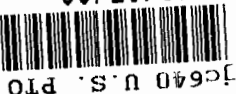


66/27/20



Box Design Patent Application  
 ASSISTANT COMMISSIONER FOR PATENTS  
 Washington, D.C. 20231

FORM PTO-1082  
 Case Docket No. PD-0335 Des.  
 Date: February 25, 1999  
 Express Mail Label No. EL 305 705 668 119

Dear Sir:

Transmitted herewith for filing is the design patent application of

Inventor(s): **JOHN J. MASTROTOTARO; NANNETTE M. VAN ANTWERP &  
 WILLIAM P. VAN ANTWERP**  
 For: **GLUCOSE SENSOR**



Enclosed are:

- ☒ 2 Sheet(s) of drawings ( ☒ informal)
- ☐ An assignment of the invention to \_\_\_\_\_
- ☐ An associate power of attorney.
- ☐ A verified statement to establish small entity status under 37 CFR 1.9 and 1.27.
- ☒ Declaration - (unexecuted).
- ☐ Certified copy of Patent Application No. filed from which priority is claimed under 35 USC §119.
- ☒ IDS enclosed. 1 with reference.
- ☒ Power of Attorney by Assignee

- ☒ Please charge my Deposit Account No. 50-0621 the amount of \$310 **A copy of this letter is enclosed.**
- ☐ A check in the amount of \$ to cover the filing fee is enclosed.
- ☐ A check in the amount of \$ to cover Assignment Recordation fee is enclosed.

- ☒ The Commissioner is hereby authorized to charge payment of the following fees associated with this communication or credit any overpayment to Deposit Account No. 50-0621.
- ☒ Any additional filing fees required under 37 CFR 1.16.
- ☒ Any patent application processing fees under 37 CFR 1.17.
- ☒ The Commissioner is hereby authorized to charge payment of the following fees during the pendency of this application or credit any overpayment to Deposit Account No. 50-0621.
- ☒ Any patent application processing fees under 37 CFR 1.17.
- ☐ The issue fee set in 37 CFR 1.18 at or before mailing of the Notice of Allowance, pursuant to 37 CFR 1.311(b).
- ☒ Any filing fees under 37 CFR 1.16 for presentation of extra claims.

Respectfully submitted,

Paul H. Kovelman  
 Reg. No. 35,228

Date: February 25, 1999

MiniMed Inc.  
 12744 San Fernando Road  
 Sylmar, CA 91342  
 Telephone: (818) 362-2358 ext. 3313  
 Facsimile: (818) 367-1460

DESIGN PATENT  
PD-0335 DES

Express Mail EL 305 705 668 US

DESIGN PATENT APPLICATION

OF

JOHN J. MASTROTOTARO, NANNETTE M. VAN ANTWERP

& WILLIAM P. VAN ANTWERP

FOR

GLUCOSE SENSOR

ASSIGNED TO

MINIMED INC.

Paul H. Kovelman  
Reg. No.: 35,228  
12744 San Fernando Road  
Sylmar, California 91342  
(818) 362-2358 ext. 3313

SPECIFICATION

TO ALL WHOM IT MAY CONCERN:

Be it known that we, JOHN J. MASTROTOTARO, NANNETTE M. VAN ANTWERP and WILLIAM P. VAN ANTWERP, have invented a new, original design for a GLUCOSE SENSOR. The following is a specification of our design, and makes reference to the figures in the accompanying drawings. The specification and the accompanying drawings form part of this application.

Fig. 1 is a top view of a glucose sensor showing our new design, the glucose sensor is shown with the electrodes shown in solid black. The electrodes are formed from one or more metals and include reactive materials, such as enzymes, catalysts or the like. The electrode pattern shown on the top surface may be reversed in a manner similar to that shown in Fig. 7. Preferred variations of the design utilize a substrate of polyimide with electrodes formed from a layer of chrome, followed by a layer of gold and a final layer of chrome, the tips of one ore more of the electrodes are covered with an enzyme. In addition, the glucose sensor may be covered with one or more membranes. Alternative variations may use different combinations or types of metals, enzymes, substrates and/or more or less membranes;

Fig. 2 is a bottom view of Fig. 1;

Fig. 3 is a rear end view thereof;

Fig. 4 is a front end view thereof;

Fig. 5 is a right side view thereof, and the left side view (not shown) is a mirror of the right side;

Fig. 6 is a bottom view showing a variation of the design on the bottom of the glucose sensor shown in Fig. 1;

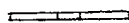
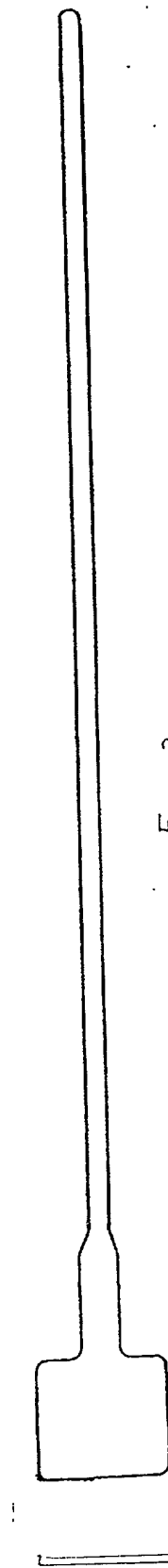
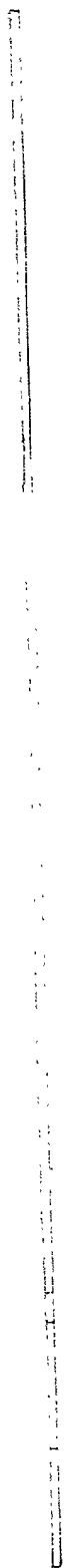
Fig. 7 is another bottom view showing a variation of the design on the bottom of the glucose sensor shown in Fig. 1, in which the electrode pattern is the mirror image of the electrode patter in Fig. 1;

Fig. 8 is a top view of the glucose sensor shown in Fig. 1 with the end squared off; and

Fig. 9 is a top view of the glucose sensor shown in Fig. 1 with the end cut off at an angle.

WE CLAIM:

The ornamental design for a glucose sensor, as shown and described.



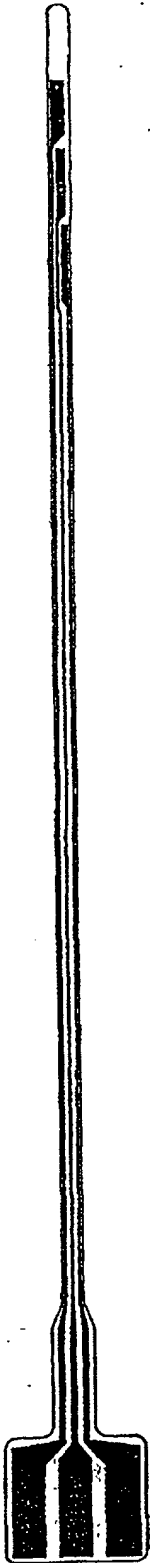


Fig. 6

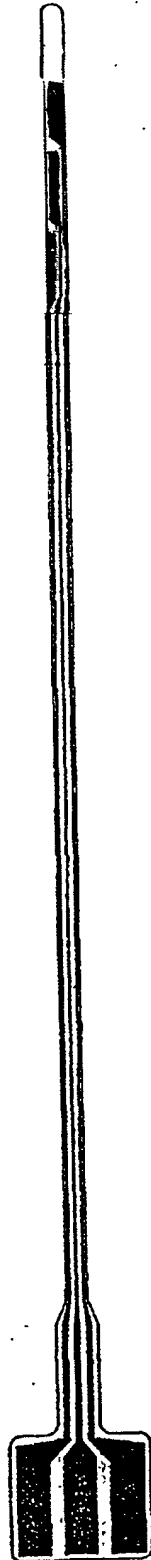


Fig. 7



Fig. 8

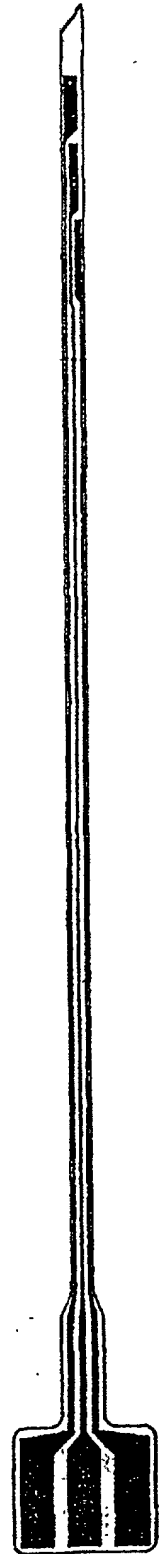


Fig. 9

**DECLARATION**

☒ ORIGINAL  
☐ CONTINUATION  
☐ DIVISIONAL

As a below named inventor, I declare that the information given herein is true, that I believe that I am the original, first and sole inventor (or joint inventor if more than one name is listed below) of the invention entitled:

**GLUCOSE SENSOR**

Which is described and claimed in:

- ☒ the attached specification  
☐ the specification serial No. \_\_\_\_\_ filed \_\_\_\_\_

and for which a patent is sought, and that my residence, post office address and citizenship are as stated below next to my name.

I acknowledge my duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations §1.56(a).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

**PRIOR FOREIGN APPLICATION(S)**

| COUNTRY | APPLICATION NUMBER | DATE OF FILING<br>Month Day Year | PRIORITY<br>CLAIMED UNDER<br>35 U.S.C. 119 |    |
|---------|--------------------|----------------------------------|--------------------------------------------|----|
|         |                    |                                  | YES                                        | NO |
|         |                    |                                  |                                            |    |

I hereby claim the benefit under Title 35, United States Code, §1120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application.

(Application Serial No.) (Filing Date) (Status)

**Send correspondence to:**  
MiniMed Inc.  
12744 San Fernando Road  
Sylamar, California 91342

**DIRECT TELEPHONE CALLS TO:**  
Paul H. Kovelman  
(818) 362-5958 x3313

|   |                                                                        |                           |                        |                   |                                |                                |
|---|------------------------------------------------------------------------|---------------------------|------------------------|-------------------|--------------------------------|--------------------------------|
| 1 | Name of Inventor                                                       | LAST NAME<br>MASTROTOTARO | FIRST NAME<br>JOHN     | MIDDLE NAME<br>M. | Residence: CITY<br>LOS ANGELES | STATE or COUNTRY<br>CALIFORNIA |
|   | Post Office Address<br>1235 Brockton Ave., #106, Los Angeles, CA 90025 |                           |                        |                   |                                | CITIZENSHIP<br>US              |
| 2 | Name of Inventor                                                       | LAST NAME<br>VAN ANTWERP  | FIRST NAME<br>NANNETTE | MIDDLE NAME<br>M. | Residence: CITY<br>VALENCIA    | STATE or COUNTRY<br>CALIFORNIA |
|   | Post Office Address<br>24101 W. DEL MONTE, #418, VALENCIA, CA 91355    |                           |                        |                   |                                | CITIZENSHIP<br>US              |
| 3 | Name of Inventor                                                       | LAST NAME<br>VAN ANTWERP  | FIRST NAME<br>WILLIAM  | MIDDLE NAME<br>P. | Residence: CITY<br>VALENCIA    | STATE or COUNTRY<br>CALIFORNIA |
|   | Post Office Address<br>24101 W. DEL MONTE, #418, VALENCIA, CA 91355    |                           |                        |                   |                                | CITIZENSHIP<br>US              |
| 4 | Name of Inventor                                                       | LAST NAME                 | FIRST NAME             | MIDDLE NAME       | Residence: CITY                | STATE or COUNTRY               |
|   | Post Office Address                                                    |                           |                        |                   |                                | CITIZENSHIP                    |

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

SIGNATURE OF INVENTOR 1

DATE

SIGNATURE OF INVENTOR 2

DATE

SIGNATURE OF INVENTOR 3

DATE

Express Mail No. EL 305 705 668 US

Design PATENT  
PD-0335 Des.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

|                              |   |           |         |
|------------------------------|---|-----------|---------|
| In re design application of: | ) | Art Unit: | Unknown |
| John J. Mastrototaro         | ) |           |         |
| Serial No.: unknown          | ) | Examiner: | Unknown |
| Filed: February 25, 1999     | ) |           |         |
| For: GLUCOSE SENSOR          | ) |           |         |

POWER OF ATTORNEY BY ASSIGNEE  
AND EXCLUSION OF INVENTOR UNDER RULE 3.71

Box Design Patent Application  
Assistant Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

The undersigned **John H. Livingston** is a representative authorized to sign on behalf of the assignee of the entire interest in the above-identified subject application, **MiniMed Inc.** and hereby appoints:

Paul H. Kovelman, Reg. No. 35,228;

and all of the firm of Konrad Raynes & Victor, LLP:

William K. Konrad, Reg. No. 28,868

Alan S. Raynes, Reg. No. 39,809

David Victor, Reg. No. 39,867

to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith, said appointment to be to the exclusion of the inventor and his attorney in accordance with the provisions of Rule 32 of the Patent Office Rules of Practice.

**MiniMed Inc.**, per 37 C.F.R. §3.73(b), certifies that the evidentiary documents with respect to its ownership have been reviewed and that to the best of the undersign's knowledge and belief, title is in the assignee seeking this action.

**MiniMed Inc.**, declares that 100% ownership is established by an assignment to be in the Regular Utility Patent Application, and that the Inventors are under an obligation to assign the application to **MiniMed Inc.**

Please direct all telephone calls to Paul Kovelman at (818) 362-2358 ext. 3313 and all correspondence relative to said application to the following address:

Paul H. Kovelman  
MiniMed Inc.  
12744 San Fernando Road  
Sylmar, CA 91342

ASSIGNEE: **MiniMed Inc.**

Date: February 25, 1999      Signature:   
John H. Livingston  
Title: Vice President of Technology  
Address: 12744 San Fernando Road  
Sylmar, CA 91342