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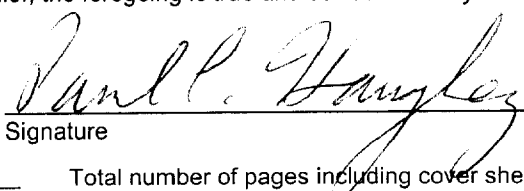
12-29-1999

No. 009103-014510US



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Department of Commerce
Patent and Trademark Office

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| FORM PTO-1595 (Rev. 6-93) | | 1 original documents or copy thereof | |
| To the Honorable Asst. Commissioner for Patents | | Name and address of receiving party(ies) | |
| 1. Name of conveying party(ies): Michael J. Bernstein; Michael J. Fein; William L. Shea; Willem A. Crone; Paul D. Mannheimer; Bradford Chew; and Adnan I. Merchant Additional name(s) of conveying parties attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No. | | Name: Mallinckrodt Inc. Internal Address: n/a Street Address: 675 McDonnell Boulevard City: Hazelwood State: MO ZIP: 63042 Additional names and addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | |
| 3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other: Execution Date: December 13, 1999 & December 14, 1999 | | | |
| 4. Application Number(s) or Patent Numbers. If this document is being filed together with a new application, the execution date of the application is: n/a A. Patent Application No(s): 09/407,469 B. Patent No(s): n/a Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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: Paul C. Haughey, Esq. TOWNSEND AND TOWNSEND AND CREW LLP Two Embarcadero Center, 8 th Floor San Francisco, California 94111-3834 (415) 576-0200 | | 7. Total fee (37 CFR 3.41): \$40.00 <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Charge Fees to Deposit Account <input checked="" type="checkbox"/> Charge any additional fees associated with this paper or during the pendency of this application, or credit any overpayment, to deposit account. | |
| | | 8. Deposit account number: 20-1430 | |
| DO NOT USE THIS SPACE | | | |
| 9. Statement and signature. <i>To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true of copy of the original document.</i> <div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="width: 30%;"> <p>Paul C. Haughey Name of Person Signing</p> <p>Atty Reg. No. 31,836</p> </div> <div style="width: 30%; text-align: center;">  <p>Signature</p> </div> <div style="width: 30%; text-align: right;"> <p>December 17, 1999 Date</p> </div> </div> <p style="text-align: right;">Total number of pages including cover sheet, attachments and document 11</p> | | | |
| 10. Change Correspondence Address to that of Part 5? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| OMB No. 0651-0011 (exp. 4/94) | | | |

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PATENT
REEL: 010464 FRAME: 0783

ASSIGNMENT OF PATENT APPLICATION

JOINT

WHEREAS, Michael J. Bernstein, of 2713 Sherbear Drive, San Ramon, CA 94583, Michael E. Fein, of 1909 Lime Tree Lane, Mt. View, CA 94040, William L. Shea, of 4049 Findlay Way, Livermore, CA 94550, Willem A. Crone, of 7150 Melvina Avenue, Palermo, CA 95948, Paul D. Mannheimer, of 4119 Sugar Maple Drive, Danville, CA 94506, Bradford Chew, of 805 Springbrook Drive, San Ramon, CA 94583, Adnan I. Merchant, of 300 Blake Avenue, Fremont, CA 94536, hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: OXIMETER SENSOR WITH ENCODED
 TEMPERATURE CHARACTERISTIC

Date(s) of execution of Declaration:

Filing Date: September 28, 1999

Application No.: 09/407,469 ; and

WHEREAS, Mallinckrodt Inc., a corporation of the state of Delaware, located at 675 McDonnell Boulevard, Hazelwood, MO, 63042, hereinafter referred to as "ASSIGNEE," is desirous of acquiring an interest in the invention and application and in any U.S. Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have assigned, and by these presents do assign to Assignee all right, title and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignors further agree that they will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of

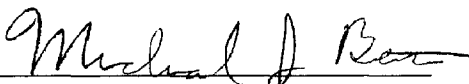
PATENT**! REEL: 010464 FRAME: 0784**

transfer, and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

Assignors hereby authorize and request Townsend and Townsend and Crew LLP, Two Embarcadero Center, 8th Floor, San Francisco, CA 94111-3834, to insert herein above the application number and filing date of said application when known.

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Dated: 12-13-99

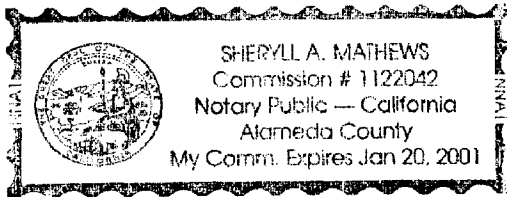


Michael J. Bernstein

STATE OF CALIFORNIA)
)
COUNTY OF Alameda) ss.

On Dec 13, 1999, before me, Sheryll A Mathews, personally appeared Michael J. Bernstein, 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 in 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.



My Commission Expires: Jan, 20, 2001



NOTARY PUBLIC

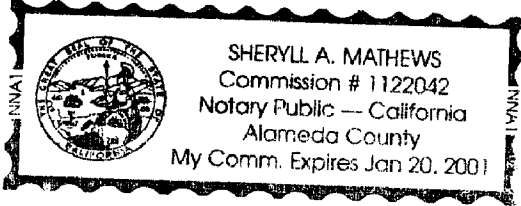
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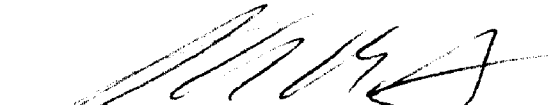

Michael E. Fein

STATE OF CALIFORNIA)
) ss.
COUNTY OF Alameda)

On Dec 13, 1999, before me, Sheryll A Mathews, personally appeared Michael E. Fein, (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 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

My Commission Expires: Jan 20, 2001

Dated: 12/13/99

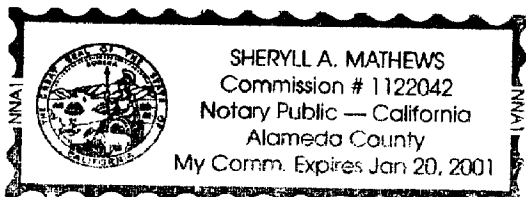


William L. Shea

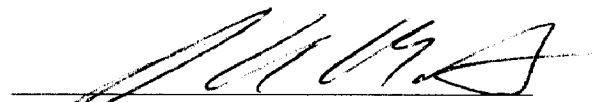
STATE OF CALIFORNIA)
)
COUNTY OF Alameda) ss.

On Dec 13, 1999, before me, Sheryll A Mathews personally appeared William L. Shea, ~~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 executed the same in 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.



My Commission Expires: Jan 20, 2001



NOTARY PUBLIC

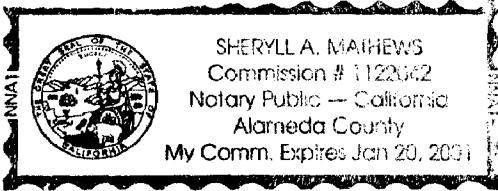
Dated: 12/14/99

[Signature]
Willem A. Crone

STATE OF CALIFORNIA)
)
COUNTY OF Alameda) ss.

On Dec 14, 1999, before me, Sheryll A Mathews, personally appeared Willem A. Crone, 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 in 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.



[Signature]
NOTARY PUBLIC

My Commission Expires: Jan 20, 2001

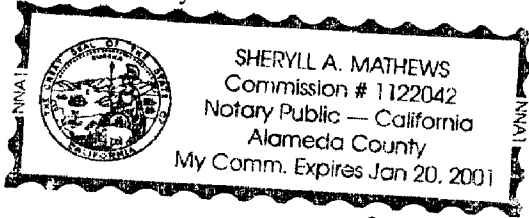
Dated: 12/13/99

Paul D. Mannheimer
Paul D. Mannheimer

STATE OF CALIFORNIA)
COUNTY OF Alameda) ss.

On Dec 13, 1999, before me, Sheryll A Mathews, personally appeared Paul D. Mannheimer (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 in 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.



Sheryll A. Mathews
NOTARY PUBLIC

My Commission Expires: Jan 20, 2001

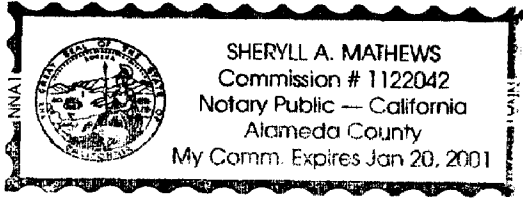
Dated: 12-13-99

Bradford Chew
Bradford Chew

STATE OF CALIFORNIA)
)
COUNTY OF Alameda) ss.

On Dec. 13, 1999, before me, Sheryll A. Mathews, personally appeared Bradford Chew 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 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.



Sheryll A. Mathews
NOTARY PUBLIC

My Commission Expires: Jan. 20, 2001

Dated: 12/13/99

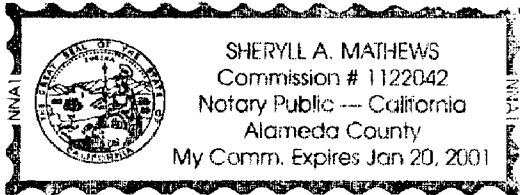



Adnan I. Merchant

STATE OF CALIFORNIA)
)
COUNTY OF Alameda) ss.

On Dec. 13, 1999, before me, Sheryll A. Mathews, personally appeared Adnan I. Merchant 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 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

My Commission Expires: Jan 20, 2001