will render assistance as Medtronic may require to perfect assignments, and to publish, patent or protect such in any Patent Office or in litigation.

We hereby request the Honorable Commissioner of Patents and Trademarks to issue any and all patents assigned herein to Medtronic in accordance with this instrument.

ACCORDINGLY, each of the parties has caused this Agreement to be executed, in the manner appropriate for each, as of the date indicated.

Address:

Mark G. Frei 2513 Via Linda Drive Lawrence, Kansas 66047 Flint Hills Scientific, L.L.C. Mark G. Frei, Ph.D.

Mark G. Frei Individually and as Manager of Flint Hills Scientific, L.L.C.

STATE OF KANSAS

SS. COUNTY OF Douglas St day of

, 2004, before me personally appeared Mark G. Frei, to On this me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his free act and deed.

IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.

NOTARY PUBLIC - State of Xansas PATTY L. HUN My Addt. Exd.

SS.

Juntyinger otary Public

Address:

Ivan Osorio 4005 W. 124th Street Leawood, Kansas 66209

Ivan Osorio, M.I.

STATE OF KANSAS

COUNTY OF

On this 18F day of March, 2004, before me personally appeared Ivan Osorio, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his free act and deed.

IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.

CHERYL L. Notary Public, Stat My Appt. Expires

Charly & Barns

PATENT REEL: 015219 FRAME: 0453 Address:

Naresh C. Bhavaraju 6909 W. 51st Place, Apt. 3B Mission, Kansas 66202

Naresh C. Bhavaraju, Ph.D.

STATE OF KANSAS

onglas SS. COUNTY OF

On this ______ day of ______, 2004, before me personally appeared Naresh C. Bhavaraju, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his free act and deed.

IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.

ARY PUBLIC - State of Kansas Appt. Exo

unternger

Address:

Thomas E. Peters 1300 Rhode Island Street Lawrence, Kansas 66044

Thomas E. Peters

STATE OF KANSAS

ouglas ss. COUNTY OF

On this <u>f</u> day of <u>f</u>

IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.

NOTARY PURK - State of Kansas Annt Exe

Clanger Notary Public

Schedule 11.2 Attachment to Exhibit 11.2 that replaces Exhibit 11.1 of the Second Addendum to the License and Development Agreement

Patent Applications

DOCKET NO.	APP. NO.	FILED	INVENTORS	TITY, K,
P-10933.00 US	60/418,580	October 15, 2002	Mark G. Frei	Signal Quality Monitoring and
			Ivan Osorio	Control for a Medical Device
				System
P-10933.00 US	10/687,348	October 15, 2003	Mark G. Frei	Signal Quality Monitoring and
			Ivan Osorio	Control for a Medical Device
				System
P-10933.01 US	60/503,803	September 19, 2003	Mark G. Frei	Signal Quality Monitoring and
			Ivan Osorio	Control for a Medical Device
				System
P-10933.02 WO	PCT/US03/33002	October 15, 2003	Mark G. Frei	Signal Quality Monitoring and
			Ivan Osorio	Control for a Medical Device
				System
P-10933.03 US	10/687,557	October 15, 2003	Mark G. Frei	Signal Quality Monitoring and
			Ivan Osorio	Control for a Medical Device
			Jonathan C. Werder	System
			David L. Carlson	•
P-10933.04 WO	PCT/US03/32938	October 15, 2003	Mark G. Frei	Signal Quality Monitoring and
			Ivan Osorio	Control for a Medical Device
			Jonathan C. Werder	System
			David L. Carlson	
P-10935.00 US	60/418,553	October 15, 2002	Ivan Osorio	Multi-Modal Operation of a
			Mark G. Frei	Medical Device System
			Mark T. Rise	,
			Scott F. Schaffner	
			Nina M. Graves	

DOCKET NO.	APP. NO.	FILED	INVENTORS	TITLE
P-10935.00 US	10/687,289	October 15, 2003	Ivan Osorio	Multi-Modal Operation of a
			Mark G. Frei Mark T. Pice	Medical Device System
			Scott F. Schaffner	
			Nina M. Graves	
P-10935.01 US	60/503,998	September 19, 2003	Ivan Osorio	Multi-Modal Operation of a
			Mark G. Frei	Medical Device System
			Mark T. Rise	
			Scott F. Schaffner	
			Nina M. Graves	
P-10935.02 WO	PCT/US03/32997	October 15, 2003	Ivan Osorio	Multi-Modal Operation of a
			Mark G. Frei	Medical Device System
			Mark T. Rise	
			Scott F. Schaffner	
			Nina M. Graves	
P-10936.00 US	60/418,383	October 15, 2002	Mark G. Frei	Channel-Selective Blanking for
			Ivan Osorio	a Medical Device System
			Mark T. Rise	
			Jonathon E. Giftakis	
			Nina M. Graves	
P-10936.00 US	10/687,133	October 15, 2003	Mark G. Frei	Channel-Selective Blanking for
			Ivan Osorio	a Medical Device System
			Mark T. Rise	
			Jonathon E. Giftakis	
			Nina M. Graves	
P-10936.01 US	60/504,141	September 19, 2003	Mark G. Frei	Channel-Selective Blanking for
			Ivan Osorio	a Medical Device System
			Mark T. Rise	
			Jonathon E. Giftakis	
			Nina M. Graves	

P-10936.02 WO			INVENTORS	TITLE
	PCT/US03/32908	October 15, 2003	Mark G. Frei	Channel-Selective Blanking for
			Ivan Osorio	a Medical Device System
			Mark T. Rise	•
			Jonathon E. Giftakis	
			Nina M. Graves	
P-10947.00 US 6(60/418,623	October 15, 2002	Ivan Osorio	Configuring and Testing
			Mark G. Frei	Treatment Therapy Parameters
			Naresh C. Bhavaraju	for a Medical Device System
	•		Thomas E. Peters	•
			Randy M. Jensen	
P-10947.00 US 1(10/687,135	October 15, 2003	Ivan Osorio	Configuring and Testing
			Mark G. Frei	Treatment Therapy Parameters
			Naresh C. Bhavaraju	for a Medical Device System
			Thomas E. Peters	
			Randy M. Jensen	
P-10947.01 US	60/503,817	September 19, 2003	Ivan Osorio	Configuring and Testing
			Mark G. Frei	Treatment Therapy Parameters
			Naresh C. Bhavaraju	for a Medical Device System
			Thomas E. Peters	
			Randy M. Jensen	
P-10947.02 WO P(PCT/US03/33000	October 15, 2003	Ivan Osorio	Configuring and Testing
			Mark G. Frei	Treatment Therapy Parameters
			Naresh C. Bhavaraju	for a Medical Device System
			Thomas E. Peters	
			Randy M. Jensen	

P-10948.00 US 60/418,476	76	October 15, 2002	•	
		•	Ivan Osorio	Screening Techniques for
			Mark G. Frei	Management of a Nervous
			Naresh C. Bhavaraju	System Disorder
			Thomas E. Peters	
			Nina M. Graves	
			Scott F. Schaffner	
			Jonathon E. Giftakis	
			Mark T. Rise	
			Jonathan C. Werder	
P-10948.00 US 10/687,344	44	October 15, 2003	Ivan Osorio	Screening Techniques for
			Mark G. Frei	Management of a Nervous
			Naresh C. Bhavaraju	System Disorder
			Thomas E. Peters	
			Nina M. Graves	
			Scott F. Schaffner	
			Jonathon E. Giftakis	
			Mark T. Rise	
			Jonathan C. Werder	
P-10948.01 US 60/503,963	63	September 19, 2003	Ivan Osorio	Screening Techniques for
			Mark G. Frei	Management of a Nervous
			Naresh C. Bhavaraju	System Disorder
			Thomas E. Peters	
			Nina M. Graves	
			Scott F. Schaffner	
			Jonathon E. Giftakis	
			Mark T. Rise	
			Jonathan C. Werder	

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DOCKET NO.	APP. NO.	FILED	INVENTORS	TITLE
P-10948.02 WO	PCT/US03/32906	October 15, 2003	Ivan Osorio	Screening Techniques for
			Mark G. Frei	Management of a Nervous
			Naresh C. Bhavaraiu	System Disorder
-			Thomas E. Peters	
			Nina M. Graves	
			Scott F. Schaffner	
			Jonathon E. Giftakis	
			Mark T. Rise	
			Jonathan C. Werder	
P-10949.00 US	60/418,496	October 15, 2002	Mark G. Frei	Clustering of Recorded Patient
			Ivan Osorio	Neurological Activity to
			Nina M. Graves	Determine Length of a
			Scott F. Schaffner	Neurological Event
			Mark T. Rise)
			Jonathon E. Giftakis	
			David L. Carlson	
P-10949.00 US	10/687,571	October 15, 2003	Mark G. Frei	Clustering of Recorded Patient
			Ivan Osorio	Neurological Activity to
			Nina M. Graves	Determine Length of a
			Scott F. Schaffner	Neurological Event
			Mark T. Rise	
			Jonathon E. Giftakis	
			David L. Carlson	
P-10949.01 US	60/503,794	September 19, 2003	Mark G. Frei	Clustering of Recorded Patient
			Ivan Osorio	Neurological Activity to
			Nina M. Graves	Determine Length of a
			Scott F. Schaffner	Neurological Event
			Mark T. Rise	
			Jonathon E. Giftakis	
			David L. Carlson	

DOCKET NO.	APP. NO.	FILED	INVENTORS	TITLE
P-10949.02 WO	PCT/US03/32940	October 15, 2003	Mark G. Frei	Clustering of Recorded Patient
			Ivan Osorio	Neurological Activity to
			Nina M. Graves	Determine Length of a
-			Scott F. Schaffner	Neurological Event
			Mark T. Rise	•
_			Jonathon E. Giftakis	-
			David L. Carlson	
P-10950.00 US	60/418,446	October 15, 2002	Ivan Osorio	Synchronization and
			Naresh C. Bhavaraju	Calibration Clocks for a
			Thomas E. Peters	Medical Device and Calibrated
			Mark G. Frei	Clock
			Jonathan C. Werder	
P-10950.00 US	10/687,566	October 15, 2003	Ivan Osorio	Synchronization and
			Naresh C. Bhavaraju	Calibration Clocks for a
			Thomas E. Peters	Medical Device and Calibrated
			Mark G. Frei	Clock
			Jonathan C. Werder	b
P-10950.01 US	60/503,795	September 19, 2003	Ivan Osorio	Synchronization and
			Naresh C. Bhavaraju	Calibration Clocks for a
			Thomas E. Peters	Medical Device and Calibrated
			Mark G. Frei	Clock
			Jonathan C. Werder	
P-10950.02 WO	PCT/US03/32941	October 15, 2003	Ivan Osorio	Synchronization and
			Naresh C. Bhavaraju	Calibration Clocks for a
			Thomas E. Peters	Medical Device and Calibrated
			Mark G. Frei	Clock
			Jonathan C. Werder	
P-10951.00 US	60/418,638	October 15, 2002	Ivan Osorio	Control of Treatment Therapy
			Mark G. Frei	During Start-up and During
			David L. Carlson	Operation of a Medical Device
				System

DOCKET NO.	APP. NO.	FILED	INVENTORS	TTTLE
P-10951.00 US	10/687,290	October 15, 2003	Ivan Osorio	Control of Treatment Therapy
			Mark G. Frei	During Start-up and During
			David L. Carlson	Operation of a Medical Device
				System
P-10951.01 US	60/503,793	September 19, 2003	Ivan Osorio	Control of Treatment Therapy
			Mark G. Frei	During Start-up and During
			David L. Carlson	Operation of a Medical Device
				System
P-10951.02 WO	PCT/US03/32868	October 15, 2003	Ivan Osorio	Control of Treatment Therapy
			Mark G. Frei	During Start-up and During
			David L. Carlson	Operation of a Medical Device
				System
P-10952.00 US	60/418,666	October 15, 2002	Mark G. Frei	Timed Delay for Redelivery of
			Ivan Osorio	Treatment Therapy for a
			Naresh C. Bhavaraju	Medical Device System
			David L. Carlson	
			Jonathon E. Giftakis	
			Nina M. Graves	
P-10952.00 US	10/687,567	October 15, 2003	Mark G. Frei	Timed Delay for Redelivery of
			Ivan Osorio	Treatment Therapy for a
			Naresh C. Bhavaraju	Medical Device System
			David L. Carlson	
			Jonathon E. Giftakis	
			Nina M. Graves	
P-10952.01 US	60/504,000	September 19, 2003	Mark G. Frei	Timed Delay for Redelivery of
			Ivan Osorio	Treatment Therapy for a
			Naresh C. Bhavaraju	Medical Device System
			David L. Carlson	,
			Jonathon E. Giftakis	
			Nina M. Graves	

DOCKET NO.	APP. NO.	FILED	INVENTORS	TITLE
P-10952.02 WO	PCT/US03/32909	October 15, 2003	Mark G. Frei	Timed Delay for Redelivery of
			Ivan Osorio	Treatment Therapy for a
			Naresh C. Bhavaraju	Medical Device System
			David L. Carlson	
			Jonathon E. Giftakis	
			Nina M. Graves	
P-10953.00 US	60/418,628	October 15, 2002	Mark T. Rise	Medical Device System With
			Adrianus P. Donders	Relaying Module for
			Scott F. Schaffner	Treatment of Nervous System
				Disorders
P-10953.00 US	10/687,306	October 15, 2003	Mark T. Rise	Medical Device System With
			Adrianus P. Donders	Relaying Module for
			Scott F. Schaffner	Treatment of Nervous System
				Disorders
P-10953.01 US	60/503,792	September 19, 2003	Mark T. Rise	Medical Device System With
			Adrianus P. Donders	Relaying Module for
			Scott F. Schaffner	Treatment of Nervous System
				Disorders
P-10953.02 WO	PCT/US03/32867	October 15, 2003	Mark T. Rise	Medical Device System With
			Adrianus P. Donders	Relaying Module for
			Scott F. Schaffner	Treatment of Nervous System
				Disorders
P-10954.00 US	60/418,609	October 15, 2002	Ivan Osorio	Cycle Mode Providing
			Naresh C. Bhavaraju	Redundant Back-up to Ensure
			David L. Carlson	Termination of Treatment
			Randy M. Jensen	Therapy in a Medical Device
				System
P-10954.00 US	10/688,214	October 15, 2003	Ivan Osorio	Cycle Mode Providing
			Naresh C. Bhavaraju	Redundant Back-up to Ensure
			David L. Carlson	Termination of Treatment
			kandy M. Jensen	Therapy in a Medical Device
				System

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P-10954.01 US 60/504,447 Septemb P-10954.02 WO PCT/US03/32572 October P-10954.02 WO PCT/US03/32572 October P-11107.00 US 60/418,527 October P-11107.00 US 60/418,527 October P-11107.00 US 60/418,527 October P-11107.00 US 60/418,527 October P-11107.00 US 60/503,985 Septemb	September 19, 2003		IIILE
 PCT/US03/32572 60/418,527 10/687,570 60/503,985 		Ivan Osorio	Cycle Mode Providing
 PCT/US03/32572 60/418,527 10/687,570 60/503,985 		Naresh C. Bhavaraju	Redundant Back-up to Ensure
 PCT/US03/32572 60/418,527 10/687,570 60/503,985 		David L. Carlson	Termination of Treatment
 PCT/US03/32572 60/418,527 10/687,570 60/503,985 		Randy M. Jensen	Therapy in a Medical Device
 PCT/US03/32572 60/418,527 10/687,570 60/503,985 			System
60/418,527 10/687,570 60/503,985	October 15, 2003	Ivan Osorio	Cycle Mode Providing
60/418,527 10/687,570 60/503,985		Naresh C. Bhavaraju	Redundant Back-up to Ensure
60/418,527 10/687,570 60/503,985		David L. Carlson	Termination of Treatment
60/418,527 10/687,570 60/503,985		Randy M. Jensen	Therapy in a Medical Device
60/418,527 10/687,570 60/503,985			System
10/687,570 60/503,985	October 15, 2002	Mark G. Frei	Phase Shifting of Neurological
10/687,570 60/503,985		Jonathan C. Werder	Signals in a Medical Device
10/687,570 60/503,985		David L. Carlson	System
60/503,985	October 15, 2003	Mark G. Frei	Phase Shifting of Neurological
60/503,985		Jonathan C. Werder	Signals in a Medical Device
60/503,985		David L. Carlson	System
	September 19, 2003	Mark G. Frei	Phase Shifting of Neurological
		Jonathan C. Werder	Signals in a Medical Device
		David L. Carlson	System
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		Jonathan C. Werder	Signals in a Medical Device
		David L. Carlson	System

	AFF. NU.	FILED	INVENTORS	TITLE
P-11108.00 US	60/418,372	October 15, 2002	Mark T. Rise	Programmer Software
			Nina M. Graves	Requirement Specification
		-	Jonathon E. Giftakis	1
			Jonathan C. Werder	
			David L. Carlson	
			Randy M. Jensen	
			Scott F. Schaffner	
			Naresh C. Bhavaraju	
			Mark G. Frei	
			Ivan Osorio	
			Thomas E. Peters	
P-11109.00 US	60/418,506	October 15, 2002	Ivan Osorio	Scoring of Sensed
			Mark G. Frei	Neurological Signals for Use
			Nina M. Graves	With a Medical Device System
			Jonathon E. Giftakis	
P-11109.00 US	10/687,389	October 15, 2003	Ivan Osorio	Scoring of Sensed
			Mark G. Frei	Neurological Signals for Use
			Nina M. Graves	With a Medical Device System
			Jonathon E. Giftakis	
P-11109.01 US	60/503,999	September 19, 2003	Ivan Osorio	Scoring of Sensed
			Mark G. Frei	Neurological Signals for Use
			Nina M. Graves	With a Medical Device System
			Jonathon E. Giftakis	
P-11109.02 WO	PCT/US03/32944	October 15, 2003	Ivan Osorio	Scoring of Sensed
			Mark G. Frei	Neurological Signals for Use
			Nina M. Graves	With a Medical Device System
			Jonathon E. Giftakis	

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