FORM PTO-1584 1-31-92

03-29-1999 100998478

WER SHEET

lease record the attached original documents or copy thereof.

Name and address of receiving party(ies):

MEDTRONIC, INC

U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

To the Honorable Commission

1. Name of conveying party(ies): James H. Ericksen

Carl A. Schu Vincent E. Splett

	Paul J. Huelskamp	Internal Address: M.S. 301
	Additional name(s) of conveying party(ies) attached? []Yes [X]No	#C = 0
3.	Nature of conveyance:	Street Address: 7000 CENTRAL AVENUE NORTH
	[X] Assignment [] Merger	City: MINNEAPOLIS State: MN Zip: 55432
	[] Security Agreement [] Change of Name	
	[] Other	
	Execution Date: James H. Ericksen March 16, 1999 Carl A. Schu March 16, 1999 Vincent E. Splett March 16, 1999 Paul J. Huelskamp March 17, 1999	Additional name(s) & address(es) attached? []Yes [X]No
4.	Application number(s) or patent number(s):	09/271,123
	If this document is being filed together with a new application, the ex	xecution date of the application is:
A.	Patent Application No.(s) Additional numbers attached? []Yes [x]No	
5.	Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1
	Name: Reed A. Duthler	7. Total fee (37 CFR 3.41):\$40.00
	Address: MEDTRONIC, INC. 7000 Central Avenue N.E. M.S. 301	[] Enclosed [X] Authorized to be charged to deposit account
	Minneapolis, Minnesota 55432	8. Deposit Account Number: 13-2546 (Attach duplicate copy of this page)
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9.	Statement and signature. To the best of my knowledge and belief, the foregoing information of the best of my knowledge and belief.	ation is true and correct and any attached copy is a true copy of the original

document.

Reed A. Duthler

Name of Person Signing

Total number of pages including cover sheet, attachments and document: OMB No. 0651-0011 (exp. 4/94)

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> **PATENT REEL: 9837 FRAME: 0527**

ASSIGNMENT

WHEREAS, WE, <u>James H. Ericksen</u>, Carl A. Schu, Vincent E. Splett and Paul J. <u>Huelskamp</u>, are the inventors of <u>ERROR CODE CALCULATIONS FOR DATA STORED IN AN IMPLANTABLE MEDICAL DEVICE</u> for which we have executed an application for filing in the United States Patent and Trademark Office preparatory to obtaining Letters Patent of the United States on <u>even date herewith</u>; therefor; and

WHEREAS, <u>MEDTRONIC</u>, INC. a corporation organized and existing under the laws of the <u>State of Minnesota</u> and having a principal place of business at <u>7000 Central Avenue N.E.</u>, <u>Minneapolis</u>, <u>Minnesota 55432</u> hereinafter referred to as "Corporation," is desirous of acquiring the entire right, title and interest in and to said invention for the United States and for all foreign countries and in and to any and all foreign and domestic Letters Patent which may be granted therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I have sold, assigned, transferred and set over and by these presents do sell, assign, transfer and set over unto Corporation, its successors and assigns, the entire right, title and interest in and to said invention and the entire right, title and interest in and to any and all Letters Patent of the United States and any foreign countries which may be granted therefor including my rights under the International Convention for the Protection of Industrial Property, and in and to any and all extensions, divisions, continuations, continuations-in-part or reissues of said Letters Patent that may be granted, the same to be held and enjoyed by Corporation for its own use and behoof and use and behoof of its successors and assigns to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me had this assignment and sale not been made;

AND, for the consideration aforesaid, I materially represent to Corporation, its successors and assigns, that at the time of the execution and delivery of these presents, I am the sole lawful owners of the entire right, title and interest in and to the invention, application and Letters Patent above mentioned, and that the same are unencumbered, and that I have good right and lawful authority to sell and convey the same in the manner herein set forth;

AND, for the consideration aforesaid, I hereby individually covenant and agree to and with Corporation, its successors and assigns, that whenever its 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 of extension of said Letters Patent is lawful and desirable, I, or my executors, administrators or assigns will sign all papers and drawings, take all rightful oaths, and do all acts necessary or required to be done for the procurement of valid Letters Patent for said invention, or for the reissue or extension of the same, without charge to Corporation, its successors or assigns, but at Corporation's expense.

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PATENT REEL: 9837 FRAME: 0528

Patent to Corporation in accordance with this instrument.
IN WITNESS WHEREOF, I have hereunto set my hand on this 16 day of March , 1999.
Jany H. Ericksen
STATE OF MINNESOTA
SS.
On this 16 day of Missal , 199, before me personally appeared James
On this day of, 19_99, before me personally appeared James H. Ericksen, 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.
Notary Public
FRAYDA M. NITSCHKE E NOTARY PUBLIC • MINNESOTA My Comm. Expires Jan. 31, 2009
FRAYDA M. NITSCHKE E NOTARY PUBLIC • MINNESOTA

I hereby request the Honorable Commissioner of Patents and Trad Patent to Corporation in accordance with this instrument.	emarks to issue the Letters
IN WITNESS WHEREOF, I have hereunto set my hand on the March, 1999.	nis 16 day of
Carl A. Schu	Selu-
STATE OF MINNESOTA	
SS.	
COUNTY OF ANOKA	
On this 16 th day of March, 1999, before me	
On this / day of // 1999, before me	personally appeared Carl A.
Schu, to me known to be the person described in and who executed th	e 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 day and year above written.	with the seal of my office, the
Notary Public	Maho
V.1.1.1.1	*****
	FRAYDA M. NITSCHKE
	NOTARY PUBLIC • MINNESOTA
	My Comm. Expires Jan. 31, 2000
Xmm	Zymmyramyzmyz

I hereby request the Honorable Commissioner of Patents and Trademarks to issue the Letters Patent to Corporation in accordance with this instrument.
IN WITNESS WHEREOF, I have hereunto set my hand on this day of, 1999.
Vincent E. Splett
STATE OF MINNESOTA
SS.
COUNTY OF ANOKA
On this 16 th day of 1999, before me personally appeared Vincent E. Splett, 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.
Notary Public

Patent to Corporation in accordance with this instrument.	
IN WITNESS WHEREOF, I have hereunto s, 19 <u>99</u> .	Paul J. Huerskamp
STATE OF MINNESOTA	
On this day of the person described in acknowledged that he executed the same as his free act ar	, 19 <u>99</u> , before me personally appeared Paul J. and who executed the foregoing instrument and nd deed.
day and year above written.	my official signature with the seal of my office, the

FRAYDA M. NITSCHKE NOTARY FULLIC • MINNESOTA My Comia, in, fras I in 31, 2000

RECORDED: 03/18/1999